Minden Wastewater Treatment Facility

Works # 110002390

Annual Wastewater Performance Report

Prepared For: The Township of Minden Hills

Reporting Period of January 1st – December 31st, 2025

Issued: March 30, 2026

Operating Authority:

OCWA

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

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2025 Performance Report for the Minden Sewage Treatment Plant

Reporting Requirements

The Minden Hills Sewage Treatment Plant, unless noted within this report, complies with all requirements of the regulating authorities and operates under:

- Environmental Compliance Approval (ECA) No. 5475-BPYLDH issued October 2, 2020
- Environmental Compliance Approval (ECA) No. 246-W601 issued November 2, 2022

In 2025, the Minden Sewage Treatment Plant operated under by Amended Environmental Compliance Approval (ECA) No. 5475-BPYLDH. Condition 11.4. of this ECA states, *"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) 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 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 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;

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 10, 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;

The above information is incorporated in the following report format and submitted to the Ministry of Environment, Conservation and Parks (Ministry) District Manager of the Peterborough District Office of the Ministry as per the requirements of the ECA No. 5475- BPYLDH.

The Environmental Compliance Approval Number 246-W601 for the Minden Hills Sewage Collection System, stipulates that the operating authority for the following conditions shall maintain annual records:

Schedule E – Reporting (4.6)

a) a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for

future modifications to the Authorized System or system operations.

b) a summary of any operating problems encountered and corrective actions taken.
c) a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.
d) a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
e) a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.
f) a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including:
    i. Dates;
    ii. Volumes and durations;
    iii. If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli;
    iv. Disinfection, if any; and
    v. Any adverse impact(s) and any corrective actions, if applicable.
g) a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:
    i. A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted.
    ii. Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines.
    iii. An assessment of the effectiveness of each action taken.
    iv. An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives.
    v. Public reporting approach including proactive efforts

Environmental Compliance Approval (ECA) No. 5475-BPYLDH

During the period of 2025, the Ontario Clean Water Agency (OCWA) operated the Minden STP, Invergordon Avenue Sewage Pumping Station (SPS) and 25 Orde Street SPS on behalf of the Corporation of the Township of Minden Hills. OCWA's goals have remained consistent during this period and remain consistent with the following priorities:

- provide quality assurance, safety and environmental compliance of facility operations;
- assist our clients in achieving compliance;
- provide advice on up-to-date technology in Operations and Maintenance service delivery.

This report will show that the Ontario Clean Water Agency has made every attempt to achieve its goals through its operational performance. This performance was enhanced through the use of an electronic process data collection database, an electronic maintenance and work order database, an electronic operational excellence database, a training program focused on providing the right skills to staff - also captured and tracked by the use of an electronic database and a multi-skilled, flexible workforce.

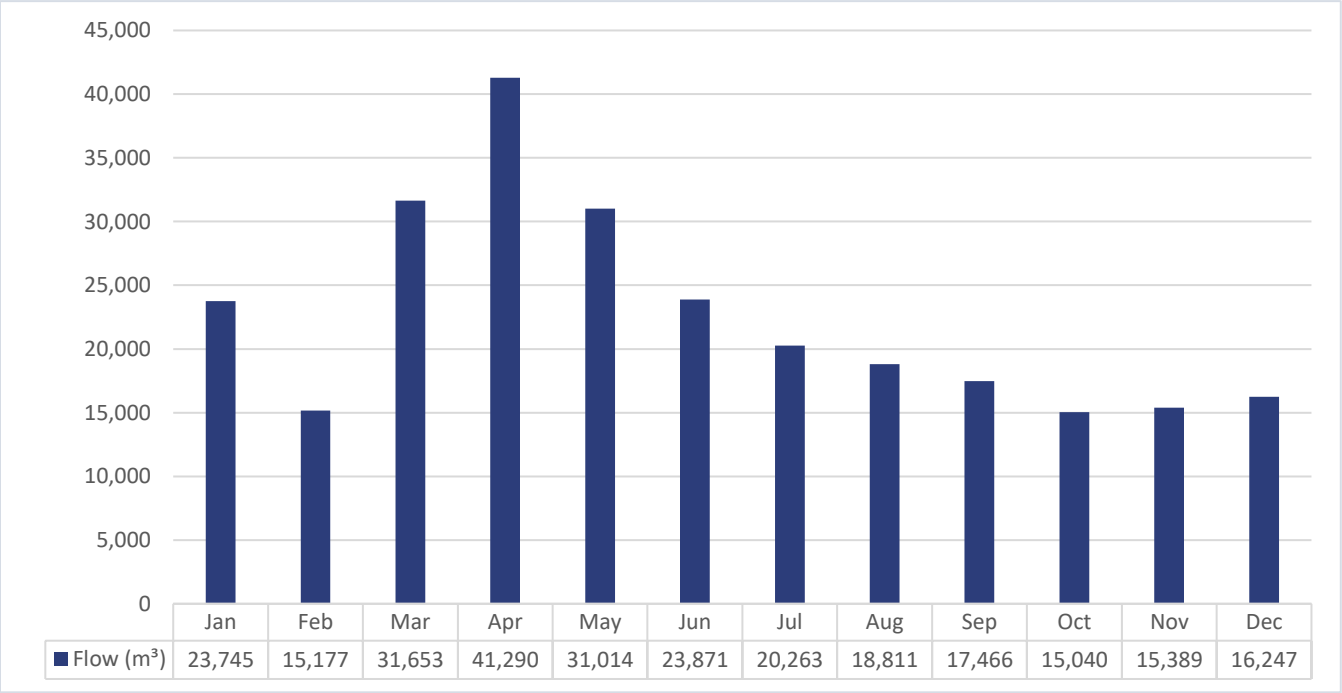
Summary of Influent Data

a) Environmental Compliance Approval (ECA) No. 5475-BPYLDH requires a summary and interpretation of all Influent, and a review of the historical trend of the sewage characteristics and flow rates;

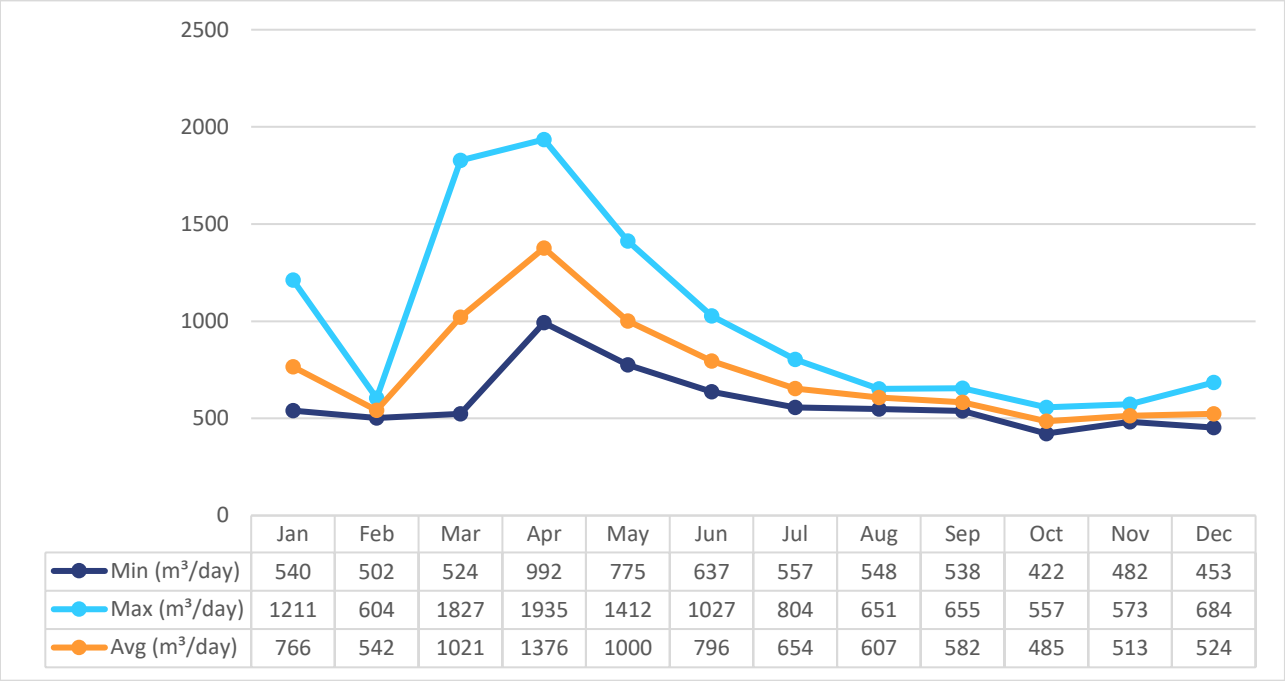
The Minden STP has a Rated Capacity of 945 m^3/day. Flows are continuously measured through the plant effluent flow meter (V-notch weir) on the effluent from the disinfection channel from the chlorine contact tank. The influent and effluent streams are considered not significantly different in flow rates and quantities so the effluent flow measurements are also used for influent flow measurements. ECA No. 5475-BPYLDH requires that everything practicable be undertaken to operate the STP so that the annual average daily influent is within the Rated Capacity. The 2025 annual average daily influent flow was 740 m^3/day or 78% of the Rated Capacity.

The total influent/effluent flow in 2025 was 269,966 m^3.

Graph 1: 2025 Influent/Effluent Flow Monthly Totals

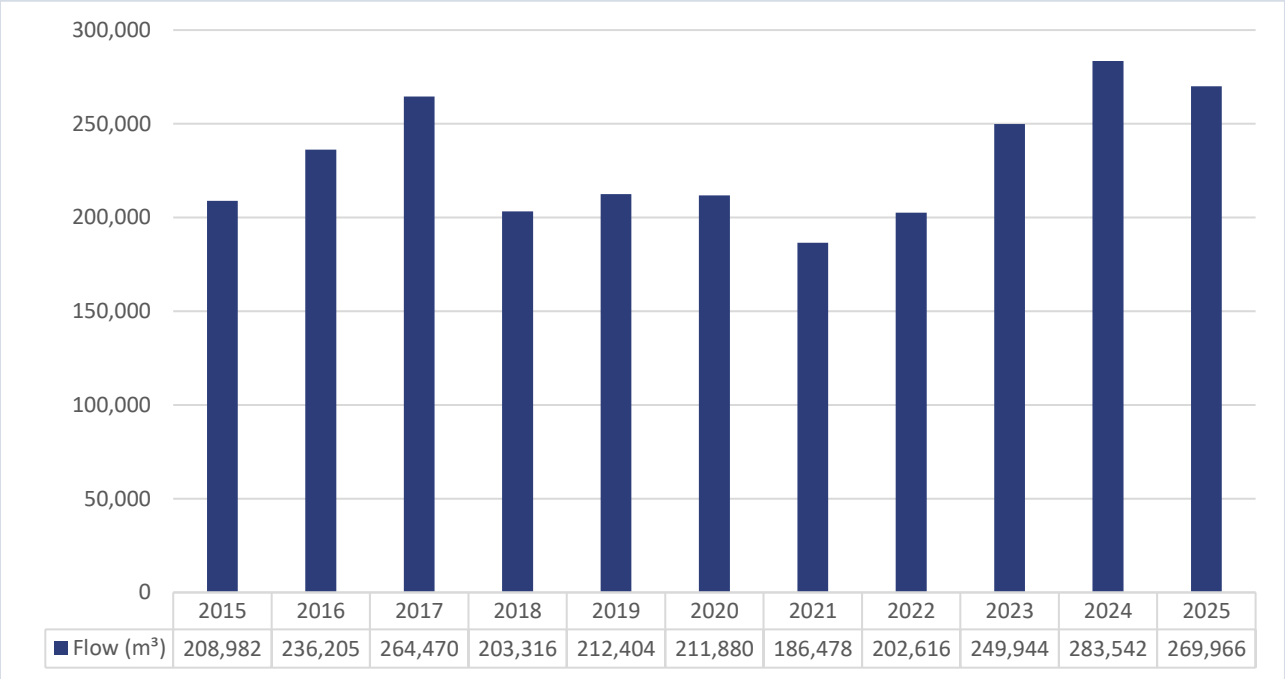


Graph 2: 2025 Influent/Effluent Daily Minimum, Maximum and Average Flows



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Min (m³/day)	540	502	524	992	775	637	557	548	538	422	482	453
Max (m³/day)	1211	604	1827	1935	1412	1027	804	651	655	557	573	684
Avg (m³/day)	766	542	1021	1376	1000	796	654	607	582	485	513	524

Graph 3: Historical Influent/Effluent Flows from 2015 to 2025



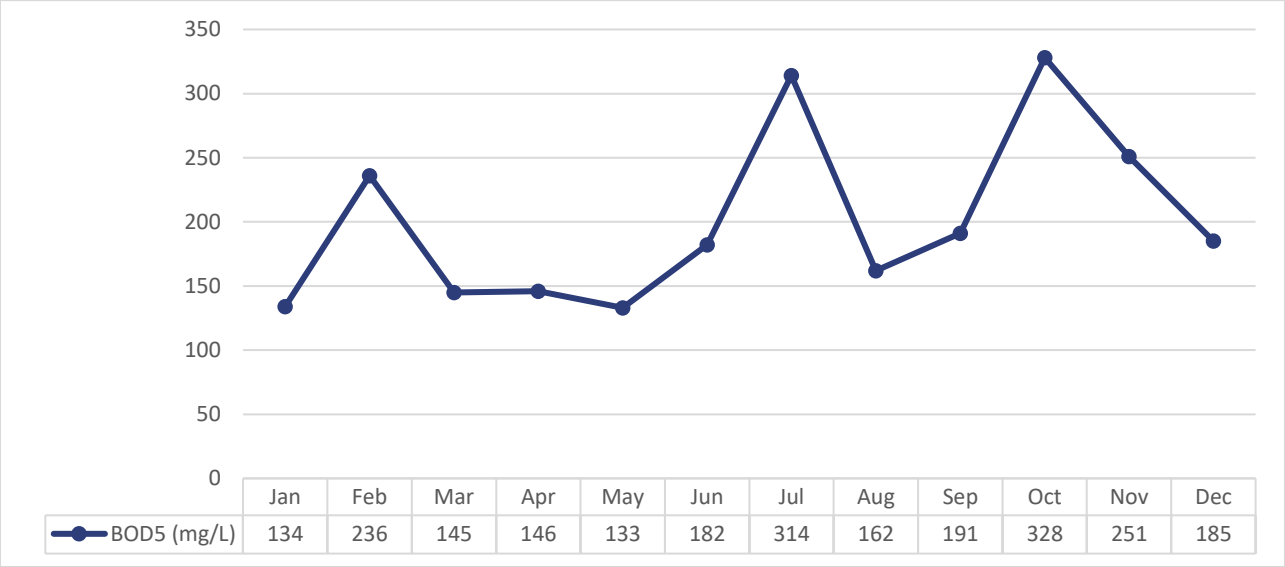
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Flow (m³)	208,982	236,205	264,470	203,316	212,404	211,880	186,478	202,616	249,944	283,542	269,966

Influent Monitoring - Sewage Characteristics

Biochemical Oxygen Demand (BOD5)

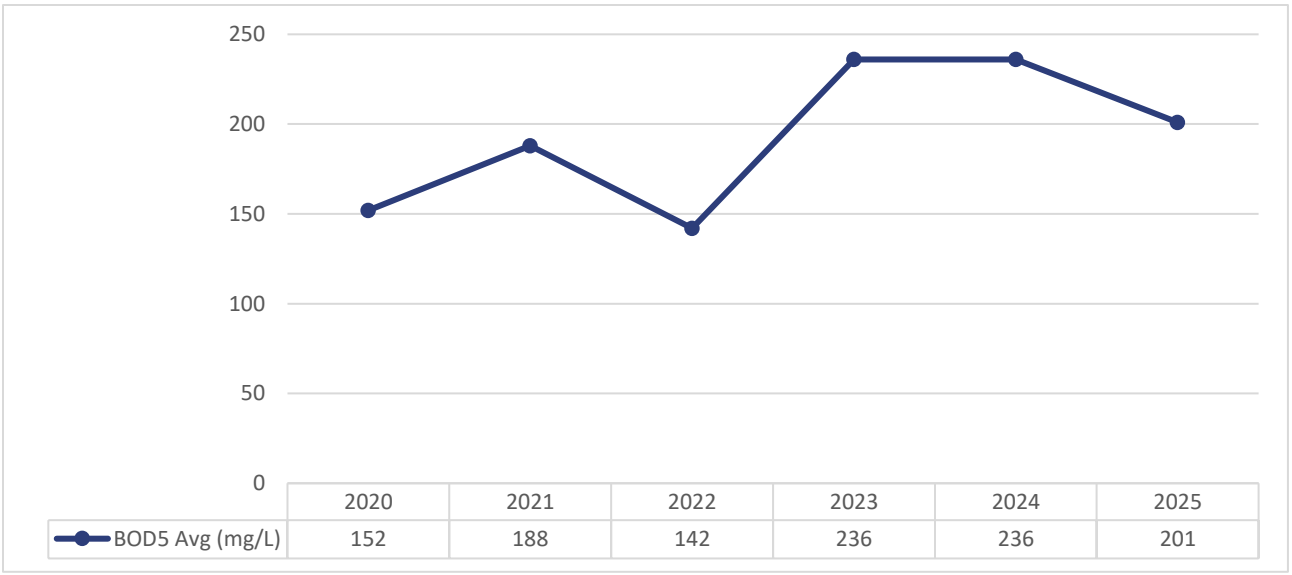
ECA No. 5475-BPYLDH requires at least one composite sample be collected and analyzed monthly for Biochemical Oxygen Demand (BOD5). The Biochemical Oxygen Demand (BOD5) monthly average results ranged from 134 mg/L to 314 mg/L.

Graph 4: 2025 Monthly BOD5 Influent Concentration Comparison



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD5 (mg/L)	134	236	145	146	133	182	314	162	191	328	251	185

Graph 5: Historical BOD5 Influent Concentration Comparison



	2020	2021	2022	2023	2024	2025
BOD5 Avg (mg/L)	152	188	142	236	236	201

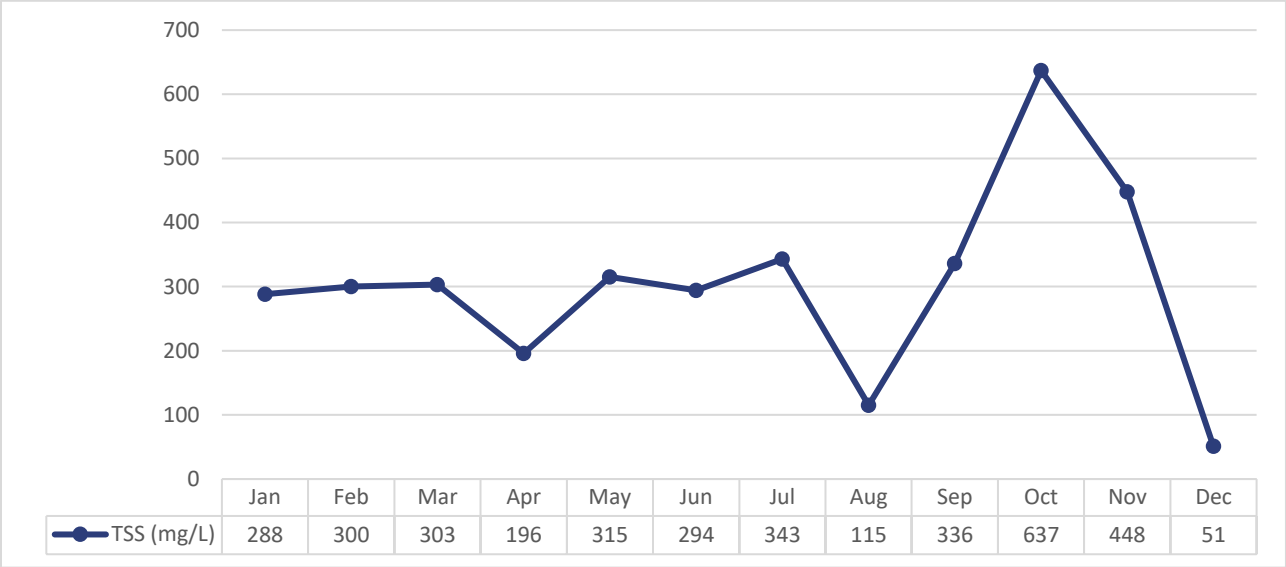
Biochemical Oxygen Demand Historical Trends

Historical trends are limited as previous approvals for the Minden STP did not require influent BOD5 sampling until ECA No. 1926-BDRLK3 issued July 31st, 2019. BOD5 concentrations in the influent have averaged annually between 142 mg/L to 236 mg/L.

Total Suspended Solids

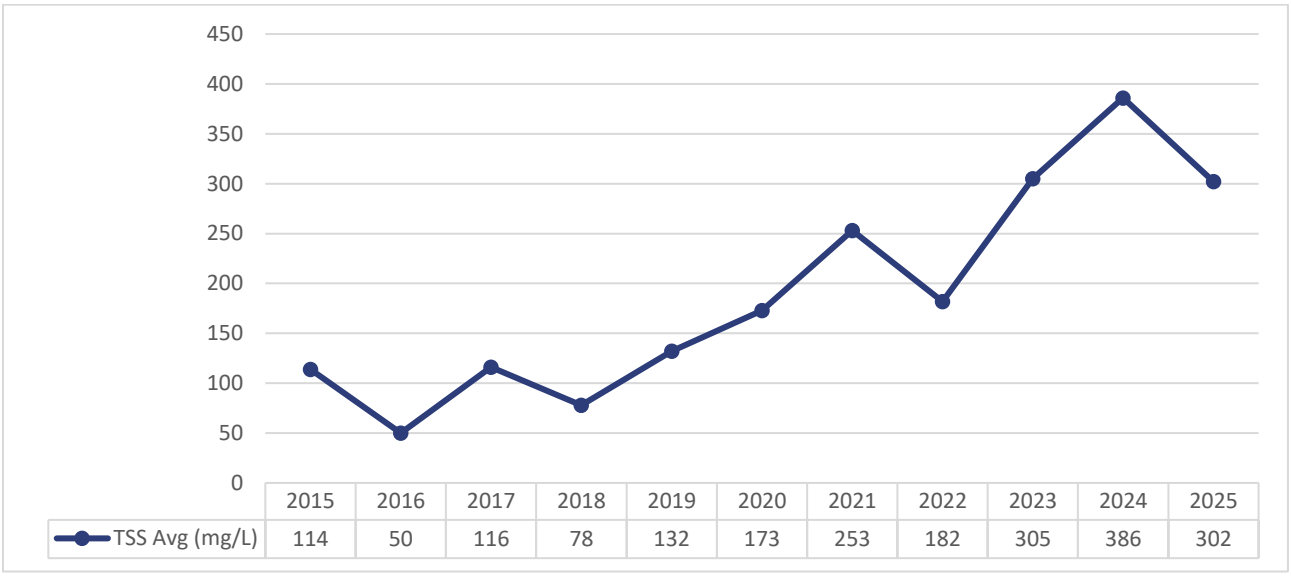
ECA No. 5475-BPYLDH requires at least one composite sample be collected and analyzed monthly for Total Suspended Solids. The monthly results ranged from 98 mg/L to 615 mg/L.

Graph 6: 2025 Monthly Total Suspended Solids Influent Concentration Comparisons



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TSS (mg/L)	288	300	303	196	315	294	343	115	336	637	448	51

Graph 7: Historical Influent Total Suspended Solids Concentration Comparisons



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
TSS Avg (mg/L)	114	50	116	78	132	173	253	182	305	386	302

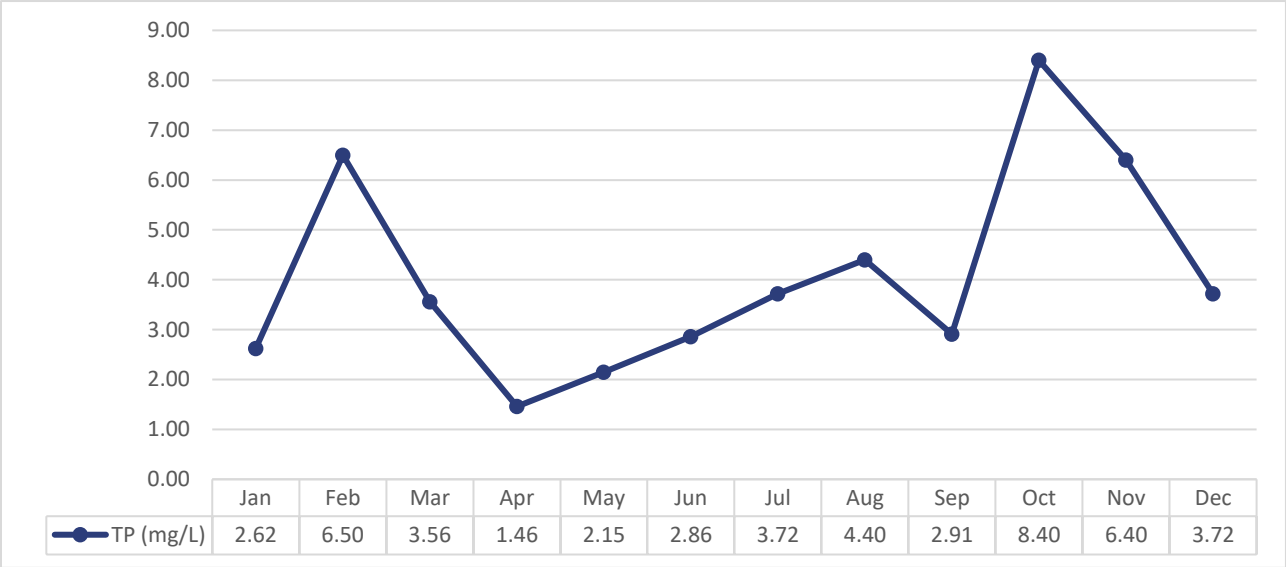
Total Suspended Solids Historical Review

The Total Suspended Solids annual average has been between 50 mg/L and 386 mg/L with the highest average occurring in 2024.

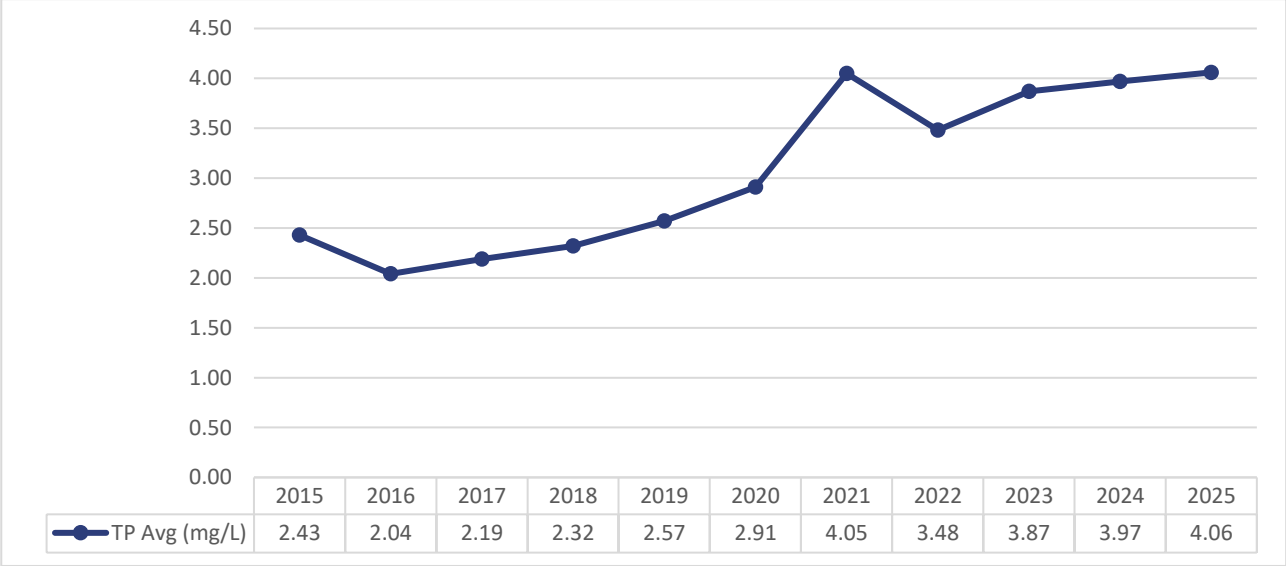
Total Phosphorus

ECA No. 5475-BPYLDH requires at least one composite sample be collected and analyzed monthly for Total Phosphorus. The monthly average Total Phosphorus results ranged from 1.46 mg/L to 8.40 mg/L.

Graph 8: 2025 Monthly Total Phosphorus Influent Concentration Comparisons



Graph 9: Historical Influent Total Phosphorus Concentration Comparisons



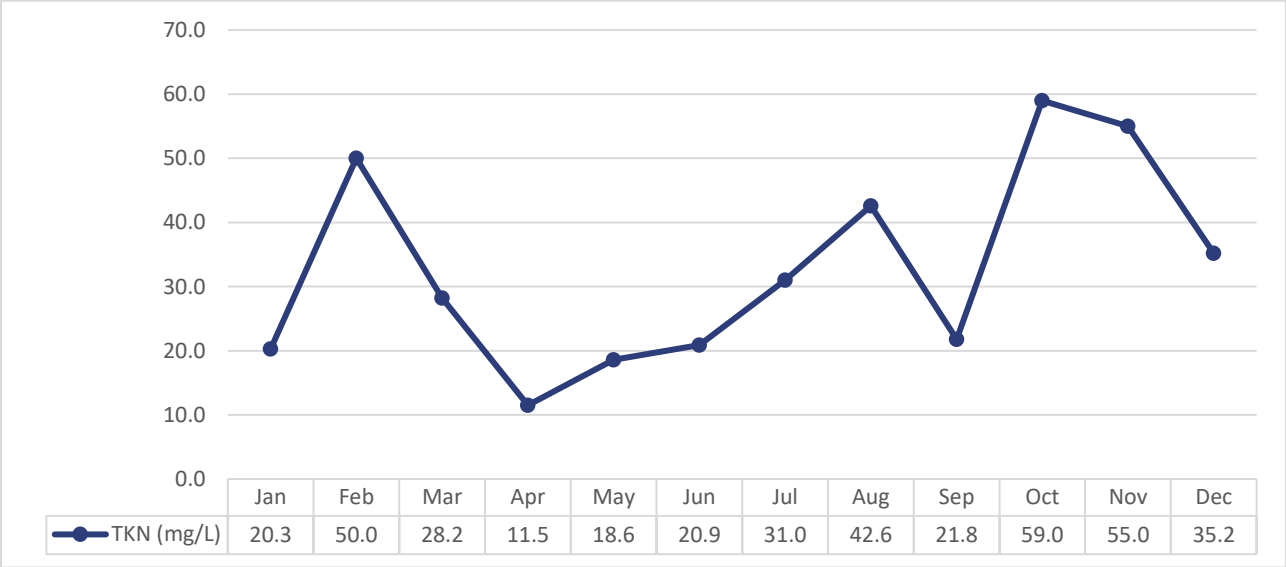
Total Phosphorus Historical Trends

The Total Phosphorus annual average increased in 2021 and trended upwards after 2022 to the value in 2025.

Total Kjeldahl Nitrogen (TKN)

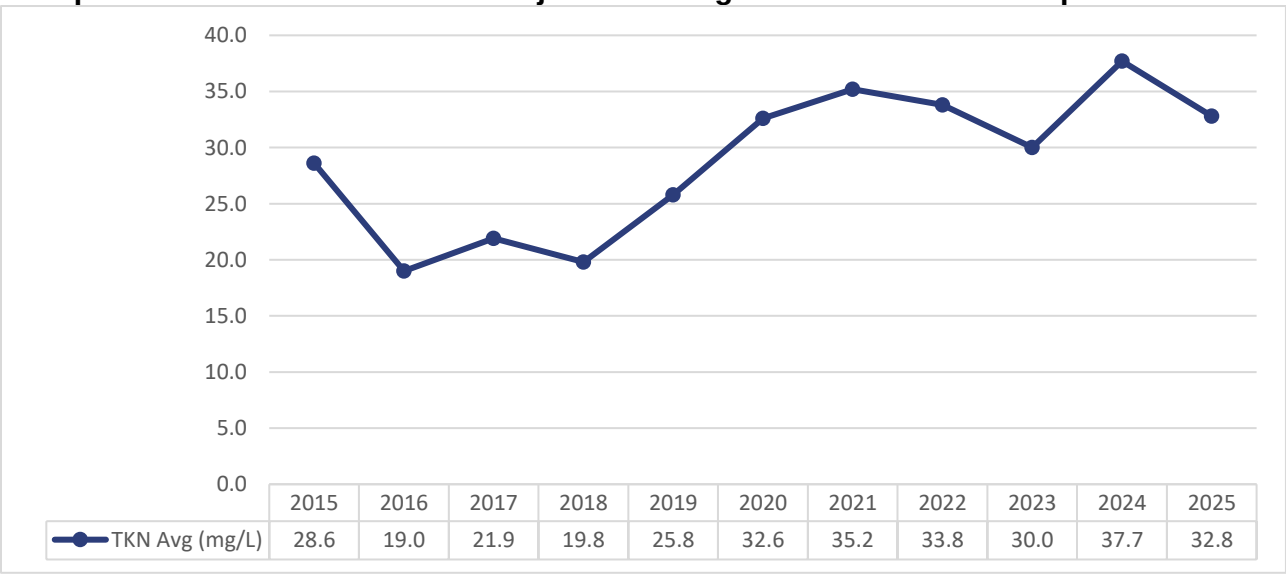
ECA No. 5475-BPYLDH require at least one composite sample be collected and analyzed monthly for Total Kjeldahl Nitrogen. The monthly Total Kjeldahl Nitrogen results ranged from 11.5 mg/L to 59.0 mg/L.

Graph 10: 2025 Monthly Total Kjeldahl Nitrogen Influent Concentration Comparisons



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TKN (mg/L)	20.3	50.0	28.2	11.5	18.6	20.9	31.0	42.6	21.8	59.0	55.0	35.2

Graph 11: Historical Influent Total Kjeldahl Nitrogen Concentration Comparisons



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
TKN Avg (mg/L)	28.6	19.0	21.9	19.8	25.8	32.6	35.2	33.8	30.0	37.7	32.8

Total Kjeldahl Nitrogen Historical Review

The Total Kjeldahl Nitrogen annual average has remained fairly consistent but an upward trend has occurred since 2020 with a slight decrease in 2023.

Refer to **Appendix I** for the 2025 Performance Assessment Report for the Minden STP.

Summary of Effluent Data

b) Environmental Compliance Approval (ECA) No. 5475-BPYLDH 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.

The Final Effluent Monitoring Data for 2025 is summarized below and compared to design objectives and compliance limits in ECA No. 5475-BPYLDH.

Flows are continuously measured through the plant effluent flow meter (V-notch weir) on the effluent from the disinfection channel from the chlorine contact tank. The influent and effluent streams are considered not significantly different in flow rates and quantities so the effluent flow measurements are also used for influent flow measurements.

The total influent/effluent flow in 2025 was 269,966 m^3. The effluent flow summary and interpretation are included in a. above with the influent flow summary and interpretation.

In August 2022, the construction of the UV disinfection was completed. ECA No. 5475-BPYLDH includes limits and objectives for the final effluent for prior to completion and upon completion of construction of all Proposed Works. All the final effluent concentrations for 2025 will be compared to the limits and objectives listed for upon completion of construction of all Proposed Works.

Carbonaceous Biochemical Oxygen Demand (CBOD5) and Total Suspended Solids (TSS)

ECA No. 5475-BPYLDH has a monthly average concentration limit of 15 mg/L for CBOD5 and TSS upon completion of the Proposed Works. The results are presented in the following table.

Table 1: CBOD5 and Suspended Solids 2025 Effluent Concentration Results Comparison to Limits

Effluent Parameter	Monthly Average Limit 15 mg/L	Monthly Average (mg/L)	Compliant Y/N
CBOD5	January	<4.00	Y
	February	<4.00	Y
	March	<4.00	Y
	April	<4.20	Y
	May	<4.00	Y
	June	<4.00	Y
	July	<4.00	Y

Table 1: CBOD5 and Suspended Solids 2025 Effluent Concentration Results Comparison to Limits			
Effluent Parameter	**Monthly Average Limit 15 mg/L**	**Monthly Average (mg/L)**	**Compliant Y/N**
	August	<3.50	Y
	September	<4.00	Y
	October	<4.00	Y
	November	<4.00	Y
	December	<4.00	Y
Total Suspended Solids	January	<2.29	Y
	February	<22.25	Y
	March	<4.68	Y
	April	<2.80	Y
	May	<2.00	Y
	June	<2.00	Y
	July	<2.00	Y
	August	<2.00	Y
	September	<2.00	Y
	October	<2.60	Y
	November	<2.00	Y
	December	<2.00	Y

ECA No. 5475-BPYLDH has a monthly average concentration objective of 10 mg/L for CBOD5 and TSS upon completion of the Proposed Works. The results are presented in the following table.

Table 2: CBOD5 and Suspended Solids 2025 Effluent Concentration Results Comparison to Objective			
Effluent Parameter	**Monthly Average Objective 10 mg/L**	**Monthly Average (mg/L)**	**Compliant Y/N**
CBOD5	January	<4.00	Y
	February	<4.00	Y
	March	<4.00	Y
	April	<4.20	Y
	May	<4.00	Y
	June	<4.00	Y
	July	<4.00	Y
	August	<3.50	Y
	September	<4.00	Y
	October	<4.00	Y

Table 2: CBOD5 and Suspended Solids 2025 Effluent Concentration Results Comparison to Objective			
Effluent Parameter	**Monthly Average Objective 10 mg/L**	**Monthly Average (mg/L)**	**Compliant Y/N**
	November	<4.00	Y
	December	<4.00	Y
Total Suspended Solids	January	<2.29	Y
	February	<22.25	Y
	March	<4.68	Y
	April	<2.80	Y
	May	<2.00	Y
	June	<2.00	Y
	July	<2.00	Y
	August	<2.00	Y
	September	<2.00	Y
	October	<2.60	Y
	November	<2.00	Y
	December	<2.00	Y

ECA No. 5475-BPYLDH has a monthly average daily effluent loading limit of 14.18 kg/day for CBOD5 and TSS after the completion of the Proposed Works. The results for 2025 are presented in the following table.

Table 3: CBOD5 and Suspended Solids 2025 Effluent Loading Results Comparison to Limit			
Effluent Parameter	**Monthly Average Daily Loading Limit 14.18mg/L**	**Monthly Daily Average Loading (mg/L)**	**Compliant Y/N**
CBOD5	January	<3.064	Y
	February	<2.168	Y
	March	<4.084	Y
	April	<5.781	Y
	May	<4.002	Y
	June	<3.183	Y
	July	<2.615	Y
	August	<2.124	Y
	September	<2.329	Y
	October	<1.941	Y
	November	<2.052	Y
	December	<2.096	Y
Total Suspended Solids	January	<1.751	Y
	February	<1.220	Y

Table 3: CBOD5 and Suspended Solids 2025 Effluent Loading Results Comparison to Limit			
Effluent Parameter	**Monthly Average Daily Loading Limit 14.18mg/L**	**Monthly Daily Average Loading (mg/L)**	**Compliant Y/N**
	March	<4.722	Y
	April	<6.441	Y
	May	<2.801	Y
	June	<1.591	Y
	July	<1.307	Y
	August	<1.214	Y
	September	<1.164	Y
	October	<1.261	Y
	November	<1.026	Y
	December	<1.048	Y

All effluent results were below the concentration and loading limits, as well as objectives for CBOD5 and TSS in 2025.

Total Phosphorus

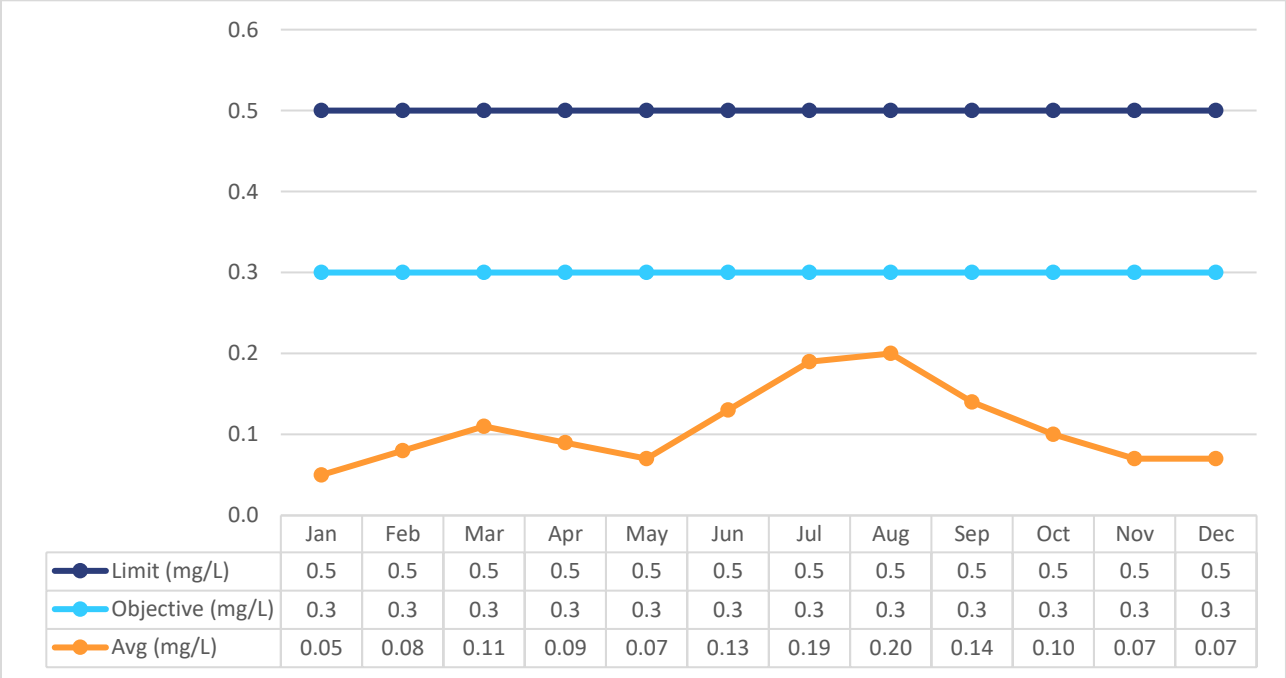
ECA No. 5475-BPYLDH has a monthly average concentration limit of 0.5 mg/L for Total Phosphorus. The monthly average results for 2025 are presented in the following table.

Table 4: Total Phosphorus 2025 Monthly Average Concentrations			
Month	**ECA No. 5475-BPYLDH Monthly Average Limit (mg/L)**	**Monthly Average (mg/L)**	**Compliant Y/N**
January	0.5	0.05	Y
February	0.5	0.08	Y
March	0.5	0.11	Y
April	0.5	0.09	Y
May	0.5	0.07	Y
June	0.5	0.13	Y
July	0.5	0.19	Y
August	0.5	0.20	Y
September	0.5	0.14	Y
October	0.5	0.10	Y
November	0.5	0.07	Y
December	0.5	0.07	Y

ECA No. 5475-BPYLDH has a monthly average concentration objective of 0.3 mg/L for Total Phosphorus. The monthly average results for 2025 are presented in the following table.

Table 5: Total Phosphorus 2025 Monthly Average Concentrations			
Month	**Monthly Average Objective (mg/L)**	**Monthly Average (mg/L)**	**Objective Met Y/N**
January	0.3	0.05	Y
February	0.3	0.08	Y
March	0.3	0.11	Y
April	0.3	0.09	Y
May	0.3	0.07	Y
June	0.3	0.13	Y
July	0.3	0.19	Y
August	0.3	0.20	Y
September	0.3	0.14	Y
October	0.3	0.10	Y
November	0.3	0.07	Y
December	0.3	0.07	Y

Graph 12: 2025 Monthly Final Effluent Phosphorus Concentration Comparisons



ECA No. 5475-BPYLDH has a monthly average daily effluent loading limit of 0.47 kg/day for Total Phosphorus. The loadings for 2025 are presented in the following table.

Table 6: Total Phosphorus 2025 Monthly Average Daily Effluent Loading

Month	Monthly Average Daily Effluent Loading Limit (kg/day)	Monthly Average Daily Effluent Loading Limit Result (kg/day)	Compliant Y/N
January	0.47	0.038	Y
February	0.47	0.043	Y
March	0.47	0.110	Y
April	0.47	<0.124	Y
May	0.47	0.072	Y
June	0.47	0.105	Y
July	0.47	0.123	Y
August	0.47	0.118	Y
September	0.47	0.079	Y
October	0.47	0.048	Y
November	0.47	0.033	Y
December	0.47	0.036	Y

All effluent results were below the concentration and loading limits, as well as objectives for Total Phosphorus in 2025.

Total Ammonia Nitrogen

ECA No. 5475-BPYLDH has a Total Ammonia Nitrogen (TAN) average concentration loading limit based on monthly averages for seasonal limits for Oct 1 – Apr 30 and May 1 – Sep 30. The limits are applied monthly upon completion of construction of all Proposed Works. The monthly average results for 2025 are presented in Table 7. All effluent results were below the concentration and loading limits and objectives for TAN.

Table 7: Total Ammonia Nitrogen 2025 Monthly Average Concentrations and Loadings upon completion of construction of all Proposed Works

Month	Monthly Average Concentration Limit (mg/L)	Monthly Average (mg/L)	Compliant Y/N
January	12.0	<0.10	Y
February	12.0	<0.10	Y
March	12.0	<0.19	Y
April	12.0	<0.11	Y

Table 7: Total Ammonia Nitrogen 2025 Monthly Average Concentrations and Loadings upon completion of construction of all Proposed Works			
Month	**Monthly Average Concentration Limit (mg/L)**	**Monthly Average (mg/L)**	**Compliant Y/N**
May	6.0	<0.24	Y
June	6.0	0.15	Y
July	6.0	<0.14	Y
August	6.0	<0.13	Y
September	6.0	<0.10	Y
October	12.0	<0.12	Y
November	12.0	<0.10	Y
December	12.0	<0.10	Y
Month	**Monthly Average Daily Effluent Loading Limit (kg/d)**	**Monthly Average Daily Effluent Loading Average (kg/d)**	**Compliant Y/N**
January	11.3	<0.077	Y
February	11.3	<0.054	Y
March	11.3	<0.191	Y
April	11.3	<0.149	Y
May	5.7	<0.240	Y
June	5.7	0.119	Y
July	5.7	0.092	Y
August	5.7	<0.076	Y
September	5.7	<0.058	Y
October	11.3	<0.058	Y
November	11.3	<0.051	Y
December	11.3	<0.052	Y

ECA No. 5475-BPYLDH has a Total Ammonia Nitrogen (TAN) average concentration loading objective based on monthly averages for seasonal objectives for Oct 1 – Apr 30 and May 1 – Sep 30. The objectives are applied monthly upon completion of construction of all Proposed Works. The monthly average results for 2025 are presented in Table 8. All effluent results were below the concentration and loading limits and objectives for TAN.

Table 8: Total Ammonia Nitrogen 2025 Monthly Average Concentrations and Loadings upon completion of construction of all Proposed Works			
Month	**Monthly Average Concentration Objective (mg/L)**	**Monthly Average (mg/L)**	**Objective Met Y/N**
January	6.0	<0.10	Y
February	6.0	<0.10	Y
March	6.0	<0.19	Y

Table 8: Total Ammonia Nitrogen 2025 Monthly Average Concentrations and Loadings upon completion of construction of all Proposed Works			
Month	**Monthly Average Concentration Objective (mg/L)**	**Monthly Average (mg/L)**	**Objective Met Y/N**
April	6.0	<0.11	Y
May	3.0	<0.24	Y
June	3.0	0.15	Y
July	3.0	<0.14	Y
August	3.0	<0.13	Y
September	3.0	<0.10	Y
October	6.0	<0.12	Y
November	6.0	<0.10	Y
December	6.0	<0.10	Y

Total Residual Chlorine (TRC)

ECA No. 5475-BPYLDH has a Total Residual Chlorine compliance limit of 0.02 mg/L and an objective of not detectable as measured by a method with a sensitivity of at least 0.02 mg/L for every single sample result.

The Final Effluent TRC measured in 2025 are provided in **Appendix I** and are compared to the limit and objective. The installation of the UV disinfection system was completed in August 2022 and is used for disinfection except when a sand filter bypass occurs, in these instances sodium hypochlorite is used for disinfection and sodium bisulphite for dechlorination.

Table 9: Total Residual Chlorine 2025 Results Comparison to Limits	
Limit 0.02mg/L	**Every Single Sample Result Compliant (Y/N)**
Results range: 0.00 – 0.01	Y

ECA No. 5475-BPYLDH has a Total Residual Chlorine objective of Non-detectable. **Appendix I** includes a comparison of all results to the objectives. The following readings did not meet the objective.

Table 10: Total Residual Chlorine 2025 Results Outside of Objective of Non-Detectable		
Date	**Results**	**Single Sample Result Objective Met Y/N**
01/01/25	0.01	N

Table 10: Total Residual Chlorine 2025 Results Outside of Objective of Non-Detectable		
Date	**Results**	**Single Sample Result Objective Met Y/N**
01/02/25	0.01	N
03/19/25	0.01	N
03/22/25	0.01	N
03/27/25	0.01	N
03/28/25	0.01	N
03/30/25	0.01	N
03/31/25	0.01	N
04/05/25	0.01	N
04/07/25	0.01	N
04/13/25	0.01	N
04/14/25	0.01	N

E. Coli

ECA No. 5475-BPYLDH has a compliance monthly geometric mean density limit of 200 cfu/100mL or 200 mpn/100mL. Many wastewater treatment facilities must test for and report results using a 'Geometric Mean' (average) of all the test results obtained during a specific reporting period. The geometric mean calculation is different than a normal arithmetic mean (average) calculation and is considered to be a more accurate calculation. A geometric mean, unlike an arithmetic mean, tends to dampen the effect of very high or low values which might bias the mean if a straight average (arithmetic mean) were calculated.

The following provides monthly geometric mean density values of E. Coli in the final effluent for each month in 2025.

Table 11: E. Coli 2025 Results Comparison to Limit												
Month	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Monthly Geometric Mean Density of E.Coli (mpn/100mL)	1.0	1.0	107.2	1505.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Compliant with Limit of 200 mpn/100 mL (Y/N)	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y

ECA No. 5475-BPYLDH has a design objective of <200cfu/100mL or <200mpn/100mL.

Table 12: E. Coli 2025 Results Compared to Objective												
Month	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Monthly Geometric Mean Density of E.Coli (mpn/100mL)	1.0	1.0	107.2	1505.0	1.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Objective of <200 mpn/100 mL Met (Y/N)	Y	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Y

pH

ECA No. 5475-BPYLDH has a pH compliance limit with a range of 6.0 to 9.5, inclusive, for every single sample result. Every pH reading in 2025 was within the compliance limit. The summary of effluent pH, provided in **Appendix I**, provides all measurements recorded in 2025 and compares the results to the limits.

Table 13: Field pH 2025 Results Comparison to Limits	
Limit 6.0 – 9.5	**Every Single Sample Result Compliant (Y/N)**
Results range: 6.05 – 7.87	Y

ECA No. 5475-BPYLDH has a pH objective of 6.5 – 8.5 inclusive for every single sample result. Appendix I includes a comparison of all results to the objectives. The following readings were below the lower pH objective of 6.5 in 2025.

Table 14: Field pH 2025 Results Outsides of Objective		
Date	**Results**	**Single Sample Result Objective Met Y/N**
02/14/25	6.06	N
02/18/25	6.33	N
02/21/25	6.05	N
02/25/25	6.41	N
03/03/25	6.33	N

The results in the preceding tables show the limits for concentrations and loadings of the effluent CBOD5, Total Suspended Solids, Total Phosphorus and Total Ammonia Nitrogen were in compliance with ECA No. 5475-BPYLDH in 2025. All results for pH met the ECA's limits in 2025. E. Coli monthly geomean results all met the ECA's limit with the exception of April 2025. Refer **Appendix I** and **Appendix V** for sampling details and reporting.

Objectives were met for CBOD5, TP, TAN, TSS.

Total Residual Chlorine (TRC) had 12 out of the 41 TRC readings were detected at 0.01mg/L with no readings exceeding the limit. Five (5) of the 224 pH readings were below the objective set by the ECA.

Refer to **Appendix I** for Performance Assessment Report and Summaries of Effluent TRC, pH and E. Coli Results for 2025.

Operating Challenges and Corrective Actions

c) a summary of all operating issues encountered and corrective actions taken;

The following details describe all operating problems encountered during the reporting period and the corrective actions taken.

Table 15: Summary of Operating Issues

Date	Challenges	Corrective Actions
Dec 29, 2024 – Jan 2, 2025	Heavy rain events created high flows which caused the sand filters to become hydraulically overloaded	Township issued an alert on their website. Monitored flows and processes. Composite effluent samples collected. Effluent met concentration and loading limits and objectives. Additional information included in Condition j.
Mar 16 – Apr 24, 2025	Heavy rain event and snow melt followed by an extreme weather event created high flows caused the sand filters to become hydraulically overloaded	Township issued an alert on their website. Monitored flows and processes. Composite effluent samples collected. Effluent met concentration and loading limits and objectives with the exception of the Monthly Geomean for E. Coli in April. Additional information included in Condition j.

Maintenance Summary

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;

OCWA uses a Work Maintenance System (WMS) to schedule normal maintenance activities and track repairs. WMS is a maintenance tracking system that can generate work orders as well as give summaries of completed and scheduled work. During the year, the operating authority at the facility generates scheduled work orders on a weekly, monthly and annual basis. The service work is recorded in the work order history. This ensures routine and preventive maintenance is carried out and assets are maintained to manufacturer's and/or industry standards. Emergency and capital repair maintenance is completed and added to the system.

Refer to **Appendix II** for work order and maintenance summary.

Effluent Quality Assurance or Control

e) a summary of any effluent quality assurance or control measures undertaken;

Effluent quality assurance is maintained in several ways. Laboratory samples are sent to accredited laboratory (SGS Lakefield) for analysis of all effluent parameters. Sampling calendars issued to the operator denote frequency of sampling and these calendars are submitted to the Process Compliance Technician at the end of each month. Raw and effluent samples were collected as per ECA No. 5475-BPYLDH and the results are reviewed on a regular basis to ensure compliance with the site's objectives and limits.

Effluent control measures include in-house sampling and testing for operational parameters such as chlorine residual, pH, temperature, phosphorus, and dissolved oxygen. In-house testing provides real time results which are then evaluated to determine if process changes are necessary to enhance operational performance. All in-house sampling and analysis are performed by certified operations staff utilizing approved methods and protocols for sampling, analysis and recording as specified in the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works", the Ministry's publication, "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" and the publication, "Standard Methods for the Examination of Water and Wastewater".

Work orders are scheduled through OCWA's asset maintenance management system to ensure preventative and corrective maintenance is completed and recorded by operations staff. A summary is attached as **Appendix II**. Flow meters are calibrated annually and the 2025 calibration report is provided in **Appendix III**.

OCWA conducts internal audits of facilities and develops Action Plans to ensure deficiencies are identified and corrected. OCWA has developed comprehensive manuals detailing operations, maintenance, instrumentation and emergency procedures. To ensure facilities are operated in compliance with applicable legal requirements, facility staff has access to a network of compliance and support professionals at the hub, region and corporate level.

During the 2025 reporting period, there was an Environment Canada Enforcement Inspection on June 9, 2025. Enforcement Officers conducted a tour of the wastewater system and collected effluent samples from the final discharge point. As part of the inspections, they also reviewed administrative records, including information submitted to the Effluent Regulatory Reporting Information System (ERRIS) and operational documents from the past five years.

Continuous phosphorus removal is achieved with the dosing of aluminum sulphate. A summary of its use and dosing rates for 2025 is provided in the following table.

Table 16: Coagulant Use and Dosing 2025

Month	Aluminum Sulphate (kg)	Aluminum Sulphate Average Dosage (mg/L)
January	845.37	37.10
February	763.56	50.43
March	845.37	30.97
April	818.10	20.40
May	845.37	28.20
June	818.10	34.90
July	1002.23	50.16
August	1056.79	56.27
September	1022.70	58.69
October	1056.79	70.52
November	1022.70	66.58
December	1056.79	65.54

Calibrations

f) 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;

Refer to **Appendix III** for 2025 calibration reports.

Best Efforts to Achieve Design Objectives of Condition 6

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:

a. 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;

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

Continuous efforts were made to meet the Effluent Objectives in 2025:

i. Development of the sampling plan which meets or exceeds the minimum sample requirements as required in the ECA;
ii. Visual Inspection of the entire process while performing rounds;
iii. Influent monitoring;
iv. Ensuring that chemicals are being dosed as required;
v. Calibration of lab equipment;
vi. Annual calibration of flow meters;
vii. Performing preventative maintenance activities in accordance with work order schedules;
viii. Performing in-house lab tests;
ix. Monitoring treatment processes by performing regular laboratory analysis and reviewing of lab results;
x. Biosolids monitoring

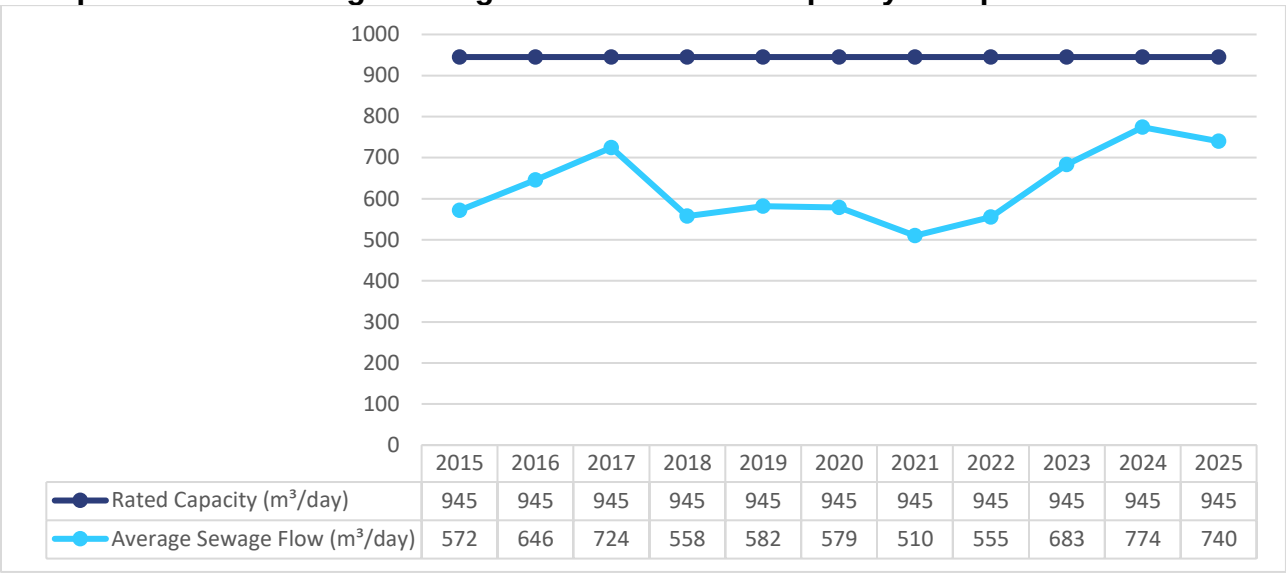
Effluent design objectives were met more than 50% of the time.

The ECA states the plant has a Rated Capacity of 945m^3/day. The Rated Capacity means the Average Daily Flow for which the plant is approved to treat. The Average Daily Flow is determined by the cumulative total sewage flow into the plant during a calendar year, which is then divided by the number of days during which sewage flowed into the plant.

The annual average daily influent flow was 740 m^3/day or 76% of the Rated Capacity.

The following graph shows the plant has been operating within the Rated Capacity for the past ten years.

Graph 13: 2025 Average Sewage Flow and Rated Capacity Comparisons



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Rated Capacity (m^3/day)	945	945	945	945	945	945	945	945	945	945	945
Average Sewage Flow (m^3/day)	572	646	724	558	582	579	510	555	683	774	740

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;

Attached is **Appendix IV**: Sludge/Biosolids Summary that contains quantities of organics, inorganics, E.coli and volumes of Biosolids/sludge generated for the reporting period - which was a total of 1,458.95 m^3. This is consistent with 2023 & 2024 volumes but a decrease from 2022 when 1,600.42 m^3 of biosolids were generated and hauled. The anticipated volume for the next reporting period is not expected to be appreciably different from this reporting period.

Biosolids from the Minden STP were hauled, stored by Shepherds Enterprises Inc. in 2025 and will be again in 2026. The biosolids are hauled to fields with a valid NASM Plan or to A710160 Shepherds Environmental Storage Structure and then applied to fields with valid NASM Plans. All of Minden's STP biosolids were stored in 2025 because of the small volumes the plant generates.

Table 17: Summary of Biosolids Land Application 2025		
Date	**Amount m^3**	**Location**
All biosolids were stored in 2025.		

Complaints

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

Table 18: Complaints Received Summary for 2025		
Date	**Issue**	**Actions Taken**
No Complaints received for 2025.		

Bypasses, Overflows, Spills, Abnormal Conditions

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;

The following table summarizes all Bypasses, Overflows and spills and abnormal discharge events that occurred in 2025. The Operations Event Forms and sampling results for these events are provided in **Appendix V**. The events were reported to MOH, the Ministry and the Township.

Table 19: 2025 Summary of Events as per Condition 11.4.j.					
Date	**Type of Event**	**Total Volume (m3)**	**Disinfect (Y/N)**	**Samples Collected (Y/N)**	**Reason**
December 29, 2024 – Jan 2, 2025	Sand Filter Bypass	4,322	Y	Y	Weather
March 16, 2025 – April 24, 2025	Sand Filter Bypass	53,425	Y	Y	Weather
April 25, 2025	Spill	11.25	N	N	Power failure affecting level sensors

ECA No. 5475-BPYLDH requires submission of quarterly summary reports of any Bypass Events and Overflows Events. ECA No. 5475-BPYLDH also requires submission of a written report for any spill events. Copies of these reports are provided in **Appendix V**.

ECA No. 5475-BPYLDH includes a Peak Daily Flow Rate which is the overall design capacity of the sewage treatment plant of 3,410m^3/d. A one-day flow total, greater than this Peak Daily Flow Rate, will trigger additional sampling as per Condition 9.2 for

situations outside of Normal Operating Conditions. The maximum daily flow in 2025 was 1,935 m^3.

Notice of Modifications to Sewage Works

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

Appendix VI provides an update on the Notice of Modification for Fleming College's Centre for Advancement of Water and Wastewater Technologies (CAWT) pilot facility. This pilot facility will serve as an important expansion of the research and testing capabilities in the Province of Ontario.

This project experienced a number of delays since March 2020 due to the COVID-19 pandemic. The Limited Operational Flexibility (LOF) was successfully renewed in November 2024, with the next renewal scheduled for October 2026.

Conformance with Procedure F-5-1

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.

2025 efforts included collection system flushing/cleanings, manhole repairs and spot manhole inspections.

Changes or Updates to the Schedule for Completion of Construction

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.

Proposed works for the Minden STP include modifications to the existing sand filter effluent channel to install a UV disinfection system and a dechlorination system. This work was completed in August 2022. A copy of the Professional Engineer's statement of completion of works was included in the 2022 Annual Report.

Deviation from Monitoring Program

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

Summary of Influent and Effluent Monitoring and Recording Results

ECA No. 5475-BPYLDH Schedule D describes the requirement for sample collection at the following locations, frequencies and by means of the specified sample type and analyzed for each parameter listed and all results recorded:

Table 20: Influent Monitoring Program		
Parameter	Type of Sample	Minimum Sampling Frequency
BOD_5	24 hour composite	Monthly
Total Suspended Solids	24 hour composite	Monthly
Total Phosphorus	24 hour composite	Monthly
Total Kjeldahl Nitrogen	24 hour composite	Monthly

Table 21: Final Effluent – Monitoring Program		
Parameter	Type of Sample	Minimum Sampling Frequency
$CBOD_5$	24 hour composite	Weekly
Total Suspended Solids	24 hour composite	Weekly
Total Phosphorus	24 hour composite	Weekly
Total Ammonia Nitrogen	24 hour composite	Weekly
Total Kjeldahl Nitrogen	24 hour composite	Weekly
Nitrate as Nitrogen	24 hour composite	Weekly
Nitrite as Nitrogen	24 hour composite	Weekly
E. Coli	Grab	Weekly
Total Residual Chlorine	Grab/Analyzer	Weekly (prior to commissioning the proposed UV disinfection system) Daily (if chlorination or superchlorination is employed in the liquid train post to the commissioning of the proposed UV disinfection system)

Table 21: Final Effluent – Monitoring Program		
Parameter	Type of Sample	Minimum Sampling Frequency
Dissolved Oxygen (DO)***	Grab/Probe/Analyzer	Weekly (Daily if dechlorination is employed)
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.
***The Owner shall monitor and record DO in the Final Effluent as outlined in the table above for a period of not shorter than two (2) years as of January 1, 2021. The Owner shall, within three (3) months after the 2-year term, submit to the District Manager a set of raw data of DO monitoring results as well as the review of the DO variation in relation to the plant disinfection practice for this 2-year term (I.e. routine UV disinfection vs. occasional chlorination and dechlorination during filter bypass events as well as in the sand filter superchlorination events). The monitoring frequencies with respect to DO may be modified at the discretion of the District Manager in Writing, upon conclusion of his / her review of the required submission.

Dissolved Oxygen (DO) was monitored as required in the Final Effluent as outlined in the monitoring program for two years (January 2021-January 2023) in ECA 5475-BPYLDH. The DO monitoring results over the two year period were submitted in the required timeframe to the District Manager. The monitoring frequency proposed in the letter to the District Manager was to remain the same as outlined in Schedule D-Final Effluent in the ECA for continued data collection while the UVs are providing disinfection. These results were included in the 2022 Annual Wastewater Performance Report.

The following tables provide a summary of the number of samples collected each month for those parameters required for analysis.

Influent Sample Collection Summary

Table 22: Minden STP - Number of Influent Parameters Tested in 2025												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
BOD5	1	1	1	1	1	1	1	1	1	1	1	1
TSS	1	1	1	1	1	1	1	1	1	1	1	1
Total P	1	1	1	1	1	1	1	1	1	1	1	1
TKN	1	1	1	1	1	1	1	1	1	1	1	1

Final Effluent Sample Collection Summary

Table 23: Minden STP - Number of Final Effluent Parameters Tested in 2025												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
CBOD5	7	4	4	16	25	5	5	4	4	5	4	5
TSS	7	4	4	16	25	5	5	4	4	5	4	5
Total P	7	4	4	16	25	5	5	4	4	5	4	5
Total Ammonia Nitrogen	7	4	4	16	25	5	5	4	4	5	4	5
TKN	5	4	4	4	5	4	5	4	4	5	4	5
Nitrite as N	5	4	4	4	5	4	5	4	4	5	4	5
Nitrate as N	5	4	4	4	5	4	5	4	4	5	4	5
E. Coli	5	4	5	4	5	4	5	4	4	5	4	5
Total Chlorine Residual	2	0	13	25	0	0	0	0	0	0	0	0
pH	21	18	20	26	18	20	20	13	17	18	15	18
Temp ^{O}C	21	18	19	26	18	20	20	13	17	18	15	18
DO	21	18	20	26	16	20	20	12	16	18	15	17
Unionized Ammonia	5	4	4	4	5	4	5	4	4	5	4	5

The required number of influent and final effluent samples were collected at the specified locations and frequencies during the reporting period as per ECA No. 5475-BPYLDH Schedule D. The following samples were deviations from the 2025 sampling schedule:

- Monthly raw influent sample scheduled for May 1 collected May 2 due to composite sampler failure.

During sand filter bypass events, additional sampling was completed as required.

Summary of Sludge/Biosolids and Recording Results

Table 24: Sludge Solids – holding tank/truck loading bay - Monitoring Program		
Parameter	Type of Sample	Minimum Sampling Frequency
Total Solids	Grab	Quarterly
Total Phosphorus	Grab	Quarterly
Total Ammonia Nitrogen	Grab	Quarterly
Nitrate as Nitrogen	Grab	Quarterly
Potassium	Grab	Quarterly

Table 24: Sludge Solids – holding tank/truck loading bay - Monitoring Program		
Parameter	Type of Sample	Minimum Sampling Frequency
Metal Scan - Arsenic - Cadmium - Cobalt - Chromium - Copper - Lead - Mercury - Molybdenum - Nickel - Potassium - Selenium - Zinc	Grab	Quarterly

Table 25: Minden STP - Number of Sludge/Biosolids Parameters Tested in 2025												
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**
Total Solids	2	1	1	2	1	1	3	2	2	3	1	3
TP	2	1	1	2	1	1	3	2	2	3	1	3
TAN	2	1	1	2	1	1	3	2	2	3	1	3
Nitrate as Nitrogen	2	1	1	2	1	1	3	2	2	3	1	3
Arsenic	2	1	1	2	1	1	3	2	2	3	1	3
Cadmium	2	1	1	2	1	1	3	2	2	3	1	3
Cobalt	2	1	1	2	1	1	3	2	2	3	1	3
Chromium	2	1	1	2	1	1	3	2	2	3	1	3
Copper	2	1	1	2	1	1	3	2	2	3	1	3
Lead	2	1	1	2	1	1	3	2	2	3	1	3
Mercury	2	1	1	2	1	1	3	2	2	3	1	3
Molydenum	2	1	1	2	1	1	3	2	2	3	1	3
Nickel	2	1	1	2	1	1	3	2	2	3	1	3
Potassium	2	1	1	2	1	1	3	2	2	3	1	3
Selenium	2	1	1	2	1	1	3	2	2	3	1	3
Zinc	2	1	1	2	1	1	3	2	2	3	1	3

Sludge/biosolids samples are collected typically once per month when sludge/biosolids are hauled from the facility. This meets the required minimum number of samples at the specified location and frequency during the reporting period as required by the ECA. 2025 Sludge/Biosolids results are provided in **Appendix IV**.

For the 2026 sample schedule refer to **Appendix VII**.

4.6 (a) a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.

The Minden Hills Sewage Collection System consists of works for the collection and transmission of sewage, consisting of trunk sewers, normally separate sewers, 2 sewage pumping stations, and a forcemain, with discharge into the Minden Sewage Treatment Plant.

Raw Sewage flow data from sewage received from the Pumping Stations is captured in **Appendix I** and section a of this report along with an interpretation of the data and any conclusions drawn from the data evaluation.

4.6 (b) a summary of any operating problems encountered and corrective actions taken.

There were no operating problems encountered in the Minden Hills Sewage Collection System in 2025.4.6 (c) a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.

A regular scheduled calibration and maintenance program has been kept up to date as scheduled on a daily, weekly, semi-annual and annual basis. All equipment calibration & maintenance scheduling and standard procedures are provided by Maximo Computerized Maintenance System.

Attached is **Appendix II**: Maintenance Summary, a Work Order Summary report, showing all preventive and corrective maintenance activities performed at the Minden Hills Sewage Treatment Plant, including the collection system, during 2025.

Attached is **Appendix III**: Calibration Report, flow meters are calibrated annually.

4.6 (d) a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.

Complaints related to the Minden Hills Sewage Collection System and steps taken to address the complaints from 2025 are included in Table 18: Summary of Community Complaints.

4.6 (e) a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.

There were no Alterations made to the Minden Hills Sewage Collection System in 2025.

4.6 (f) a summary of all Collection System Overflow(s) and Spill(s) of Sewage,

including:

i) Dates;
ii) Volumes and durations;
iii) If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli;
iv) Disinfection, if any; and
v) Any adverse impact(s) and any corrective actions, if applicable.

The Minden Hills Collection system did not experience any collection system Overflows or Spills in 2025.

4.6 (g) a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:

i) A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted.

Refer to section l above for proposed projects. Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines. During 2025, a Sanitary Servicing Study was completed.

The Minden Hills Sewage Collection system does not contain combined sewers and therefore is not required to complete a Pollution Prevention and Control Plan (PPCP).

ii) An assessment of the effectiveness of each action taken.

None to report at this time.

iii) An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives.

Not applicable

iv) Public reporting approach including proactive efforts.

The Township of Minden Hills utilizes their website to post Media Releases. Residents have the ability to subscribe to receive Media Releases from the Township of Minden Hills to an email address

Appendix I

Performance Assessment Report
TRC Results Comparison to Limit and Objective
Field pH Results Comparison to Limits and Objectives Un-ionized Ammonia Results

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Performance Assessment Report Standard ECA

From 1/1/2025 to 12/31/2025

5839 MINDEN WASTEWATER TREATMENT FACILITY 110002390

	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-->
Flows															
Raw Flow: Total - Raw m³/d	23,745.00	15,177.00	31,653.00	41,290.00	31,014.00	23,871.00	20,263.00	18,811.00	17,466.00	15,040.00	15,389.00	16,247.00	269,966.00		
Raw Flow: Avg - Raw m³/d	765.97	542.04	1,021.06	1,376.33	1,000.45	795.70	653.65	606.81	582.20	485.16	512.97	524.10		739.63	
Raw Flow: Max - Raw m³/d	1,211.00	604.00	1,827.00	1,935.00	1,412.00	1,027.00	804.00	651.00	655.00	557.00	573.00	684.00			1,935.00
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		
Eff. Flow: Total - Eff m³/d	23,745.00	15,177.00	31,653.00	41,290.00	31,014.00	23,871.00	20,263.00	18,811.00	17,466.00	15,040.00	15,389.00	16,247.00	269,966.00		
Eff. Flow: Avg - Eff m³/d	765.97	542.04	1,021.06	1,376.33	1,000.45	795.70	653.65	606.81	582.20	485.16	512.97	524.10		739.63	
Eff. Flow: Max - Eff m³/d	1,211.00	604.00	1,827.00	1,935.00	1,412.00	1,027.00	804.00	651.00	655.00	557.00	573.00	684.00			1,935.00
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		
Biochemical Oxygen Demand: BOD5															
Raw: Avg BOD5 - Raw mg/L	134.00	236.00	145.00	146.00	133.00	182.00	314.00	162.00	191.00	328.00	251.00	185.00		200.58	328.00
Raw: # of samples of BOD5 - Raw mg/L	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		
Carbonaceous Biochemical Oxygen Demand: CBOD															
Eff: Avg cBOD5 - Final Effluent including Bypass mg/L	< 4.00	< 4.00	< 4.00	< 4.20	< 4.00	< 4.00	< 4.00	< 3.50	< 4.00	< 4.00	< 4.00	< 4.00		< 4.03	< 4.20
Eff.Flow : Weighted Avg cBOD5 - Final Effluent including Bypass mg/L	< 4.00	< 4.00	< 4.00	0.00	< 4.00	< 4.00	< 4.00	< 3.50	< 4.00	< 4.00	< 4.00	< 4.00		< 0.00	<
Eff: # of samples of cBOD5 - Final Effluent including Bypass mg/L	7.00	4.00	16.00	25.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	88.00		
Loading: cBOD5 - Final Effluent including Bypass kg/d	< 3.064	< 2.168	< 4.084	< 5.781	< 4.002	< 3.183	< 2.615	< 2.124	< 2.329	< 1.941	< 2.052	< 2.096		< 2.98	< 5.78
Loading Flow Weighted: cBOD5 - Final Effluent including Bypass kg/d	< 3.064	< 2.168	< 4.084	0.000	< 4.002	< 3.183	< 2.615	< 2.124	< 2.329	< 1.941	< 2.052	< 2.096		< 0.00	< 4.08
Total Suspended Solids: TSS															
Raw: Avg TSS - Raw mg/L	288.00	300.00	303.00	196.00	315.00	294.00	343.00	115.00	336.00	637.00	448.00	51.00		302.17	637.00
Raw: # of samples of TSS - Raw mg/L	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		
Eff: Avg TSS - Final Effluent including Bypass mg/L	< 2.29	< 2.25	< 4.63	4.68	< 2.80	< 2.00	< 2.00	< 2.00	< 2.00	< 2.60	< 2.00	< 2.00		< 3.35	< 4.68
Eff.Flow : Weighted Avg TSS - Final Effluent including Bypass mg/L	2.20	2.25	3.50	0.00	2.80	2.00	2.00	2.00	2.00	2.60	2.00	2.00		0.00	3.50
Eff: # of samples of TSS - Final Effluent including Bypass mg/L	7.00	4.00	16.00	25.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	88.00		
Loading: TSS - Final Effluent including Bypass kg/d	< 1.751	< 1.220	< 4.722	6.441	< 2.801	< 1.591	< 1.307	< 1.214	< 1.164	< 1.261	< 1.026	< 1.048		< 2.48	< 6.44
Loading Flow Weighted: TSS - Final Effluent including Bypass kg/d	1.685	1.220	3.574	0.000	2.801	1.591	1.307	1.214	1.164	1.261	1.026	1.048		0.00	3.57
Total Phosphorus: TP															
Raw: Avg TP - Raw mg/L	2.62	6.50	3.56	1.46	2.15	2.86	3.72	4.40	2.91	8.40	6.40	3.72		4.06	8.40
Raw: # of samples of TP - Raw mg/L	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		
Eff: Avg TP - Final Effluent including Bypass mg/L	0.05	0.08	0.11	< 0.09	0.07	0.13	0.19	0.20	0.14	0.10	0.07	0.07		0.10	0.20
Eff.Flow : Weighted Avg TP - Final Effluent including Bypass mg/L	0.05	0.08	0.07	0.00	0.07	0.13	0.19	0.20	0.14	0.10	0.07	0.07		0.00	0.20
Eff: # of samples of TP - Final Effluent including Bypass mg/L	7.00	4.00	16.00	25.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	88.00		
Loading: TP - Final Effluent including Bypass kg/d	0.038	0.043	0.110	< 0.124	0.072	0.105	0.123	0.118	0.079	0.048	0.033	0.036		0.08	0.12
Loading Flow Weighted: TP - Final Effluent including Bypass kg/d	0.037	0.043	0.071	0.000	0.072	0.105	0.123	0.118	0.079	0.048	0.033	0.036		0.00	0.12
Nitrogen Series															
Raw: Avg TKN - Raw mg/L	20.30	50.00	28.20	11.50	18.60	20.90	31.00	42.60	21.80	59.00	55.00	35.20		32.84	59.00
Raw: # of samples of TKN - Raw mg/L	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		
Eff: Avg TAN - Final Effluent including Bypass mg/L	< 0.10	< 0.10	< 0.19	< 0.11	< 0.24	0.15	0.14	< 0.13	< 0.10	< 0.12	< 0.10	< 0.10		< 0.13	< 0.24
Eff.Flow : Weighted Avg TAN - Final Effluent including Bypass mg/L	< 0.10	< 0.10	< 0.15	< 0.10	< 0.24	< 0.15	< 0.14	< 0.13	< 0.10	< 0.12	< 0.10	< 0.10		< 0.00	< 0.24
Eff: # of samples of TAN - Final Effluent including Bypass mg/L	7.00	4.00	16.00	25.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	88.00		
Loading: TAN - Final Effluent including Bypass kg/d	< 0.077	< 0.054	< 0.191	< 0.149	< 0.240	0.119	0.092	< 0.076	< 0.058	< 0.058	< 0.051	< 0.052		< 0.10	< 0.24
Loading Flow Weighted: TAN - Final Effluent including Bypass kg/d	< 0.077	< 0.054	< 0.153	< 0.138	< 0.240	< 0.119	< 0.092	< 0.076	< 0.058	< 0.058	< 0.051	< 0.052		< 0.00	< 0.24

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Performance Assessment Report Standard ECA

From 1/1/2025 to 12/31/2025

5839 MINDEN WASTEWATER TREATMENT FACILITY 110002390

	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-->
Eff: Avg NO3-N - Eff mg/L	16.42	22.40	14.38	8.66	13.28	15.20	15.90	14.95	18.08	21.84	22.78	22.80		17.30	22.80
Eff: # of samples of NO3-N - Eff mg/L	5.00	4.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00		
Eff: Avg NO2-N - Eff mg/L	< 0.03	< 0.03	< 0.10	< 0.12	0.43	0.67	0.81	1.06	1.20	0.46	< 0.06	< 0.03		< 0.41	< 1.20
Eff: # of samples of NO2-N - Eff mg/L	5.00	4.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00		
pH															
Eff: Min pH - Eff ---	6.89	6.05	6.33	7.05	6.82	6.83	6.86	6.83	6.80	6.65	6.82	6.58			
Eff: Max pH - Eff ---	7.41	725.00	7.21	7.63	7.19	7.13	6.98	6.99	7.13	7.61	7.74	7.87			725.00
Eff: Min pH Field: Lab Upload - Eff ---	6.89	6.61	6.82	7.07	6.82	6.86	6.89	6.83	6.85	7.09	7.21	6.25			
Eff: Max pH Field: Lab Upload - Eff ---	7.23	7.37	7.21	7.22	7.15	7.03	6.98	6.94	7.13	7.61	7.74	7.31			7.74
Disinfection															
Eff: GMD E. Coli MPN - Eff MPN	1.00	1.00	107.22	1,505.00	1.15	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Eff: # of samples of E. Coli MPN - Eff	5.00	4.00	5.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	54.00		

Minden STP Total Chlorine Residual Results for 2025 Comparison to Limit and Objective

Date (mm/dd/yy)	Total Cl Residual mg/L	Limit 0.02 mg/L Compliant Y/N	Objective- Not Detected Met Y/N
01/01/25	0.01	Y	N
01/02/25	0.01	Y	N
03/17/25	0.00	Y	Y
03/18/25	0.00	Y	Y
03/19/25	0.01	Y	N
03/20/25	0.00	Y	Y
03/21/25	0.00	Y	Y
03/22/25	0.01	Y	N
03/23/25	0.00	Y	Y
03/24/25	0.00	Y	Y
03/25/25	0.00	Y	Y
03/26/25	0.00	Y	Y
03/27/25	0.01	Y	N
03/28/25	0.01	Y	N
03/29/25	0.00	Y	Y
03/30/25	0.01	Y	N
03/31/25	0.01	Y	N
04/01/25	0.01	Y	N
04/02/25	0.00	Y	Y
04/03/25	0.00	Y	Y
04/04/25	0.00	Y	Y
04/05/25	0.01	Y	N
04/06/25	0.00	Y	Y
04/07/25	0.01	Y	N
04/08/25	0.00	Y	Y
04/09/25	0.00	Y	Y
04/10/25	0.00	Y	Y
04/11/25	0.00	Y	Y
04/12/25	0.00	Y	Y
04/13/25	0.01	Y	N
04/14/25	0.01	Y	N
04/15/25	0.00	Y	Y
04/16/25	0.00	Y	Y
04/17/25	0.00	Y	Y
04/18/25	0.00	Y	Y
04/19/25	0.00	Y	Y
04/20/25	0.00	Y	Y
04/21/25	0.00	Y	Y
04/22/25	0.00	Y	Y
04/23/25	0.00	Y	Y
04/24/25	0.00	Y	Y

Minden STP 2025 Final Effluent Un-Ionized Ammonia Results

Date (mm/dd/yy)	Total Ammonia Nitrogen (mg/L)	Field pH	Field Temp (ºC)	Un-ionized Ammonia (mg/L)
01/03/25	<0.1	7.23	11.5	<0.001
01/09/25	<0.1	7.20	9.1	<0.001
01/16/25	<0.1	7.16	10	<0.001
01/23/25	<0.1	7.10	9.7	<0.001
01/30/25	<0.1	6.89	8.9	<0.001
02/06/25	<0.1	7.11	9.2	<0.001
02/13/25	<0.1	7.37	8.4	<0.001
02/20/25	0.1	6.92	8.9	<0.001
02/27/25	<0.1	6.61	11.2	<0.001
03/06/25	0.1	7.15	10.4	<0.001
03/13/25	<0.1	6.82	10.8	<0.001
03/20/25	<0.1	7.18	10.6	<0.001
03/27/25	0.3	7.21	10	<0.001
04/03/25	0.1	7.07	11.2	<0.001
04/10/25	0.1	7.21	8.6	<0.001
04/17/25	0.1	7.22	10.7	<0.001
04/24/25	<0.1	7.22	10.9	<0.001
05/01/25	0.6	6.96	11.4	0.001
05/08/25	0.2	7.15	12.2	<0.001
05/15/25	0.2	6.94	12.9	<0.001
05/22/25	0.1	6.82	12.4	<0.001
05/29/25	<0.1	7.02	13	<0.001
06/05/25	0.1	7.03	14.7	<0.001
06/12/25	0.1	6.97	14.7	<0.001
06/19/25	0.2	6.86	16.6	<0.001
06/26/25	0.2	6.90	17.1	<0.001
07/03/25	0.1	6.90	17.3	<0.001
07/10/25	0.1	6.98	17.7	<0.001
07/17/25	0.2	6.89	19.5	<0.001
07/24/25	0.1	6.89	17.9	<0.001
07/31/25	0.2	6.90	18.2	<0.001
08/07/25	0.1	6.94	18.1	<0.001
08/14/25	0.2	6.94	20	<0.001
08/21/25	<0.1	6.83	18.1	<0.001
08/28/25	0.1	6.88	3.22	<0.001
09/04/25	0.1	6.90	18.5	<0.001
09/11/25	<0.1	6.85	16.9	<0.001
09/18/25	<0.1	6.87	17.8	<0.001
09/25/25	0.1	7.13	18.5	<0.001
10/02/25	0.1	7.61	15.3	<0.001
10/09/25	0.2	7.09	14.9	<0.001

Minden STP 2025 Final Effluent Un-Ionized Ammonia Results

Date (mm/dd/yy)	Total Ammonia Nitrogen (mg/L)	Field pH	Field Temp (ºC)	Un-ionized Ammonia (mg/L)
10/16/25	<0.1	7.52	16.6	<0.001
10/23/25	0.1	7.42	16.2	<0.001
10/30/25	<0.1	7.23	15.1	<0.001
11/06/25	<0.1	7.60	14.6	<0.001
11/13/25	<0.1	7.23	12.7	<0.001
11/20/25	0.1	7.21	12.6	<0.001
11/27/25	0.1	7.74	13.2	0.001
12/04/25	0.1	6.25	11.3	<0.001
12/11/25	<0.1	7.31	10.7	<0.001
12/18/25	<0.1	7.19	11.5	<0.001
12/23/25	<0.1	7.09	11.4	<0.001
12/30/25	<0.1	7.15	9.6	<0.001

Minden STP 2025 Final Effluent Field pH Results

Date (mm/dd/yy)	pH	Date (mm/dd/yy)	pH	Date (mm/dd/yy)	pH	Date (mm/dd/yy)	pH	Date (mm/dd/yy)	pH	Date (mm/dd/yy)	pH
01/01/25	7.11	03/13/25	6.82	05/06/25	7.15	07/15/25	6.93	10/07/25	7.06	12/24/25	6.99
01/02/25	7.41	03/14/25	6.85	05/08/25	7.15	07/17/25	6.89	10/09/25	7.09	12/29/25	7.01
01/03/25	7.23	03/17/25	7.05	05/12/25	7.08	07/18/25	6.92	10/10/25	7.03	12/30/25	7.15
01/06/25	7.29	03/18/25	7.14	05/13/25	7.07	07/21/25	6.94	10/14/25	7.05	12/31/25	7.22
01/07/25	7.11	03/19/25	7.04	05/14/25	7.04	07/22/25	6.94	10/15/25	7.35		
01/08/25	7.23	03/20/25	7.18	05/15/25	6.94	07/23/25	6.90	10/16/25	7.52		
01/09/25	7.20	03/21/25	7.10	05/20/25	6.99	07/24/25	6.89	10/20/25	6.91		
01/10/25	7.19	03/22/25	7.06	05/21/25	6.98	07/28/25	6.93	10/21/25	6.65		
01/13/25	7.24	03/23/25	7.19	05/22/25	6.82	07/29/25	6.91	10/22/25	6.93		
01/14/25	7.25	03/24/25	7.20	05/23/25	6.99	07/30/25	6.86	10/23/25	7.42		
01/15/25	7.27	03/25/25	7.16	05/26/25	7.10	07/31/25	6.90	10/27/25	7.53		
01/16/25	7.16	03/26/25	7.17	05/27/25	7.07	08/05/25	6.94	10/28/25	7.31		
01/17/25	7.11	03/27/25	7.21	05/28/25	7.06	08/06/25	6.97	10/29/25	7.23		
01/20/25	7.18	03/28/25	7.09	05/29/25	7.02	08/08/25	6.91	10/30/25	7.23		
01/21/25	7.03	03/31/25	7.12	05/30/25	7.00	08/11/25	6.92	10/31/25	7.35		
01/22/25	7.23	04/01/25	7.40	06/02/25	7.13	08/13/25	6.99	11/03/25	7.05		
01/23/25	7.10	04/02/25	7.22	06/03/25	6.88	08/18/25	6.88	11/04/25	7.66		
01/27/25	7.14	04/03/25	7.07	06/04/25	6.99	08/19/25	6.93	11/06/25	7.60		
01/28/25	7.15	04/04/25	7.07	06/05/25	7.03	08/20/25	6.88	11/07/25	6.88		
01/30/25	6.89	04/05/25	7.05	06/06/25	6.93	08/21/25	6.83	11/10/25	6.98		
01/31/25	7.08	04/06/25	7.09	06/09/25	6.92	08/22/25	6.86	11/12/25	6.82		
02/03/25	7.25	04/07/25	7.10	06/10/25	6.92	08/25/25	6.93	11/13/25	7.23		
02/04/25	7.12	04/08/25	7.13	06/11/25	6.99	08/28/25	6.88	11/14/25	6.90		
02/05/25	7.11	04/09/25	7.12	06/12/25	6.97	08/29/25	6.88	11/17/25	7.33		
02/06/25	7.11	04/10/25	7.21	06/16/25	6.92	09/02/25	6.80	11/18/25	7.06		
02/07/25	6.81	04/11/25	7.19	06/17/25	6.87	09/03/25	6.89	11/19/25	6.92		
02/10/25	6.99	04/12/25	7.21	06/18/25	6.93	09/04/25	6.90	11/20/25	7.21		
02/11/25	7.00	04/13/25	7.27	06/19/25	6.86	09/05/25	6.83	11/24/25	6.91		
02/12/25	6.97	04/14/25	7.41	06/20/25	6.88	09/08/25	6.92	11/26/25	7.01		
02/13/25	7.37	04/15/25	7.25	06/23/25	6.88	09/10/25	6.90	11/27/25	7.74		
02/14/25	6.06	04/16/25	7.21	06/24/25	6.83	09/11/25	6.85	12/01/25	7.24		
02/18/25	6.33	04/17/25	7.22	06/25/25	6.88	09/12/25	6.86	12/02/25	7.39		
02/20/25	6.92	04/18/25	7.14	06/26/25	6.90	09/15/25	6.94	12/03/25	6.70		
02/21/25	6.05	04/19/25	7.05	06/27/25	6.84	09/16/25	6.91	12/08/25	7.87		
02/24/25	6.52	04/20/25	7.17	06/30/25	6.91	09/18/25	6.87	12/09/25	6.94		
02/25/25	6.41	04/21/25	7.63	07/02/25	6.88	09/19/25	6.93	12/10/25	6.60		
02/26/25	6.92	04/22/25	7.23	07/03/25	6.90	09/22/25	6.99	12/11/25	7.31		
02/27/25	6.61	04/23/25	7.18	07/04/25	6.92	09/23/25	6.92	12/12/25	7.02		
02/28/25	6.74	04/24/25	7.22	07/07/25	6.89	09/24/25	6.95	12/15/25	7.20		
03/03/25	6.33	04/25/25	7.22	07/08/25	6.95	09/25/25	7.13	12/17/25	7.80		
03/05/25	7.02	04/28/25	7.08	07/09/25	6.91	09/29/25	7.08	12/18/25	7.19		
03/06/25	7.15	05/01/25	6.96	07/10/25	6.98	10/02/25	7.61	12/19/25	6.58		
03/07/25	7.13	05/02/25	7.19	07/11/25	6.92	10/03/25	7.01	12/22/25	7.00		
03/10/25	6.82	05/05/25	7.10	07/14/25	6.94	10/06/25	7.20	12/23/25	7.09		

Appendix II

Work Order and Maintenance Summary

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
3526365	DEFERRED, 5839, Minden Wastewater Collection, Sanitary Servicing Study	5839-WCMD		APPR	CAP	REFURBISH/REPLACE	1/1/25 12:00 AM
4284953	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	1/1/25 1:10 AM
4284962	Daily Operational Activities (1y) - 5839 - KTN	5839-WWMD		COMP	PM	INSPECTION	1/1/25 1:10 AM
4284967	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	1/1/25 1:10 AM
4284974	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	1/1/25 1:10 AM
4289098	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	1/1/25 2:13 AM
4298241	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	1/1/25 4:29 AM
4301143	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	1/1/25 7:20 AM
4306071	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	1/1/25 8:58 AM
4306937	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	1/1/25 9:12 AM
4307410	HS03 H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	1/1/25 9:19 AM
4307691	Collection Daily Operational Activities (1y) - 5839 - KTN	5839-WCMD		COMP	PM	INSPECTION	1/1/25 9:23 AM
4318160	ESA Inspection By Contractor (1y) # 1 Visits - 5839- KTN	5839-WWMD-F		CLOSE	PM	CALIBRATION	1/1/25 12:04 PM
4324905	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	1/1/25 1:41 PM
4336417	5839, Minden WWT, Chemical Room Heater Replacement	5839-WWMD-F-HV-HTRS	0000208185	CLOSE	CAP	REFURBISH/REPLACE	1/17/25 9:23 AM
4337938	5839, Minden Wastewater Collection, Assessment of Wet Weather Flows	5839-WCMD		CLOSE	CAP	COMPLIANCE	1/24/25 10:07 AM
4337939	5839, Minden Wastewater Collection, Prepare O&M Manual for Sewage Collection System	5839-WCMD		CLOSE	CAP	COMPLIANCE	1/24/25 10:16 AM
4338552	5839, Minden WWT, Heater Motor Replacement	5839-WWMD-F-HV-HTRS	0000208185	CLOSE	CORR	REFURBISH/REPLACE	1/27/25 1:07 PM
4338741	Review & Update Infrastructure Map (1y) - 5839 - KTN	5839-WCMD		COMP	PM	COMPLIANCE	1/28/25 9:53 AM
4338743	Alterations to the Collection System (1y) - 5839 - KTN	5839-WCMD		COMP	PM	COMPLIANCE	1/28/25 9:53 AM
4338745	Review & Update Authorizations of Future Alterations to Collection System (1y) - 5839 - KTN	5839-WCMD		COMP	PM	COMPLIANCE	1/28/25 9:53 AM
4338747	WMS Maintenance Schedule Review (1y) - 5839 - KTN	5839-WCMD		CLOSE	PM	COMPLIANCE	1/28/25 9:54 AM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4338749	Annual O&M Manual Review (1y) - 5839 - KTN	5839-WCMD		COMP	PM	COMPLIANCE	1/28/25 9:54 AM
4338751	Annual ECA Performance Reporting (1y) - 5839 - KTN	5839-WCMD		COMP	PM	COMPLIANCE	1/28/25 9:54 AM
4338753	Significant Drinking Water Threat Assessment Report Review (1y) - 5839 - KTN	5839-WCMD		COMP	PM	COMPLIANCE	1/28/25 9:54 AM
4341721	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	2/1/25 12:58 AM
4341723	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	2/1/25 12:58 AM
4341730	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	2/1/25 12:58 AM
4344770	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	2/1/25 1:50 AM
4351850	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	2/1/25 3:46 AM
4353444	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	2/1/25 4:14 AM
4357734	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	2/1/25 8:24 AM
4358255	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	2/1/25 8:35 AM
4358632	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	2/1/25 8:43 AM
4371461	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	2/1/25 11:57 AM
4382711	5839, SPS 1, Replacement Starter for Generator	5839-SPS1-F-PG-PERM	0000327389	CLOSE	CAP	REFURBISH/REPLACE	2/28/25 2:06 PM
4385095	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	3/1/25 12:48 AM
4385097	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	3/1/25 12:48 AM
4385104	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	3/1/25 12:49 AM
4388652	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	3/1/25 1:43 AM
4396185	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	3/1/25 3:31 AM
4397844	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	3/1/25 3:54 AM
4402344	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	3/1/25 5:39 AM
4402722	Portable Gas Detector Inspection/Calibration (3m) - 5839 Minden WWT - KTN	5839-WWMD-F-SY	0000305986	CLOSE	PM	INSPECTION	3/1/25 5:46 AM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4402844	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	3/1/25 5:48 AM
4403203	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	3/1/25 5:53 AM
4416650	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	3/1/25 9:09 AM
4426763	5839, SPS 2, High Level, Pump 1 Fault	5839-SPS2		CLOSE	CORR	COMPLIANCE	3/17/25 9:11 AM
4428539	5839, Minden WWT, Sludge Pump Replacement	5839-WWMD-P	0000168342	CLOSE	CORR	REFURBISH/REPLACE	3/27/25 9:27 AM
4000502	DEFERRED, 5839, SPS 1, Float Mode Relay, Install	5839-SPS1-P		CLOSE	CORR	REFURBISH/REPLACE	4/1/25 12:00 AM
4431834	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	4/1/25 1:00 AM
4431836	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	4/1/25 1:00 AM
4431843	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	4/1/25 1:00 AM
4435547	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	4/1/25 1:55 AM
4444327	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	4/1/25 4:03 AM
4446305	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	4/1/25 4:36 AM
4451929	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	4/1/25 6:47 AM
4452544	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	4/1/25 6:56 AM
4452954	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	4/1/25 7:08 AM
4470475	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	4/1/25 12:02 PM
4486670	5839, Minden Wastewater Collection, Manhole Repairs	5839-WCMD		CLOSE	CAP	REFURBISH/REPLACE	4/10/25 9:28 AM
4492634	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	5/1/25 12:57 AM
4492636	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	5/1/25 12:57 AM
4492643	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	5/1/25 12:58 AM
4494096	Valve Backflow Preventer Testing/Inspection by Contractor (1y) - 5839 - KTN	5839-WWMD-P-PI		COMP	PM	REFURBISH/REPLACE	5/1/25 1:23 AM
4496321	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	5/1/25 2:09 AM
4501290	Lifting Devices & Fall Arrest Inspection by Contractor (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	5/1/25 3:42 AM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4505337	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	5/1/25 5:32 AM
4507002	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	5/1/25 6:31 AM
4507009	Blower Aeration #1 Inspection/Service (6m/1y/2y) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	REFURBISH/REPLACE	5/1/25 6:31 AM
4507019	Blower Aeration #2 Inspection/Service (6m/1y/2y) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	REFURBISH/REPLACE	5/1/25 6:31 AM
4511859	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	5/1/25 8:22 AM
4512441	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	5/1/25 8:33 AM
4512790	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	5/1/25 8:40 AM
4512967	Collection System Manhole Inspection (1y) - 5839 - KTN	5839-WCMD		CLOSE	PM	INSPECTION	5/1/25 8:43 AM
4512971	Collection System Sewer Flushing (1y) - 5839 - KTN	5839-WCMD		CLOSE	PM	REFURBISH/REPLACE	5/1/25 8:43 AM
4521339	Air Conditioning Unit Service by Contractor (1y) - 5839 - KTN	5839-WWMD-F-HV	0000347761	CLOSE	PM	REFURBISH/REPLACE	5/1/25 11:48 AM
4527341	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	5/1/25 1:37 PM
4553982	5839, SPS 2, Repair or Replace Pump 2	5839-SPS2-P	0000295929	APPR	CAP	REFURBISH/REPLACE	5/15/25 2:45 PM
4555873	5839, Minden WWT, Generator Not Starting, Repair	5839-WWMD-F-PG	0000192284	CLOSE	CORR	REFURBISH/REPLACE	5/26/25 9:30 AM
3780007	Blower Aeration #2 Inspection/Service (3y) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	REFURBISH/REPLACE	6/1/25 12:00 AM
3879741	DEFERRED Submersible Sewage Pump Inspection/Maintenance by OCWA (2y) - 5839 - KTN	5839-WWMD		CLOSE	PM	REFURBISH/REPLACE	6/1/25 12:00 AM
4310477	Outpost 5 Kawartha North Inspection (1y) - 123502 - KTN	123502		CLOSE	PM	INSPECTION	6/1/25 12:00 AM
4358116	Portable Gas Detector & Bump Station Calibration/Service (1y) - 5839 Minden WW - KTN	5839-WWMD		CLOSE	PM	CALIBRATION	6/1/25 12:00 AM
4455265	Tank Wetwell Cleaning/Inspection (6m) - 5839 SPS 1 - KTN	5839-SPS1-P	0000168308	CLOSE	PM	REFURBISH/REPLACE	6/1/25 12:00 AM
4455280	Tank Wetwell Cleaning/Inspection (6m) - 5839 SPS 2 - KTN	5839-SPS2-P	0000168316	CLOSE	PM	REFURBISH/REPLACE	6/1/25 12:00 AM
4559246	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	6/1/25 12:51 AM
4559248	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	6/1/25 12:51 AM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4559255	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	6/1/25 12:51 AM
4560749	Online Process Equipment Calibration Service by Contractor (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	CALIBRATION	6/1/25 1:12 AM
4563047	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	6/1/25 1:50 AM
4571752	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	6/1/25 4:15 AM
4573685	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	6/1/25 4:48 AM
4579582	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	6/1/25 7:19 AM
4580066	Portable Gas Detector Inspection/Calibration (3m) - 5839 Minden WWT - KTN	5839-WWMD-F-SY	0000305986	CLOSE	PM	INSPECTION	6/1/25 7:26 AM
4580238	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	6/1/25 7:29 AM
4580719	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	6/1/25 7:37 AM
4428540	5839, Minden WWT, Sludge Pump Replacement	5839-WWMD-P	0000168342	APPR	CORR	REFURBISH/REPLACE	6/1/25 9:32 AM
4595655	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	6/1/25 11:04 AM
4595885	FEP Binder Review/Update (1y) - 123502 - KTN	123502		CLOSE	PM	COMPLIANCE	6/1/25 11:07 AM
4428854	5839, Minden WWT, Clarifier Drive Current Switch	5839-WWMD-F-PD	0000306217	CLOSE	CORR	REFURBISH/REPLACE	6/1/25 2:19 PM
4605854	5839, SPS 2, Pump 1 Fault Repair/Replace	5839-SPS2-P	0000208215	CLOSE	CORR	REFURBISH/REPLACE	6/9/25 9:15 AM
4605991	5839, Minden WWT, Clarifier/Aeration Concrete Assessment	5839-WWMD-P-ST-AERA	0000168274	CLOSE	CAP	INSPECTION	6/10/25 9:09 AM
4607915	5839, Minden WWT, Replace Floats	5839-WWMD-P-TT-FILT	0000168283	CLOSE	CORR	REFURBISH/REPLACE	6/20/25 2:29 PM
4622636	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	7/1/25 12:59 PM
4622638	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	7/1/25 12:59 PM
4622645	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	7/1/25 1:00 PM
4624334	Contact Chamber Clean Out (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	REFURBISH/REPLACE	7/1/25 2:33 PM
4626132	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	7/1/25 4:53 PM
4633682	Gear Drive Service (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	REFURBISH/REPLACE	7/1/25 11:40 PM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4633729	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	7/1/25 11:41 PM
4633732	Grinder Comminutor Inspection (1y) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	REFURBISH/REPLACE	7/1/25 11:41 PM
4635657	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	7/2/25 1:33 AM
4640491	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	7/2/25 7:36 AM
4641191	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	7/2/25 8:35 AM
4641367	Fire Extinguisher Inspections by Contractor (1y) - 123502 - KTN	123502		CLOSE	PM	HEALTH AND SAFETY	7/2/25 8:38 AM
4641533	Drive VFD Inspection (1y) - 5839 Blower #1 - KTN	5839-WWMD-P-ST-AERA	0000306015	CLOSE	PM	REFURBISH/REPLACE	7/2/25 8:42 AM
4641543	Drive VFD Inspection (1y) - 5839 Blower #2 - KTN	5839-WWMD-P-ST-AERA	0000306162	CLOSE	PM	REFURBISH/REPLACE	7/2/25 8:42 AM
4641573	Pump Cent Inspection (1y) - 5839 Filter Backwash - KTN	5839-WWMD-P-TT-FILT		CLOSE	PM	INSPECTION	7/2/25 8:43 AM
4641580	Pump Cent Inspection (1y) - 5839 Filter Skimmer - KTN	5839-WWMD-P-TT-FILT		CLOSE	PM	INSPECTION	7/2/25 8:43 AM
4641587	Pump Cent Inspection (1y) - 5839 Effluent - KTN	5839-WWMD-P		CLOSE	PM	INSPECTION	7/2/25 8:43 AM
4641973	UPS Inspection/Service (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	7/2/25 9:00 AM
4642806	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	7/2/25 9:15 AM
4643459	Submersible Sewage Pump Inspection/Maintenance by Contractor (2y) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	7/2/25 9:41 AM
4654694	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	7/3/25 2:51 PM
4662422	5839, Minden WWT, Grit Channel Clarifier Cleaning	5839-WWMD		CLOSE	CAP	PREDICTIVE MAINTEN	7/16/25 11:16 AM
4665134	Engine Diesel Inspection/Service by Contractor (1y) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	REFURBISH/REPLACE	7/31/25 12:57 PM
4665140	Engine Diesel Inspection/Service by Contractor (1y) - 5839 Orde St SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	REFURBISH/REPLACE	7/31/25 12:57 PM
4667409	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	8/1/25 1:39 AM
4667411	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	8/1/25 1:39 AM
4667418	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	8/1/25 1:40 AM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4670716	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	8/1/25 3:43 AM
4678092	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	8/1/25 8:47 AM
4679774	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	8/1/25 9:55 AM
4684170	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	8/1/25 12:57 PM
4684652	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	8/1/25 1:15 PM
4685005	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	8/1/25 1:31 PM
4697192	Panel Control Pump Service (1y) - 5839 - KTN	5839-SPS1-F-PD		CLOSE	PM	REFURBISH/REPLACE	8/1/25 8:19 PM
4698670	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	8/1/25 8:59 PM
4701672	Overflow Inspection & Cleanout (1y) - 5839 SPS 1 - KTN	5839-WCMD		CLOSE	PM	REFURBISH/REPLACE	8/1/25 10:27 PM
4701678	Overflow Inspection & Cleanout (1y) - 5839 SPS 2 - KTN	5839-WCMD		CLOSE	PM	REFURBISH/REPLACE	8/1/25 10:27 PM
4710505	5839, Minden WWT, Replace Battery And Battery Charger On Generator	5839-WWMD-F-PG-BACK	0000192276	CLOSE	CAP	REFURBISH/REPLACE	8/20/25 2:52 PM
4710507	5839, SPS 1, Service Coolant Temp Sensor on Generator	5839-SPS1-F-PG-BACK	0000327388	CLOSE	CAP	REFURBISH/REPLACE	8/20/25 3:10 PM
4714219	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	9/1/25 1:39 AM
4714221	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	9/1/25 1:39 AM
4714228	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	9/1/25 1:39 AM
4715666	Heater Unit Insp. (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	REFURBISH/REPLACE	9/1/25 2:36 AM
4716113	HS09 Chemical Review (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	9/1/25 2:50 AM
4718188	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	9/1/25 4:02 AM
4726760	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	9/1/25 9:38 AM
4728414	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	9/1/25 10:40 AM
4733858	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	9/1/25 1:57 PM
4734340	Portable Gas Detector Inspection/Calibration (3m) - 5839 Minden WWT - KTN	5839-WWMD-F-SY	0000305986	CLOSE	PM	INSPECTION	9/1/25 2:14 PM
4734460	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	9/1/25 2:18 PM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4734922	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	9/1/25 2:34 PM
4750305	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	9/1/25 10:40 PM
4767475	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	10/1/25 1:31 AM
4767477	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	10/1/25 1:32 AM
4767484	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	10/1/25 1:32 AM
4771194	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	10/1/25 3:24 AM
4778981	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	10/1/25 7:58 AM
4780896	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	10/1/25 9:03 AM
4786402	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	10/1/25 12:05 PM
4787296	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	10/1/25 12:33 PM
4787742	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	10/1/25 12:49 PM
4790602	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	10/1/25 1:34 PM
4791015	Tank Wetwell Cleaning/Inspection (6m) - 5839 SPS 1 - KTN	5839-SPS1-P	0000168308	CLOSE	PM	REFURBISH/REPLACE	10/1/25 1:43 PM
4791034	Tank Wetwell Cleaning/Inspection (6m) - 5839 SPS 2 - KTN	5839-SPS2-P	0000168316	CLOSE	PM	REFURBISH/REPLACE	10/1/25 1:43 PM
4791727	UV Light Cleaning & Inspection (1y) - 5839 - KTN	5839-WWMD		CLOSE	PM	REFURBISH/REPLACE	10/1/25 1:52 PM
4792032	Tank Storage Diesel Fuel Inspection by Contractor (10y) - 5839 - KTN	5839-WWMD-F-PG	0000192284	APPR	PM	INSPECTION	10/1/25 1:56 PM
4822116	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4822118	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4822125	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4825306	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4832504	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4834174	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	11/1/25 1:00 AM

Minden STP 2025 Work Order Summary

Work Order	Description	Location	Asset	Status	Work Type	Classification	Reported Date
4834181	Blower Aeration #1 Inspection/Service (6m/1y/2y) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	REFURBISH/REPLACE	11/1/25 1:00 AM
4834198	Blower Aeration #2 Inspection/Service (6m/1y/2y) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	REFURBISH/REPLACE	11/1/25 1:00 AM
4837941	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4838867	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	11/1/25 1:00 AM
4839193	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	11/1/25 1:00 AM
4852556	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	11/1/25 1:00 AM
4867205	Building and Grounds Maintenance (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4867207	Alarm Dialer Testing (1m) - 5839 - KTN	5839-WWMD-F		CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4867214	Engine Diesel (1m) - 5839 Minden WWTP Portable - KTN	5839-WWMD-F-PG-BACK	0000192276	CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4870438	Engine Diesel (1m) - 5839 Orde SPS - KTN	5839-SPS1-F-PG-PERM	0000327388	CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4879860	Blower Aeration Route Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST-AERA		CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4884112	Tank Alum Inspection (1m) - 5839 - KTN	5839-WWMD-P-ST	0000168297	CLOSE	PM	REFURBISH/REPLACE	12/1/25 12:00 AM
4884445	H & S Equipment Check (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	HEALTH AND SAFETY	12/1/25 12:00 AM
4877981	Grinder Comminutor Inspection (1m) - 5839 - KTN	5839-WWMD-P	0000306019	CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4883999	Portable Gas Detector Inspection/Calibration (3m) - 5839 Minden WWT - KTN	5839-WWMD-F-SY	0000305986	COMP	PM	INSPECTION	12/1/25 12:00 AM
4883639	Chemical Feed System Insp (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4897699	UV Light Cleaning & Inspection (1m) - 5839 - KTN	5839-WWMD		CLOSE	PM	INSPECTION	12/1/25 12:00 AM
4907858	5839, Minden WWT, Composite Sampler Failed to Sample	5839-WWMD-P	0000291134	CLOSE	CORR	COMPLIANCE	12/8/25 1:14 PM
4908931	5839, Minden WWT, Replacement Alum Sump Pit Pump	5839-WWMD-P		CLIENT	CAP	REFURBISH/REPLACE	12/15/25 12:49 PM

Appendix III

Calibration Report

Franklin Empire Inc,
550 Braidwood Ave.
Peterborough ON K9J 1W1, CANADA

Tel: (705) 745-1626
Fax: (705) 745-3493

OCWA Kawartha

2025 Calibrations Minden WWTP

CALIBRATION REPORT

Report No.:	OCWAK25 FIT-Clarifier
Date:	6/19/25

SITE:	Minden Hills WWTP	**SERVICE DATE:**	6/19/25
PROCESS AREA:	Effluent Flow		
INSTR. TAG:	FIT-Clarifier	**TECHNICIAN:**	M Manley
MANUFACTURER:	Siemens		
MODEL:	Multiranger 200 HMI	**JOB REFERENCE:**	OCWAK25
SERIAL No.:			

Input	**(Test)**	**Output**	**(Display)**	**(Process)**
Type:	meters	**Type or EGU:**	m3/day	m3/hr
Min:	0.00	**Min:**	0.00	0.00
Max:	0.33	**Max:**	2000.00	83.30
V notch (Deg.)	30			
Constant	1344			

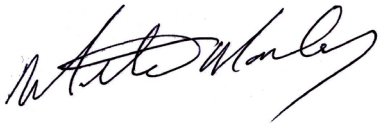
			Before Calibration		**After Calibration**	
Input (m)	**Calc. Flow m3/hr**	**Display Flow m3/d**	**Output**	**%Error**	**Output**	**%Error**
4mA	0.00	0.00				
0.2300	34.08	818.03	825	0.85%	825	0.85%
20mA		2000				

Calibration Equipment			
Type:	Tape Measure	DMM	
Manufacturer:		Fluke	
Model:		Model 87	
Serial No.:		13440128	
Last Cal. Date:		Feb. 11, 2025	

Comments: Actual process conditions were used. The weir plate is facing the wrong way (180 degrees on the Y-axis). The sharp edge of the plate should be upstream of the beveled edge. The small amout of error this introduces is not known.
Span unchanged, Empty distance is 746mm, measured 75cm

AS FOUND: PASS **AS LEFT:** PASS

CERTIFIED BY:



FRANKLIN EMPIRE

CALIBRATION REPORT

Report No.: OCWAK25 FIT-N

Date: 6/19/25

SITE:	Minden Hills WWTP	**SERVICE DATE:**	6/19/25
PROCESS AREA:	NORTH SUTRO WEIR - RAW FLOW		
INSTR. TAG:	FIT-N	**TECHNICIAN:**	M Manley
MANUFACTURER:	Milltronics multiranger 100		
MODEL:	MULTIRANGER 100	**JOB REFERENCE:**	OCWAK25
SERIAL No.:	PBD/L9260085 (METER)		
OCWA CODE:	0000204794 (METER) / 0000306117 (TRANSDUCER)		

Input	**(Test)**
Type:	Head meters
Min:	0.0000
Max:	0.1335
Weir Angle	180
exponent	1
constant	2000.0000

Output	**(Process)**	**(Signal)**
Type or EGU:	mA	m3/day
Min:	4.00	0.00
Max:	20.00	2000.00

			Before Calibration		**After Calibration**	
Input (m)	**Calc flow (m3/day)**	**mA**	**Flow**	**%Error**	**Flow**	**%Error**
almost zero flow			1		1	
Meas	Calc flow (m3/day)					
0.115	1722	17.78	1717	-0.31%	1717	-0.31%
20 mA	2000	20.00	2002	0.10%	2002	-0.05%

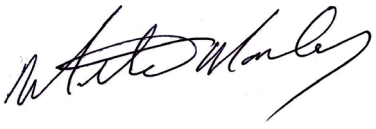
Calibration Equipment

Type:	Tape Measure	DMM	
Manufacturer:		Fluke	
Model:		Model 87	
Serial No.:		13440128	
Last Cal. Date:		Feb. 11, 2025	

Comments: Measured Target 0.557m unit read 0.554

AS FOUND: PASS **AS LEFT:** PASS

CERTIFIED BY:



FRANKLIN EMPIRE

CALIBRATION REPORT

Report No.: OCWAK25 FIT-S

Date: 6/19/25

SITE:	Minden Hills WWTP	**SERVICE DATE:**	6/19/25
PROCESS AREA:	SOUTH SUTRO WEIR RAW FLOW		
INSTR. TAG:	FIT-S	**TECHNICIAN:**	M Manley
MANUFACTURER:	Milltronics multiranger 200		
MODEL:	MULTIRANGER 200	**JOB REFERENCE:**	OCWAK25
SERIAL No.:	PBD/U4030303 (METER)		
OCWA CODE:	0000204794 (METER) / '0000192286 (TRANSDUCER)		

Input	**(Test)**
Type:	Head meters
Min:	0.0000
Max:	0.1335
Weir Angle	180
exponent	1
constant	2000.0000

Output	**(Process)**	**(Signal)**
Type or EGU:	mA	m3/day
Min:	0.00	0.00
Max:	2000.00	2000.00

			Before Calibration		**After Calibration**	
Input (m)	**Calc flow (m3/day)**	**Calc. O/P (mA)**	**Flow**	**%Error**	**Flow**	**%Error**
0.000	0.000	4.00	1		1	
Meas	Calc flow (m3/day)					
0.125	1872	18.98	1890	0.96%	1890	0.96%
20 mA	2000.000	20.00	2002	0.10%	2002	-0.05%

Calibration Equipment

Type:	Tape Measure	DMM	
Manufacturer:		Fluke	
Model:		Model 87	
Serial No.:		13440128	
Last Cal. Date:		Feb. 11, 2025	

Comments: Measured target 55.8cm, unit meas 0.552m

AS FOUND: PASS **AS LEFT:** PASS

CERTIFIED BY:

CALIBRATION REPORT

Report No.: OCWAK25 QIR-1

Date: 6/19/25

SITE:	Minden WWTP
PROCESS AREA:	E&H Videograph
INSTR. TAG:	QIR-1
MANUFACTURER:	E&H Videograph
MODEL:	RSG40
SERIAL No.:	F4003A04267
OCWA CODE:	0000204816

SERVICE DATE:	6/19/25
TECHNICIAN:	M Manley
JOB REFERENCE:	OCWAK25

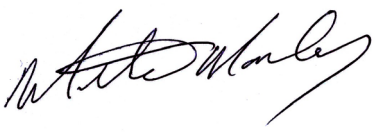
Input	**(Test)**		**Output**	**(Signal)**	**(Process)**
Type:	mA		**Type or EGU:**	mA	
Min:			**Min:**	4.00	
Max:			**Max:**	20.00	

			Before Calibration		**After Calibration**	
			Display		**Display**	
FIN OUT	m3/day	0	0		0	
	0-2000	2000	2000		2000	
North in	m3/day	0	1		1	
	0-2000	2000	2002		2002	
South in	m3/day	0	1		1	
	0-2000	2000	2002		2002	

Calibration Equipment			
Type:		DMM	
Manufacturer:		Fluke	
Model:		Model 87	
Serial No.:		13440128	
Last Cal. Date:		Feb. 11, 2025	

Comments:

AS FOUND: PASS **AS LEFT:** PASS

CERTIFIED BY: 

Appendix IV

Sludge/Biosolids Summary

Biosolids Quality Report

Facility: MINDEN WASTEWATER TREATMENT FACILITY

Solids & Nutrients

Period: 01/01/2025 to 12/31/2025

Works: 5839 / Digestor Type: Aerobic

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Solids & Nutrients | **Metals & Criteria**

Facility Works Number: 110002390

Facility Owner: Municipality: Township of Minden Hills

Facility Classification: Class 2 Wastewater Treatment

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

Month	Hauled Vol. (m^3)	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	130.88	33,800.00	1,027.00	211.50	3.00	3.00	1,810.00	107.25	138.50
Feb	78.18	40,700.00	1,100.00	315.00	3.00	3.00	2,160.00	159.00	146.00
Mar	63.62	41,800.00	1,070.00	342.00	3.00	3.00	2,500.00	172.50	145.00
Apr	87.30	20,400.00	320.50	150.00	3.00	3.00	1,212.00	76.50	67.50
May	170.62	22,000.00	456.00	148.00	3.00	3.00	1,200.00	75.50	76.00
Jun	90.90	36,400.00	888.00	356.00	3.00	3.00	2,250.00	179.50	113.00
Jul	232.80	30,800.00	706.33	216.00	3.00	3.00	1,610.00	109.50	85.67
Aug	116.40	18,100.00	444.00	68.75	3.00	3.00	872.00	35.88	55.50
Sep	116.40	23,300.00	673.00	129.00	3.00	3.00	1,225.00	66.00	78.00
Oct	174.60	23,833.33	648.00	128.00	3.00	3.00	1,326.67	65.50	76.67
Nov	58.20	26,200.00	680.00	91.20	3.00	3.00	1,310.00	47.10	72.00
Dec	139.05	26,433.33	691.33	117.43	3.00	3.00	1,702.33	60.22	89.67
Average	121.58	28,647.22	725.35	189.41	3.00	3.00	1,598.17	96.20	95.29
Total	1,458.95	343,766.67	8,704.17	2,272.88	36.00	36.00	19,178.00	1,154.44	1,143.50

Biosolids Quality Report

Facility: MINDEN WASTEWATER TREATMENT FACILITY

Metals & Criteria

Period: 01/01/2025 to 12/31/2025

Works: 5839 / Digestor Type: Aerobic

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Solids & Nutrients | **Metals & Criteria**

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	0.02	0.09	0.45	8.20	0.01	0.18	0.43	0.33	0.14	13.05
Feb	0.10	0.02	0.08	0.43	7.66	0.01	0.18	0.42	0.30	0.10	13.80
Mar	0.10	0.02	0.13	0.63	8.80	0.01	0.21	0.51	0.40	0.20	15.00
Apr	0.10	0.01	0.06	0.22	2.65	0.08	0.07	0.19	0.10	0.10	5.00
May	0.10	0.01	0.06	0.24	3.60	0.01	0.08	0.22	0.20	0.10	7.00
Jun	0.10	0.02	0.09	0.41	6.60	0.01	0.13	0.36	0.30	0.10	12.00
Jul	0.10	0.02	0.07	0.39	5.93	0.01	0.13	0.33	0.30	0.10	11.00
Aug	0.55	0.03	0.07	0.26	3.85	0.01	0.29	0.19	0.60	0.55	7.00
Sep	0.10	0.01	0.06	0.33	5.10	0.01	0.11	0.26	0.30	0.10	8.50
Oct	0.10	0.01	0.04	0.30	5.07	0.02	0.12	0.26	0.23	0.10	7.67
Nov	0.10	0.01	0.04	0.32	4.90	0.01	0.17	0.27	0.20	0.10	8.00
Dec	0.10	0.02	0.05	0.28	4.83	0.01	0.19	0.26	0.23	0.10	8.00
Average	0.14	0.02	0.07	0.35	5.60	0.02	0.15	0.31	0.29	0.15	9.67
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)	4.80	0.60	2.43	12.36	195.46	0.63	5.36	10.77	10.16	5.22	337.49

Appendix V

Bypass & Overflow Reports

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Box 279
Bobcaygeon, ON
K0M 1A0

February 13, 2025

David Bradley, District Manager
Peterborough District Office
Ministry of Environment, Conservation and Parks
300 Water Street South, 2nd Floor, South Tower
Peterborough ON K9J 3C7

Dear David Bradley:

Re: Minden STP Q4 2024 Bypass and Overflow Event Report

Amended Environmental Compliance Approval #5475-BPYLDH Conditions 4 and 5 issued October 2, 2020, for the Minden STP require Bypass and Overflow quarterly reports be submitted to the District Manager. These reports are to be submitted no later than February 15, May 15, August 15, and November 15 each year for Events that occurred during the preceding quarter.

No Overflow Events occurred at the Minden STP during the fourth quarter of 2024 – report is attached. One Bypass Event occurred of the Post- Secondary Sand Filters at the Minden STP during the fourth quarter of 2024. Details of this Event are attached.

Please contact me if you have any questions or comments.

Best regards,

Natalie Lamiot
Process & Compliance Technician
Ontario Clean Water Agency
Kawartha Hub
(705) 760-5968

Attachments

cc: J. Manning, Sr. Operations Manager, OCWA Kawartha-Trent Hub
C. Craig, Process & Compliance Technician, OCWA Kawartha-Trent Hub
M. Timmins, Director of Public Works, Township of Minden Hills
A. McCann, Safety, Process & Compliance Manager, OCWA Kawartha-Trent Hub
L. Nicholson, General Manager, OCWA Kawartha-Trent Hub
K. Lorente, Regional Manager, OCWA Kawartha-Trent Hub
C. Biswanger, Water Inspector, MECP – Peterborough District Office

Minden STP - Quarterly Bypass Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2024

Q4= October, November, December

Did a Bypass occur during this quarter:

Yes☑ No ☐

Condition 4. Bypasses		Event
4.3	a. the type of the Bypass (emergency or planned)	SAC #1-FC7824 - emergency post-secondary treatment sand filter bypass due to weather
	b. the date and time of the beginning of the Bypass	December 29, 2024 @ 18:25
	c. the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;	Primary, Secondary and Disinfection
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and the reason(s) why the Bypass was not avoided.	Monitored flows and processes - bypass due to heavy rain which caused the sand filters to become hydraulically overloaded.
4.4	a. the date and time of the end of the Bypass;	January 2, 2025 @ 11:00
	b. the estimated or measured volume of Bypass.	4,322 m^3
4.5	For any Bypass Event, the Owner shall collect daily sample(s) of the Final Effluent, inclusive of the Event and analyze for all effluent parameters outlined in Compliance Limits condition that require composite samples following the same protocol specified in the Monitoring and Recording condition for the regular samples. The sample(s) shall be in addition to the regular Final Effluent samples required under the monitoring and recording condition. If the Event occurs on a scheduled monitoring day, the regular sampling requirements prevail. If representative sample for the effluent parameter(s) that require grab sample cannot be obtained, they shall be collected after the Event at the earliest time when situation returns to normal.	Composite sample collected every 24 hours from December 29, 2024 to January 2, 2025. Operations Event Form Summary and lab reports attached.
4.6	. …The summary reports shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5) and either a statement of compliance or a summary of the non-compliance notifications submitted as required under Paragraph 1 of Condition 11. If there is no Bypass Event during a quarter, a statement of no occurrence of Bypass is deemed sufficient.	Compliant with ECA.

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Operations Event Form Summary

Project: Minden STP – Works # 110002390
Location: 73 Orde St., Minden, ON
Date: December 29, 2024- January 2, 2025

Nature of Event: Emergency Sand Filter Bypass

Details of Event: Heavy rain event and snow melt created high flows which caused the sand filters to become hydraulically overloaded - secondary treatment provided and disinfection; however, sand filters required bypassing. Receiving water is Gull River.

Call SAC: 1-800-268-6060

Time SAC notified: 19:18 December 29, 2024 **SAC Incident Number:** 1-FC7824

Name of Person at SAC: Dhara

District Health Unit Notified (time): 19:02 December 29, 2024 – left message

Name of Person at Health Unit: PHI, Ellen returned call December 29, 2024 @ 19:27. No further actions requested.

Other Contacts (Managers, Client, MECP, MOH): OCWA Sr. Operations Manager J. Manning, Owner-Township of Minden Hills notified, appropriate OCWA staff

Volume of Partial Sand Filter Bypass: Estimated volume based upon flow meter readings: ~4,322 m^3

Start: December 29, 2024 @ 18:25 **Finish:** January 2, 2025 @ 11:00 **Duration:** 88 hours 35 minutes

MOH contacted at end of event on January 2, 2025 @ 11:50 – left a message.

SAC contacted at end of event on January 2, 2025 @ 11:45.

Samples: Final Effluent – composite samples for: CBOD, TSS, Total Phos, NH3+NH4; grab samples for: Total Residual Chlorine, Dissolved Oxygen, pH & temperature

Corrective Action Taken:

- Flows & process monitored throughout the event

Prepared By: C. Craig & N. Lamiot

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

06-January-2025

OCWA-Kawartha (Minden WPCP)
Attn : Christine Craig

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 31 December 2024
LR Report: **CA15407-DEC24**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					30-Dec-24
Temperature Upon Receipt [°C]	---	---	---	---	10.0
Field pH [no unit]	---	---	---	---	6.87
Field Temperature [celcius]	---	---	---	---	11.1
Field Dissolved O2 [mg/L]					4.78
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	31-Dec-24	15:28	06-Jan-25	14:42	6
Total Suspended Solids [mg/L]	31-Dec-24	14:17	02-Jan-25	13:49	29
Phosphorus (total) [mg/L]	03-Jan-25	15:26	06-Jan-25	13:11	0.40
Ammonia+Ammonium (N) [as N mg/L]	03-Jan-25	19:47	06-Jan-25	10:34	1.0

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

OnLine LIMS

0003979055

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

08-January-2025

OCWA-Kawartha (Minden WPCP)
Attn : Christine Craig

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 03 January 2025
LR Report: **CA12039-JAN25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - comp
Sample Date & Time					31-Dec-24
Temperature Upon Receipt [°C]	---	---	---	---	8.0
Field pH [no unit]	---	---	---	---	7.17
Field Temperature [celcius]	---	---	---	---	12.1
Field Dissolved O2 [mg/L]					4.03
Total Chlorine [mg/L]	---	---	---	---	0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	03-Jan-25	15:29	08-Jan-25	11:43	< 4
Total Suspended Solids [mg/L]	03-Jan-25	14:03	06-Jan-25	09:39	4
Phosphorus (total) [mg/L]	06-Jan-25	15:39	07-Jan-25	11:54	0.10
Ammonia+Ammonium (N) [as N mg/L]	07-Jan-25	09:26	08-Jan-25	09:45	0.2

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

10003869001

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

08-January-2025

OCWA-Kawartha (Minden WPCP)
Attn : Christine Craig

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 03 January 2025
LR Report: **CA12034-JAN25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - comp
Sample Date & Time					01-Jan-25 18:30
Temperature Upon Receipt [°C]	---	---	---	---	8.0
Field pH [no unit]	---	---	---	---	7.11
Field Temperature [celcius]	---	---	---	---	11.6
Field Dissolved O2 [mg/L]	---	---	---	---	6.99
Total Chlorine [mg/L]	---	---	---	---	0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	03-Jan-25	15:29	08-Jan-25	11:43	< 4
Total Suspended Solids [mg/L]	03-Jan-25	14:03	06-Jan-25	09:39	3
Phosphorus (total) [mg/L]	06-Jan-25	15:39	07-Jan-25	11:53	0.06
Ammonia+Ammonium (N) [as N mg/L]	07-Jan-25	09:26	08-Jan-25	09:45	< 0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

00039808988

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

08-January-2025

OCWA-Kawartha (Minden WPCP)
Attn : Christine Craig

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 03 January 2025
LR Report: **CA12083-JAN25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - comp
Sample Date & Time					02-Jan-25 18:30
Temperature Upon Receipt [°C]	---	---	---	---	9.0
Field pH [no unit]	---	---	---	---	7.15
Field Temperature [celcius]	---	---	---	---	11.8
Field Dissolved O2 [mg/L]	---	---	---	---	6.56
Total Chlorine [mg/L]	---	---	---	---	0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	03-Jan-25	15:29	08-Jan-25	11:45	< 4
Total Suspended Solids [mg/L]	03-Jan-25	14:53	06-Jan-25	16:25	2
Phosphorus (total) [mg/L]	06-Jan-25	15:39	07-Jan-25	13:00	0.05
Ammonia+Ammonium (N) [as N mg/L]	07-Jan-25	09:26	08-Jan-25	10:08	< 0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0003981052

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

06-January-2025

OCWA-Kawartha (Minden WPCP)
Attn : Christine Craig

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 03 January 2025
LR Report: **CA12082-JAN25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Eff Eff-Final Effluent
Sample Date & Time					03-Jan-25 09:55
Temperature Upon Receipt [°C]	---	---	---	---	9.0
Field pH [no unit]	---	---	---	---	7.23
Field Temperature [celcius]	---	---	---	---	11.5
Ecoli [mpn/100mL]	03-Jan-25	15:47	06-Jan-25	10:27	0

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

OnLine LIMS

0003978670

Minden STP - Quarterly Overflow Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2024

Q4 = October, November, December

Did an Overflow occur during this quarter:

Yes☐ No ☑

Condition 5. Overflow		Event
5.3	a. the type of the Overflow (emergency or planned)	
	b. the date and time of the beginning of the Overflow	
	c. the point of the Overflow from the Works, the treatment process(es) gone through prior to the Overflow, the disinfection status of the Overflow and whether the Overflow is discharged through the effluent disposal facilities or an alternate location;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypasses and the reason(s) why the Overflow was not avoided.	
5.4	a. the date and time of the end of the Overflow;	
	b. the estimated or measured volume of Overflow.	
5.5	a. Overflow event in Sewage Treatment Plant, grab sample(s) of the Overflow, one near the beginning of the Event and one every eight (8) hours for the duration of the Event, and have them analyzed at least for CBOD5, total suspended solids, total phosphorus, total ammonia nitrogen, nitrate as N, nitrite as N, total Kjeldahl nitrogen, E. coli., except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.	
	b. at a sewage pumping station in the collection system, at least one (1) grab sample representative of the Overflow Event and have it analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen.	
5.6	…The summary report shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5). If there is no Overflow Event during a quarter, a statement of no occurrence of Overflow is deemed sufficient.	No Occurrence of Overflow.

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Box 279
Bobcaygeon, ON
K0M 1A0

May 06, 2025

David Bradley, District Manager
Peterborough District Office
Ministry of Environment, Conservation and Parks
300 Water Street South, 2nd Floor, South Tower
Peterborough ON K9J 3C7

Dear David Bradley:

Re: Minden STP Q1 2025 Bypass and Overflow Event Report

Amended Environmental Compliance Approval #5475-BPYLDH Conditions 4 and 5 issued October 2, 2020, for the Minden STP require Bypass and Overflow quarterly reports be submitted to the District Manager. These reports are to be submitted no later than February 15, May 15, August 15, and November 15 each year for Events that occurred during the preceding quarter.

No Overflow Events occurred at the Minden STP during the first quarter of 2025 – report is attached. One Bypass Event occurred of the Post- Secondary Sand Filters at the Minden STP during the first quarter of 2025. Details of this Event are attached.

Please contact me if you have any questions or comments.

Best regards,

Natalie Lamiot
Process & Compliance Technician
Ontario Clean Water Agency – Kawartha-Trent
(705) 760-5968

Attachments

cc: J. Manning, Sr. Operations Manager, OCWA Kawartha-Trent
M. Timmins, Director of Public Works, Township of Minden Hills
A. McCann, Safety, Process & Compliance Manager, OCWA Kawartha-Trent
L. Nicholson, General Manager, OCWA Kawartha-Trent
K. Lorente, Regional Manager, OCWA Kawartha-Trent
C. Biswanger, Water Inspector, MECP – Peterborough District Office

Minden STP - Quarterly Overflow Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q1 = January, February and March

Did an Overflow occur during this quarter:

Yes☐ No ☑

Condition 5. Overflow		Event
5.3	a. the type of the Overflow (emergency or planned)	
	b. the date and time of the beginning of the Overflow	
	c. the point of the Overflow from the Works, the treatment process(es) gone through prior to the Overflow, the disinfection status of the Overflow and whether the Overflow is discharged through the effluent disposal facilities or an alternate location;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypasses and the reason(s) why the Overflow was not avoided.	
5.4	a. the date and time of the end of the Overflow;	
	b. the estimated or measured volume of Overflow.	
5.5	a. Overflow event in Sewage Treatment Plant, grab sample(s) of the Overflow, one near the beginning of the Event and one every eight (8) hours for the duration of the Event, and have them analyzed at least for CBOD5, total suspended solids, total phosphorus, total ammonia nitrogen, nitrate as N, nitrite as N, total Kjeldahl nitrogen, E. coli., except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.	
	b. at a sewage pumping station in the collection system, at least one (1) grab sample representative of the Overflow Event and have it analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen	
5.6	…The summary report shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5). If there is no Overflow Event during a quarter, a statement of no occurrence of Overflow is deemed sufficient.	No Occurrence of Overflow.

Minden STP - Quarterly Bypass Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q1= January, February, March

Did a Bypass occur during this quarter:

Yes☑ No ☐

Condition 4. Bypasses		Event
4.3	a. the type of the Bypass (emergency or planned)	SAC #1-J1SEWN - emergency post-secondary treatment sand filter bypass due to weather/spring melt
	b. the date and time of the beginning of the Bypass	March 16, 2025 @ 09:40
	c. the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;	Primary, Secondary and Disinfection
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and the reason(s) why the Bypass was not avoided.	Monitored flows and processes - bypass due to heavy rain which caused the sand filters to become hydraulically overloaded.
4.4	a. the date and time of the end of the Bypass;	April 24, 2025 @ 09:17
	b. the estimated or measured volume of Bypass.	53,425 m^3
4.5	For any Bypass Event, the Owner shall collect daily sample(s) of the Final Effluent, inclusive of the Event and analyze for all effluent parameters outlined in Compliance Limits condition that require composite samples following the same protocol specified in the Monitoring and Recording condition for the regular samples. The sample(s) shall be in addition to the regular Final Effluent samples required under the monitoring and recording condition. If the Event occurs on a scheduled monitoring day, the regular sampling requirements prevail. If representative sample for the effluent parameter(s) that require grab sample cannot be obtained, they shall be collected after the Event at the earliest time when situation returns to normal.	Composite sample collected every 24 hours from March 16, 2025 to April 25, 2025. Operations Event Form Summary and lab reports attached.
4.6	. …The summary reports shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5) and either a statement of compliance or a summary of the non-compliance notifications submitted as required under Paragraph 1 of Condition 11. If there is no Bypass Event during a quarter, a statement of no occurrence of Bypass is deemed sufficient.	Compliant with ECA.

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Operations Event Form Summary

Project: Minden STP – Works # 110002390
Location: 73 Orde St., Minden, ON
Date: March 16, 2025 – April 24, 2025

Nature of Event: Emergency Sand Filter Bypass

Details of Event: Heavy rain event and snow melt, followed by an extreme weather event created high flows which caused the sand filters to become hydraulically overloaded - secondary treatment provided and disinfection; however, sand filters required bypassing. Receiving water is Gull River.

Call SAC: 1-800-268-6060

Time SAC notified: 10:35 March 16, 2025 **SAC Incident Number:** 1-J1SEWN

Name of Person at SAC: Julian Aristizabal

District Health Unit Notified (time): 10:46 March 16, 2025

Name of Person at Health Unit: Shelby Jones

Other Contacts (Managers, Client, MECP, MOH): MECP C. Biswanger, OCWA Sr. Operations Manager J. Manning, Owner-Township of Minden Hills notified, appropriate OCWA staff

Volume of Partial Sand Filter Bypass: Estimated volume based upon flow meter readings: ~53,425 m^3

Started: March 16, 2025 @ 09:40

Ended: April 24, 2025 @ 09:17

Duration: 935 hours 23 minutes

MOH contacted at end of event on April 24, 2025 @ 10:28 – left a message.

SAC contacted at end of event on April 24, 2025 @ 10:17

Samples: Final Effluent – composite samples for: CBOD, TSS, TP, NH3+NH4; grab samples for: Total Residual Chlorine, Dissolved Oxygen, pH & temperature

March 25, 2025 – no sample results due to sample not arriving to lab within holding time, notified MECP inspector.

Corrective Action Taken:

- Flows & process monitored throughout the event

Prepared By: N. Lamiot

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

24-March-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 18 March 2025
LR Report: **CA12388-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					17-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	13.0
Field pH [no unit]	---	---	---	---	7.05
Field Temperature [celcius]	---	---	---	---	9.9
Field Dissolved O2 [mg/L]					6.79
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	19-Mar-25	15:50	24-Mar-25	13:12	< 4
Total Suspended Solids [mg/L]	19-Mar-25	07:36	19-Mar-25	15:04	15
Phosphorus (total) [mg/L]	19-Mar-25	15:42	20-Mar-25	13:34	0.34
Ammonia+Ammonium (N) [as N mg/L]	19-Mar-25	17:41	20-Mar-25	11:18	1.0

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

OnLine LIMS

0004055173

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

24-March-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 19 March 2025
LR Report: **CA13744-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					18-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Field pH [no unit]	---	---	---	---	7.14
Field Temperature [celcius]	---	---	---	---	11.1
Field Dissolved O2 [mg/L]					7.55
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	19-Mar-25	15:50	24-Mar-25	13:23	< 4
Total Suspended Solids [mg/L]	20-Mar-25	10:42	21-Mar-25	10:35	6
Phosphorus (total) [mg/L]	20-Mar-25	15:37	21-Mar-25	11:46	0.11
Ammonia+Ammonium (N) [as N mg/L]	21-Mar-25	09:18	24-Mar-25	11:29	< 0.1

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

OnLine LIMS

0004055416

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

20-March-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 18 March 2025
LR Report: **CA12382-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field pH no unit	Field Temperature celcius	Ecoli mpn/100mL
1: Analysis Start Date		---	---	---	18-Mar-25
2: Analysis Start Time		---	---	---	13:23
3: Analysis Completed Date		---	---	---	20-Mar-25
4: Analysis Completed Time		---	---	---	08:56
5: Eff Eff-Final Effluent	17-Mar-25 09:40	13.0	7.05	9.9	>2420

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004051562

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

26-March-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

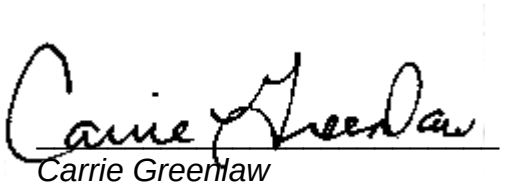
Date Rec. : 21 March 2025
LR Report: **CA12546-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent
Sample Date & Time					19-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	10.0
Field pH [no unit]	---	---	---	---	7.04
Field Temperature [celcius]	---	---	---	---	10.7
Field Dissolved O2 [mg/L]	---	---	---	---	7.83
Total Chlorine [mg/L]	---	---	---	---	0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	21-Mar-25	17:32	26-Mar-25	11:35	< 4
Total Suspended Solids [mg/L]	24-Mar-25	13:15	25-Mar-25	13:15	< 2
Phosphorus (total) [mg/L]	25-Mar-25	15:33	26-Mar-25	10:44	0.06
Ammonia+Ammonium (N) [as N mg/L]	25-Mar-25	18:31	26-Mar-25	12:58	< 0.1



Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004057872

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Works #: 110002390
Project : PO#017018

27-March-2025

OCWA-Kawartha (Minden WPCP)
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1 Orde St.
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KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 21 March 2025
LR Report: **CA12550-MAR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent	6: Eff Eff-Final Effluent	7: Eff Eff-Final Effluent (Bacti)
Sample Date & Time					20-Mar-25 09:40	20-Mar-25 09:40	20-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	10.0	10.0	10.0
Field pH [no unit]	---	---	---	---	---	7.18	---
Field Temperature [celcius]	---	---	---	---	---	10.6	---
Field Dissolved O2 [mg/L]	---	---	---	---	---	6.68	---
Total Chlorine [mg/L]	---	---	---	---	---	0.00	---
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	21-Mar-25	17:32	26-Mar-25	11:35	< 4	---	---
Total Suspended Solids [mg/L]	24-Mar-25	13:15	25-Mar-25	13:15	< 2	---	---
Phosphorus (total) [mg/L]	25-Mar-25	15:33	26-Mar-25	10:44	0.08	---	---
Total Kjeldahl Nitrogen [as N mg/L]	25-Mar-25	16:48	27-Mar-25	14:08	---	0.5	---
Unionized Ammonia [mg/L as N]	25-Mar-25	18:31	26-Mar-25	12:58	---	< 0.001	---
Ammonia+Ammonium (N) [as N mg/L]	25-Mar-25	18:31	26-Mar-25	12:58	< 0.1	< 0.1	---
Nitrite (as N) [mg/L]	26-Mar-25	14:02	27-Mar-25	09:11	---	0.06	---
Nitrate (as N) [mg/L]	26-Mar-25	14:02	27-Mar-25	09:11	---	9.51	---
Nitrate + Nitrite (as N) [mg/L]	26-Mar-25	14:02	27-Mar-25	09:11	---	9.57	---
Ecoli [mpn/100mL]	21-Mar-25	13:00	24-Mar-25	11:08	---	---	>2420

Note: Provincial unionized ammonia calculated from field pH and temperature provided on the chain of custody form.

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Works #: 110002390
Project : PO#017018

01-April-2025

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Date Rec. : 22 March 2025
LR Report: **CA13920-MAR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - comp
Sample Date & Time					21-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	7.0
Total Chlorine [mg/L]	---	---	---	---	0.00
Field pH [no unit]	---	---	---	---	7.10
Field Temperature [celcius]	---	---	---	---	11.0
Field Dissolved O2 [mg/L]	---	---	---	---	8.62
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	24-Mar-25	16:01	01-Apr-25	11:42	< 4
Total Suspended Solids [mg/L]	25-Mar-25	07:53	25-Mar-25	14:36	3
Phosphorus (total) [mg/L]	25-Mar-25	15:33	26-Mar-25	10:52	0.06
Ammonia+Ammonium (N) [as N mg/L]	25-Mar-25	18:31	26-Mar-25	13:14	< 0.1

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Works #: 110002390
Project : PO#017018

02-April-2025

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Date Rec. : 25 March 2025
LR Report: **CA13948-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy Teby-Final Effluent -comp
Sample Date & Time					22-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.06
Field Temperature [celcius]	---	---	---	---	4.1
Field Dissolved O2 [mg/L]					8.91
Total Chlorine [mg/L]					0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	25-Mar-25	15:49	01-Apr-25	12:08	< 4
Total Suspended Solids [mg/L]	25-Mar-25	14:22	26-Mar-25	10:17	5
Phosphorus (total) [mg/L]	25-Mar-25	15:33	26-Mar-25	10:54	0.07
Ammonia+Ammonium (N) [as N mg/L]	25-Mar-25	22:08	26-Mar-25	10:02	< 0.1

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Works #: 110002390
Project : PO#017018

02-April-2025

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Date Rec. : 25 March 2025
LR Report: **CA13946-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent
Sample Date & Time					23-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.19
Field Temperature [celcius]	---	---	---	---	9.2
Field Dissolved O2 [mg/L]					8.76
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	25-Mar-25	15:49	01-Apr-25	12:07	< 4
Total Suspended Solids [mg/L]	25-Mar-25	14:22	26-Mar-25	10:17	5
Phosphorus (total) [mg/L]	25-Mar-25	15:33	27-Mar-25	11:22	0.09
Ammonia+Ammonium (N) [as N mg/L]	25-Mar-25	22:08	26-Mar-25	10:02	< 0.1

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Works #: 110002390
Project : PO#017018

02-April-2025

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Date Rec. : 25 March 2025
LR Report: **CA13947-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					24-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.20
Field Temperature [celcius]	---	---	---	---	11.2
Field Dissolved O2 [mg/L]					8.06
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	25-Mar-25	15:49	01-Apr-25	12:08	< 4
Total Suspended Solids [mg/L]	25-Mar-25	14:22	26-Mar-25	10:17	3
Phosphorus (total) [mg/L]	25-Mar-25	15:33	26-Mar-25	10:54	0.09
Ammonia+Ammonium (N) [as N mg/L]	25-Mar-25	22:08	26-Mar-25	10:02	< 0.1

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Works #: 110002390
Project : PO#017018

02-April-2025

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Date Rec. : 28 March 2025
LR Report: **CA12967-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					26-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.17
Field Temperature [celcius]	---	---	---	---	10.6
Field Dissolved O2 [mg/L]					3.79
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	28-Mar-25	17:33	02-Apr-25	10:42	< 4
Total Suspended Solids [mg/L]	01-Apr-25	09:34	01-Apr-25	16:17	6
Phosphorus (total) [mg/L]	31-Mar-25	19:23	01-Apr-25	13:50	0.14
Ammonia+Ammonium (N) [as N mg/L]	31-Mar-25	18:27	01-Apr-25	11:44	0.1

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Works #: 110002390
Project : PO#017018

02-April-2025

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Date Rec. : 28 March 2025
LR Report: **CA12966-MAR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp	6: Eff Eff-Final Effluent	7: Eff Eff-Final Effluent (Bacti)
Sample Date & Time					27-Mar-25 09:40	27-Mar-25 09:40	27-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.0	11.0	11.0
Field pH [no unit]	---	---	---	---	---	7.21	---
Field Temperature [celcius]	---	---	---	---	---	10.0	---
Field Dissolved O2 [mg/L]					---	7.83	---
Total Chlorine [mg/L]					---	0.01	---
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	28-Mar-25	17:33	02-Apr-25	10:42	< 4	---	---
Total Suspended Solids [mg/L]	01-Apr-25	10:48	02-Apr-25	14:43	4	---	---
Phosphorus (total) [mg/L]	31-Mar-25	19:23	02-Apr-25	13:19	0.15	---	---
Total Kjeldahl Nitrogen [as N mg/L]	31-Mar-25	19:44	02-Apr-25	08:45	---	0.8	---
Unionized Ammonia [mg/L as N]	31-Mar-25	18:27	01-Apr-25	11:44	---	< 0.001	---
Ammonia+Ammonium (N) [as N mg/L]	31-Mar-25	18:27	01-Apr-25	11:44	0.3	0.3	---
Nitrite (as N) [mg/L]	31-Mar-25	23:39	01-Apr-25	13:53	---	0.28	---
Nitrate (as N) [mg/L]	31-Mar-25	23:39	01-Apr-25	13:53	---	10.3	---
Nitrate + Nitrite (as N) [mg/L]	31-Mar-25	23:39	01-Apr-25	13:53	---	10.6	---
Ecoli [mpn/100mL]	28-Mar-25	14:17	01-Apr-25	08:40	---	---	>2420

Note: Provincial unionized ammonia calculated from field pH and temperature provided on the chain of custody form.

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Works #: 110002390
Project : PO#017018

07-April-2025

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Fax:

Date Rec. : 31 March 2025
LR Report: **CA12987-MAR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					28-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.5
Field pH [no unit]	---	---	---	---	7.09
Field Temperature [celcius]	---	---	---	---	10.3
Field Dissolved O2 [mg/L]	---	---	---	---	8.10
Total Chlorine [mg/L]	---	---	---	---	0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	01-Apr-25	16:28	07-Apr-25	09:58	< 4
Total Suspended Solids [mg/L]	01-Apr-25	07:59	01-Apr-25	16:07	4
Phosphorus (total) [mg/L]	31-Mar-25	19:23	01-Apr-25	13:57	0.10
Ammonia+Ammonium (N) [as N mg/L]	01-Apr-25	15:57	02-Apr-25	10:25	0.3

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Works #: 110002390
Project : PO#017018

07-April-2025

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Date Rec. : 01 April 2025
LR Report: **CA13004-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					29-Mar-25 09:40
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.02
Field Temperature [celcius]	---	---	---	---	10.0
Field Dissolved O2 [mg/L]					8.08
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	02-Apr-25	17:59	07-Apr-25	12:03	< 4
Total Suspended Solids [mg/L]	02-Apr-25	09:40	02-Apr-25	16:01	5
Phosphorus (total) [mg/L]	01-Apr-25	19:20	02-Apr-25	13:06	0.11
Ammonia+Ammonium (N) [as N mg/L]	02-Apr-25	09:07	02-Apr-25	15:46	0.2

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Works #: 110002390
Project : PO#017018

07-April-2025

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Date Rec. : 01 April 2025
LR Report: **CA13005-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					30-Mar-25 10:38
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.11
Field Temperature [celcius]	---	---	---	---	10.4
Field Dissolved O2 [mg/L]					8.26
Total Chlorine [mg/L]					0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	02-Apr-25	17:59	07-Apr-25	12:03	< 4
Total Suspended Solids [mg/L]	02-Apr-25	09:40	02-Apr-25	16:01	2
Phosphorus (total) [mg/L]	01-Apr-25	19:20	02-Apr-25	13:06	0.08
Ammonia+Ammonium (N) [as N mg/L]	02-Apr-25	09:07	02-Apr-25	15:46	0.1

Carrie Greenlaw
Project Specialist,
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OnLine LIMS

0004069055

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Works #: 110002390
Project : PO#017018

07-April-2025

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Date Rec. : 01 April 2025
LR Report: **CA13003-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					31-Mar-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	11.0
Field pH [no unit]	---	---	---	---	7.12
Field Temperature [celcius]	---	---	---	---	8.6
Field Dissolved O2 [mg/L]					9.27
Total Chlorine [mg/L]					0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	02-Apr-25	17:59	07-Apr-25	12:03	< 4
Total Suspended Solids [mg/L]	02-Apr-25	09:40	02-Apr-25	16:01	5
Phosphorus (total) [mg/L]	01-Apr-25	19:20	02-Apr-25	13:06	0.11
Ammonia+Ammonium (N) [as N mg/L]	02-Apr-25	09:07	02-Apr-25	15:46	0.1

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Works #: 110002390
Project : PO#017018

07-April-2025

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Date Rec. : 01 April 2025
LR Report: **CA13038-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - comp
Sample Date & Time					01-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	9.0
Field pH [no unit]	---	---	---	---	7.40
Field Temperature [celcius]	---	---	---	---	10.6
Field Dissolved O2 [mg/L]					9.04
Total Chlorine [mg/L]					0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	01-Apr-25	16:28	07-Apr-25	09:48	< 4
Total Suspended Solids [mg/L]	02-Apr-25	08:14	02-Apr-25	15:22	3
Phosphorus (total) [mg/L]	01-Apr-25	19:20	02-Apr-25	13:12	0.10
Ammonia+Ammonium (N) [as N mg/L]	02-Apr-25	17:47	03-Apr-25	13:14	0.1

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Works #: 110002390
Project : PO#017018

10-April-2025

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Date Rec. : 04 April 2025
LR Report: **CA13268-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					02-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Field pH [no unit]	---	---	---	---	7.22
Field Temperature [celcius]	---	---	---	---	9.2
Field Dissolved O2 [mg/L]					7.27
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	04-Apr-25	18:12	09-Apr-25	10:53	6
Total Suspended Solids [mg/L]	07-Apr-25	15:48	08-Apr-25	14:45	6
Phosphorus (total) [mg/L]	07-Apr-25	19:37	08-Apr-25	12:56	0.05
Ammonia+Ammonium (N) [as N mg/L]	04-Apr-25	19:04	08-Apr-25	11:21	0.1

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0004072877

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Works #: 110002390
Project : PO#017018

11-April-2025

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Date Rec. : 04 April 2025
LR Report: **CA13272-APR25**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp	6: Eff Eff-Final Effluent	7: Eff Eff-Final Effluent (Bacti)
Sample Date & Time					03-Apr-25 08:45	03-Apr-25 08:45	03-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0	12.0	12.0
Field pH [no unit]	---	---	---	---	7.07	7.07	---
Field Temperature [celcius]	---	---	---	---	11.2	11.2	---
Field Dissolved O2 [mg/L]					7.10	---	---
Total Chlorine [mg/L]					0.00	---	---
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	04-Apr-25	18:12	09-Apr-25	10:53	< 4	---	---
Total Suspended Solids [mg/L]	08-Apr-25	08:56	08-Apr-25	14:58	4	---	---
Phosphorus (total) [mg/L]	07-Apr-25	19:37	08-Apr-25	12:56	< 0.03	---	---
Total Kjeldahl Nitrogen [as N mg/L]	07-Apr-25	16:24	08-Apr-25	14:43	---	0.8	---
Unionized Ammonia [mg/L as N]	04-Apr-25	19:04	08-Apr-25	14:57	---	< 0.001	---
Ammonia+Ammonium (N) [as N mg/L]	04-Apr-25	19:04	07-Apr-25	12:44	0.1	0.1	---
Nitrite (as N) [mg/L]	10-Apr-25	00:31	10-Apr-25	19:29	---	0.10	---
Nitrate (as N) [mg/L]	10-Apr-25	00:31	10-Apr-25	19:29	---	6.04	---
Nitrate + Nitrite (as N) [mg/L]	10-Apr-25	00:31	10-Apr-25	19:29	---	6.14	---
Ecoli [mpn/100mL]	04-Apr-25	13:17	07-Apr-25	12:05	---	---	7490

Note: Provincial unionized ammonia calculated from field pH and temperature provided on the chain of custody form.

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OnLine LIMS

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Works #: 110002390
Project : PO#017018

14-April-2025

OCWA-Kawartha (Minden WPCP)
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Date Rec. : 05 April 2025
LR Report: **CA13343-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					04-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	14.5
Field pH [no unit]	---	---	---	---	7.07
Field Temperature [celcius]	---	---	---	---	10.5
Field Dissolved O2 [mg/L]	---	---	---	---	8.39
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	07-Apr-25	16:15	14-Apr-25	08:37	4
Total Suspended Solids [mg/L]	08-Apr-25	08:56	08-Apr-25	14:59	5
Phosphorus (total) [mg/L]	07-Apr-25	15:42	08-Apr-25	14:03	0.09
Ammonia+Ammonium (N) [as N mg/L]	07-Apr-25	18:21	08-Apr-25	11:23	0.3

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Works #: 110002390
Project : PO#017018

14-April-2025

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Date Rec. : 07 April 2025
LR Report: **CA13349-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					05-Apr-25
Temperature Upon Receipt [°C]	---	---	---	---	6.0
Field pH [no unit]	---	---	---	---	7.05
Field Temperature [celcius]	---	---	---	---	10.4
Field Dissolved O2 [mg/L]					8.22
Free Chlorine [mg/L]					0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	08-Apr-25	16:06	14-Apr-25	11:21	< 4
Total Suspended Solids [mg/L]	08-Apr-25	10:19	09-Apr-25	13:39	3
Phosphorus (total) [mg/L]	08-Apr-25	15:57	09-Apr-25	10:39	0.04
Ammonia+Ammonium (N) [as N mg/L]	08-Apr-25	18:56	09-Apr-25	11:44	0.1

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Works #: 110002390
Project : PO#017018

15-April-2025

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Date Rec. : 08 April 2025
LR Report: **CA13463-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					06-Apr-25
Temperature Upon Receipt [°C]	---	---	---	---	10.0
Field pH [no unit]	---	---	---	---	7.09
Field Temperature [celcius]	---	---	---	---	10.3
Field Dissolved O2 [mg/L]					7.97
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	09-Apr-25	16:56	14-Apr-25	14:31	< 4
Total Suspended Solids [mg/L]	10-Apr-25	09:25	11-Apr-25	08:15	2
Phosphorus (total) [mg/L]	09-Apr-25	16:13	10-Apr-25	10:38	0.04
Ammonia+Ammonium (N) [as N mg/L]	08-Apr-25	21:45	09-Apr-25	10:18	0.1

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Project : PO#017018

15-April-2025

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Date Rec. : 08 April 2025
LR Report: **CA13464-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					07-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	10.0
Field pH [no unit]	---	---	---	---	7.10
Field Temperature [celcius]	---	---	---	---	10.7
Field Dissolved O2 [mg/L]					8.00
Total Chlorine [mg/L]					0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	09-Apr-25	16:56	14-Apr-25	14:31	< 4
Total Suspended Solids [mg/L]	10-Apr-25	07:45	10-Apr-25	14:31	2
Phosphorus (total) [mg/L]	09-Apr-25	16:13	10-Apr-25	10:38	0.04
Ammonia+Ammonium (N) [as N mg/L]	08-Apr-25	21:45	09-Apr-25	10:18	< 0.1

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Project : PO#017018

15-April-2025

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Date Rec. : 09 April 2025
LR Report: **CA12276-APR25**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					08-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	13.0
Field pH [no unit]	---	---	---	---	7.13
Field Temperature [celcius]	---	---	---	---	9.9
Field Dissolved O2 [mg/L]					7.95
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	10-Apr-25	15:18	15-Apr-25	11:51	< 4
Total Suspended Solids [mg/L]	10-Apr-25	07:45	10-Apr-25	14:29	3
Phosphorus (total) [mg/L]	11-Apr-25	15:47	14-Apr-25	11:07	0.04
Ammonia+Ammonium (N) [as N mg/L]	10-Apr-25	22:08	11-Apr-25	09:40	0.1

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Works #: 110002390
Project : PO#017018

17-April-2025

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Date Rec. : 11 April 2025
LR Report: **CA13678-APR25**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					09-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Field pH [no unit]	---	---	---	---	7.12
Field Temperature [celcius]	---	---	---	---	9.6
Field Dissolved O2 [mg/L]	---	---	---	---	7.91
Total Chlorine [mg/L]	---	---	---	---	0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	12-Apr-25	13:21	17-Apr-25	10:34	< 4
Total Suspended Solids [mg/L]	15-Apr-25	07:56	15-Apr-25	15:53	3
Phosphorus (total) [mg/L]	14-Apr-25	15:29	15-Apr-25	15:22	0.06
Ammonia+Ammonium (N) [as N mg/L]	14-Apr-25	21:47	16-Apr-25	13:41	0.1

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Works #: 110002390
Project : PO#017018

21-April-2025

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Date Rec. : 11 April 2025
LR Report: **CA13679-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp	6: Eff Eff-Final Effluent-comp	7: Eff Eff-Final Effluent-bacti
Sample Date & Time					10-Apr-25 08:45	10-Apr-25 08:45	10-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0	12.0	12.0
Field pH [no unit]	---	---	---	---	---	7.21	---
Field Temperature [celcius]	---	---	---	---	---	8.6	---
Field Dissolved O2 [mg/L]	---	---	---	---	---	7.99	---
Total Chlorine [mg/L]	---	---	---	---	---	0.00	---
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	12-Apr-25	13:21	17-Apr-25	10:34	< 4	---	---
Total Suspended Solids [mg/L]	15-Apr-25	10:44	16-Apr-25	15:03	2	---	---
Phosphorus (total) [mg/L]	14-Apr-25	20:48	15-Apr-25	09:55	< 0.03	---	---
Total Kjeldahl Nitrogen [as N mg/L]	15-Apr-25	16:09	17-Apr-25	13:02	---	0.8	---
Unionized Ammonia [mg/L as N]	15-Apr-25	18:16	17-Apr-25	13:44	---	< 0.001	---
Ammonia+Ammonium (N) [as N mg/L]	15-Apr-25	18:16	17-Apr-25	13:44	0.1	0.1	---
Nitrite (as N) [mg/L]	16-Apr-25	22:55	21-Apr-25	12:19	---	0.23	---
Nitrate (as N) [mg/L]	16-Apr-25	22:55	21-Apr-25	12:19	---	8.31	---
Nitrate + Nitrite (as N) [mg/L]	16-Apr-25	22:55	21-Apr-25	12:19	---	8.54	---
Ecoli [mpn/100mL]	11-Apr-25	14:15	14-Apr-25	11:34	---	---	8390

Note: Provincial unionized ammonia calculated from field pH and temperature provided on the chain of custody form.

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Works #: 110002390
Project : PO#017018

21-April-2025

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Date Rec. : 12 April 2025
LR Report: **CA13781-APR25**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final effluent-comp
Sample Date & Time					11-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	4.0
Field pH [no unit]	---	---	---	---	7.19
Field Temperature [celcius]	---	---	---	---	9.7
Field Dissolved O2 [mg/L]					8.32
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	15-Apr-25	15:44	21-Apr-25	12:27	< 4
Total Suspended Solids [mg/L]	16-Apr-25	07:43	16-Apr-25	15:23	2
Phosphorus (total) [mg/L]	15-Apr-25	15:29	16-Apr-25	11:12	0.07
Ammonia+Ammonium (N) [as N mg/L]	16-Apr-25	19:26	17-Apr-25	15:13	0.1

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Works #: 110002390
Project : PO#017018

21-April-2025

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Date Rec. : 15 April 2025
LR Report: **CA13830-APR25**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					12-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Field pH [no unit]	---	---	---	---	7.21
Field Temperature [celcius]	---	---	---	---	9.9
Field Dissolved O2 [mg/L]	---	---	---	---	8.03
Total Chlorine [mg/L]	---	---	---	---	0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	16-Apr-25	16:47	21-Apr-25	14:32	< 4
Total Suspended Solids [mg/L]	17-Apr-25	08:07	17-Apr-25	16:20	2
Phosphorus (total) [mg/L]	16-Apr-25	15:06	17-Apr-25	12:20	0.05
Ammonia+Ammonium (N) [as N mg/L]	17-Apr-25	17:33	21-Apr-25	10:02	0.1

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Works #: 110002390
Project : PO#017018

22-April-2025

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Date Rec. : 15 April 2025
LR Report: **CA13831-APR25**

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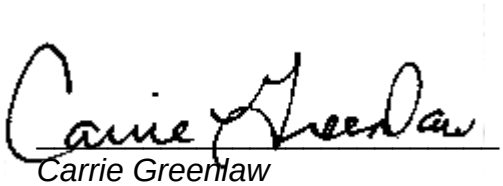
CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					13-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	13.0
Field pH [no unit]	---	---	---	---	7.27
Field Temperature [celcius]	---	---	---	---	10.2
Field Dissolved O2 [mg/L]	---	---	---	---	7.40
Total Chlorine [mg/L]	---	---	---	---	0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	16-Apr-25	16:47	21-Apr-25	14:32	< 4
Total Suspended Solids [mg/L]	17-Apr-25	08:07	17-Apr-25	16:20	6
Phosphorus (total) [mg/L]	16-Apr-25	15:06	17-Apr-25	12:20	0.11
Ammonia+Ammonium (N) [as N mg/L]	17-Apr-25	17:33	22-Apr-25	10:29	0.1



Carrie Greenlaw
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Works #: 110002390
Project : PO#017018

22-April-2025

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Date Rec. : 15 April 2025
LR Report: **CA13899-APR25**

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CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp
Sample Date & Time					14-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Field pH [no unit]	---	---	---	---	7.41
Field Temperature [celcius]	---	---	---	---	10.4
Field Dissolved O2 [mg/L]	---	---	---	---	6.94
Total Chlorine [mg/L]	---	---	---	---	0.01
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	16-Apr-25	16:47	21-Apr-25	14:37	6
Total Suspended Solids [mg/L]	17-Apr-25	08:07	17-Apr-25	16:24	37
Phosphorus (total) [mg/L]	16-Apr-25	15:06	17-Apr-25	12:22	0.53
Ammonia+Ammonium (N) [as N mg/L]	17-Apr-25	17:33	22-Apr-25	10:31	< 0.1

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Works #: 110002390
Project : PO#017018

24-April-2025

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Date Rec. : 17 April 2025
LR Report: **CA12686-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent
Sample Date & Time					15-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	10.0
Field pH [no unit]	---	---	---	---	7.25
Field Temperature [celcius]	---	---	---	---	10.7
Field Dissolved O2 [mg/L]	---	---	---	---	6.82
Total Chlorine [mg/L]	---	---	---	---	0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	17-Apr-25	19:37	22-Apr-25	12:30	< 4
Total Suspended Solids [mg/L]	21-Apr-25	14:45	22-Apr-25	12:00	6
Phosphorus (total) [mg/L]	21-Apr-25	20:54	22-Apr-25	14:10	0.09
Ammonia+Ammonium (N) [as N mg/L]	22-Apr-25	17:39	24-Apr-25	10:43	0.1

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Works #: 110002390
Project : PO#017018

24-April-2025

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Date Rec. : 17 April 2025
LR Report: **CA12685-APR25**

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent
Sample Date & Time					16-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	10.0
Field pH [no unit]	---	---	---	---	7.21
Field Temperature [celcius]	---	---	---	---	9.2
Field Dissolved O2 [mg/L]	---	---	---	---	8.26
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	17-Apr-25	19:37	22-Apr-25	12:30	< 4
Total Suspended Solids [mg/L]	23-Apr-25	07:42	23-Apr-25	15:11	3
Phosphorus (total) [mg/L]	21-Apr-25	20:54	22-Apr-25	14:10	0.09
Ammonia+Ammonium (N) [as N mg/L]	22-Apr-25	17:39	23-Apr-25	12:55	< 0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004088098

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

24-April-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 17 April 2025
LR Report: **CA12687-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent	6: Eff Eff-Final Effluent	7: Eff Eff-Final Effluent (Bacti)
Sample Date & Time					17-Apr-25 08:45	17-Apr-25 08:45	17-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	10.0	10.0	10.0
Field pH [no unit]	---	---	---	---	---	7.22	---
Field Temperature [celcius]	---	---	---	---	---	10.7	---
Field Dissolved O2 [mg/L]	---	---	---	---	---	8.30	---
Total Chlorine [mg/L]	---	---	---	---	---	0.00	---
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	17-Apr-25	19:37	22-Apr-25	12:30	4	---	---
Total Suspended Solids [mg/L]	21-Apr-25	14:45	22-Apr-25	12:00	3	---	---
Phosphorus (total) [mg/L]	21-Apr-25	20:54	22-Apr-25	14:10	0.07	---	---
Total Kjeldahl Nitrogen [as N mg/L]	23-Apr-25	07:19	24-Apr-25	10:18	---	< 0.5	---
Unionized Ammonia [mg/L as N]	22-Apr-25	17:39	24-Apr-25	10:43	---	< 0.001	---
Ammonia+Ammonium (N) [as N mg/L]	22-Apr-25	17:39	24-Apr-25	10:43	< 0.1	0.1	---
Nitrite (as N) [mg/L]	22-Apr-25	15:10	23-Apr-25	13:27	---	0.12	---
Nitrate (as N) [mg/L]	22-Apr-25	15:10	23-Apr-25	13:27	---	10.1	---
Nitrate + Nitrite (as N) [mg/L]	22-Apr-25	15:10	23-Apr-25	13:27	---	10.3	---
Ecoli [mpn/100mL]	17-Apr-25	15:16	21-Apr-25	10:57	---	---	81640

Note: Provincial unionized ammonia calculated from field pH and temperature provided on the chain of custody form.

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

OnLine LIMS

0004088952

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

28-April-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 22 April 2025
LR Report: **CA12853-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - Comp
Sample Date & Time					18-Apr-25
Temperature Upon Receipt [°C]	---	---	---	---	6.0
Field pH [no unit]	---	---	---	---	7.14
Field Temperature [celcius]	---	---	---	---	10.5
Field Dissolved O2 [mg/L]					8.1
Total Chlorine [mg/L]					0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	23-Apr-25	14:26	28-Apr-25	14:39	< 4
Total Suspended Solids [mg/L]	23-Apr-25	10:40	24-Apr-25	09:44	2
Phosphorus (total) [mg/L]	22-Apr-25	20:25	23-Apr-25	14:33	0.09
Ammonia+Ammonium (N) [as N mg/L]	23-Apr-25	17:17	25-Apr-25	12:23	0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004092824

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

28-April-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 22 April 2025
LR Report: **CA12851-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent Comp
Sample Date & Time					19-Apr-25
Temperature Upon Receipt [°C]	---	---	---	---	6.0
Field pH [no unit]	---	---	---	---	7.05
Field Temperature [celcius]	---	---	---	---	10.1
Field Dissolved O2 [mg/L]					7.49
Total Chlorine [mg/L]					0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	23-Apr-25	14:26	28-Apr-25	14:39	5
Total Suspended Solids [mg/L]	23-Apr-25	10:40	24-Apr-25	09:44	2
Phosphorus (total) [mg/L]	22-Apr-25	20:25	23-Apr-25	14:32	0.12
Ammonia+Ammonium (N) [as N mg/L]	23-Apr-25	17:17	24-Apr-25	10:45	0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004092815

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

28-April-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 22 April 2025
LR Report: **CA12852-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - Comp
Sample Date & Time					20-Apr-25
Temperature Upon Receipt [°C]	---	---	---	---	6.0
Field pH [no unit]	---	---	---	---	7.17
Field Temperature [celcius]	---	---	---	---	10.3
Field Dissolved O2 [mg/L]					8.11
Total Chlorine [mg/L]					0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	23-Apr-25	14:26	28-Apr-25	14:39	< 4
Total Suspended Solids [mg/L]	23-Apr-25	10:40	24-Apr-25	09:44	3
Phosphorus (total) [mg/L]	22-Apr-25	20:25	23-Apr-25	14:33	0.11
Ammonia+Ammonium (N) [as N mg/L]	23-Apr-25	17:17	24-Apr-25	10:45	0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004092818

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

28-April-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 22 April 2025
LR Report: **CA12854-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - Comp
Sample Date & Time					21-Apr-25
Temperature Upon Receipt [°C]	---	---	---	---	6.0
Field pH [no unit]	---	---	---	---	7.63
Field Temperature [celcius]	---	---	---	---	10.9
Field Dissolved O2 [mg/L]					7.42
Total Chlorine [mg/L]					0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	23-Apr-25	14:26	28-Apr-25	14:39	< 4
Total Suspended Solids [mg/L]	23-Apr-25	10:40	24-Apr-25	09:44	2
Phosphorus (total) [mg/L]	22-Apr-25	20:25	23-Apr-25	14:33	0.11
Ammonia+Ammonium (N) [as N mg/L]	23-Apr-25	17:17	25-Apr-25	12:24	< 0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004092827

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

28-April-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 22 April 2025
LR Report: **CA12855-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - Comp
Sample Date & Time					22-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	6.0
Field pH [no unit]	---	---	---	---	7.23
Field Temperature [celcius]	---	---	---	---	11.3
Field Dissolved O2 [mg/L]					6.19
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	23-Apr-25	14:26	28-Apr-25	14:39	< 4
Total Suspended Solids [mg/L]	23-Apr-25	13:44	24-Apr-25	11:51	3
Phosphorus (total) [mg/L]	22-Apr-25	20:25	23-Apr-25	14:33	0.10
Ammonia+Ammonium (N) [as N mg/L]	23-Apr-25	17:17	24-Apr-25	10:45	< 0.1

Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004092830

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

01-May-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 25 April 2025
LR Report: **CA15737-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-comp
Sample Date & Time					23-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	14.0
Field pH [no unit]	---	---	---	---	7.18
Field Temperature [celcius]	---	---	---	---	9.6
Field Dissolved O2 [mg/L]					8.25
Total Chlorine [mg/L]					0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	25-Apr-25	17:18	30-Apr-25	13:56	< 4
Total Suspended Solids [mg/L]	28-Apr-25	10:12	29-Apr-25	11:03	3
Phosphorus (total) [mg/L]	28-Apr-25	15:28	29-Apr-25	14:40	0.08
Ammonia+Ammonium (N) [as N mg/L]	28-Apr-25	19:50	29-Apr-25	10:46	< 0.1

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

OnLine LIMS

0004096641

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

01-May-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

Phone: 705-286-1142
Fax:

Date Rec. : 25 April 2025
LR Report: **CA15903-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent-Comp	6: Eff Eff-Final Effluent-Comp	7: Eff Eff-Final Effluent (Bacti)
Sample Date & Time					24-Apr-25 08:45	24-Apr-25 08:45	24-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	14.0	14.0	14.0
Field pH [no unit]	---	---	---	---	---	7.22	---
Field Temperature [celcius]	---	---	---	---	---	10.9	---
Field Dissolved O2 [mg/L]					---	7.05	---
Total Chlorine [mg/L]					---	0.00	---
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	25-Apr-25	17:18	30-Apr-25	13:56	< 4	---	---
Total Suspended Solids [mg/L]	28-Apr-25	14:21	29-Apr-25	15:35	2	---	---
Phosphorus (total) [mg/L]	28-Apr-25	15:28	29-Apr-25	14:41	0.07	---	---
Total Kjeldahl Nitrogen [as N mg/L]	28-Apr-25	14:49	29-Apr-25	10:02	---	< 0.5	---
Unionized Ammonia [mg/L as N]	25-Apr-25	19:07	28-Apr-25	11:09	---	< 0.001	---
Ammonia+Ammonium (N) [as N mg/L]	25-Apr-25	19:07	28-Apr-25	11:09	< 0.1	< 0.1	---
Nitrite (as N) [mg/L]	26-Apr-25	07:30	29-Apr-25	10:43	---	< 0.03	---
Nitrate (as N) [mg/L]	26-Apr-25	07:30	29-Apr-25	10:43	---	10.2	---
Nitrate + Nitrite (as N) [mg/L]	26-Apr-25	07:30	29-Apr-25	10:43	---	10.2	---
Ecoli [mpn/100mL]	25-Apr-25	15:46	28-Apr-25	12:34	---	---	0

Note: Provincial unionized ammonia calculated from field pH and temperature provided on the chain of custody form.

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

OnLine LIMS

0004096650

SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - KOL 2HO
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110002390
Project : PO#017018

05-May-2025

OCWA-Kawartha (Minden WPCP)
Attn : Natalie Lamiot

1 Orde St.
Minden, ON
KOM 2K0, Canada

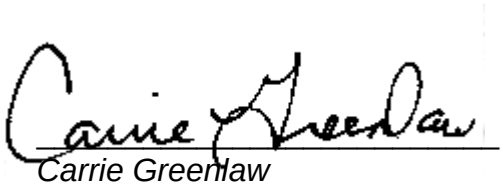
Phone: 705-286-1142
Fax:

Date Rec. : 26 April 2025
LR Report: **CA15943-APR25**

Copy: #1

CERTIFICATE OF ANALYSIS
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: TeBy TeBy-Final Effluent - comp
Sample Date & Time					25-Apr-25 08:45
Temperature Upon Receipt [°C]	---	---	---	---	12.0
Field pH [no unit]	---	---	---	---	7.22
Field Temperature [celcius]	---	---	---	---	12.4
Field Dissolved O2 [mg/L]	---	---	---	---	6.78
Total Chlorine [mg/L]	---	---	---	---	0.00
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	28-Apr-25	16:18	05-May-25	11:55	< 4
Total Suspended Solids [mg/L]	29-Apr-25	09:51	29-Apr-25	15:51	8
Phosphorus (total) [mg/L]	29-Apr-25	15:11	30-Apr-25	10:42	0.05
Ammonia+Ammonium (N) [as N mg/L]	28-Apr-25	19:50	29-Apr-25	10:48	< 0.1



Carrie Greenlaw
Project Specialist,
Environment, Health & Safety

OnLine LIMS

0004101113

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Box 279
Bobcaygeon, ON
K0M 1A0

July 21, 2025

David Bradley, District Manager
Peterborough District Office
Ministry of Environment, Conservation and Parks
300 Water Street South, 2nd Floor, South Tower
Peterborough ON K9J 3C7

Dear David Bradley:

Re: Minden STP Q2 2025 Bypass and Overflow Event Report

Amended Environmental Compliance Approval #5475-BPYLDH Conditions 4 and 5 issued October 2, 2020, for the Minden STP require Bypass and Overflow quarterly reports be submitted to the District Manager. These reports are to be submitted no later than February 15, May 15, August 15, and November 15 each year for Events that occurred during the preceding quarter.

No Bypass or Overflow Events occurred at the Minden STP during the second quarter of 2025 – reports are attached.

Please contact me if you have any questions or comments.

Best regards,

Natalie Lamiot
Process & Compliance Technician
Ontario Clean Water Agency – Kawartha-Trent
(705) 760-5968

Attachments

cc: J. Manning, Sr. Operations Manager, OCWA Kawartha-Trent
M. Timmins, Director of Public Works, Township of Minden Hills
A. McCann, Safety, Process & Compliance Manager, OCWA Kawartha-Trent
L. Nicholson, General Manager, OCWA Kawartha-Trent
K. Lorente, Regional Manager, OCWA Kawartha-Trent
C. Biswanger, MECP – Peterborough District Office

Minden STP - Quarterly Bypass Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q2= April, May, June

Did a Bypass occur during this quarter:

Yes☐ No ☑

Condition 4. Bypasses		Event
4.3	a. the type of the Bypass (emergency or planned)	
	b. the date and time of the beginning of the Bypass	
	c. the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and the reason(s) why the Bypass was not avoided.	
4.4	a. the date and time of the end of the Bypass;	
	b. the estimated or measured volume of Bypass.	
4.5	For any Bypass Event, the Owner shall collect daily sample(s) of the Final Effluent, inclusive of the Event and analyze for all effluent parameters outlined in Compliance Limits condition that require composite samples following the same protocol specified in the Monitoring and Recording condition for the regular samples. The sample(s) shall be in addition to the regular Final Effluent samples required under the monitoring and recording condition. If the Event occurs on a scheduled monitoring day, the regular sampling requirements prevail. If representative sample for the effluent parameter(s) that require grab sample cannot be obtained, they shall be collected after the Event at the earliest time when situation returns to normal.	
4.6	. …The summary reports shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5) and either a statement of compliance or a summary of the non-compliance notifications submitted as required under Paragraph 1 of Condition 11. If there is no Bypass Event during a quarter, a statement of no occurrence of Bypass is deemed sufficient.	No occurance of Bypass

Minden STP - Quarterly Overflow Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q2 = April, May, June

Did an Overflow occur during this quarter:

Yes☐ No ☑

Condition 5. Overflow		Event
5.3	a. the type of the Overflow (emergency or planned)	
	b. the date and time of the beginning of the Overflow	
	c. the point of the Overflow from the Works, the treatment process(es) gone through prior to the Overflow, the disinfection status of the Overflow and whether the Overflow is discharged through the effluent disposal facilities or an alternate location;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypasses and the reason(s) why the Overflow was not avoided.	
5.4	a. the date and time of the end of the Overflow;	
	b. the estimated or measured volume of Overflow.	
5.5	a. Overflow event in Sewage Treatment Plant, grab sample(s) of the Overflow, one near the beginning of the Event and one every eight (8) hours for the duration of the Event, and have them analyzed at least for CBOD5, total suspended solids, total phosphorus, total ammonia nitrogen, nitrate as N, nitrite as N, total Kjeldahl nitrogen, E. coli., except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.	
	b. at a sewage pumping station in the collection system, at least one (1) grab sample representative of the Overflow Event and have it analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen.	
5.6	…The summary report shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5). If there is no Overflow Event during a quarter, a statement of no occurrence of Overflow is deemed sufficient.	No Occurrence of Overflow.

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

August 14, 2025

David Bradley
District Manager, Peterborough District Office
Ministry of the Environment, Conservation and Parks
300 Water Street South, 2nd Floor, South Tower
Peterborough, ON
K9J 3C7

Dear David:

Re: Minden Hills WPCP E. Coli Monthly Geometric Mean Density Exceedance – April 2025

Further to my voicemail earlier today, August 14, 2025, I am submitting written notification for the exceedance of the E. Coli Monthly Geometric Mean Density as required by ECA No. 5475-BPYLDH, issued October 2, 2020 for the Minden Hills WPCP. The ECA sets a limit of 200MPN/100mL for E. Coli GMD. Completing the calculation set out in Schedule F of the ECA, the April 2025 Monthly GMD is:

- Monthly Geometric Mean Density: 1,505.0 MPN/100mL

The Minden Hills WPCP experienced a sand filter bypass from March 16 - April 24, 2025 due to high flows as a result from the spring melt and inclement weather events. The flows and process were monitored throughout the event however the following three sample results were received for E. Coli which contributed to the exceedance:

April 3, 2025 – 7490 MPN/100mL
April 10, 2025 – 8390 MPN/100mL
April 17, 2025 – 81640 MPN/100mL

Please do not hesitate to contact me with any questions.

Take care,

Natalie Lamiot
Process & Compliance Technician
Ontario Clean Water Agency
Kawartha Hub
(705) 760-5968

cc: J. Manning, OCWA – Sr. Operations Manager
A. McCann, OCWA – Safety, Process & Compliance Mgr.
L. Nicholson, OCWA - General Manager
K. Lorente, OCWA- Regional Manager
R. Junkin, OCWA- VP Operations
M. Timmins, Township of Minden Hills, Director of Public Works
C. Biswanger, Water Compliance Officer, MECP Peterborough
C. Craig, OCWA – Process & Compliance Technician

Operations Event Form

Project: Fleming College Research Facility Operations
Location: 73 Orde St, Minden ON
Date: April 21, 2025
Nature of Event: (By-pass, spill, odor, noise etc…) Wastewater spill

Details of Event: Overflow from equalization tanks due to power failure affecting level sensors resulted in wastewater entering the facility floor and seeping beneath the structure through an unsealed drain. Site was secured, and production was shut down upon discovery. Standing wastewater was removed; area has been cleaned and disinfected.

Call SAC: 1-800-268-6060

Time SAC notified: April 25, 2025: 12pm **SAC Incident Number unknown**

Name of Person at SAC: unknown

MECP District Manager Peterborough Notified 705-927-6165 (time): _____

District Health Unit Notified (time): April 30, 2025 at 11am

Name of Person at Health Unit: Bud Ivey, Public Health Inspector

All Other Phone calls placed (Managers, Client, MECP, MOH):

Volume of By-pass or Spill:
(ET tank volume) + (additional influent) − (drainage) = total spilled
=6,000 L + 6,250 L − 1,000 L = ~11,250 L

Bypass Time:

Start: breaker tripped sometime after 10pm April 21, 2025

Finish: April 22, 830am

Samples Taken? (BOD,TSS,Phos,NH3+NH4, e-coli): No. However, the site is routinely monitored and a database of recent sample results exists, providing reliable estimates of wastewater characteristics during the spill period.

Corrective Action Taken: Production was shut down upon discovery of the spill to investigate the issue and secure the site. Operations resumed later that day. Wastewater was removed; the transformer will be inspected by a licensed electrician; replacement power supplies have been ordered; and PLC alarms and shutdown logic are under review. The facility currently has a raised overflow drain, but a larger sealed floor-level drain will be installed to better manage future overflows. Based on input from our environmental engineer, active soil remediation is not planned. The spill involved untreated wastewater and was confined to the area beneath the facility. The primary constituents of concern—biodegradable organics—are expected to degrade naturally over time. The area is not accessible to the public, and the spill is confined beneath the facility with no anticipated migration to surface water or groundwater.

Prepared By: Jennifer Andersen, Director, CAWT, Fleming College

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Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Box 279
Bobcaygeon, ON
K0M 1A0

October 27, 2025

David Bradley, District Manager
Peterborough District Office
Ministry of Environment, Conservation and Parks
300 Water Street South, 2nd Floor, South Tower
Peterborough ON K9J 3C7

Dear David Bradley:

Re: Minden STP Q3 2025 Bypass and Overflow Event Report

Amended Environmental Compliance Approval #5475-BPYLDH Conditions 4 and 5 issued October 2, 2020, for the Minden STP require Bypass and Overflow quarterly reports be submitted to the District Manager. These reports are to be submitted no later than February 15, May 15, August 15, and November 15 each year for Events that occurred during the preceding quarter.

No Bypass or Overflow Events occurred at the Minden STP during the third quarter of 2025 – reports are attached.

Please contact me if you have any questions or comments.

Best regards,

Natalie Lamiot
Process & Compliance Technician
Ontario Clean Water Agency – Kawartha-Trent
(705) 760-5968

Attachments

cc: J. Manning, Sr. Operations Manager, OCWA Kawartha-Trent
M. Timmins, Director of Public Works, Township of Minden Hills
A. McCann, Safety, Process & Compliance Manager, OCWA Kawartha-Trent
L. Nicholson, General Manager, OCWA Kawartha-Trent
K. Lorente, Regional Manager, OCWA Kawartha-Trent
C. Biswanger, MECP – Peterborough District Office

Minden STP - Quarterly Bypass Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q3= July, August, September

Did a Bypass occur during this quarter:

Yes☐ No ☑

Condition 4. Bypasses		Event
4.3	a. the type of the Bypass (emergency or planned)	
	b. the date and time of the beginning of the Bypass	
	c. the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and the reason(s) why the Bypass was not avoided.	
4.4	a. the date and time of the end of the Bypass;	
	b. the estimated or measured volume of Bypass.	
4.5	For any Bypass Event, the Owner shall collect daily sample(s) of the Final Effluent, inclusive of the Event and analyze for all effluent parameters outlined in Compliance Limits condition that require composite samples following the same protocol specified in the Monitoring and Recording condition for the regular samples. The sample(s) shall be in addition to the regular Final Effluent samples required under the monitoring and recording condition. If the Event occurs on a scheduled monitoring day, the regular sampling requirements prevail. If representative sample for the effluent parameter(s) that require grab sample cannot be obtained, they shall be collected after the Event at the earliest time when situation returns to normal.	
4.6	. …The summary reports shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5) and either a statement of compliance or a summary of the non-compliance notifications submitted as required under Paragraph 1 of Condition 11. If there is no Bypass Event during a quarter, a statement of no occurrence of Bypass is deemed sufficient.	No occurance of Bypass

Minden STP - Quarterly Overflow Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q3 = July, August, September

Did an Overflow occur during this quarter:

Yes☐ No ☑

Condition 5. Overflow		Event
5.3	a. the type of the Overflow (emergency or planned)	
	b. the date and time of the beginning of the Overflow	
	c. the point of the Overflow from the Works, the treatment process(es) gone through prior to the Overflow, the disinfection status of the Overflow and whether the Overflow is discharged through the effluent disposal facilities or an alternate location;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypasses and the reason(s) why the Overflow was not avoided.	
5.4	a. the date and time of the end of the Overflow;	
	b. the estimated or measured volume of Overflow.	
5.5	a. Overflow event in Sewage Treatment Plant, grab sample(s) of the Overflow, one near the beginning of the Event and one every eight (8) hours for the duration of the Event, and have them analyzed at least for CBOD5, total suspended solids, total phosphorus, total ammonia nitrogen, nitrate as N, nitrite as N, total Kjeldahl nitrogen, E. coli., except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.	
	b. at a sewage pumping station in the collection system, at least one (1) grab sample representative of the Overflow Event and have it analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen	
5.6	…The summary report shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5). If there is no Overflow Event during a quarter, a statement of no occurrence of Overflow is deemed sufficient.	No Occurrence of Overflow.

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Box 279
Bobcaygeon, ON
K0M 1A0

January 29, 2026

Courtney Redmond, District Manager
Peterborough District Office
Ministry of Environment, Conservation and Parks
300 Water Street South, 2nd Floor, South Tower
Peterborough ON K9J 3C7

Dear Courtney Redmond:

Re: Minden STP Q4 2025 Bypass and Overflow Event Report

Amended Environmental Compliance Approval #5475-BPYLDH Conditions 4 and 5 issued October 2, 2020, for the Minden STP require Bypass and Overflow quarterly reports be submitted to the District Manager. These reports are to be submitted no later than February 15, May 15, August 15, and November 15 each year for Events that occurred during the preceding quarter.

No Bypass or Overflow Events occurred at the Minden STP during the fourth quarter of 2025 – reports are attached.

Please contact me if you have any questions or comments.

Best regards,

Christine Craig
Process & Compliance Technician
Ontario Clean Water Agency
(705) 731-9579

Attachments

cc: J. Manning, Sr. Operations Manager, OCWA Kawartha-Trent
M. Timmins, Director of Public Works, Township of Minden Hills
A. McCann, Safety, Process & Compliance Manager, OCWA Kawartha-Trent
L. Nicholson, General Manager, OCWA Kawartha-Trent
K. Lorente, Regional Manager, OCWA Kawartha-Trent
C. Biswanger, MECP – Peterborough District Office

Minden STP - Quarterly Bypass Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q4= October, November, December

Did a Bypass occur during this quarter:

Yes☐ No ☑

Condition 4. Bypasses		Event
4.3	a. the type of the Bypass (emergency or planned)	
	b. the date and time of the beginning of the Bypass	
	c. the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and the reason(s) why the Bypass was not avoided.	
4.4	a. the date and time of the end of the Bypass;	
	b. the estimated or measured volume of Bypass.	
4.5	For any Bypass Event, the Owner shall collect daily sample(s) of the Final Effluent, inclusive of the Event and analyze for all effluent parameters outlined in Compliance Limits condition that require composite samples following the same protocol specified in the Monitoring and Recording condition for the regular samples. The sample(s) shall be in addition to the regular Final Effluent samples required under the monitoring and recording condition. If the Event occurs on a scheduled monitoring day, the regular sampling requirements prevail. If representative sample for the effluent parameter(s) that require grab sample cannot be obtained, they shall be collected after the Event at the earliest time when situation returns to normal.	
4.6	. …The summary reports shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5) and either a statement of compliance or a summary of the non-compliance notifications submitted as required under Paragraph 1 of Condition 11. If there is no Bypass Event during a quarter, a statement of no occurrence of Bypass is deemed sufficient.	No occurance of Bypass

Minden STP - Quarterly Overflow Report

Environmental Compliance Approval #5475-BPYLDH

Year: 2025

Q4 = October, November, December

Did an Overflow occur during this quarter:

Yes☐ No ☑

Condition 5. Overflow		Event
5.3	a. the type of the Overflow (emergency or planned)	
	b. the date and time of the beginning of the Overflow	
	c. the point of the Overflow from the Works, the treatment process(es) gone through prior to the Overflow, the disinfection status of the Overflow and whether the Overflow is discharged through the effluent disposal facilities or an alternate location;	
	d. the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypasses and the reason(s) why the Overflow was not avoided.	
5.4	a. the date and time of the end of the Overflow;	
	b. the estimated or measured volume of Overflow.	
5.5	a. Overflow event in Sewage Treatment Plant, grab sample(s) of the Overflow, one near the beginning of the Event and one every eight (8) hours for the duration of the Event, and have them analyzed at least for CBOD5, total suspended solids, total phosphorus, total ammonia nitrogen, nitrate as N, nitrite as N, total Kjeldahl nitrogen, E. coli., except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.	
	b. at a sewage pumping station in the collection system, at least one (1) grab sample representative of the Overflow Event and have it analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen	
5.6	…The summary report shall contain, at a minimum, the types of information set out in Paragraphs (3), (4) and (5). If there is no Overflow Event during a quarter, a statement of no occurrence of Overflow is deemed sufficient.	No Occurrence of Overflow.

Appendix VI

Notice of Modification CAWT Fleming College Update

centre for advancement of water and wastewater technologies

FLEMING

Minden Testing Facility – 2026 Update

The Minden Testing Facility continues to play a critical role in supporting the advancement and certification of onsite wastewater treatment technologies in Ontario. As one of the only facilities in Canada capable of supporting testing aligned with CAN/BNQ 3680-600 standards, the site remains an important resource for industry partners seeking to bring technologies to market.

Over the past year, Fleming College's Centre for Advancement of Water and Wastewater Technologies (CAWT) successfully completed its first CAN/BNQ 3680-600 certification, representing a significant milestone for both the facility and the broader sector. This achievement demonstrates the site's ability to support full-scale certification testing and reinforces its position as a key component of Ontario's wastewater innovation ecosystem.

In addition, the CAWT initiated two NSF/ANSI 40 certification projects, both of which are currently underway and anticipated to be completed in April 2026. These projects further demonstrate the continued demand for certification testing and the ability of the Minden facility to support multiple concurrent, full-scale projects.

The facility is currently operating at full capacity, with all plots occupied by active industry partners and a growing waitlist for future projects. This sustained demand highlights both the importance of the site and the ongoing need for accessible, real-world testing and certification infrastructure in Ontario.

From a regulatory perspective, the Environmental Compliance Approval (ECA) with Limited Operational Flexibility (LOF) was successfully renewed in November 2024, with the next renewal scheduled for October 2026. This ensures continued operation of the site under approved conditions.

In addition, the continued success of the Minden Testing Facility is supported through strong collaboration with the Township of Minden Hills and the Ontario Clean Water Agency (OCWA). This partnership has been critical in enabling the operation of a unique testing environment within an active municipal system, while ensuring alignment with regulatory and operational requirements. The ongoing support and coordination between all parties has allowed the CAWT to safely and effectively deliver applied research and certification projects that benefit both industry and the broader community.

Looking ahead, the CAWT will continue to focus on supporting certification and applied research projects while maintaining safe and efficient operations. The ongoing utilization of the site, combined with increasing industry interest, reinforces the need for continued investment in infrastructure and capacity to support innovation in the wastewater sector, while reinforcing the Township's role in supporting innovation.

Appendix VII

Sampling Calendar

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

January 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40				**1** **Stat Holiday New Year's Day**	**2**	**3**
4	**5**	**6** ☐ Weekly ☐ Monthly	**7**	**8**	**9**	**10**
11	**12**	**13** ☐ Weekly	**14**	**15**	**16**	**17**
18	**19**	**20** ☐ Weekly	**21**	**22**	**23**	**24**
25	**26**	**27** ☐ Weekly	**28**	**29**	**30**	**31**

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

February 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40						
1	**2**	**3** ☐ Weekly ☐ Monthly	**4**	**5**	**6**	**7**
8	**9**	**10** ☐ Weekly	**11**	**12**	**13**	**14**
15	**16** **Stat Holiday Family Day**	**17**	**18** ☐ Weekly	**19**	**20**	**21**
22	**23**	**24** ☐ Weekly	**25**	**26**	**27**	**28**

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sample Calendar

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Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

March 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40						
1	**2**	**3** ☐ Weekly ☐ Monthly	**4**	**5**	**6**	**7**
8	**9**	**10** ☐ Weekly	**11**	**12**	**13**	**14**
15	**16**	**17** ☐ Weekly	**18**	**19**	**20**	**21**
22	**23**	**24** ☐ Weekly	**25**	**26**	**27**	**28**
29	**30**	**31** ☐ Weekly				

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

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pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

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(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

April 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
			1	**2**	**3** **Stat Holiday Good Friday**	**4**
5	**6** **Stat Holiday Easter Monday**	**7**	**8** ☐ Weekly ☐ Monthly	**9**	**10**	**11**
12	**13**	**14** ☐ Weekly	**15**	**16**	**17**	**18**
19	**20**	**21** ☐ Weekly	**22**	**23**	**24**	**25**
26	**27**	**28** ☐ Weekly	**29**	**30**	Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40	

Ontario Clean Water Agency
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Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

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Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

May 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40					**1**	**2**
3	**4**	**5** ☐ Weekly ☐ Monthly	**6**	**7**	**8**	**9**
10	**11**	**12** ☐ Weekly	**13**	**14**	**15**	**16**
17	**18** **Stat Holiday Victoria Day**	**19**	**20** ☐ Weekly	**21**	**22**	**23**
24	**25**	**26** ☐ Weekly	**27**	**28**	**29**	**30**
31						

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

June 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
	1	**2** ☐ Weekly ☐ Monthly	**3**	**4**	**5**	**6**
7	**8**	**9** ☐ Weekly	**10**	**11**	**12**	**13**
14	**15**	**16** ☐ Weekly	**17**	**18**	**19**	**20**
21	**22**	**23** ☐ Weekly	**24**	**25**	**26**	**27**
28	**29**	**30** ☐ Weekly	Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40			

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

July 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40			**1** **Stat Holiday Canada Day**	**2**	**3**	**4**
5	**6**	**7** ☐ Weekly ☐ Monthly	**8**	**9**	**10**	**11**
12	**13**	**14** ☐ Weekly	**15**	**16**	**17**	**18**
19	**20**	**21** ☐ Weekly	**22**	**23**	**24**	**25**
26	**27**	**28** ☐ Weekly	**29**	**30**	**31**	

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

August 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40						**1**
2	**3** **Stat Holiday Civic Day**	**4**	**5** ☐ Weekly ☐ Monthly	**6**	**7**	**8**
9	**10**	**11** ☐ Weekly	**12**	**13**	**14**	**15**
16	**17**	**18** ☐ Weekly	**19**	**20**	**21**	**22**
23	**24**	**25** ☐ Weekly	**26**	**27**	**28**	**29**
30	**31**					

Ontario Clean Water Agency
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Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

September 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
		1 ☐ Weekly ☐ Monthly	**2**	**3**	**4**	**5**
6	**7** **Stat Holiday Labour Day**	**8**	**9** ☐ Weekly	**10**	**11**	**12**
13	**14**	**15** ☐ Weekly	**16**	**17**	**18**	**19**
20	**21**	**22** ☐ Weekly	**23**	**24**	**25**	**26**
27	**28**	**29** ☐ Weekly	**30** **Stat Holiday T&R**		Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40	

Ontario Clean Water Agency
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Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

October 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40				**1**	**2**	**3**
4	**5**	**6** ☐ Weekly ☐ Monthly	**7**	**8**	**9**	**10**
11	**12** **Stat Holiday** **Thanksgiving Day**	**13**	**14** ☐ Weekly	**15**	**16**	**17**
18	**19**	**20** ☐ Weekly	**21**	**22**	**23**	**24**
25	**26**	**27** ☐ Weekly	**28**	**29**	**30**	**31**

Ontario Clean Water Agency
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Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

November 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40						
1	**2**	**3** ☐ Weekly ☐ Monthly	**4**	**5**	**6**	**7**
8	**9**	**10** ☐ Weekly	**11** **Stat Holiday Remembrance Day**	**12**	**13**	**14**
15	**16**	**17** ☐ Weekly	**18**	**19**	**20**	**21**
22	**23**	**24** ☐ Weekly	**25**	**26**	**27**	**28**
29	**30**					

Ontario Clean Water Agency
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Sample Calendar

MINDEN WPCP – org 5839 – works # 110002390

Samples must be collected on the day indicated on Calendar. If day has to be switched (i.e. composite sampler failed), the reason must be noted in the logbook and an email sent to the ORO, PCT and Sr. Ops Manager.

Weekly: Final composite – CBOD, TSS, Total Phos, Total Ammonia Nitrogen (TAN), TKN, Nitrate, Nitrite, Un-ionized Ammonia
Final grab - E.coli
pH & temperature to be collected with final effluent composite to calculate un-ionized ammonia
Dissolved Oxygen

Monthly: Raw composite – BOD, TSS, Total Phos, TKN
Federal Wastewater Systems Effluent Regulations
Final Effluent – CBOD, TSS, Total Residual Chlorine (TRC only if bypass occurs)

Quarterly: Sludge grab – TS, Total Phos, TAN, Nitrate, E. Coli, metals scan – As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn & E.coli
(note: regulatory requirement is quarterly, may collect monthly for operational purposes)

DAILY ONLY DURING A BYPASS - Final Effluent: Daily DO & Daily Total Residual Chlorine

OPERATOR SIGN-OFF: _____ DATE: _____
(all collection and submission complete as per ECA, Federal Reg's etc. + any special requirements)

December 2026

Sun	*Mon*	*Tue*	*Wed*	*Thu*	*Fri*	*Sat*
		1 ☐ Weekly ☐ Monthly	**2**	**3**	**4** *Please review SGS's Holiday schedule prior to sampling	**5**
6	**7**	**8** ☐ Weekly	**9**	**10**	**11**	**12**
13	**14**	**15** ☐ Weekly	**16**	**17**	**18**	**19**
20	**21**	**22** ☐ Weekly	**23**	**24**	**25** **Stat Holiday Christmas Day**	**26**
27	**28** **Stat Holiday Boxing Day**	**29**	**30** ☐ Weekly	**31**	Sample Collection Time Frames (Days) Weekly >5 & <10 Monthly >20 & <40	