

# **Omemee Wastewater System 2025 Annual Wastewater Performance Report**

Wastewater System Works Number: 110001630

Wastewater System Operating Authorities: City of Kawartha Lakes and Ontario  
Clean Water Agency

Reporting Period: January 1<sup>st</sup> – December 31<sup>st</sup>, 2025



**Annual Wastewater Performance  
Report**

City of Kawartha Lakes

Kawartha Lakes  
**Jump In**



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# 2025 Annual Wastewater System Performance Report

## Executive Summary

The Omemee Sewage Lagoons is a dual lagoon system with a rated capacity of 1,353 m<sup>3</sup>/day and is located in Omemee, Ontario. The system provides treatment through facultative lagoons with effluent discharged to a large subsurface disposal system (LSSDS), with additional seasonal disposal through spray irrigation. The facility is owned by the City of Kawartha Lakes, the lagoon system and sewage pumping stations operated by the Ontario Clean Water Agency, and the remaining collection system operated by City staff.

The treatment system is operated in accordance with Environmental Compliance Approval (ECA) #2737-B4DH46 issued September 28, 2018, and Environmental Compliance Approval (ECA) #3789-DGWKKV issued September 23, 2025. The wastewater collection system operates in accordance with Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) #141-W601 issued May 2, 2025. In accordance with Ontario Regulation 129/04, the Omemee Sewage Works is classified as a Class I Wastewater Treatment Subsystem and a Class I Wastewater Collection Subsystem.

The treatment system consists of two facultative lagoons with a combined surface area of approximately 3.6 hectares and an approximate storage volume of 178,000 m<sup>3</sup>. Influent enters the system via a forcemain on Beaver Road and passes through a drop manhole located at the east end of the lagoons. Wastewater is directed to the north lagoon for initial treatment and subsequently flows to the south lagoon for final treatment. Treatment effluent is discharged to the large subsurface disposal system, with the capability for seasonal discharge through a spray irrigation system.

The Omemee wastewater collection system consists of a network of gravity sewers, two pumping stations, and associated forcemains that convey raw sewage to the lagoon system. Alum is added at the Sturgeon Street sewage pumping station to assist with solids settling and to reduce phosphorus concentrations in the treated effluent.

The City of Kawartha Lakes and the Ontario Clean Water Agency prepare an annual report summarizing system operation and performance for each municipal wastewater system. This report has been prepared to satisfy the reporting requirements within Environmental Compliance Approval (ECA) #2737-B4DH46, Environmental Compliance Approval (ECA) #3789-DGWKKV and Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) #141-W601. Unless otherwise noted within this report, the Omemee Sewage Works complies with all applicable requirements of the regulating authorities and the approvals under which it operates.

This Annual Performance Report is available to the public on the [City of Kawartha Lakes website](#) and at the Public Works Administration Office located at 322 Kent Street West in Lindsay, Ontario, by appointment. Notification of report availability is provided on the City's website and copies are available free of charge.

## Reporting Requirements – Wastewater Treatment Plant

In accordance with amended Environmental Compliance Approval (ECA) #2737-B4DH46, Section 11(4) – REPORTING, the owner shall prepare a performance report on a calendar basis and submit to the Ministry of Environment, Conservation and Parks by March 31 of the calendar year following the period being reported upon.

### Section 11(4) – REPORTING

The performance report is required to contain the following:

- a) a summary and interpretation of all Influent monitoring data, and a review of the historical trend of sewage characteristics and flow rates;
- b) a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
- c) a summary of any deviation from the monitoring schedule and reasons for the currently reporting year and a schedule for the next reporting year;
- d) a summary of all operating issues encountered and corrective actions;
- e) a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- f) a summary of any effluent quality assurance or control measures undertaken;
- g) a summary of the calibration and maintenance carried out on all Influent and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;
- h) a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:
  - i. when any of the design objectives 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;
- i) an estimate of the volume of sludge in the lagoon cells. Sludge volume is to be measured every five (5) years, but may be estimated in the interim years. A summary of disposal locations and volumes of sludge disposed of must also be provided if sludge was disposed of during the reporting period;
- j) a summary of any complaints received and any steps taken to address the complaints;

- k) a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;
- l) a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification.
- m) a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that 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.

In accordance with the amended Environmental Compliance Approval (ECA) #3789-DGWKKV, Section 11(4) – REPORTING, the owner shall prepare a performance report on a calendar basis and submit to the Ministry of Environment, Conservation and Parks by March 31 of the calendar year following the period being reported upon.

### **Section 11(4) – REPORTING**

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- a) a summary and interpretation of all Influent monitoring data, and a review of the historical trend of sewage characteristics and flow rates;
- b) a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
- c) a summary of any deviation from the monitoring schedule and reasons for the currently reporting year and a schedule for the next reporting year;
- d) a summary of all operating issues encountered and corrective actions;
- e) a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- f) a summary of any effluent quality assurance or control measures undertaken;
- g) a summary of the calibration and maintenance carried out on all Influent and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;
- h) a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:
  - i. when any of the design objectives 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;
- i) an estimate of the volume of sludge in the lagoon cells. Sludge volume is to be measured every five (5) years, but may be estimated in the interim years. A summary of disposal locations and volumes of sludge disposed of must also be provided if sludge was disposed of during the reporting period;

- j) a summary and interpretation of groundwater monitoring data including shallow groundwater flow direction, interpretation of analytical results and comparison with the compliance limit of 2.5 milligrams per litre for Nitrates concentration in accordance with the Reasonable Use Policy;
- k) a review and assessment of the performance of the Works, including all treatment units and subsurface disposal bed;
- l) a record of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of all Works located at the property including but not limited to: records of maintenance inspections for the treatment system, records of visual inspections of all subsurface disposal systems;
- m) a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- n) a summary and interpretation of all daily flow data and results achieved in not exceeding the Maximum Daily Flow discharged into each one of the subsurface disposal system;
- o) a summary of any complaints received and any steps taken to address complaints;
- p) 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;
- q) 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;
- r) 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/Overflow with estimated budget forecast for the year following that for which the report is submitted.

During the reporting period of 2025, the Ontario Clean Water Agency (OCWA) operated the Omemeew Sewage Lagoons on behalf of the Corporation of the City of Kawartha Lakes. 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.

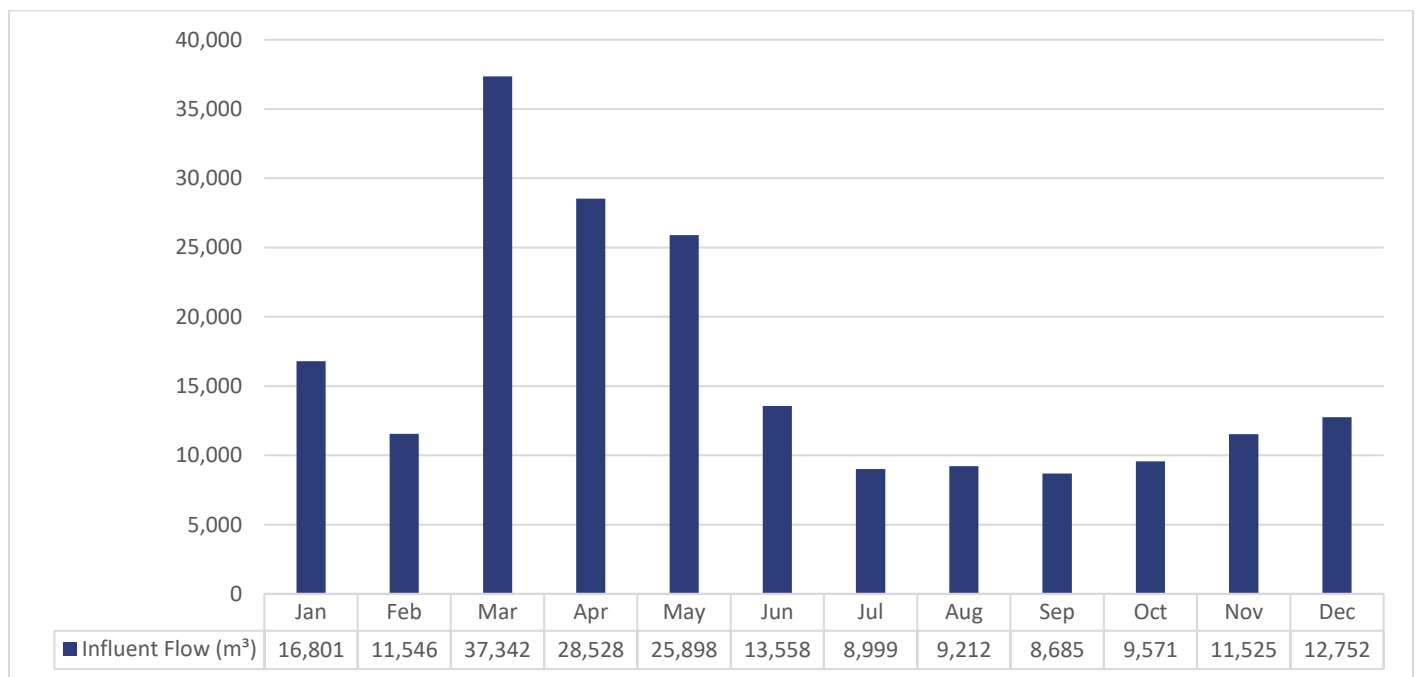
This report will show that the requirements of the facility ECA including effluent monitoring, effluent plume monitoring and reporting requirements were consistently met and that effluent quality was consistently within ECA requirements.

## Summary of Influent Monitoring Data

**(a)** Environmental Compliance Approval (ECA) #2737-B4DH46 and #3789-DGWKKV requires a summary and interpretation of all Influent monitoring data, and a review of the historical trend of the sewage characteristics and flow rates.

The Environmental Compliance Approval requires that everything practicable be undertaken to operate the Sewage Treatment Plant so that the annual average daily influent is within the Rated Capacity. The Rated Capacity of the Omemeew Sewage Lagoon is 1,353 m<sup>3</sup>/day and the 2025 annual average daily influent flow was 532.65 m<sup>3</sup>/day or 39.37% of the Rated Capacity. The total Influent flow in 2025 was 194,417.40 m<sup>3</sup>.

**Graph 1. 2025 Influent Monthly Flow Totals**



**Graph 2. 2025 Influent Daily Minimum, Maximum and Average Flows**

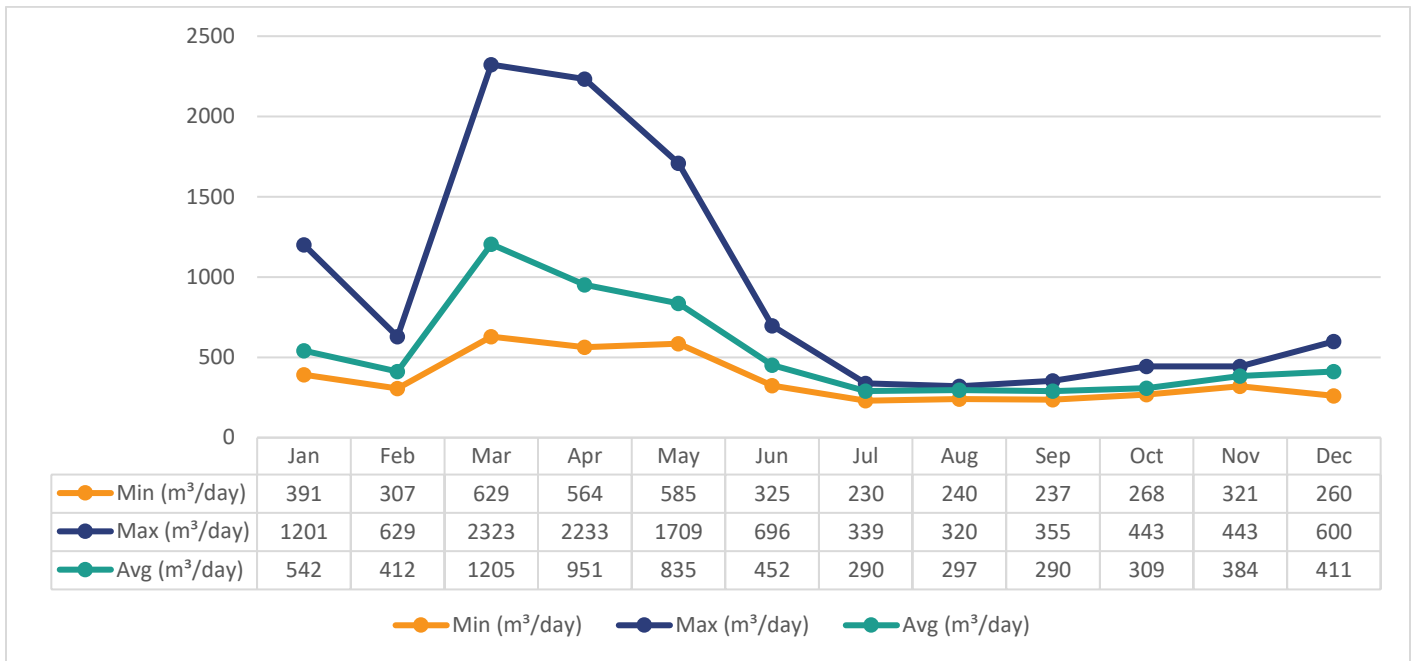
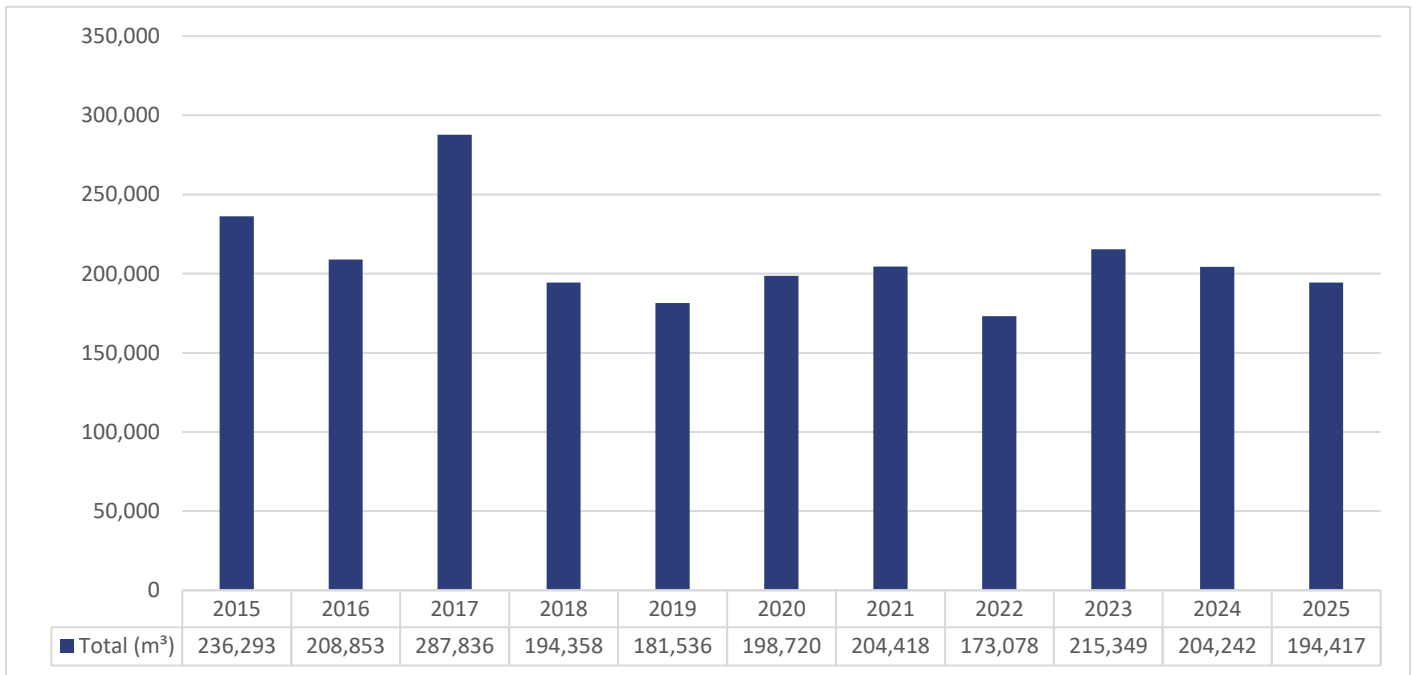


Table 1 reviews the historical trend of the influent sewage characteristics for the Omemee Sewage Lagoon, as required by Environmental Compliance Approval #2737-B4DH46 and #3789-DGWKKV, Condition 10 (4) (a) for the years of 2015 to 2025. Historically, the parameters have been increasing slightly each reporting year. During the reporting period for this report, all of the parameters (BOD, TSS, Phosphorus and TKN) have increased in comparison to 2024.

**Table 1. 2015 – 2025 Historical Average Influent Sewage Characteristics for the Omemee Sewage Lagoon**

	BOD (mg/L)	TSS (mg/L)	Phosphorus (mg/L)	TKN (mg/L)
2015	134.63	133.81	2.42	21.71
2016	187.66	218.58	3.36	28.15
2017	117.08	168.75	2.09	18.15
2018	157.18	267.45	3.49	28.10
2019	117.42	138.92	2.23	21.18
2020	122.42	134.75	2.15	21.53
2021	130.29	195.46	2.94	25.22
2022	167.08	169.33	2.47	24.37
2023	193.17	164.75	2.76	25.13
2024	97.71	117.36	2.00	19.55
2025	158.17	162.17	2.80	23.81

### Graph 3. 2015 – 2025 Historical Influent Flows for the Omeme Sewage Lagoon



Graph 3 shows the historical influent flows for the Omeme Sewage Lagoons from 2015 to 2025. Since 2017, the influent flows have remained consistent. The increased influent flow in 2017 can be attributed to the extremely wet spring season.

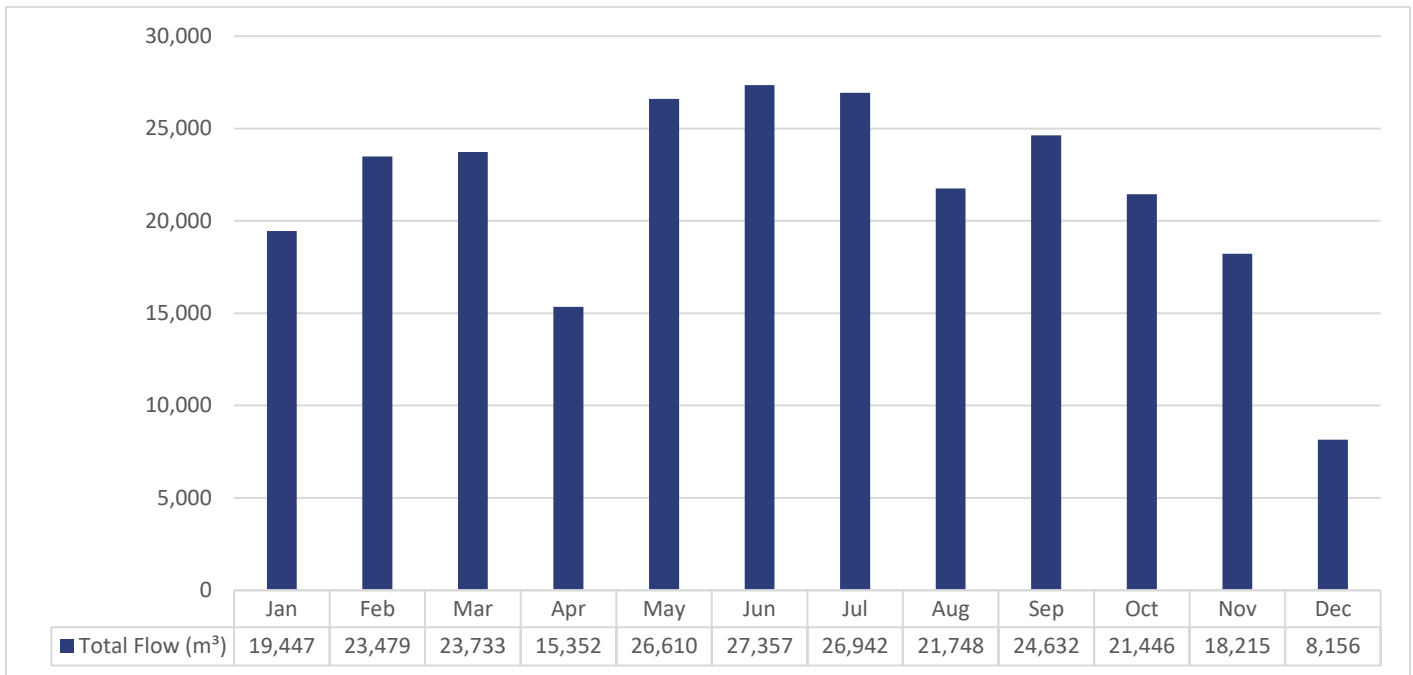
### Summary of Final Effluent Monitoring Data

**(b)** Environmental Compliance Approval (ECA) #2737-B4DH46 and #3789-DGWKKV requires a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rate, loading and a comparison to the design objectives and compliance limits in the Approval, including an overview of the success and adequacy of the Works.

The Performance Assessment Report (PAR) Wastewater/Lagoon is attached in **Appendix I**.

The following graphs provide final effluent flows for 2025 at the Omeme Sewage Lagoon. Final effluent is directed to the subsurface sewage disposal system, and in addition may be directed to the spray irrigation system if required, but typically only during the warmer months, when all conditions are met. During the reporting period, final effluent was only directed to the subsurface sewage disposal system. The spray irrigation system was not used in 2025.

**Graph 4. 2025 Effluent Monthly Flow Totals**



**Graph 5. 2025 Effluent Daily Minimum, Maximum and Average Flows**

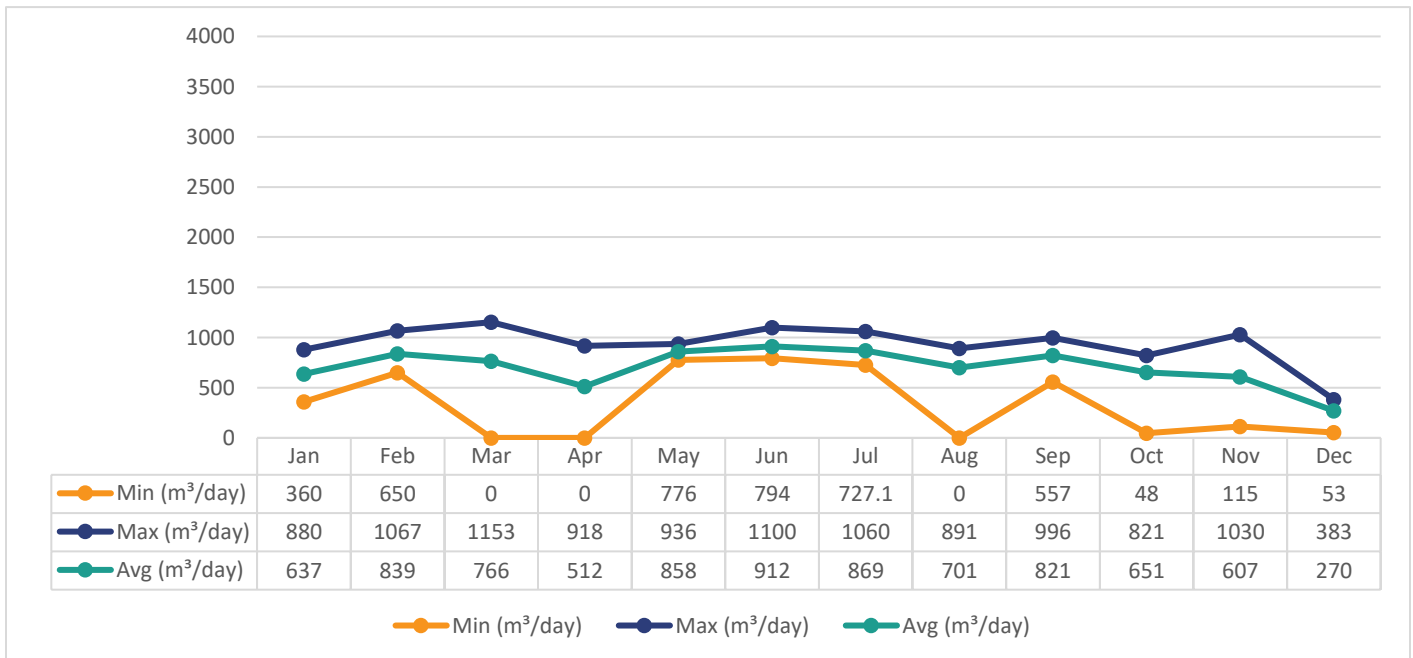


Table 2 outlines the effluent criteria limits set out in Section 7(1), Schedule C of Environmental Compliance Approval (ECA) #2737-B4DH46 and Schedule C of Environmental Compliance Approval (ECA) #3789-DGWKKV as follows:

**Table 2. Omemee Sewage Lagoon – Final Effluent Compliance Limits 2025**

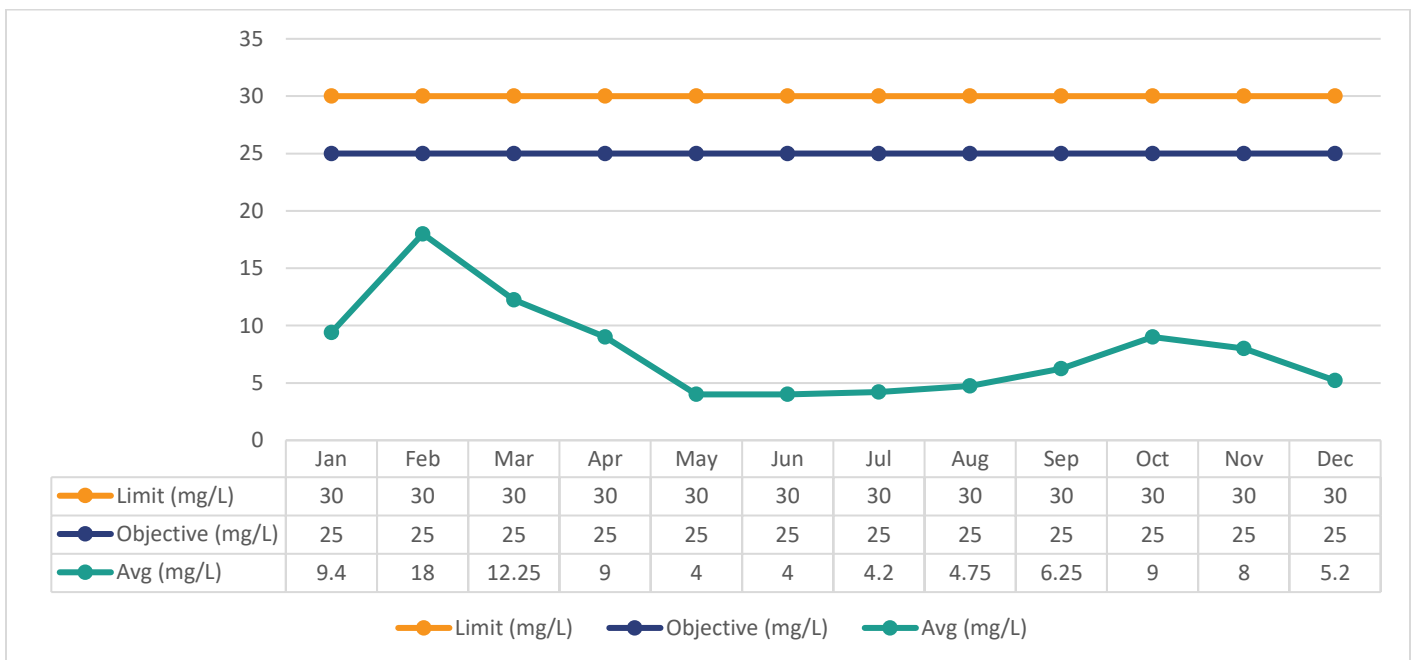
Effluent Parameter	Average Effluent Concentration Limit (mg/L)	Actual Monthly Average Effluent Concentration (mg/L)	Compliant Y/N
CBOD <sub>5</sub>	30.0	7.70	Y
Total Suspended Solids	40.0	9.75	Y
Total Phosphorus	1.0	0.43	Y

Overall, during the reporting period of 2025, the Omemee Sewage Lagoon final effluent generally met the compliance requirements as prescribed in the Environmental Compliance Approval (ECA) #2737-B4DH46 and Environmental Compliance Approval (ECA) #3789-DGWKKV.

***Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>)***

ECA #2737-B4DH46 (issued September 28, 2018) and ECA #3789-DGWKKV (issued September 23, 2025) set the CBOD<sub>5</sub> monthly average concentration limit at 30.0 mg/L and the monthly average concentration objective at 25.0 mg/L. For 2025, the CBOD<sub>5</sub> monthly average concentration was 7.70 mg/L.

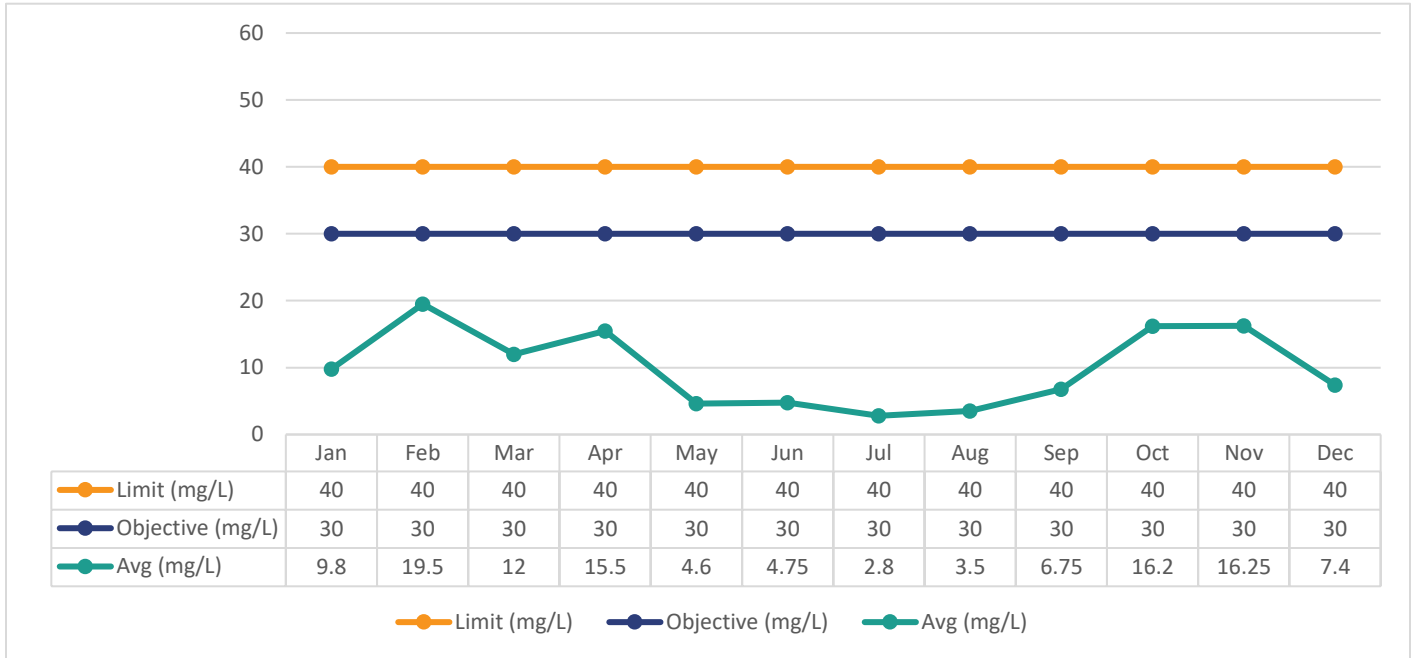
**Graph 6. 2025 Monthly CBOD<sub>5</sub> Final Effluent Concentration Comparisons**



### **Total Suspended Solids (TSS)**

ECA #2737-B4DH46 and ECA #3789-DGWKKV set the Total Suspended Solids (TSS) monthly average concentration limit at 40.0 mg/L and the monthly average concentration objective at 30.0 mg/L. For 2025, the TSS monthly average concentration was 9.75 mg/L.

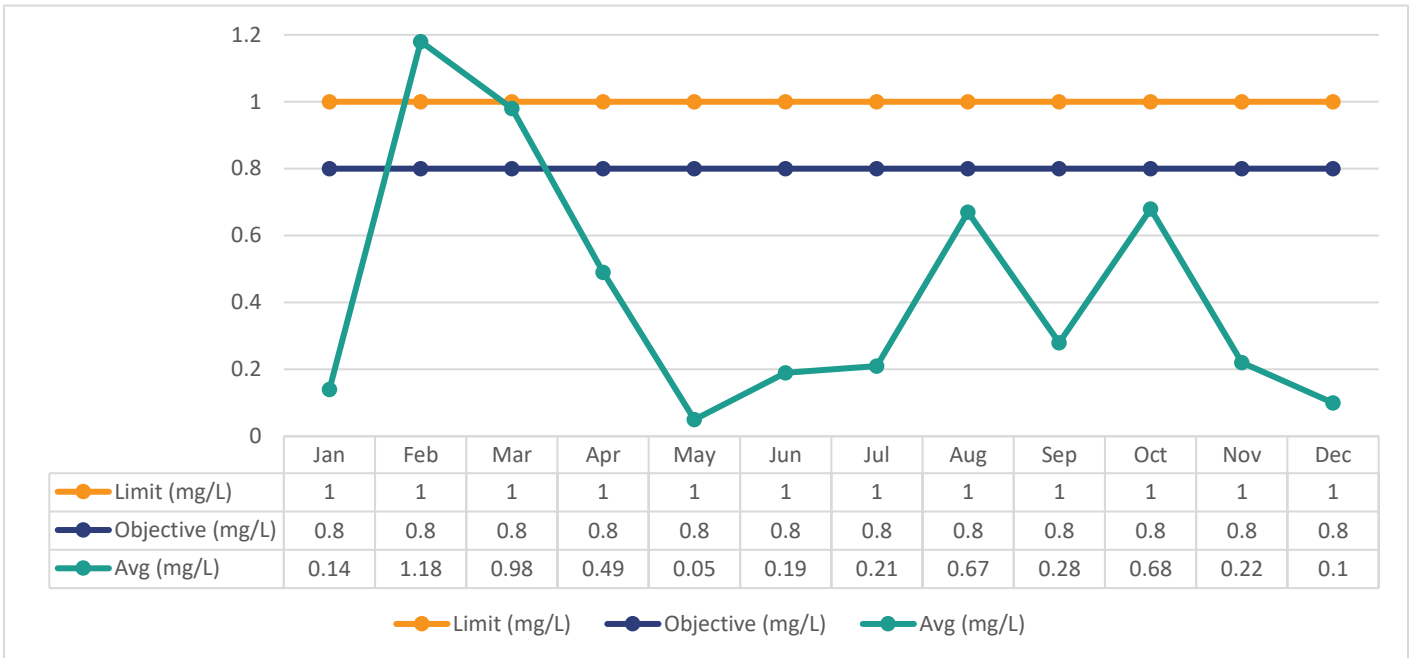
**Graph 7. 2025 Monthly TSS Final Effluent Concentration Comparisons**



### **Total Phosphorus (TP)**

ECA #2737-B4DH46 and ECA #3789-DGWKKV set the Total Phosphorus annual average concentration limit at 1.0 mg/L and the annual average concentration objective at 0.8 mg/L. For 2025, the Total Phosphorus annual average concentration was 0.43 mg/L.

**Graph 8. 2025 Annual Total Phosphorus Final Effluent Concentration Comparisons**

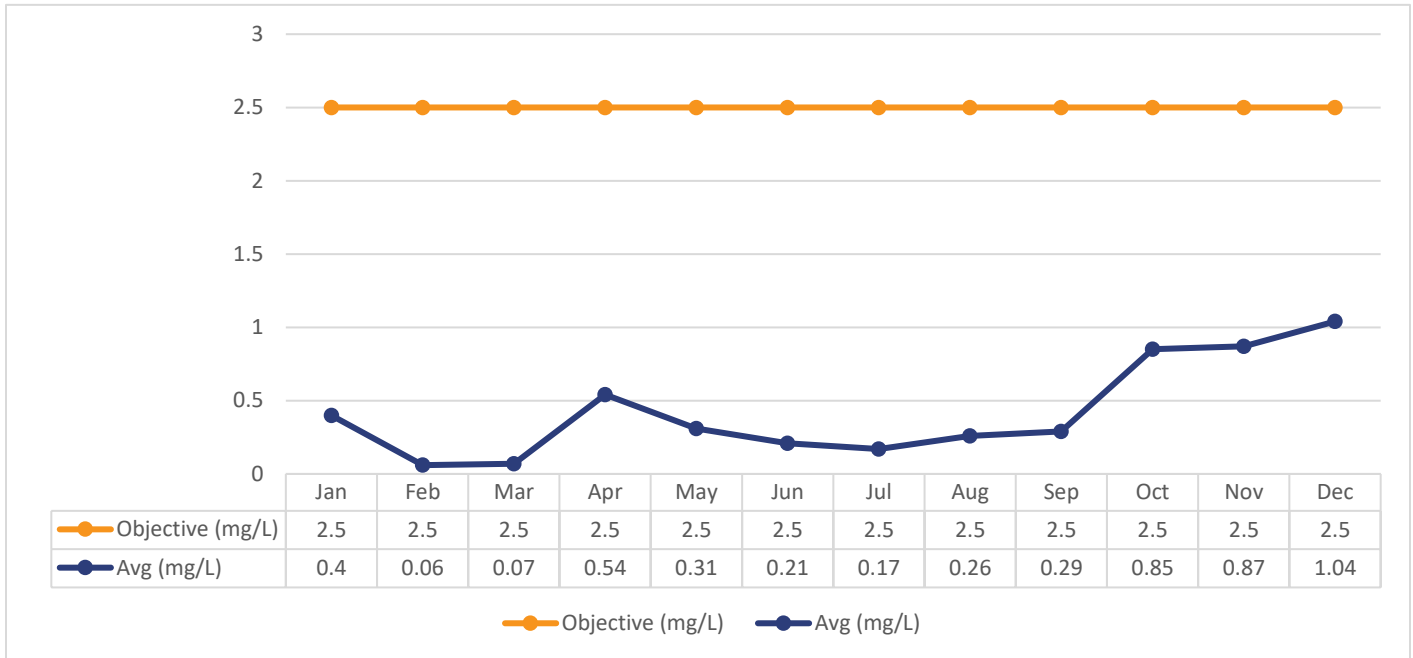


**Note:** The Total Phosphorus result for February 2025 was higher due to prolonged colder temperatures and lower water level in the South Cell of the Omeme Sewage Lagoons.

**Additional Parameter**  
***Nitrite and Nitrate as Nitrogen***

ECA #2737-B4DH46 set the Nitrite and Nitrate as Nitrogen monthly average concentration objective at 2.5 mg/L. For 2025, the Nitrite and Nitrate as Nitrogen monthly average concentration was 0.43 mg/L.

## Graph 9. 2025 Monthly Nitrite and Nitrate as Nitrogen Final Effluent Concentration Comparison



## Monitoring Schedule Deviations

(c) a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting period.

The 2025 Omemee Sewage Lagoon Sampling Calendar was established and the sample day was Thursday. There was four (4) deviation from the sample plan during the reporting period.

**Table 3. Deviations from Sample Plan in 2025**

Sample Date	Deviation	Alternate Sample Date
Oct. 23, 2025	Sampled one day early	Oct. 22, 2025
Dec. 4, 2025	Sampled one day later	Dec. 5, 2025
Dec. 25, 2025	Stat Holiday – Christmas Day	Dec. 24, 2025
Dec. 31, 2025	Prior to Stat Holiday – New Year’s	Dec. 30, 2025

The sample plan for 2026 has been established and the sample day is on Friday. A copy of the 2026 Omemee Sewage Lagoon Sampling Calendar is included in **Appendix II**.

## Operational Challenges and Corrective Actions

(d) 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 4. 2025 Omemee Sewage Lagoon Operational Challenges**

Month	Challenges	Corrective Actions
March/April 2025	Prolonged ice storm in area, utility power outages, trees down, etc.	Ensure generator fuel levels kept topped up during outage, during recovery phase remove damaged trees
January to November 2025	Effluent pump 2 offline	Replace effluent pump 2 motor

## Maintenance Summary

(e) a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works.

OCWA uses a Work Maintenance System (WMS). 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 preventative 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 III: WMS Work Order Summary**

## Effluent Quality Assurance and Control Measures

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

Effluent quality assurance is maintained in several ways. All final effluent samples collected during the reporting period to meet ECA sampling requirements were submitted to SGS Canada Inc. – Lakefield laboratory for analysis. SGS Canada Inc. – Lakefield has been deemed accredited by the Canadian Association for Laboratory Accreditation (CALA), meeting strict provincial guidelines including an extensive quality assurance/quality control program. By choosing this laboratory, the Ontario Clean Water Agency is ensuring appropriate control measures are undertaken during

sample analysis. Sampling calendars issued to the operators denote frequency of sampling and these calendars are submitted to the Process Compliance Technician at the end of each month. Raw and effluent samples are collected as per the Environmental Compliance Approval and the results are reviewed on a regular basis to ensure compliance with the site's objectives and limits.

## Calibrations

**(g)** 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 the equipment as required in this Approval or recommended by the manufacturer.

Calibration on influent and effluent monitoring equipment were performed by Franklin Empire on November 6, 2025 for equipment located at the Sewage Lagoon and the Sewage Pumping Stations. Refer to **Appendix IV: Calibration Report**.

## Best Efforts to Achieve Design Objectives of Condition 6

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

- i. when any of the design objectives 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;

Continuous efforts made to meet the Effluent Objectives at the Omemee Sewage Lagoon in 2025 include:

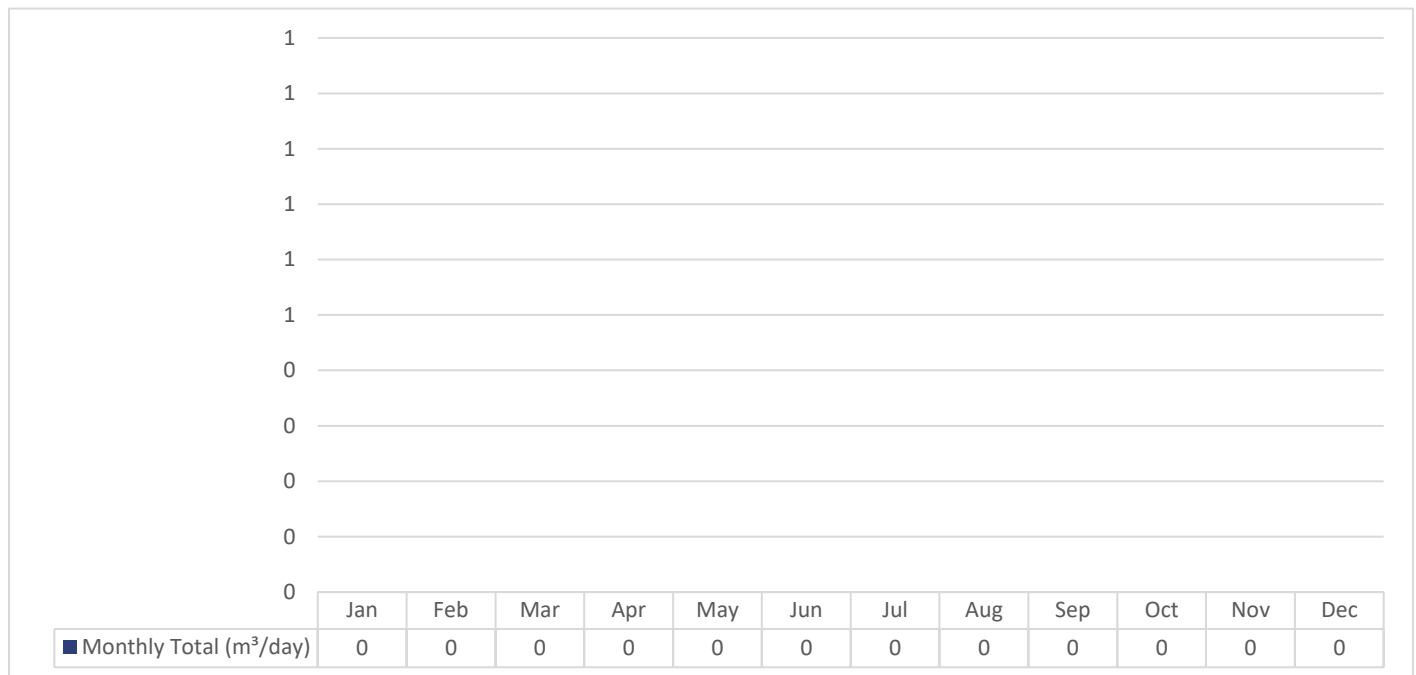
- Sampling effluent as per the ECA;
- Visual inspection of the effluent while performing rounds and sampling;
- Inspection of lagoon berms;
- Inspection of subsurface disposal areas;
- Ensuring that Alum is being dosed;
- Annual calibration of the flow meters;
- Performing preventative maintenance activities in accordance with work order schedules;
- Monitoring treatment processes through review of lab results;
- Inspection of sewage pumping stations;
- Visual inspection of wet wells;
- Inspection of spray irrigation system and fields;
- Inspection of monitoring wells.

## Additional Reporting Requirements:

The spray irrigation system was under the authority of Provincial Officer’s Order 1-676860750-A2 issued on November 18, 2024. Environmental Compliance Approval (ECA) #2737-B4DH46 does not require any information pertaining to the spray irrigation be included in the Omemee Sewage Lagoon annual performance report. ECA #3789-DGWKKV does not directly indicate if any information pertaining to the spray irrigation be included in the Omemee Sewage Lagoon annual performance report.

The spray irrigation system was not in operation in 2025.

### Graph 10. 2025 Monthly Effluent Flow to Spray Irrigation System



## Groundwater Monitoring Program

During the reporting period, ECA #2737-B4DH46, stipulates that from the two (2) groundwater monitoring wells down-gradient of the subsurface disposal system samples shall be collected at the frequency specified, by the means of the specified sample type and analyzed for each parameter outlined in Schedule D. Each monitoring well was sampled or an attempt made where the well was found to be dry, in Quarter 1, 2, 3 and 4 of 2025. Please see attached **Appendix V: Monitoring Wells**, which provides the results of the two groundwater monitoring wells.

During the reporting period, ECA #3789-DGWKKV, stipulates that nine (9) groundwater monitoring wells, samples shall be collected at the frequency specified, by the means of the specific sample type and analyzed for each parameter outlined in Schedule D. Each monitoring well was sampled

or an attempt made where the well was found to be dry, in the Fall sampling period of 2025. Please see attached **Appendix V: Monitoring Wells**, which provide the results of the nine groundwater monitoring wells.

It was identified that two (2) monitoring wells did not meet the compliance limit of TIN (Tan+nitrite+nitrate) for the Fall 2025 sampling period. Notification was made to the District MECP Office on February 13, 2026. The TIN compliance limit as identified in Environmental Compliance Approval (ECA) #3789-DGWKKV, is 2.5 mg/L. Monitoring well (MW) 4 was 3.3 mg/L and MW 105B was 17.4 mg/L.

Additionally, as per Provincial Officer’s Order 1-676860750-A2 issued on November 18, 2024, seventeen (17) groundwater monitoring wells were identified to be sampled on a bi-annual basis, and analyzed for each parameter identified in the Order. Please see attached **Appendix V: Monitoring Wells**, which provides the results of these groundwater monitoring wells.

It was identified in June 2025, that the required parameter of Ammonia Nitrogen was missed during the Fall 2024 and Spring 2025 sample periods. Another round of sampling was completed to include Ammonia Nitrogen.

**Sewage Pumping Station (SPS) Capacity Assessment:**

The Church St. SPS rated capacity is 64 L/s which equals 5,530 m<sup>3</sup>/day. The maximum influent daily flow in 2025 was 1,000 m<sup>3</sup>, which does not exceed the SPS rated capacity.

**Table 5. 2025 Influent Flows at Church St. SPS**

Month	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
January	342	150
February	127	103
March	1,000	357
April	709	256
May	347	218
June	195	123
July	85	69
August	124	70
September	134	76
October	91	73
November	122	97
December	430	130

The Sturgeon St. SPS was upgraded under Environmental Compliance Approval #6602-8X8FXB and the rated capacity is 122 L/s which equals 10,500 m<sup>3</sup>/day. The maximum influent daily flow in 2025 was 2,323 m<sup>3</sup>, which does not exceed the raw rated capacity.

**Table 6. 2025 Influent Flows at Sturgeon St. SPS**

Month	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
January	1201	542
February	629	412
March	2323	1205
April	2233	951
May	1709	835
June	696	452
July	339	290
August	320	297
September	355	290
October	443	309
November	443	384
December	600	411

## Sludge

(i) an estimate of the volume of sludge in the lagoon cells. Sludge volume is to be measured every five (5) years, but may be estimated in the interim years. A summary of disposal locations and volumes of sludge disposed of must also be provided if sludge was disposed of during the reporting period. Please see attached **Appendix VI: Sludge Survey**, which provides the results of the sludge survey completed in 2025.

The estimated volume of sludge in the lagoon cells in 2025 was 6,699 m<sup>3</sup>. During the reporting period, no sludge was disposed of from the Omemeew Sewage Lagoon.

## Complaints

(j) A summary of any complaints received and any steps taken to address the complaints.

**Table 7. 2025 Complaints Received**

Date	Issue	Actions Taken
March 31, 2025	Possible sewer back-up	Assist system Owner and report spill to Ministry

## By-pass, Spill or Abnormal Discharge Events

**(k)** A summary of By-pass, Spill or Abnormal Discharge Events

### **Bypasses**

There were not any bypasses at the Omemee Sewage Lagoons during 2025.

### **Spills**

There was one spill within the sewage collection system at the Omemee Sewage Lagoon in 2025. The spill was identified on March 31, 2025 by staff responding to the address of 20 Mary Street West in Omemee, when the homeowner reported a sewage back-up in basement and was pumping basement contents to near-by ditch. Approximately 15 m<sup>3</sup> was pumped from 18:00 to 19:20. No further actions were taken.

### **Overflows**

There were not any overflows at the Omemee Sewage Lagoons or pumping stations in 2025.

### **Situations Outside Normal Operating Conditions**

There were no situation outside normal operating conditions at the Omemee Sewage Lagoons or pumping stations in 2025.

### **Abnormal Discharge Events**

There were not any abnormal discharge events at the Omemee Sewage Lagoons in 2025.

Refer to **Appendix VII: Bypasses, Overflows, Spills or Abnormal Events** for copies of the quarterly Bypass and Overflow reports, and Notice of Exceedance submitted to the Ministry of Environment, Conservation and Parks.

## Notice of Modifications to Sewage Works

**(l)** There were not any Notices of Modifications to Sewage Works initiated, worked on or completed in 2025.

## Conformance with Procedure F-5-1

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

During the 2025 reporting period there were no incidents of a bypass or overflow within the sanitary sewer system.

The City of Kawartha Lakes continues to work on a Master Servicing Study and Capacity Assessment for all facilities analyzing existing capacity and future growth requirements. Sanitary sewer flushing is conducted on an annual basis (3 years of dead ends/trouble areas and 4<sup>th</sup> year is a full system flush). During this program, any manholes with infiltration issues are identified and are included in operational maintenance contracts for grouting, frame and cover replacements, etc.

There was no rehabilitation work that was completed in the system in 2025.

## Reporting Requirements – ECA 3789-DGWKKV

**(j)** a summary and interpretation of groundwater monitoring data including shallow groundwater flow direction, interpretation of analytical results and comparison with the compliance limit of 2.5 milligrams per litre for Nitrates concentration in accordance with the Reasonable Use Policy;

During the reporting period, ECA #3789-DGWKKV, stipulates that nine (9) groundwater monitoring wells, samples shall be collected at the frequency specified, by the means of the specific sample type and analyzed for each parameter outlined in Schedule D. Each monitoring well was sampled or an attempt made where the well was found to be dry, in the Fall sampling period of 2025. Please see attached **Appendix V: Monitoring Wells**, which provide the results of the nine groundwater monitoring wells.

It was identified that two (2) monitoring wells did not meet the compliance limit of TIN (Tan+nitrite+nitrate) for the Fall 2025 sampling period. Notification was made to the District MECP Office on February 13, 2026. The TIN compliance limit as identified in Environmental Compliance Approval (ECA) #3789-DGWKKV, is 2.5 mg/L. Monitoring well (MW) 4 was 3.3 mg/L and MW 105B was 17.4 mg/L.

A report by Azimuth Environmental titled "2025 Trend Analysis Report Update, Omemee Lagoon System, 267 Beaver Valley Road, Omemee, ON" will be provided separately to fulfil this reporting requirement.

**(n)** a summary and interpretation of all daily flow data and results achieved in not exceeding the Maximum Daily Flow discharged into each one of the subsurface disposal system. At the Omemee Sewage Lagoons, there is one subsurface disposal system, divided into 4 zones.

**Table 8. 2025 Effluent Flow to Subsurface Disposal System – Zone 1**

Month	Rated Capacity (m <sup>3</sup> /day)	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
January	1,353	380	318
February	1,353	476	373
March	1,353	450	351
April	1,353	414	290
May	1,353	412	371
June	1,353	467	395
July	1,353	471	374
August	1,353	413	314
September	1,353	447	374
October	1,353	380	362
November	1,353	396	268
December	1,353	381	103

**Table 9. 2025 Effluent Flow to Subsurface Disposal System – Zone 2**

Month	Rated Capacity (m <sup>3</sup> /day)	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
January	1,353	332	129
February	1,353	53	2
March	1,353	0	0
April	1,353	0	0
May	1,353	0	0
June	1,353	0	0
July	1,353	0	0
August	1,353	0	0
September	1,353	0	0
October	1,353	0	0
November	1,353	221	154
December	1,353	147	66

**Table 10. 2025 Effluent Flow to Subsurface Disposal System – Zone 3**

Month	Rated Capacity (m <sup>3</sup> /day)	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
January	1,353	177	138
February	1,353	201	159
March	1,353	184	144

Month	Rated Capacity (m <sup>3</sup> /day)	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
April	1,353	161	117
May	1,353	153	141
June	1,353	246	149
July	1,353	158	133
August	1,353	123	101
September	1,353	149	125
October	1,353	126	117
November	1,353	133	96
December	1,353	92	25

**Table 11. 2025 Effluent Flow to Subsurface Disposal System – Zone 4**

Month	Rated Capacity (m <sup>3</sup> /day)	Max Daily Flow (m <sup>3</sup> /day)	Average Daily Flow (m <sup>3</sup> /day)
January	1,353	362	42
February	1,353	390	304
March	1,353	554	271
April	1,353	403	105
May	1,353	371	347
June	1,353	435	367
July	1,353	431	362
August	1,353	365	286
September	1,353	400	321
October	1,353	315	213
November	1,353	290	90
December	1,353	176	69

## Reporting Requirements – Wastewater Collection System

In accordance with the Consolidated Linear Infrastructure – Environmental Compliance Approval (CLI-ECA) #141-W601 the owner shall prepare a performance report on a calendar basis and submit to the Ministry of Environment, Conservation and Parks by March 31 of the calendar year following the period being reported upon.

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

The Omemee Sewage Collection System consists of works for the collection and transmission of wastewater, comprising approximately 8.2 km of gravity sewers. The collection system conveys sewage to two sewage pumping stations, which ultimately direct flows to the Omemee Sewage Lagoons for treatment.

Raw sewage flow data from the Sturgeon St. and Church St. pumping stations, along with an interpretation of the data and any conclusions drawn from the data evaluation, are captured in ECA No. 2737-B4DH46 reporting requirements, sections **(a)** and **(b)** above.

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

Below is a summary of any operating problems encountered in the collection system and any corrective actions taken.

**Table 12. 2025 Summary of Operating Problems in Collection System and Corrective Actions**

<b>Date</b>	<b>Operational Issue</b>	<b>Corrective Actions Taken</b>
March 31, 2025	Multiple sewer backups reported on Mary St. W and Rita Cres. Determined to be the result of the collection system surcharging, due to a VFD fault of the pumps, and communication issues during the ongoing ice storm, and no high wet well alarms being received. This was outside of the operating authority's control, due to the emergency conditions of the ice storm and widespread communication issues.	VFD's were reset, station returned to normal operations, station was monitored more regularly until stable communications restored with ice storm recovery. Resulting spill from one residence was reported and cleaned up.

**4.6 (c) a summary of all calibration, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanisms, 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 and maintenance scheduling and standard procedures are provided by Maximo Computerized Maintenance System.

Attached is **Appendix III: Maintenance Summary**, a Work Order Summary report, showing all preventative and corrective maintenance activities performed at the Omemee Sewage Lagoons, including the collection system, during 2025.

All other collection system repairs are summarized in the table below:

**Table 13. Summary of Major Structure & Equipment Maintenance and Repair**

Major Structure	Work Performed
Manhole Repairs	MH2854 – Walnut St. N (12 Sibley Ave. N) – Top section of manhole reset with new gasket and frost straps installed MH2855 – 50 Walnut St. W – Top section of manhole reset with new gasket and frost straps installed
Full Sanitary Sewer Flushing	Entire collection system flushing

**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 Omemee Sewage Collection System and steps taken to address the complaints for 2025 are included in Table 7. 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 Omemee 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 Omemee Sewage Collection system did not experience any collection system Overflows but one Spill occurred in 2025.

There was one spill within the sewage collection system at the Omemee Sewage Lagoon in 2025. The spill was identified on March 31, 2025 by staff responding to the address of 20 Mary Street

West in Omemee, when the homeowner reported a sewage back-up in basement and was pumping basement contents to near-by ditch. Approximately 15 m<sup>3</sup> were pumped from 18:00 to 19:20. No further action was taken.

**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.**

Regular manhole inspections are completed by City operations staff to identify deficiencies that may contribute to inflow and infiltration (I&I) and increase the risk of overflows. The City maintains an ongoing manhole rehabilitation program, which includes grouting, modoloc replacement, and frame and cover replacement.

In areas where manholes are located in low-lying or flood-prone locations, rain stoppers are installed to prevent inflow during wet weather events, further reducing the risk of system overflows.

Although there were no collection system overflows, the work summarized in Table 13 above, were projects undertaken that aid in overall overflow reduction.

Manhole Rehabilitation - \$11,000

Full Sanitary Sewer Flushing - \$15,800

For 2026, \$20,000 has been budgeted to address any manhole deficiencies and \$5,000 has been budgeted to perform sanitary sewer flushing in dead-end/troubled areas.

**ii) Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timeline.**

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

**iii) An assessment of the effectiveness of each action taken.**

None to report at this time.

**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.**

N/A

**v) Public reporting approach including proactive efforts**

SOP WWC02 Wastewater Bypass/Overflow Notification Procedure has been developed and has been in practice since 2021, which clearly outlines all reporting protocols to both regulatory agencies and the public in various situations. This procedure was developed in consultation with Ontario Clean Water Agency, Ministry of Environment, Conservation and Parks and Ministry of Health.



## **Appendix I:**

### **Process Assessment Report Wastewater/Lagoon**

# Performance Assessment Report

From 1/1/2025 to 12/31/2025 11:59:59 PM

## 5901 OMEMEE WASTEWATER TREATMENT LAGOON 110001630

	1 / 2025	2 / 2025	3 / 2025	4 / 2025	5 / 2025	6 / 2025	7 / 2025	8 / 2025	9 / 2025	10 / 2025	11 / 2025	12 / 2025
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### Flows

Raw Flow: Total - Raw m³/d	16,801.00	11,545.90	37,342.00	28,528.00	25,898.00	13,558.20	8,999.30	9,212.00	8,685.00	9,571.00	11,525.00	12,752.00
Raw Flow: Avg - Raw m³/d	541.97	412.35	1,204.58	950.99	835.42	451.94	290.30	297.16	289.50	308.74	384.17	411.35
Raw Flow: Max - Raw m³/d	1,201.00	629.00	2,323.00	2,233.00	1,709.00	696.00	339.00	320.00	355.00	443.00	443.00	600.00
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
Eff. Flow: Total - Eff m³/d	19,446.70	23,479.30	23,733.00	15,352.00	26,610.00	27,356.70	26,941.60	21,748.32	24,631.50	134,445.50	18,215.00	8,156.40
Eff. Flow: Avg - Eff m³/d	627.31	838.55	765.58	511.73	858.39	911.89	869.08	701.56	821.05	4,336.95	607.17	263.11
Eff. Flow: Max - Eff m³/d	880.00	1,067.00	1,153.00	918.00	936.00	1,099.80	1,060.00	901.00	996.00	113,684.00	1,030.00	456.00
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

### Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Eff mg/L	<	9.40	<	12.25	<	4.00	<	4.75	6.25	9.00	8.00	<
Eff: # of samples of cBOD5 - Eff	<	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00
Loading: cBOD5 - Eff kg/d	<	5.897	15.094	9.378	4.606	3.434	3.650	3.332	5.132	39.033	4.857	1.368

### Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw mg/L	52.00	248.00	55.00	36.00	101.00	61.00	232.00	245.00	209.00	342.00	94.00	223.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Eff: Avg BOD5 - Eff mg/L	<	4.00	18.00	15.00	4.00	4.00	4.00	4.00	6.00	8.00	15.00	9.00
Loading: BOD5 - Eff kg/d	<	2.509	13.780	7.676	3.434	3.648	3.476	2.806	4.926	34.696	9.108	2.368
Percent Removal: BOD5 - Raw %	92.31	86.29	67.27	58.33	96.04	93.44	98.28	98.37	97.13	97.66	84.04	95.96

### Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	66.00	171.00	65.00	40.00	145.00	62.00	153.00	311.00	282.00	312.00	147.00	212.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Eff: Avg TSS - Eff mg/L	9.80	19.50	12.00	15.50	4.60	4.75	2.80	3.50	6.75	16.20	16.25	7.40
Eff: # of samples of TSS - Eff	5.00	4.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00
Loading: TSS - Eff kg/d	6.148	16.352	9.187	7.932	3.949	4.331	2.433	2.455	5.542	70.259	9.866	1.947
Percent Removal: TSS - Raw %	85.15	88.60	81.54	61.25	96.83	92.34	98.17	98.87	97.42	94.81	88.95	96.51

### Total Phosphorus: TP

Raw: Avg TP - Raw mg/L	1.23	3.14	0.76	0.81	1.88	1.42	3.69	5.37	4.98	4.32	2.47	3.57
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<--Total-->	<--Avg-->	<--Max-->	<-Criteria->
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194,417.40			0.00
	532.65		1,353.00
		2,323.00	0.00
365.00			0.00
370,116.02			0.00
	1,014.02		1,353.00
		113,684.00	0.00
365.00			0.00

	<	7.70	<	18.00	30.00
53.00					0.00
	<	7.81	<	39.03	

		158.17		342.00	0.00
12.00					0.00
	<	10.42	<	34.00	
	<	10.56	<	34.70	
		88.76		98.37	0.00

		162.17		312.00	0.00
12.00					0.00
		9.75		19.50	40.00
53.00					0.00
		9.89		70.26	
		90.04		98.87	0.00

		2.80		5.37	0.00
--	--	------	--	------	------

12.00					0.00
		0.43		1.18	1.00
12.00					0.00
		0.44		2.95	
		74.53		97.34	0.00

		23.81		40.40	0.00
12.00					0.00
		2.95		12.30	
53.00					0.00
		3.00		10.31	
	<	0.39	<	1.00	0.00
	<	0.05	<	0.17	0.00



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix II:**

### **2026 Omemee Sewage Lagoon Sampling Calendar**



## Sampling Calendar Omemeo Lagoons (5901) Works #110001630

- Weekly**  
Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen
- Monthly**  
Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
Final – Grab - Total Phosphorus

- Spring and Fall**  
Groundwater Monitoring  
MW-101B, MW-105B, MW-106B, MW-109B, MW-110, MW-111B, MW-1, MW-3, MW-4 (A410222)
- Sample for the following parameters:  
- Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)
1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).
  2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.
  3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge** Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Bypass Event** Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event** Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen  
If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator Name: \_\_\_\_\_ Operator Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# January 2026

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
Sample Frequency Definitions Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year				<b>1</b> <b>Stat Holiday</b> <b>New Year's Day</b>	<b>2</b>	<b>3</b>
<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b> <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	<b>10</b>
<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b> <input type="checkbox"/> Weekly	<b>17</b>
<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b> <input type="checkbox"/> Weekly	<b>24</b>
<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b> <input type="checkbox"/> Weekly	<b>31</b>



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
 Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
 Final – Grab - Total Phosphorus

**Spring and Fall**

Groundwater Monitoring Sample for the following parameters:  
 MW-101B, MW-105B, MW-106B, MW-109B, MW-110, MW-111B, MW-1, MW-3, MW-4 (A410222)  
 - Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)  
 1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).  
 2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.  
 3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen  
 If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator Name: \_\_\_\_\_

Operator Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# February 2026

	<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
Sample Frequency Definitions	Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year						
1	2	3	4	5	6	7	
					<input type="checkbox"/> Weekly <input type="checkbox"/> Monthly		
8	9	10	11	12	13	14	
					<input type="checkbox"/> Weekly		
15	16	17	18	19	20	21	
	<b>Stat Holiday Family Day</b>				<input type="checkbox"/> Weekly		
22	23	24	25	26	27	28	
					<input type="checkbox"/> Weekly		



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
 Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
 Final – Grab - Total Phosphorus

**Spring and Fall**

Groundwater Monitoring Sample for the following parameters:  
 MW-101B, MW-105B, MW-106B, MW-109B, MW-110, MW-111B, MW-1, MW-3, MW-4 (A410222)  
 - Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)  
 1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).  
 2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.  
 3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen  
 If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator Name: \_\_\_\_\_

Operator Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# March 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sample Frequency Definitions Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year						
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
					<input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>
					<input type="checkbox"/> Weekly	
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
					<input type="checkbox"/> Weekly	
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
					<input type="checkbox"/> Weekly	
<b>29</b>	<b>30</b>	<b>31</b>				



## Sampling Calendar Omemeo Lagoons (5901) Works #110001630

**Weekly**

Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
 Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
 Final – Grab - Total Phosphorus

**Spring and Fall**

Groundwater Monitoring Sample for the following parameters:  
 MW-101B, MW-105B, - Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)  
 MW-106B, MW-109B, 1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).  
 MW-110, MW-111B, 2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.  
 MW-1, MW-3, MW-4 (A410222) 3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen  
 If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator

Name: \_\_\_\_\_

Operator

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# April 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
				<input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	<b>Stat Holiday Good Friday</b>	
5	6	7	8	9	10	11
	<b>Stat Holiday Easter Monday</b>				<input type="checkbox"/> Weekly	
12	13	14	15	16	17	18
					<input type="checkbox"/> Weekly	
19	20	21	22	23	24	25
					<input type="checkbox"/> Weekly	
26	27	28	29	30	Sample Frequency Definitions	Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab

- CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab

- BOD5, SS, Total Phosphorus, TKN, NH3+NH4

Cell – Grab

- CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli

Final – Grab

- Total Phosphorus

**Spring and Fall**

Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-3, MW-4  
(A410222)

Sample for the following parameters:

- Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)

1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).
2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.
3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

**Operator**

Name: \_\_\_\_\_

**Operator**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# May 2026

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
Sample Frequency Definitions Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year					1	2
					Weekly Monthly	
3	4	5	6	7	8	9
					Weekly	
10	11	12	13	14	15	16
		Spring GWM			Weekly	
17	18	19	20	21	22	23
	<b>Stat Holiday Victoria Day</b>				Weekly	
24	25	26	27	28	29	30
					Weekly	
31						



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab

- CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab

- BOD5, SS, Total Phosphorus, TKN, NH3+NH4

Cell – Grab

- CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli

Final – Grab

- Total Phosphorus

**Spring and Fall**

Groundwater Monitoring

Sample for the following parameters:

MW-101B, MW-105B,

- Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)

MW-106B, MW-109B,

1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).

MW-110, MW-111B,

2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.

MW-1, MW-3, MW-4

3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

(A410222)

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

**Operator**

**Operator**

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# June 2026

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sample Frequency Definitions Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year		1	2	3	4	5 <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	6
	7	8	9	10	11	12 <input type="checkbox"/> Weekly	13
	14	15	16	17	18	19 <input type="checkbox"/> Weekly	20
	21	22	23	24	25	26 <input type="checkbox"/> Weekly	27
	28	29	30				



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab

- CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab

- BOD5, SS, Total Phosphorus, TKN, NH3+NH4

Cell – Grab

- CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli

Final – Grab

- Total Phosphorus

**Spring and Fall**

Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-3, MW-4  
(A410222)

Sample for the following parameters:

- Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)

1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).
2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.
3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

**Operator**

Name: \_\_\_\_\_

**Operator**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# July 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Sample Frequency Definitions	Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year		<b>1</b> <b>Stat Holiday</b> <b>Canada Day</b>	<b>2</b>	<b>3</b> <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	<b>4</b>
<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b> <input type="checkbox"/> Weekly	<b>11</b>
<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b> <input type="checkbox"/> Weekly	<b>18</b>
<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b> <input type="checkbox"/> Weekly	<b>25</b>
<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b> <input type="checkbox"/> Weekly	



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
 Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
 Final – Grab - Total Phosphorus

**Spring and Fall**

Groundwater Monitoring Sample for the following parameters:  
 MW-101B, MW-105B, - Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)  
 MW-106B, MW-109B, 1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).  
 MW-110, MW-111B, 2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.  
 MW-1, MW-3, MW-4 (A410222) 3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen  
 If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator

Name: \_\_\_\_\_

Operator

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# August 2026

	<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
Sample Frequency Definitions		Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year					<b>1</b>
	<b>2</b>	<b>3</b> <b>Stat Holiday Civic Day</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b> <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	<b>8</b>
	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b> <input type="checkbox"/> Weekly	<b>15</b>
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b> <input type="checkbox"/> Weekly	<b>22</b>
	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b> <input type="checkbox"/> Weekly	<b>29</b>
	<b>30</b>	<b>31</b>					



## Sampling Calendar Omemeo Lagoons (5901) Works #110001630

**Weekly**

Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
 Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
 Final – Grab - Total Phosphorus

**Spring and Fall**

Groundwater Monitoring Sample for the following parameters:  
 MW-101B, MW-105B, MW-106B, MW-109B, MW-110, MW-111B, MW-1, MW-3, MW-4 (A410222)  
 - Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)  
 1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).  
 2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.  
 3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

**Operator**

Name: \_\_\_\_\_

**Operator**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# September 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4 <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	5
6	7 <b>Stat Holiday Labour Day</b>	8	9	10	11 <input type="checkbox"/> Weekly	12
13	14	15	16	17	18 <input type="checkbox"/> Weekly	19
20	21	22	23	24	25 <input type="checkbox"/> Weekly	26
27	28	29	30 <b>Stat Holiday T&amp;R</b>		Sample Frequency Definitions	Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year



## Sampling Calendar Omeme Lagoons (5901) Works #110001630

**Weekly**

Final – Grab - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab - BOD5, SS, Total Phosphorus, TKN, NH3+NH4  
 Cell – Grab - CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli  
 Final – Grab - Total Phosphorus

**Spring and Fall**

Groundwater Monitoring Sample for the following parameters:  
 MW-101B, MW-105B, MW-106B, MW-109B, MW-110, MW-111B, MW-1, MW-3, MW-4 (A410222)  
 - Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)  
 1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).  
 2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.  
 3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator

Name: \_\_\_\_\_

Operator

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# October 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat	
Sample Frequency Definitions	Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year				1	2	3
					<input type="checkbox"/> Weekly <input type="checkbox"/> Monthly		
4	5	6	7	8	<input type="checkbox"/> Weekly	9	10
11	<b>Stat Holiday Thanksgiving Day</b>	13	14	15	<input type="checkbox"/> Weekly	16	17
18	19	<input type="checkbox"/> Fall GWM	21	22	<input type="checkbox"/> Weekly	23	24
25	26	27	28	29	<input type="checkbox"/> Weekly	30	31



## Sampling Calendar Omemeo Lagoons (5901) Works #110001630

**Weekly**

Final – Grab

- CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab

- BOD5, SS, Total Phosphorus, TKN, NH3+NH4

Cell – Grab

- CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli

Final – Grab

- Total Phosphorus

**Spring and Fall**

Groundwater Monitoring

Sample for the following parameters:

MW-101B, MW-105B,

- Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)

MW-106B, MW-109B,

1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).

MW-110, MW-111B,

2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.

MW-1, MW-3, MW-4

3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

(A410222)

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator

Operator

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# November 2026

<i>Sun</i>	<i>Mon</i>	<i>Tue</i>	<i>Wed</i>	<i>Thu</i>	<i>Fri</i>	<i>Sat</i>
Sample Frequency Definitions Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year						
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
					<input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b> Stat Holiday Remembrance Day	<b>12</b>	<b>13</b>	<b>14</b>
					<input type="checkbox"/> Weekly	
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>
					<input type="checkbox"/> Weekly	
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>
					<input type="checkbox"/> Weekly	
<b>29</b>	<b>30</b>					



### Sampling Calendar Omemeo Lagoons (5901) Works #110001630

**Weekly**

Final – Grab

- CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Monthly**

Raw – Grab

- BOD5, SS, Total Phosphorus, TKN, NH3+NH4

Cell – Grab

- CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli

Final – Grab

- Total Phosphorus

**Spring and Fall**

Groundwater Monitoring

Sample for the following parameters:

MW-101B, MW-105B,

- Ammonia and Ammonium as Nitrogen, BOD, COD, Chloride, DOC, E. coli, Hardness, Nitrate as Nitrogen, Nitrite as Nitrogen, pH, TKN, Total Coliforms, Total Dissolved Solids, Total Phosphorus, TIN (TAN+nitrite+nitrate)

MW-106B, MW-109B,

1. Attempt to collect samples from all identified monitoring wells as per ECA 3789-DGWKKV (issued Sep. 23, 2025).

MW-110, MW-111B,

2. Notify PCT/Manager and record in facility logbook, etc., if the water level is too low in the well to collect a sample or the well is dry.

MW-1, MW-3, MW-4

3. A second attempt for sampling must be completed within the quarter for any monitoring wells where samples were not collected on the first attempt due to low water levels or the well was dry. Record all attempts in the facility logbook.

(A410222)

**Emergency Discharge**

Samples to be collected prior to discharge, first day of discharge, every three days during discharge, the last day of the discharge and the day after the discharge has stopped.

**Note:** The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)

**Bypass Event**

Daily samples of final effluent, parameters include: CBOD5, TSS, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen, Nitrate and Nitrite as Nitrogen

**Overflow Event**

Samples taken at beginning of event, every 8 hours during event, parameters include: CBOD5, TSS, Total Phosphorus, Total Ammonia Nitrogen, Nitrate as Nitrogen, Nitrite as Nitrogen

If overflow is raw sewage and primary treated effluent parameters include: BOD5, TSS, Total Phosphorus, TKN

Operator

Operator

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

(all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2026.

# December 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		<b>1</b> *Please review SGS's Holiday schedule prior to sampling	<b>2</b>	<b>3</b>	<b>4</b> <input type="checkbox"/> Weekly <input type="checkbox"/> Monthly	<b>5</b>
<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b> <input type="checkbox"/> Weekly	<b>12</b>
<b>13</b>	<b>14</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b> <input type="checkbox"/> Weekly	<b>19</b>
<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b> <input type="checkbox"/> Weekly	<b>24</b>	<b>25</b> <b>Stat Holiday Christmas Day</b>	<b>26</b>
<b>27</b>	<b>28</b> <b>Stat Holiday Observe Boxing Day</b>	<b>29</b>	<b>30</b> <input type="checkbox"/> Weekly	<b>31</b>	Sample Frequency Definitions	Daily - once per day Weekly - once per week Monthly - once every month Quarterly - once every three months Annually - once every year Twice yearly - two times every year



**Appendix III:**  
**WMS Workorder Summary**

# Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5901\*

Work Order Type: CALL,EMER

Work Order Class:

WO #	Asset Description	Location Description	WorkOrder		Workorder Details			
			Type	Class	Work Order Description	Status	Actual Start	Actual Finish
4338942	PANEL ALARM/DIALER [LAGOON]	5901, Omeme Lagoon , Process, Control & Monitoring	CALL	Refurbish/ Replace/ Repair	5901, Omeme Lagoon, Process, Called Not Test	COMP	1/22/25 09:30 PM	1/22/25 09:30 PM
4462983		5901, Sturgeon SPS	CALL	Inspection	5901, Sturgeon SPS, Ice Storm No Phone Line	CLOSE	3/30/25 08:45 AM	3/30/25 10:00 AM
4487657		5901, Sturgeon SPS, Facility	CALL	Community Complaint	5901, Sturgeon SPS, Sewer Back - Up Alarm	COMP	3/31/25 06:00 PM	3/31/25 09:30 PM
4487751		5901, Omeme Lagoon , Facility	CALL	Refurbish/ Replace/ Repair	5901, Omeme Lagoon, Control Panel Power Failure Alarm	CLOSE	4/15/25 03:51 PM	4/15/25 04:57 PM
4488102		5901, Omeme Lagoon , Facility, IT Equipment	CALL	Inspection	5901, Omeme Lagoon, Power Controller Fail Alarm	CLOSE	4/16/25 06:40 PM	4/16/25 07:00 PM
4488145	PANEL ALARM/DIALER [LAGOON]	5901, Omeme Lagoon , Process, Control & Monitoring	CALL	Inspection	5901, Omeme Lagoon, Process No Test Page	CLOSE	4/18/25 09:15 PM	4/18/25 10:00 PM
4489472		5901, Omeme Lagoon , Facility, IT Equipment	CALL	Compliance	5901, Omeme Lagoon, PLC Fault Alarm	CLOSE	4/27/25 04:56 PM	4/27/25 05:03 PM
4662692	UPS BATTERY BANK [CHURCH]	5901, Church SPS, Facility, Power Generation, Backup Power	CALL	Refurbish/ Replace/ Repair	5901, Church SPS, UPS Short Circuit PLC Failure	CLOSE	7/18/25 04:55 AM	7/18/25 06:30 AM

4764109	5901, Church SPS, Facility	CALL	Compliance	5901, Church ST SPS, Low Wet Well Level Alarm	CLOSE	9/26/25 08:37 AM	9/26/25 08:43 AM
4764390	5901, Omemee Lagoon	CALL	Compliance	5901, Church St SPS, Low Wet Well Level Alarm	COMP	9/28/25 01:02 PM	1/5/26 12:37 PM
4764844	5901, Church SPS, Process	CALL	Compliance	5901, Church ST SPS, Low Wet Well Level Alarm	CLOSE	9/29/25 02:14 PM	9/29/25 02:18 PM

# Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5901\*

Work Order Type: CAP,EMER

Work Order Class:

WO #	Asset Description	Location Description	WorkOrder		Workorder Details			
			Type	Class	Work Order Description	Status	Actual Start	Actual Finish
4339177	PUMP SUBMERSIBLE P002 SUBSURFACE [LAGOON]	5901, Omeme Lagoon , Process	CAP	Refurbish/ Replace/ Repair	5901, Omeme Lagoon, Motor Pump Sub Surface Pump 002, Replacement	COMP	1/5/26 12:32 PM	1/5/26 12:32 PM
4552822		5901, Omeme Lagoon , Process, Control & Monitoring	CAP	Compliance	5901, Omeme Lagoon, Well Monitoring & Sampling Program POO# 1-676860750 (2025)	COMP	1/27/26 01:15 PM	1/27/26 01:15 PM
4604077		5901, Omeme Lagoon , Facility	CAP	Refurbish/ Replace/ Repair	5901, Omeme Lagoon, Main Building, Door, Replace	COMP	6/2/25 11:47 AM	1/5/26 12:30 PM
4662291	LAGOON CELL 01	5901, Omeme Lagoon , Process	CAP	Inspection	5901, Omeme Lagoons, Cell 1 & 2, Sludge Volume Survey	COMP	7/15/25 02:32 PM	1/27/26 01:12 PM
4863609		5901, Omeme Wastewater Collection	CAP	Compliance	5901, Omeme Wastewater Collection - Operations and Maintenance Manual Annual Review	COMP	11/21/25 08:10 AM	12/17/25 01:21 PM

# Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5901\*

Work Order Type: OPER,PM

Work Order Class:

WorkOrder		Workorder Details						
WO #	Asset Description	Location Description	Type	Class	Work Order Description	Status	Actual Start	Actual Finish
4285224		5901, Omemees Lagoon	OPER	HEALTH AND SAFETY	Corporate Facility Workplace H & S Inspection (3m) - 5901 - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4285231		5901, Omemees Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4285233		5901, Omemees Lagoon	PM	Inspection	Daily Operational Activities (1y) - 5901 - KTS	COMP	12/30/25 02:41 PM	12/30/25 03:26 PM
4285238	PANEL ALARM/DIALER [STURGEON]	5901, Sturgeon SPS, Facility, IT Equipment	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4285245	ENGINE DIESEL GENERATOR [STURGEON]	5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4286824		5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4287600	ENGINE DIESEL GENERATOR [CHURCH ST]	5901, Church SPS, Facility, Power Generation, Backup Power	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4287619	PANEL ALARM/DIALER [CHURCH]	5901, Church SPS, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 12:00 AM
4307298		5901, Omemees Lagoon	PM	HEALTH AND SAFETY	HS03 H & S Equipment Check (1m) - 5901 - KTS	CLOSE	1/21/25 12:00 AM	1/21/25 03:38 PM

4309779	5901, Omemees Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	1/14/25 12:00 AM	1/14/25 12:00 AM
4310924	5901, Omemees Lagoon	PM	Inspection	Well Level Monitoring & Sampling POO# 1-L4E0C (3m) – 5901 – KTS	CLOSE	11/26/25 03:03 PM	11/26/25 03:03 PM
4341951	5901, Omemees Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4341953	5901, Sturgeon SPS, Facility, IT Equipment [STURGEON]	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4341960	5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4343184	5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4343630	5901, Church SPS, Facility, Power Generation, Backup Power	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4343649	5901, Church SPS, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4343656	5901, Omemees Lagoon, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Lagoon - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4358520	5901, Omemees Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	CLOSE	2/11/25 12:00 AM	2/11/25 12:00 AM
4360204	5901, Omemees Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	2/5/25 12:00 AM	2/5/25 12:00 AM
4385340	5901, Sturgeon SPS, Facility, IT Equipment [STURGEON]	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	3/19/25 12:00 AM	3/19/25 12:00 AM
4385347	5901, Sturgeon SPS, Facility, Power Generation Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	3/19/25 12:00 AM	3/19/25 12:00 AM

PROJECT ID	DESCRIPTION	LOCATION	DATE	TIME	STATUS	REMARKS
4386587	5901, Omeme Lagoon	Refurbish/ Replace/ Repair	PM	3/19/25 12:00 AM	CLOSE	Tank Alum Inspection (1m) - 5901 - KTS
4387425	ENGINE DIESEL GENERATOR [CHURCH ST]	5901, Church SPS, Facility, Power Generation, Backup Power	PM	3/19/25 12:00 AM	CLOSE	Engine Diesel (1m) - 5901 Church - KTS
4387444	PANEL ALARM/DIALER [CHURCH]	5901, Church SPS, Process, Process Control & Monitoring	PM	3/19/25 12:00 AM	CLOSE	Alarm Dialer (1m) - 5901 Church - KTS
4387451	PANEL ALARM/DIALER [LAGOON]	5901, Omeme Lagoon, Process, Process Control & Monitoring	PM	3/19/25 12:00 AM	CLOSE	Alarm Dialer (1m) - 5901 Lagoon - KTS
4403091	5901, Omeme Lagoon	HEALTH AND SAFETY	PM	3/19/25 12:00 AM	CLOSE	H & S Equipment Check (1m) - 5901 - KTS
4432065	5901, Omeme Lagoon	Inspection	PM	4/30/25 12:00 AM	CLOSE	Building and Grounds Maintenance (1m) - 5901 - KTS
4432067	PANEL ALARM/DIALER [STURGEON]	5901, Sturgeon SPS, Facility, IT Equipment	PM	4/30/25 12:00 AM	CLOSE	Alarm Dialer (1m) - 5901 Sturgeon - KTS
4432074	ENGINE DIESEL GENERATOR [STURGEON]	5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	4/30/25 12:00 AM	CLOSE	Engine Diesel (1m) - 5901 Sturgeon - KTS
4433350	5901, Omeme Lagoon	Refurbish/ Replace/ Repair	PM	4/30/25 12:00 AM	CLOSE	Tank Alum Inspection (1m) - 5901 - KTS
4433353	5901, Omeme Lagoon	Inspection	PM	4/30/25 12:00 AM	CLOSE	Water Well Inspection (3m) - 5901 Lagoon Monitoring Wells - KTS
4433602	TANK PROCESS WET WELL [STURGEON ST]	5901, Sturgeon SPS, Process	PM	8/3/25 01:34 PM	CLOSE	Tank Wetwell Cleaning/Inspection (6m) - 5901 Sturgeon - KTS
4434234	ENGINE DIESEL GENERATOR [CHURCH ST]	5901, Church SPS, Facility, Power Generation, Backup Power	PM	4/30/25 12:00 AM	CLOSE	Engine Diesel (1m) - 5901 Church - KTS
4434253	PANEL ALARM/DIALER [LAGOON]	5901, Church SPS, Process, Process Control & Monitoring	PM	4/30/25 12:00 AM	CLOSE	Alarm Dialer (1m) - 5901 Church - KTS

ALARM/DIALER [CHURCH]	Process, Process Control & Monitoring	K I S
4434260 PANEL ALARM/DIALER [LAGOON]	5901, Omemees Lagoon , Process, Process Control & Monitoring	Alarm Dialer (1m) - 5901 Lagoon - KTS CLOSE 4/30/25 12:00 AM 4/30/25 12:00 AM
4435224 TANK PROCESS WET WELL [CHURCH ST]	5901, Church SPS, Process	Tank Wetwell Cleaning/Inspection (6m) - 5901 Church - KTS CLOSE 8/3/25 01:37 PM 8/3/25 01:37 PM
4452850	5901, Omemees Lagoon	H & S Equipment Check (1m) - 5901 - KTS CLOSE 4/30/25 12:00 AM 4/30/25 12:00 AM
4454897	5901, Omemees Lagoon	Operator PDM Entry & Review (1m) - 5901 - KTS CLOSE 4/8/25 12:00 AM 4/8/25 12:00 AM
4455964	5901, Omemees Lagoon	Well Level Monitoring & Sampling POO# 1-L4E0C (3m) - 5901 - KTS CLOSE 11/26/25 03:02 PM 11/26/25 03:02 PM
4471012	5901, Omemees Lagoon	Annual Workplace H & S Inspection (1y) - 5901 - KTS CLOSE 6/16/25 02:07 PM 6/16/25 02:07 PM
4492865	5901, Omemees Lagoon	Building and Grounds Maintenance (1m) - 5901 - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM
4492867 PANEL ALARM/DIALER [STURGEON]	5901, Sturgeon SPS, Facility, IT Equipment	Alarm Dialer (1m) - 5901 Sturgeon - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM
4492874 ENGINE DIESEL GENERATOR [STURGEON]	5901, Sturgeon SPS, Facility, Power Generation, Engines	Engine Diesel (1m) - 5901 Sturgeon - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM
4494129	5901, Omemees Lagoon	Tank Alum Inspection (1m) - 5901 - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM
4494930 ENGINE DIESEL GENERATOR [CHURCH ST]	5901, Church SPS, Facility, Power Generation, Backup Power	Engine Diesel (1m) - 5901 Church - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM
4494949 PANEL ALARM/DIALER [CHURCH]	5901, Church SPS, Process, Process Control & Monitoring	Alarm Dialer (1m) - 5901 Church - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM
4494956 PANEL ALARM/DIALER [LAGOON]	5901, Omemees Lagoon , Process, Process Control & Monitoring	Alarm Dialer (1m) - 5901 Lagoon - KTS CLOSE 5/26/25 12:00 AM 5/26/25 12:00 AM

PROJECT ID	LOCATION & COMMUNITY	PM	Inspection	Description	STATUS	START DATE	END DATE
4503425	5901, Omemees Lagoon	PM	Inspection	Lifting Devices & Fall Arrest Inspection by Contractor (1y) - 5901 - KTS	COMP	6/13/25 12:00 AM	6/13/25 12:00 AM
4512680	5901, Omemees Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	CLOSE	5/26/25 12:00 AM	5/26/25 12:00 AM
4514416	5901, Omemees Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	5/7/25 12:00 AM	5/7/25 12:00 AM
4559476	5901, Omemees Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4559478	PANEL ALARM/DIALER [STURGEON]	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4559485	ENGINE DIESEL GENERATOR [STURGEON]	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4560759	5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4561469	ENGINE DIESEL GENERATOR [CHURCH ST]	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4561488	PANEL ALARM/DIALER [CHURCH]	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4561495	PANEL ALARM/DIALER [LAGOON]	PM	Inspection	Alarm Dialer (1m) - 5901 Lagoon - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4580614	5901, Omemees Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	CLOSE	7/3/25 12:00 AM	7/3/25 12:00 AM
4582362	5901, Omemees Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	6/30/25 12:00 AM	6/30/25 12:00 AM
4613052	VALVE RELIEF AIR [STURGEON ROAD]	OPER	Inspection	Grating Insp (1y) - 5901, Omemees Wastewater Collection - KTS	CLOSE	7/14/25 02:15 PM	7/14/25 02:15 PM

4622875	ENGINE DIESEL GENERATOR [STURGEON]	5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	COMP	1/30/26 10:57 AM	1/30/26 10:57 AM
4624765	ENGINE DIESEL GENERATOR [CHURCH ST]	5901, Church SPS, Facility, Power Generation, Backup Power	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	COMP	1/30/26 11:00 AM	1/30/26 11:00 AM
4647668		5901, Omemee Lagoon	PM	Inspection	Well Level Monitoring & Sampling POO# 1-L4E0C (3m) - 5901 - KTS	CLOSE	11/26/25 03:01 PM	11/26/25 03:01 PM
4667672		5901, Omemee Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	CLOSE	9/1/25 12:00 AM	9/1/25 12:00 AM
4667674	PANEL ALARM/DIALER [STURGEON]	5901, Sturgeon SPS, Facility, IT Equipment	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4667681	ENGINE DIESEL GENERATOR [STURGEON]	5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4668956		5901, Omemee Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4669414	ENGINE DIESEL GENERATOR [CHURCH ST]	5901, Church SPS, Facility, Power Generation, Backup Power	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4669433	PANEL ALARM/DIALER [CHURCH]	5901, Church SPS, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4669440	PANEL ALARM/DIALER [LAGOON]	5901, Omemee Lagoon, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Lagoon - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4684874		5901, Omemee Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	CLOSE	9/3/25 12:00 AM	9/3/25 12:00 AM
4686489		5901, Omemee Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	8/14/25 12:00 AM	8/14/25 12:00 AM
4714465	PANEL ALARM/DIALER [STURGEON]	5901, Sturgeon SPS, Facility, IT Equipment	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	9/16/25 12:00 AM	9/16/25 12:00 AM
4714472	ENGINE DIESEL GENERATOR [STURGEON]	5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	9/17/25 12:00 AM	9/17/25 12:00 AM
4715702		5901, Omemee Lagoon	PM	Calibration	Online Process Equipment Calibration Service by Contractor (1m) - 5901 - KTS	COMP	11/6/25 12:00 AM	11/6/25 12:00 AM

4715707	5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	CLOSE	9/17/25 12:00 AM	9/17/25 12:00 AM
4716179	ENGINE DIESEL GENERATOR [STURGEON] 5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Refurbish/ Replace/ Repair	Engine Diesel Inspection/Service by Contractor (1y) - 5901 Sturgeon - KTS	COMP	9/17/25 12:00 AM	9/17/25 12:00 AM
4716665	ENGINE DIESEL GENERATOR [CHURCH ST] 5901, Church SPS, Facility, Power Generation, Backup	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	CLOSE	9/17/25 12:00 AM	9/17/25 12:00 AM
4716684	ENGINE DIESEL GENERATOR [CHURCH ST] 5901, Church SPS, Facility, Power Generation, Backup Power	PM	Refurbish/ Replace/ Repair	Engine Diesel Inspection/Service by Contractor (1y) - 5901 Church - KTS	COMP	9/24/25 12:00 AM	9/24/25 12:00 AM
4716690	PANEL ALARM/DIALER [CHURCH] 5901, Church SPS, Process, Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	CLOSE	9/17/25 12:00 AM	9/17/25 12:00 AM
4716697	PANEL ALARM/DIALER [LAGOON] 5901, Omemees Lagoon, Process, Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Lagoon - KTS	CLOSE	9/18/25 12:00 AM	9/18/25 12:00 AM
4734818	5901, Omemees Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	CLOSE	9/18/25 12:00 AM	9/18/25 12:00 AM
4736688	5901, Omemees Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	9/16/25 12:19 PM	9/16/25 12:19 PM
4747085	METER LEVEL LIT 106 SPRAYER WET WELL [LAGOON] 5901, Omemees Lagoon, Process, Control & Monitoring	PM	Calibration	Meter Level LIT 106 Calibration/Service (1y) 5901	CLOSE	11/6/25 12:00 AM	11/6/25 12:00 AM
4766764	5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Heater Unit Insp. (1y) - 5901 Lagoon- KTS	CLOSE	10/30/25 12:00 AM	10/30/25 12:00 AM
4767705	5901, Omemees Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	CLOSE	10/30/25 12:00 AM	10/30/25 12:00 AM
4767707	PANEL ALARM/DIALER [STURGEON] 5901, Sturgeon SPS, Facility, IT Equipment	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	10/30/25 12:00 AM	10/30/25 12:00 AM
4767714	ENGINE DIESEL GENERATOR [STURGEON] 5901, Sturgeon SPS, Facility, Power Generation Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	10/30/25 12:00 AM	10/30/25 12:00 AM

DESCRIPTION	COMPLETION DATE	STATUS	LOCATION	ACTIVITY	START DATE	END DATE
4769006	5901, Omemee Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	11/6/25 08:00 AM	11/6/25 08:00 AM
4769009	5901, Omemee Lagoon	PM	Inspection	Water Well Inspection (3m) - 5901 Lagoon Monitoring Wells - KTS	10/10/25 12:00 AM	10/10/25 12:00 AM
4769262	TANK PROCESS WET WELL [STURGEON ST]	PM	Refurbish/ Replace/ Repair	Tank Wetwell Cleaning/Inspection (6m) - 5901 Sturgeon - KTS	12/16/25 12:00 AM	12/16/25 12:00 AM
4769815	ENGINE DIESEL GENERATOR [CHURCH ST]	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	10/30/25 12:00 AM	10/30/25 12:00 AM
4769834	PANEL ALARM/DIALER [CHURCH]	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	10/30/25 12:00 AM	10/30/25 12:00 AM
4769841	PANEL ALARM/DIALER [LAGOON]	PM	Inspection	Alarm Dialer (1m) - 5901 Lagoon - KTS	10/30/25 12:00 AM	10/30/25 12:00 AM
4770938	TANK PROCESS WET WELL [CHURCH ST]	PM	Refurbish/ Replace/ Repair	Tank Wetwell Cleaning/Inspection (6m) - 5901 Church - KTS	12/16/25 12:00 AM	12/16/25 12:00 AM
4785038	5901, Omemee Lagoon	PM	Inspection	UPS Insp/Service (1y) - 5901 - KTS	1/30/26 11:02 AM	1/30/26 11:02 AM
4787637	5901, Omemee Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	11/6/25 07:55 AM	11/6/25 07:55 AM
4788282	5901, Omemee Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	1/30/26 11:06 AM	1/30/26 11:06 AM
4791073	5901, Omemee Lagoon	PM	Inspection	Well Level Monitoring & Sampling POO# 1-L4E0C (3m) - 5901 - KTS	10/10/25 12:00 AM	10/10/25 12:00 AM
4816336	ENGINE DIESEL GENERATOR [CHURCH ST]	PM	Inspection	Tank Storage Diesel Fuel Inspection by Contractor (10y) - 5901 Church - KTS	11/19/25 01:35 PM	11/19/25 01:35 PM
4816342	ENGINE DIESEL GENERATOR [STURGEON]	PM	Inspection	Tank Storage Diesel Fuel Inspection by Contractor (10y) - 5901 Sturgeon - KTS	11/19/25 01:36 PM	11/19/25 01:36 PM

4822346	5901, Omemees Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	COMP	1/30/26 11:30 AM	1/30/26 11:30 AM
4822348	PANEL ALARM/DIALER [STURGEON] 5901, Sturgeon SPS, Facility, IT Equipment	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	CLOSE	11/26/25 12:00 AM	11/26/25 12:00 AM
4822355	ENGINE DIESEL GENERATOR [STURGEON] 5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	CLOSE	11/26/25 12:00 AM	11/26/25 12:00 AM
4823561	5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	CLOSE	11/26/25 12:00 AM	11/26/25 12:00 AM
4824045	ENGINE DIESEL GENERATOR [CHURCH ST] 5901, Church SPS, Facility, Power Generation, Backup Power	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	CLOSE	11/26/25 12:00 AM	11/26/25 12:00 AM
4824064	PANEL ALARM/DIALER [CHURCH] 5901, Church SPS, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	CLOSE	11/26/25 12:00 AM	11/26/25 12:00 AM
4839082	5901, Omemees Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	CLOSE	11/26/25 12:00 AM	11/26/25 12:00 AM
4840722	5901, Omemees Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	CLOSE	11/17/25 01:05 PM	11/17/25 01:05 PM
4867422	5901, Omemees Lagoon	PM	Inspection	Building and Grounds Maintenance (1m) - 5901 - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4867424	PANEL ALARM/DIALER [STURGEON] 5901, Sturgeon SPS, Facility, IT Equipment	PM	Inspection	Alarm Dialer (1m) - 5901 Sturgeon - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4867431	ENGINE DIESEL GENERATOR [STURGEON] 5901, Sturgeon SPS, Facility, Power Generation, Engines	PM	Inspection	Engine Diesel (1m) - 5901 Sturgeon - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4868723	5901, Omemees Lagoon	PM	Refurbish/ Replace/ Repair	Tank Alum Inspection (1m) - 5901 - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4869212	ENGINE DIESEL GENERATOR [CHURCH ST] 5901, Church SPS, Facility, Power Generation, Backup Power	PM	Inspection	Engine Diesel (1m) - 5901 Church - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM

4869232	PANEL ALARM/DIALER [CHURCH]	5901, Church SPS, Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Church - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4869239	PANEL ALARM/DIALER [LAGOON]	5901, Omeme Lagoon , Process, Process Control & Monitoring	PM	Inspection	Alarm Dialer (1m) - 5901 Lagoon - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4884341		5901, Omeme Lagoon	PM	HEALTH AND SAFETY	H & S Equipment Check (1m) - 5901 - KTS	COMP	12/16/25 12:00 AM	12/16/25 12:00 AM
4885895		5901, Omeme Lagoon	OPER	Compliance	Operator PDM Entry & Review (1m) - 5901 - KTS	COMP	1/30/26 11:32 AM	1/30/26 11:32 AM
4895992	TANK PROCESS WET WELL [LAGOON SPS]	5901, Omeme Lagoon , Process	PM	Refurbish/ Replace/ Repair	Tank Wet Well Cleaning/Inspection (6m) - 5901 Lagoon SPS - KTS	COMP	12/19/25 03:21 PM	12/19/25 03:21 PM



**Appendix IV:**  
**Calibration Reports**



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

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

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## **OCWA Kawartha**

## **Omeme SPS and Lagoon Flows 2025**

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*Leaders in Instrumentation and Control*



# CALIBRATION REPORT

Report No.: OCWA 25 FIT Lagoon

Date: 6-Nov-25

SITE: Omemee Lagoon  
 PROCESS AREA: Flow to spray system  
 INSTR. TAG: FIT Lagoon  
 MANUFACTURER: Krohne  
 MODEL: IFC010  
 SERIAL No.: 00177980  
 OCWA Code: 0000291043

SERVICE DATE: November 6, 2025

TECHNICIAN: MM

JOB REFERENCE: OCWA 25

Input (Test)			Output (Signal)		Output (Process)	
Type:	GS 8 (X val)		Type or EGU:	mA		Liter/sec
Min:	0.00		Min:	4.00		0.00
Max:	11.41		Max:	20.00		250.00
DN (mm):	200			98.5 ohms		open to ground
GK=1 GKL=2	2					
GK:	4.575					
Constant:	4177.44					
			Before Calibration		After Calibration	
Input (Y pos)	Knob Setting	Calc. O/P (mA)	Output (mA)	%Error	Output (mA)	%Error
0.00	0	4.00	3.99	-0.25%	3.99	-0.25%
0.50	A	4.70	4.68	-0.43%	4.68	-0.43%
1.00	B	5.40	5.38	-0.37%	5.38	-0.37%
2.00	C	6.80	6.78	-0.29%	6.78	-0.29%
5.00	D	11.01	11.00	-0.09%	11.00	-0.09%
10.00	E	18.02	18.00	-0.11%	18.00	-0.11%

Calibration Equipment			
Type:	DMM	Simulator	
Manufacturer:	Fluke	Krohne	
Model:	Model 87	GS 8B	
Serial No.:	13440128	U1127700020705	
Last Cal. Date:	Feb. 11, 2025	Mar. 27, 2025	

Comments:

AS FOUND: PASS

AS LEFT: PASS

CERTIFIED BY:

# Flowmeter Verification Certificate Transmitter

OCWA Kawartha

Customer

Church St SPS

Order code

PROMAG 53 P DN200

Device type

H6027B16000

Serial number

V2.03.00

Software Version Transmitter

11/06/2025

Verification date

Omemeew Sewage

Plant

-----

Tag Name

1.0162 - 1.0162

K-Factor

1

Zero point

V1.05.03

Software Version I/O-Module

10:00

Verification time

## Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Not tested	0 P
Test Sensor	Passed	

### FieldCheck Details

550149

Production number

1.07.10

Software Version

03/2025

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2025

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

### Overall results:

The achieved test results show that the instrument is completely functional, and the measuring results lie within +/- 1% of the original calibration. <sup>1)</sup>

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

# FieldCheck - Result Tab Transmitter

Customer	OCWA Kwartha	Plant	Omeme Sewage
Order code	Church St SPS	Tag Name	-----
Device type	PROMAG 53 P DN200	K-Factor	1.0162 - 1.0162
Serial number	H6027B16000	Zero point	1
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/06/2025	Verification time	10:00

Verification Flow end value ( 100 % ): 125.664 l/s  
 Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	<b>Test Transmitter</b>			
✓	Amplifier	6.283 l/s (5%)	1.50 %	-0.54 %
✓		12.566 l/s (10.0%)	1.00 %	0.03 %
✓		62.832 l/s (50.0%)	0.60 %	0.01 %
✓		125.665 l/s (100%)	0.55 %	0.02 %
	<b>Current Output 1</b>			
✓		4.000 mA (0%)	0.05 mA	-0.000 mA
✓		4.800 mA (5%)	0.05 mA	-0.000 mA
✓		5.600 mA (10.0%)	0.05 mA	-0.013 mA
✓		12.000 mA (50.0%)	0.05 mA	0.001 mA
✓		20.000 mA (100%)	0.05 mA	-0.003 mA
—	Pulse Output 1	---	---	---
		<b>Start value</b>	<b>Limits range</b>	<b>Measured value</b>
	<b>Test Sensor</b>			
✓	Coil Curr. Rise	13.300 ms	0.000..27.625 ms	18.593 ms
✓	Coil Curr. Stability		---	---
✓	Electrode Integrity	mV	0.0..300.001 mV	3.278 mV

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

## FieldCheck: Parameters Transmitter

Customer	OCWA Kawartha	Plant	Omeme Sewage
Order code	Church St SPS	Tag Name	-----
Device type	PROMAG 53 P DN200	K-Factor	1.0162 - 1.0162
Serial number	H6027B16000	Zero point	1
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/06/2025	Verification time	10:00

<b>Curent Output</b>	<b>Assign</b>	<b>Current Range</b>	<b>Value 0_4mA</b>	<b>Value 20 mA</b>		
Terminal 26/27	VOLUME FLOW	4-20 mA active	0.0 l/s	100.01 l/s		
<b>Pulse Output</b>	<b>Assign</b>	<b>Pulse Value</b>	<b>Output signal</b>	<b>Pulse width</b>		
Terminal 24/25	VOLUME FLOW	50.000 I/P	Passive/Positive	100.01 ms		

Actual System Ident.

123.0

# Flowmeter Verification Certificate Transmitter

OCWA Kawartha

Customer

Sturgeon St SPS

Order code

PROMAG 53 P DN300

Device type

H6027C16000

Serial number

V2.03.00

Software Version Transmitter

11/06/2025

Verification date

Omemeew Sewage

Plant

-----

Tag Name

1.2756 - 1.2756

K-Factor

-2

Zero point

V1.05.03

Software Version I/O-Module

09:37

Verification time

## Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Not tested	0 P
Test Sensor	Passed	

### FieldCheck Details

550149

Production number

1.07.10

Software Version

03/2025

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2025

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

### Overall results:

The achieved test results show that the instrument is completely functional, and the measuring results lie within +/- 1% of the original calibration. <sup>1)</sup>

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

## FieldCheck - Result Tab Transmitter

Customer	OCWA Kawartha	Plant	Omemeew Sewage
Order code	Sturgeon St SPS	Tag Name	-----
Device type	PROMAG 53 P DN300	K-Factor	1.2756 - 1.2756
Serial number	H6027C16000	Zero point	-2
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date:		Verification time	09:37

Verification Flow end value ( 100 % ): 282.743 l/s

Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	<b>Test Transmitter</b>			
✓	Amplifier	14.137 l/s (5%)	1.50 %	-0.54 %
✓		28.274 l/s (10.0%)	1.00 %	-0.47 %
✓		141.373 l/s (50.0%)	0.60 %	0.06 %
✓		282.744 l/s (100%)	0.55 %	0.04 %
	<b>Current Output 1</b>			
✓		4.000 mA (0%)	0.05 mA	-0.002 mA
✓		4.800 mA (5%)	0.05 mA	-0.003 mA
✓		5.600 mA (10.0%)	0.05 mA	-0.016 mA
✓		12.000 mA (50.0%)	0.05 mA	-0.008 mA
✓		20.000 mA (100%)	0.05 mA	-0.017 mA
—	Pulse Output 1	---	---	---
		<b>Start value</b>	<b>Limits range</b>	<b>Measured value</b>
	<b>Test Sensor</b>			
✓	Coil Curr. Rise	18.100 ms	0.000..36.625 ms	23.366 ms
✓	Coil Curr. Stability		---	---
✓	Electrode Integrity	mV	0.0..300.001 mV	0.000 mV

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

## FieldCheck: Parameters Transmitter

Customer	OCWA Kawartha	Plant	Omemeew Sewage
Order code	Sturgeon St SPS	Tag Name	-----
Device type	PROMAG 53 P DN300	K-Factor	1.2756 - 1.2756
Serial number	H6027C16000	Zero point	-2
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date1	11 /06/2025	Verification time	09:37

<b>Curent Output</b>	<b>Assign</b>	<b>Current Range</b>	<b>Value 0_4mA</b>	<b>Value 20 mA</b>		
Terminal 26/27	VOLUME FLOW	4-20 mA active	0.0 l/s	200.01 l/s		
<b>Pulse Output</b>	<b>Assign</b>	<b>Pulse Value</b>	<b>Output signal</b>	<b>Pulse width</b>		
Terminal 24/25	VOLUME FLOW	100.001 I/P	Passive/Positive	100.01 ms		

Actual System Ident.

123.0



# Flowmeter Verification Certificate Transmitter

OCWA Kawartha

Customer

Pump 1

Order code

PROMAG 53 W DN100

Device type

H607FA16000

Serial number

V2.03.00

Software Version Transmitter

11/06/2025

Verification date

Omemeo Lagoons

Plant

-----

Tag Name

1.2394 - 1.2394

K-Factor

6

Zero point

V1.05.03

Software Version I/O-Module

10:40

Verification time

## Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Passed	1 P
Test Sensor	Passed	

### FieldCheck Details

550149

Production number

1.07.10

Software Version

03/2025

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2025

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

### **Overall results:**

The achieved test results show that the instrument is completely functional, and the measuring results lie within +/- 1% of the original calibration. <sup>1)</sup>

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

## FieldCheck - Result Tab Transmitter

Customer	OCWA Kwartha	Plant	Omemeo Lagoons
Order code	Pump 1	Tag Name	-----
Device type	PROMAG 53 W DN100	K-Factor	1.2394 - 1.2394
Serial number	H607FA16000	Zero point	6
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/04/2025	Verification time	10:40

Verification Flow end value ( 100 % ): 31.416 l/s

Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	<b>Test Transmitter</b>			
✓	Amplifier	1.571 l/s (5%)	1.50 %	-0.43 %
✓		3.142 l/s (10.0%)	1.00 %	-0.49 %
✓		15.708 l/s (50.0%)	0.60 %	0.07 %
✓		31.416 l/s (100%)	0.55 %	0.06 %
	<b>Current Output 1</b>			
✓		4.000 mA (0%)	0.05 mA	0.001 mA
✓		4.800 mA (5%)	0.05 mA	0.001 mA
✓		5.600 mA (10.0%)	0.05 mA	-0.010 mA
✓		12.000 mA (50.0%)	0.05 mA	0.003 mA
✓		20.000 mA (100%)	0.05 mA	0.005 mA
	<b>Pulse Output 1</b>			
✓		125 P	1 P	0 P
		<b>Start value</b>	<b>Limits range</b>	<b>Measured value</b>
	<b>Test Sensor</b>			
✓	Coil Curr. Rise	5.000 ms	0.000..14.250 ms	6.440 ms
✓	Coil Curr. Stability		---	---
✓	Electrode Integrity	mV	0.0..300.001 mV	52.351 mV

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

## FieldCheck: Parameters Transmitter

Customer	OCWA Kawartha	Plant	Omemeo Lagoons
Order code	Pump 1	Tag Name	-----
Device type	PROMAG 53 W DN100	K-Factor	1.2394 - 1.2394
Serial number	H607FA16000	Zero point	6
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/04/2025	Verification time	10:40

<b>Curent Output</b>	<b>Assign</b>	<b>Current Range</b>	<b>Value 0_4mA</b>	<b>Value 20 mA</b>		
Terminal 26/27	VOLUME FLOW	4-20 mA active	0.0 I/s	10.00 I/s		
<b>Pulse Output</b>	<b>Assign</b>	<b>Pulse Value</b>	<b>Output signal</b>	<b>Pulse width</b>		
Terminal 24/25	VOLUME FLOW	5.000 I/P	Passive/Positive	100.01 ms		

Actual System Ident.

117.0

# Flowmeter Verification Certificate Transmitter

OCWA Kawartha

Customer

Pump #2

Order code

PROMAG 53 W DN100

Device type

H607FB16000

Serial number

V2.03.00

Software Version Transmitter

11/06/2025

Verification date

Omemeo Lagoons

Plant

-----

Tag Name

1.2614 - 1.2614

K-Factor

-15

Zero point

V1.05.03

Software Version I/O-Module

11:00

Verification time

## Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Passed	1 P
Test Sensor	Passed	

### FieldCheck Details

550149

Production number

1.07.10

Software Version

03/2025

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2025

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

### **Overall results:**

The achieved test results show that the instrument is completely functional, and the measuring results lie within +/- 1% of the original calibration. <sup>1)</sup>

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

## FieldCheck - Result Tab Transmitter

Customer	OCWA Kwartha	Plant	Omemeo Lagoons
Order code	Pump #2	Tag Name	-----
Device type	PROMAG 53 W DN100	K-Factor	1.2614 - 1.2614
Serial number	H607FB16000	Zero point	-15
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/06/2025	Verification time	11:00

Verification Flow end value ( 100 % ): 31.416 l/s

Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	<b>Test Transmitter</b>			
✓	Amplifier	1.571 l/s (5%)	1.50 %	-0.58 %
✓		3.142 l/s (10.0%)	1.00 %	-0.50 %
✓		15.708 l/s (50.0%)	0.60 %	0.04 %
✓		31.416 l/s (100%)	0.55 %	0.03 %
	<b>Current Output 1</b>			
✓		4.000 mA (0%)	0.05 mA	0.001 mA
✓		4.800 mA (5%)	0.05 mA	0.001 mA
✓		5.600 mA (10.0%)	0.05 mA	-0.011 mA
✓		12.000 mA (50.0%)	0.05 mA	0.002 mA
✓		20.000 mA (100%)	0.05 mA	0.000 mA
	<b>Pulse Output 1</b>			
✓		125 P	1 P	0 P
		<b>Start value</b>	<b>Limits range</b>	<b>Measured value</b>
	<b>Test Sensor</b>			
✓	Coil Curr. Rise	5.000 ms	0.000..14.250 ms	6.260 ms
✓	Coil Curr. Stability		---	---
✓	Electrode Integrity	mV	0.0..300.001 mV	16.412 mV

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

## FieldCheck: Parameters Transmitter

Customer	OCWA Kawartha	Plant	Omemeo Lagoons
Order code	Pump #2	Tag Name	-----
Device type	PROMAG 53 W DN100	K-Factor	1.2614 - 1.2614
Serial number	H607FB16000	Zero point	-15
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/06/2025	Verification time	11:00

<b>Curent Output</b>	<b>Assign</b>	<b>Current Range</b>	<b>Value 0_4mA</b>	<b>Value 20 mA</b>		
Terminal 26/27	VOLUME FLOW	4-20 mA active	0.0 I/s	10.00 I/s		
<b>Pulse Output</b>	<b>Assign</b>	<b>Pulse Value</b>	<b>Output signal</b>	<b>Pulse width</b>		
Terminal 24/25	VOLUME FLOW	5.000 I/P	Passive/Positive	100.01 ms		

Actual System Ident.

121.0

# Flowmeter Verification Certificate Transmitter

OCWA Kawartha

Customer

Pump 3

Order code

PROMAG 53 W DN100

Device type

H607FC16000

Serial number

V2.03.00

Software Version Transmitter

11/06/2025

Verification date

Omemeo Lagoons

Plant

-----

Tag Name

1.2518 - 1.2518

K-Factor

5

Zero point

V1.05.03

Software Version I/O-Module

11:12

Verification time

## Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Passed	1 P
Test Sensor	Passed	

### FieldCheck Details

550149

Production number

1.07.10

Software Version

03/2025

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2025

Last Calibration Date

Date

Operator's Sign

Inspector's Sign

### **Overall results:**

The achieved test results show that the instrument is completely functional, and the measuring results lie within +/- 1% of the original calibration. <sup>1)</sup>

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

## FieldCheck - Result Tab Transmitter

Customer	OCWA Kwartha	Plant	Omemeo Lagoons
Order code	Pump 3	Tag Name	-----
Device type	PROMAG 53 W DN100	K-Factor	1.2518 - 1.2518
Serial number	H607FC16000	Zero point	5
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/06/2025	Verification time	11:12

Verification Flow end value ( 100 % ): 31.416 l/s

Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	<b>Test Transmitter</b>			
✓	Amplifier	1.571 l/s (5%)	1.50 %	-0.47 %
✓		3.142 l/s (10.0%)	1.00 %	-0.48 %
✓		15.708 l/s (50.0%)	0.60 %	0.06 %
✓		31.416 l/s (100%)	0.55 %	0.04 %
	<b>Current Output 1</b>			
✓		4.000 mA (0%)	0.05 mA	0.001 mA
✓		4.800 mA (5%)	0.05 mA	0.001 mA
✓		5.600 mA (10.0%)	0.05 mA	-0.012 mA
✓		12.000 mA (50.0%)	0.05 mA	0.002 mA
✓		20.000 mA (100%)	0.05 mA	0.000 mA
	<b>Pulse Output 1</b>			
✓		125 P	1 P	0 P
		<b>Start value</b>	<b>Limits range</b>	<b>Measured value</b>
	<b>Test Sensor</b>			
✓	Coil Curr. Rise	5.000 ms	0.000..14.250 ms	6.356 ms
✓	Coil Curr. Stability		---	---
✓	Electrode Integrity	mV	0.0..300.001 mV	13.116 mV

Legend of symbols

✓	✗	—	?	!
Passed	Failed	not tested	not testable	Attention

## FieldCheck: Parameters Transmitter

Customer	OCWA Kwartha	Plant	Omemeo Lagoons
Order code	Pump 3	Tag Name	-----
Device type	PROMAG 53 W DN100	K-Factor	1.2518 - 1.2518
Serial number	H607FC16000	Zero point	5
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.05.03
Verification date	11/06/2025	Verification time	11:12

<b>Curent Output</b>	<b>Assign</b>	<b>Current Range</b>	<b>Value 0_4mA</b>	<b>Value 20 mA</b>		
Terminal 26/27	VOLUME FLOW	4-20 mA active	0.0 I/s	10.00 I/s		
<b>Pulse Output</b>	<b>Assign</b>	<b>Pulse Value</b>	<b>Output signal</b>	<b>Pulse width</b>		
Terminal 24/25	VOLUME FLOW	5.000 I/P	Passive/Positive	100.01 ms		

Actual System Ident.

121.0

**Appendix V:**  
**Monitoring Wells**

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-1 (A148770)**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Chloride	Ammonia+ Ammonium (as N)	TIN
09-Jan-19	157		1	7.75	<4	<8	0.32	<0.03	0.9	3180	3.15	0	0	N/A			
03-Apr-19	191		1	8.01	4	18	<0.06	<0.03	<0.5	4390	3.91	12	0	N/A			
18-Jul-19	226		1	7.74	<4	<8	0.09	<0.03	<0.5	530	0.003	30	<5	0.1			
23-Oct-19	269		1	7.78	<4	8	0.66	<0.03	<0.5	1730	<0.03	2	<2	0.1			
22-Jan-20	246		1	7.85	<4	<8	0.29	<0.03	<0.5	5670	<0.003	<5	<5	<0.1			
13-May-20	234	409	1	7.86	<4	<8	0.25	<0.03	<0.5	2020	<0.003	<10	<10	0.1			
28-Jul-20	220	370	1	7.92	<4	<8	0.36	<0.03	<0.5	1540	0.003	5	<5	<0.1			
04-Nov-20	231	367	2	8.1	<4	<8	0.46	<0.03	<0.5	6040	<0.003	20	<5	<0.1			
09-Jan-25	229		2	7.61	<4	9	0.30	<0.03	<0.5	457	0.345	<2	<2				
30-Apr-25	249		2	7.61	<4	<8	0.34	<0.03	<0.5	206	0.03	0	0				
04-Jun-25	406			7.42			0.96	<0.03	<0.5	876	<0.003						
21-Aug-25	234		1	7.65	4	<8	0.48	<0.03	<0.5	264		4	0				
10-Oct-25	229						0.25	<0.03	<0.5	618	<0.003					<0.1	
14-Nov-25	243		2	7.63	<4	8	0.42	<0.03	<0.5	654	1.01	0	0				
09-Dec-25			1		<4	8	0.48	<0.03				<2	<2		12	<0.1	0.5

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-2 (A148769)**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Ammonia+ Ammonium (as N)
03-Apr-19	231		2	8.01	4	37	2.02	<0.03	1.2	1270	0.99	<20	<20	N/A	
18-Jul-19	Well not														
27-Nov-19	Dry Well														
22-Jan-20	260		1	7.56	<4	<8	1.6	<0.03	0.7	375	0.008	<5	<5	<0.1	
13-May-20	451	827	1	7.61	<4	<8	1.64	<0.03	<0.5	694	<0.003	<5	<5	<0.1	
28-Jul-20	Well not	accessible													
04-Nov-20	Dry Well														
08-Dec-20	Dry Well														
23-Feb-21	Dry Well														
04-May-21	249	459		8.06			1.14	<0.03	<0.5	349	<0.003			<0.1	
19-Aug-21	Well not	accessible													
23-Nov-21	Dry Well														
10-Mar-22	Dry Well														
22-Jun-22	Well not	accessible													
21-Sep-22	Well not	accessible													
06-Dec-22	Dry Well														
28-Mar-23	251	372		8.27			0.24	<0.03	<0.5	366	<0.003			<0.1	
22-Jun-23	Well not	accessible													
17-Oct-23	Well not	accessible													
09-Jan-24	Well not	accessible													
25-Apr-24	Well not	accessible													
27-Nov-24	Well Dry														
12-Dec-24	Well Dry														
09-Jan-25	Well Dry														
30-Apr-25	Well Dry														
04-Jun-25	Well not	accessible													
26-Jun-25	451			7.29			1.43	<0.03	<0.5	394	<0.003				
21-Aug-25	Well not	accessible													
10-Oct-25	351			7.45			1.78	<0.03	<0.5	415	<0.003				<0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

14-Nov-25	191		1	7.41	<4	12	1.81	<0.03	<0.5	320	0.189	2	0	
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**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-3**

Date	TDS	Conductivity	pH	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP
27-Nov-24	Well Dry							
12-Dec-24	Well Dry							
04-Jun-25	Well Dry							
26-Jun-25	Well Dry							
10-Oct-25	Well Dry							
09-Dec-25	Well Dry							

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-4 (A410222)**

Date	TDS	Conductivity	pH	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	Ammonia+ Ammonium (as N)	BOD	COD	Chloride	DOC	TIN	TC	EC
27-Nov-24	574	763	7.39	1.6	<0.03	<0.5	5730	0.034								
04-Jun-24	Well not	accessible														
26-Jun-24	997	1810	7.22	8.82	0.1	1.2	4200	<0.003								
04-Jun-25	Well not	accessible														
26-Jun-25	997	1810	7.22	8.82	0.1	1.2	4200	<0.003								
10-Oct-25	743		7.29	3.77	0.11	1.1	7870	0.032	0.4							
09-Dec-25				2.75	0.10				0.4	<4	10	330	2	3.3	<2	<2

**Omemees Sewage Lagoons  
Groundwater Monitoring Program**

**MW-101B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Ammonia+ Ammonium (as N)	Chloride	TIN
17-Feb-11	203		<1.0	8.09	<2	17	0.24	<0.06	<0.5	187	<0.009	<2	<2	0.2			
18-Jul-19	200		<1	7.91	<4	<8	0.09	<0.03	<0.5	1810	0.003	<5	<5	<0.1			
25-Oct-19	200		<1	7.69	<4	<8	0.09	<0.03	<0.5	1530	<0.03	2	1	<0.1			
23-Jan-20	191		<1	7.7	<4	11	<0.06	<0.03	<0.5	431	0.007	<5	<5	<0.1			
13-May-20	169	305	<1	7.89	<4	<8	<0.06	<0.03	<0.5	3160	<0.003	<10	<10	<0.1			
01-Sep-20	194	307	<1	7.77	<4	<8	<0.06	<0.03	<0.5	3130	<0.003	<20	<20	<0.1			
04-Nov-20	177	307	<1	8.13	<4	<8	<0.06	<0.03	<0.5	2480	<0.003	<5	<5	<0.1			
23-Feb-21	160	272	1	7.94	<4	<8	<0.06	<0.03	<0.5	1320	<0.003	<20	<20	<0.1			
04-May-21	154	289		8.14			<0.06	<0.03	<0.5	1910	<0.003			<0.1			
19-Aug-21	223	299		7.99			<0.06	<0.03	<0.5	1480	<0.003			<0.1			
23-Nov-21	186	256		7.76			<0.06	<0.03	<0.5	797	0.005			<0.1			
17-Mar-22	197	299		7.73			<0.06	<0.03	<0.5	1030	<0.003			<0.1			
22-Jun-22	229	319		8.22			<0.06	<0.03	<0.5	3010	<0.003			<0.1			
21-Sep-22	223	386		8.15			0.19	<0.03	<0.5	1180	<0.003			<0.1			
06-Dec-22	223	352		7.78			0.13	<0.03	<0.5	1240	<0.003			<0.1			
28-Mar-23	200	346		8.25			<0.06	<0.03	<0.5	955	<0.003			<0.1			
22-Jun-23	220	318		7.66			0.06	<0.03	<0.5	5050	<0.003			<0.1			
17-Oct-23	563	735		7.9			1.08	<0.03	<0.5	1520	<0.003			<0.1			
09-Jan-24	260	396		7.83			0.2	<0.03	0.8	1700	0.038			<0.1			
25-Apr-24	263	389		7.86			<0.06	<0.03	<0.5	2480	<0.003			<0.1			
27-Nov-24	369			7.40			0.59	<0.03	<0.5	1350	<0.003						
04-Jun-25	286			7.39			<0.06	<0.03	<0.5	1410	<0.003						
10-Oct-25	589			7.29			1.74	<0.03	<0.5	1040	<0.003				<0.1		
09-Dec-25			<1		<4	<8	0.29	<0.03				0	0		<0.1	49	0.3

**Omemees Sewage Lagoons  
Groundwater Monitoring Program**

**MW-102B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
23-Nov-09	277		2.3	7.89	15	24	<0.05	<0.06	<0.5	217	<0.01	120	<2	<0.1
23-Aug-19	360		1	7.75	<4	9	0.15	<0.03	<0.5	13300	<0.003	820	<20	0.2
25-Oct-19	331		<1	7.59	<4	<8	0.22	<0.03	<0.5	16400	<0.03	156	<2	0.1
22-Jan-20	Dry Well													
25-Feb-20	Dry Well													
13-May-20	Dry Well													
28-Jul-20	309	538	<1	7.82	<4	<8	0.11	<0.03	<0.5	1340	<0.003	<20	<20	<0.1
04-Nov-20	329	549	1	7.72	4	<8	0.16	<0.03	<0.5	1670	<0.003	8	<2	<0.1
23-Feb-21	331	488	1	7.7	<4	8	0.14	<0.03	<0.5	2270	<0.003	<20	<20	<0.1
04-May-21	360	537		8.03			0.16	<0.03	<0.5	770	<0.003			<0.1
19-Aug-21	389	527		7.71			0.15	<0.03	<0.5	1230	0.027			<0.1
23-Nov-21	337	461		7.48			0.22	<0.03	<0.5	384	0.009			<0.1
17-Mar-22	323	525		7.49			<0.03	0.19	<0.5	1670	<0.003			<0.1
22-Jun-22	326	502		8.1			0.16	<0.03	<0.5	1860	0.003			<0.1
21-Sep-22	294	507		8.07			0.22	<0.03	<0.5	768	0.064			<0.1
06-Dec-22	294	518		7.82			0.3	<0.03	<0.5	500	<0.003			0.3
28-Mar-23	311	497		8.1			0.18	<0.03	<0.5	722	<0.003			<0.1
22-Jun-23	331	522		7.56			0.23	<0.03	<0.5	1920	<0.003			<0.1
17-Oct-23	337	537		8.07			0.16	<0.03	<0.5	1120	0.003			<0.1
09-Jan-24	354	487		7.84			0.22	<0.03	<0.5	625	<0.003			<0.1
25-Apr-24	317	527		7.84			0.30	<0.03	<0.5	534	<0.003			<0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-103**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
17-Feb-11	329		<1.0	7.89	<2	17	4.8	<0.06	<0.5	315	<0.009	<2	<2	<0.1
16-Jul-19	374		1	7.48	<4	8	6.14	<0.03	0.9	3500	<0.003	<5	<5	<0.1
23-Oct-19	351		<1	7.77	<4	<8	7.00	<0.03	<0.5	1280	0.12	14	<2	0.1
23-Jan-20	349		1	7.48	<4	<8	6.57	<0.03	<0.5	849	0.004	<5	<5	<0.1
12-May-20	406	495	1	7.59	<4	<8	5.45	<0.03	<0.5	486	<0.003	0	0	<0.1
28-Jul-20	329	550	1	7.75	<4	<8	7.1	<0.03	<0.5	2000	<0.003	<5	<5	<0.1
04-Nov-20	337	558	1	8.02	<4	<8	7.91	<0.03	<0.5	1520	<0.003	<5	<5	<0.1
23-Feb-21	349	507	1	7.79	<4	<8	7.51	<0.03	<0.5	2610	<0.003	<20	<20	<0.1
04-May-21	303	556		8.02			7.16	<0.03	<0.5	440	<0.003			<0.1
19-Aug-21	374	551		7.76			8.16	<0.03	<0.5	1000	<0.003			<0.1
23-Nov-21	311	459		7.52			7.82	<0.03	<0.5	2220	<0.003			<0.1
10-Mar-22	297	509		8.11			3.93	<0.03	<0.5	786	<0.003			<0.1
22-Jun-22	360	533		8.09			7.39	<0.03	<0.5	5550	<0.003			<0.1
21-Sep-22	309	560		8.01			8.3	<0.03	0.6	635	<0.003			<0.1
07-Dec-22	360	550		7.64			7.86	<0.03	<0.5	926	<0.003			<0.1
28-Mar-23	269	460		8.08			3.5	<0.03	<0.5	1510	<0.003			<0.1
22-Jun-23	323	537		7.49			5.68	<0.03	<0.5	1750	0.026			<0.1
17-Oct-23	371	560		7.96			7.45	<0.03	<0.5	1140	0.005			<0.1
09-Jan-24	400	582		7.82			8.18	<0.03	<0.5	456	<0.003			<0.1
25-Apr-24	320	547		7.82			5.21	<0.03	<0.5	1020	<0.003			<0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-104B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
17-Feb-11	377		1.6	7.86	<2	16	<0.05	<0.06	<0.5	358	<0.009	<2	<2	<0.1
16-Jul-19	451		2	7.52	5	<8	0.08	<0.03	0.9	12300	0.004	200	<20	0.1
23-Oct-19	403		<1	7.58	<4	<8	0.31	<0.03	<0.5	1890	<0.03	440	<20	0.1
22-Jan-20	354		1	7.26	<4	<8	0.35	<0.03	0.7	504	<0.003	<5	<5	<0.1
13-May-20	363	617	1	7.43	<4	<8	0.39	<0.03	<0.5	3830	<0.003	<10	<10	<0.1
28-Jul-20	374	603	1	7.51	<4	<8	0.35	<0.03	<0.5	1660	<0.003	5	<5	<0.1
04-Nov-20	349	614	1	7.95	<4	<8	0.32	<0.03	<0.5	1190	<0.003	<2	<2	<0.1
23-Feb-21	360	539	1	7.63	<4	<8	0.32	<0.03	<0.5	2410	<0.003	<20	<20	<0.1
04-May-21	383	589		7.92			0.28	<0.03	<0.5	959	0.005			<0.1
19-Aug-21	394	587		7.34			0.29	<0.03	<0.5	1110	0.003			<0.1
23-Nov-21	346	498		7.36			0.26	<0.03	<0.5	499	<0.003			<0.1
17-Mar-22	369	601		7.34			0.33	<0.03	<0.5	823	<0.003			<0.1
22-Jun-22	374	581		8.1			0.36	<0.03	<0.5	621	0.006			<0.1
21-Sep-22	329	603		8.01			0.28	<0.03	<0.5	413	<0.003			<0.1
06-Dec-22	506	584		7.63			0.32	<0.03	<0.5	504	<0.003			<0.1
28-Mar-23	380	570		8			0.54	<0.03	<0.5	606	0.004			<0.1
22-Jun-23	386	604		7.26			0.41	<0.03	<0.5	1060	<0.003			<0.1
17-Oct-23	374	627		8			0.33	<0.03	<0.5	1150	<0.003			<0.1
09-Jan-24	363	599		7.79			0.43	<0.03	<0.5	943	<0.003			<0.1
25-Apr-24	380	618		7.73			0.54	<0.03	<0.5	611	<0.003			<0.1

**Omemees Sewage Lagoons  
Groundwater Monitoring Program**

**MW-105B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Ammonia+ Ammonium (as N)	Chloride	TIN
17-Feb-11	286		<1.0	7.96	<2	14	1.28	<0.06	0.9	255	<0.009	<2	<2	0.2			
18-Jul-19	411		2	7.63	<4	<8	13.4	<0.03	1.4	1790	0.003	<5	<5	0.1			
23-Oct-19	383		<1	7.76	<4	<8	14.4	<0.03	<0.5	1300	0.04	100	<20	<0.1			
22-Jan-20	409		1	7.49	<4	16	17.7	<0.03	<0.5	1220	<0.003	<5	<5	<0.1			
13-May-20	394	626	1	7.56	<4	<8	18.3	<0.03	0.5	575	<0.003	<5	<5	<0.1			
28-Jul-20	443	605	1	7.8	<4	<8	18.1	<0.03	<0.5	1090	<0.003	<5	<5	<0.1			
04-Nov-20	417	623	1	8.02	<4	<8	18.8	<0.03	0.5	1360	<0.003	5	<5	<0.1			
23-Feb-21	434	572	1	7.74	<4	<8	21	<0.03	<0.5	1040	0.192	<5	<5	<0.1			
04-May-21	451	631		8			21.7	<0.03	<0.5	821	<0.003			<0.1			
19-Aug-21	451	615		7.63			20.7	<0.03	<0.5	957	<0.003			<0.1			
23-Nov-21	397	530		7.53			21.9	<0.03	<0.5	706	0.004			<0.1			
10-Mar-22	414	626		8.09			20.6	<0.03	<0.5	2340	<0.003			<0.1			
22-Jun-22	471	618		8.12			22.4	<0.03	<0.5	1130	<0.003			<0.1			
21-Sep-22	411	658		8.01			24.7	<0.03	<0.5	705	<0.003			<0.1			
06-Dec-22	420	612		7.9			22.5	<0.03	<0.5	942	<0.003			<0.1			
28-Mar-23	394	598		8.07			20.3	<0.03	<0.5	525	<0.003			<0.1			
22-Jun-23	446	614		7.46			20.2	<0.03	<0.5	3570	0.015			<0.1			
17-Oct-23	429	652		8.04			21	<0.03	2.9	1830	<0.003			<0.1			
09-Jan-24	460	584		7.84			21	<0.03	<0.5	1110	0.014			<0.1			
25-Apr-24	320	515		7.77			11.2	<0.03	<0.5	918	<0.003			<0.1			
27-Nov-24	409	445		7.52			19.9	<0.03	0.6	1080	<0.003						
04-Jun-25	477	404		7.45			19.2	<0.03	<0.5	1060	<0.003						
10-Oct-25	443			7.39			20.30	<0.03	<0.5	1370	<0.003			<0.1			
09-Dec-25					<4	<8	17.40	<0.03				15	<2	<0.1		12	17.4

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-106B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Ammonia+Ammonium (as N)	Chloride	TIN
17-Feb-11	266		<1.0	8.08	7	18	<0.05	<0.06	<0.5	242	0.065	<2	<2	0.3			
18-Jul-19	329		1	7.82	<4	<8	<0.06	<0.03	<0.5	12900	0.019	<20	<20	0.2			
23-Oct-19	306		1	7.92	<4	<8	<0.06	<0.03	<0.5	2650	<0.03	<100	<20	0.2			
22-Jan-20	306		1	7.86	8	<8	<0.06	<0.03	1.3	13200	6.48	<5	<5	0.1			
13-May-20	291	481	1	7.90	<4	<8	<0.06	<0.03	<0.5	2560	0.018	<10	<10	0.1			
28-Jul-20	283	458	1	7.95	<4	<8	<0.06	<0.03	<0.5	6870	0.003	<5	<5	0.1			
05-Nov-20	294	455	<1	7.94	<4	<8	<0.06	<0.03	<0.5	3210	<0.003	20	<20	0.1			
23-Feb-21	286	435	1	7.84	<4	<8	<0.06	<0.03	<0.5	12700	<0.003	<20	<20	<0.1			
14-May-21	343	479		7.82			<0.06	<0.03	<0.5	2460	0.023			0.1			
19-Aug-21	371	471		7.9			<0.06	<0.03	<0.5	1930	<0.003			0.1			
23-Nov-21	311	433		7.79			<0.06	<0.03	<0.5	550	0.008			0.2			
10-Mar-22	314	515		8.11			<0.06	<0.03	<0.5	6060	0.004			<0.1			
22-Jun-22	371	510		8.21			<0.06	<0.03	<0.5	8210	0.006			<0.1			
21-Sep-22	334	512		8.09			<0.06	<0.03	<0.5	511	0.003			<0.1			
06-Dec-22	314	486		7.95			<0.06	<0.03	<0.5	10200	0.004			<0.1			
28-Mar-23	366	561		8.11			<0.06	<0.03	<0.5	5610	0.013			<0.1			
22-Jun-23	323	526		7.57			<0.06	<0.03	<0.5	4350	0.005			<0.1			
17-Oct-23	329	556		8.03			<0.06	0.05	<0.5	3580	<0.003			0.1			
09-Jan-24	354	519		7.81			<0.06	<0.03	<0.5	2290	0.003			0.1			
25-Apr-24	369	532		8.06			<0.06	<0.03	<0.5	892	0.059			<0.1			
27-Nov-24	420			7.48			<0.06	<0.03	<0.5	3890	0.004						
04-Jun-25	437	404		7.50			<0.06	<0.03	<0.5	1160	0.005						
10-Oct-25	426			7.38			<0.06	<0.03	<0.5	401	<0.003			<0.1			
09-Dec-25			1.00		<4	<8	0.08	<0.03				0	0	<0.1	120		0.1

**Omemees Sewage Lagoons  
Groundwater Monitoring Program**

**MW-107B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
17-Feb-11	343		<1.0	7.97	3	17	<0.05	<0.06	<0.5	296	<0.009	<2	<2	0.1
18-Jul-19	443		1	7.66	<4	<8	<0.06	<0.03	<0.5	11700	<0.003	<20	<20	0.1
25-Oct-19	454		<1	7.57	<4	<8	<0.06	<0.03	<0.5	6520	<0.03	<2	<2	0.1
22-Jan-20	Dry Well													
25-Feb-20	394		1	7.61	<4	<8	<0.06	<0.03	<0.5	4010	<0.003	<5	<5	<0.1
13-May-20	414	651	1	7.77	<4	<8	<0.06	<0.03	<0.5	3830	<0.003	<10	<10	0.1
28-Jul-20	420	622	1	7.72	<4	14	<0.06	<0.03	<0.5	3550	<0.003	100	10	<0.1
05-Nov-20	411	597	<1	7.82	<4	<8	<0.06	<0.03	<0.5	3320	<0.003	<5	<5	<0.1
23-Feb-21	431	570	1	7.85	<4	8	<0.06	<0.03	<0.5	2020	<0.003	520	<5	<0.1
14-May-21	480	629		7.75			0.08	<0.03	<0.5	2550	0.039			<0.1
19-Aug-21	471	628		7.75			<0.06	<0.03	<0.5	1120	<0.003			<0.1
23-Nov-21	440	541		7.51			<0.06	<0.03	<0.5	420	0.014			<0.1
10-Mar-22	397	685		8.11			<0.06	<0.03	<0.5	1170	<0.003			<0.1
22-Jun-22	483	653		8.12			<0.06	<0.03	<0.5	6340	<0.003			<0.1
21-Sep-22	429	649		8.03			<0.06	<0.03	<0.5	846	0.19			<0.1
06-Dec-22	420	624		7.97			<0.06	<0.03	<0.5	1310	<0.003			<0.1
28-Mar-23	411	656		8.1			<0.06	<0.03	<0.5	941	0.004			<0.1
22-Jun-23	494	676		7.44			<0.06	<0.03	<0.5	1420	<0.003			<0.1
17-Oct-23	437	697		7.98			<0.06	<0.03	<0.5	2000	0.012			<0.1
09-Jan-24	494	624		7.96			<0.06	<0.03	0.9	2270	<0.003			<0.1
25-Apr-24	463	691		7.86			<0.06	<0.03	<0.5	1130	<0.003			<0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-108B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
17-Feb-11	186		1.2	8.2	<2	16	0.06	<0.06	<0.5	177	<0.009	<2	<2	0.1
23-Aug-19	263		<1	7.99	<4	10	0.06	<0.03	<0.5	1860	0.185	40	<2	0.2
23-Oct-19	569		<1	7.83	<4	<8	0.13	<0.03	<0.5	12300	<0.03	140	<20	0.1
23-Jan-20	297		<1	7.97	<4	<8	0.12	<0.03	<0.5	1710	<0.003	5	<5	<0.1
13-May-20	289	485	<1	7.72	<4	<8	0.06	<0.03	<0.5	1110	<0.003	20	<10	<0.1
01-Sep-20	274	477	1	7.69	<4	26	<0.06	<0.03	<0.5	3800	<0.003	260	<5	<0.1
05-Nov-20	286	458	<1	7.96	<4	<8	0.07	<0.03	<0.5	832	0.025	40	<2	<0.1
23-Feb-21	269	415	1	7.98	<4	<8	0.08	<0.03	<0.5	2120	<0.003	110	<5	<0.1
14-May-21	300	461		7.83			<0.06	<0.03	<0.5	783	0.062			0.2
19-Aug-21	303	455		7.92			0.07	<0.03	<0.5	1810	0.305			<0.1
23-Nov-21	283	393		7.75			0.08	<0.03	<0.5	1740	0.008			<0.1
10-Mar-22	260	483		8.13			0.07	<0.03	<0.5	1120	<0.003			<0.1
22-Jun-22	289	466		8.22			0.08	<0.03	<0.5	2030	0.004			<0.1
21-Sep-22	266	475		8.12			0.08	<0.03	<0.5	484	<0.003			<0.1
06-Dec-22	271	452		8.05			0.16	<0.03	<0.5	677	<0.003			<0.1
28-Mar-23	277	449		8.14			0.07	<0.03	<0.5	833	<0.003			<0.1
22-Jun-23	309	473		7.59			0.11	<0.03	<0.5	670	<0.003			<0.1
17-Oct-23	306	479		8.1			0.07	<0.03	<0.5	540	<0.003			<0.1
09-Jan-24	303	370		7.88			0.07	<0.03	<0.5	519	<0.003			<0.1
25-Apr-24	309	473		7.87			0.06	<0.03	<0.5	588	0.089			<0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-109B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Ammonia+Ammonium (as N)	Chloride	TIN
17-Feb-11	223		1.1	8.11	<2	17	<0.05	<0.06	1	168	0.021	<2	<2	0.4			
18-Jul-19	229		<1	7.88	<4	<8	<0.06	<0.03	0.7	15200	0.006	20	<20	0.3			
25-Oct-19	257		1	7.9	<4	<8	<0.06	<0.03	0.6	9060	0.2	<2	<2	0.2			
23-Jan-20	257		1	7.82	4	12	<0.06	<0.03	<0.5	13600	0.011	5	<5	0.1			
13-May-20	240	368	1	7.85	<4	<8	<0.06	<0.03	<0.5	2410	0.006	780	<20	0.2			
01-Sep-20	240	357	1	7.9	<4	16	<0.06	<0.03	<0.5	2260	<0.003	<5	<5	0.1			
05-Nov-20	223	348	1	7.97	9	<8	<0.06	<0.03	<0.5	1440	<0.003	440	<2	0.1			
23-Feb-21	280	435	2	7.96	<4	8	0.24	<0.03	<0.5	3080	0.217	400	<100	0.1			
14-May-21	249	351		8.03			<0.06	<0.03	<0.5	2710	0.08			<0.1			
19-Aug-21	420	346		8.02			<0.06	<0.03	<0.5	6480	<0.003			0.2			
23-Nov-21	206	284		7.93			<0.06	<0.03	<0.5	6840	0.006			0.2			
10-Mar-22	270	350		8.22			<0.06	<0.03	0.6	12300	0.006			0.1			
22-Jun-22	234	342		8.28			<0.06	<0.03	<0.5	2730	0.009			0.1			
21-Sep-22	237	355		8.17			<0.06	<0.03	<0.5	397	0.009			<0.1			
06-Dec-22	203	299		8.11			<0.06	<0.03	<0.5	2280	0.005			0.1			
28-Mar-23	229	353		8.31			<0.06	<0.03	<0.5	2310	0.009			<0.1			
22-Jun-23	237	318		7.75			<0.06	<0.03	<0.05	23800	<0.003			0.2			
17-Oct-23	203	366		8.28			<0.06	<0.03	<0.5	8290	0.005			0.2			
09-Jan-24	257	346		7.87			<0.06	<0.03	0.5	2250	0.004			0.1			
25-Apr-24	254	382		7.92			<0.06	<0.03	<0.5	1100	0.012			0.1			
27-Nov-24	226			7.87			<0.06	<0.03	<0.5	6910	<0.003						
04-Jun-25	294			7.62			0.34	<0.03	<0.5	2540	<0.003						
10-Oct-25	217			7.45			0.31	<0.03	<0.5	335	0.008			<0.1			
09-Dec-25			1.00		<4	<8	<0.06	<0.03				141	0	0.1	20		0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-110**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
23-Nov-09	326		1.1	7.78	<4	<8	0.5	<0.06	<0.5	210	<0.01	2	<2	<0.1
18-Jul-19	283		<1	7.74	<4	<8	2.18	<0.03	0.7	1870	<0.003	<20	<20	<0.1
27-Nov-19	Dry Well													
22-Jan-20	Dry Well													
25-Feb-20	Dry Well													
13-May-20	229	392	1	7.76	<4	<8	0.87	<0.03	<0.5	3480	<0.003	<10	<10	<0.1
28-Jul-20	Dry Well													
01-Sep-20	Dry Well													
04-Nov-20	Dry Well													
08-Dec-20	Dry Well													
23-Feb-21	Dry Well													
19-Aug-21	Dry Well													
23-Nov-21	Dry Well													
10-Mar-22	Dry Well													
22-Jun-22	Dry Well													
21-Sep-22	Dry Well													
06-Dec-22	Dry Well													
28-Mar-23	Dry Well													
22-Jun-23	Dry well													
17-Oct-23	Dry Well													
09-Jan-24	Dry well													
25-Apr-24	Dry Well													
27-Nov-24	Dry Well													
12-Dec-24	Dry Well													
04-Jun-25	Dry Well													
26-Jun-25	Dry Well													
10-Oct-25	Dry Well													
09-Dec-25	Dry Well													

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-111B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)	Ammonia+ Ammonium (as N)	Chloride	TIN
17-Feb-11	363		<1.0	7.93	<2	20	5.96	<0.06	0.6	320	<0.009	<2	<2	0.1			
16-Jul-19	397		1	7.64	<4	<8	0.74	<0.03	0.8	344	0.003	0	0	0.1			
23-Oct-19	409		<1	7.76	<4	<8	0.75	<0.03	<0.5	522	<0.03	<20	<20	<0.1			
23-Jan-20	377		1	7.52	<4	27	0.7	<0.03	<0.5	1540	<0.003	<5	<5	<0.1			
12-May-20	380	567	<1	7.61	<4	<8	0.2	<0.03	<0.5	634	<0.003	80	<20	<0.1			
28-Jul-20	369	585	1	7.8	<4	<8	0.95	<0.03	<0.5	439	0.023	28	<2	<0.1			
04-Nov-20	349	566	1	8.07	<4	<8	1.96	<0.03	<0.5	425	<0.003	20	<2	<0.1			
23-Feb-21	334	504	1	7.98	<4	<8	0.87	<0.03	<0.5	507	<0.003	<5	<5	<0.1			
04-May-21	346	557		8.05			0.73	<0.03	<0.5	432	<0.003			<0.1			
19-Aug-21	411	597		7.7			1	<0.03	<0.5	439	<0.003			<0.1			
23-Nov-21	331	477		7.53			1.22	<0.03	<0.5	480	<0.003			<0.1			
10-Mar-22	351	571		8.14			0.55	<0.03	<0.5	653	<0.003			<0.1			
22-Jun-22	334	568		8.11			0.41	0.03	<0.5	671	<0.003			<0.1			
21-Sep-22	349	590		8.05			1.06	<0.03	<0.5	319	<0.003			<0.1			
07-Dec-22	371	559		7.79			1.1	<0.03	<0.5	1110	0.011			0.2			
28-Mar-23	323	539		8.08			0.73	<0.03	<0.5	454	<0.003			<0.1			
22-Jun-23	360	567		7.53			0.31	<0.03	<0.5	584	<0.003			<0.1			
17-Oct-23	926	1240		7.95			1.44	<0.03	0.7	823	<0.003			<0.1			
09-Jan-24	446	751		7.84			0.54	<0.03	<0.5	480	<0.003			<0.1			
25-Apr-24	486	736		7.7			0.56	<0.03	<0.5	485	<0.003			<0.1			
27-Nov-24	534			7.4			1.38	<0.03	<0.5	1380	0.034						
04-Jun-25	389			7.49			0.34	<0.03	<0.5	431	<0.003						
10-Oct-25	517			7.35			1.21	<0.03	<0.5	633	0.009				<0.1		
09-Dec-25			<1		<4	<8	1.49	<0.03				2	0		<0.1	190	1.5

**Omemees Sewage Lagoons  
Groundwater Monitoring Program**

**MW-113B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
23-Nov-09	294		<1.0	7.76	<4	<8	1.61	0.08	<0.5	245	<0.01	108	<2	0.1
16-Jul-19	374		1	7.53	<4	<8	1.11	<0.03	0.8	15200	0.237	<20	<20	<0.1
23-Oct-19	306		<1	7.65	<4	<8	1.36	<0.03	<0.5	5250	<0.03	800	<20	<0.1
23-Jan-20	286		<1	7.64	<4	<8	1.69	<0.03	<0.5	5900	<0.003	<5	<5	<0.1
12-May-20	343	496	1	7.44	<4	<8	1.2	<0.03	<0.5	11800	<0.003	<100	<20	<0.1
01-Sep-20	286	490	<1	7.49	<4	18	1	<0.03	<0.5	852	<0.003	20	<10	<0.1
04-Nov-20	283	506	1	8.01	<4	<8	1.26	<0.03	<0.5	5920	0.063	<20	<20	<0.1
23-Feb-21	303	461	1	7.68	<4	<8	1.61	<0.03	<0.5	5850	<0.003	<20	<20	<0.1
04-May-21	297	498		8			1.37	<0.03	<0.5	950	0.003			<0.1
19-Aug-21	323	495		7.59			1.42	<0.03	<0.5	1320	<0.003			<0.1
23-Nov-21	334	438		7.42			1.67	<0.03	<0.5	467	0.003			<0.1
10-Mar-22	306	520		8.06			1.55	<0.03	<0.5	2460	<0.003			<0.1
22-Jun-22	294	480		8.08			1.43	<0.03	<0.5	1160	0.003			<0.1
21-Sep-22	297	510		8.03			1.75	<0.03	<0.5	819	<0.003			<0.1
07-Dec-22	314	519		7.59			1.97	<0.03	<0.5	1670	<0.003			<0.1
28-Mar-23	311	466		8.03			1.76	<0.03	<0.5	509	<0.003			<0.1
22-Jun-23	317	492		7.43			1.22	<0.03	<0.5	1820	<0.003			<0.1
17-Oct-23	334	517		8.08			1.83	<0.03	<0.5	2440	<0.003			<0.1
09-Jan-24	343	474		7.8			2.02	<0.03	<0.5	2540	<0.003			<0.1
25-Apr-24	314	506		7.66			2.16	<0.03	<0.5	1470	<0.003			<0.1

**Omeme Sewage Lagoons  
Groundwater Monitoring Program**

**MW-114B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
23-Nov-09	289		<1.0	7.67	<4	<8	0.75	<0.06	<0.5	262	<0.01	40	<2	<0.1
16-Jul-19	400		1	7.71	<4	<8	0.74	<0.03	<0.5	1650	0.006	<5	<5	<0.1
23-Oct-19	289		<1	7.8	<4	<8	0.89	<0.03	<0.5	372	<0.03	<2	<2	<0.1
23-Jan-20	286		<1	7.6	<4	15	1.07	<0.03	<0.5	418	<0.003	<5	<5	<0.1
12-May-20	283	436	<1	7.76	<4	<8	0.61	<0.03	<0.5	316	<0.003	0	0	<0.1
01-Sep-20	254	448	1	7.63	<4	<8	0.77	<0.03	<0.5	3530	<0.003	<2	<2	<0.1
04-Nov-20	263	438	<1	8.03	<4	<8	1	<0.03	<0.5	1640	0.012	<5	<5	<0.1
23-Feb-21	260	427	1	7.73	<4	<8	1.11	<0.03	<0.5	345	<0.003	<5	<5	<0.1
04-May-21	286	465		8.11			1.08	<0.03	<0.5	330	<0.003			<0.1
19-Aug-21	323	454		7.78			1.04	<0.03	<0.5	555	0.006			<0.1
23-Nov-21	280	376		7.63			1.07	<0.03	<0.5	344	<0.003			<0.1
10-Mar-22	260	469		8.12			1.12	<0.03	<0.5	305	<0.003			<0.1
22-Jun-22	271	420		8.1			0.74	<0.03	<0.5	3450	<0.003			<0.1
21-Sep-22	257	456		8.08			0.83	<0.03	<0.5	373	<0.003			<0.1
07-Dec-22	263	459		7.83			0.94	<0.03	<0.5	301	<0.003			<0.1
28-Mar-23	260	451		8.12			1.03	<0.03	<0.5	260	0.003			<0.1
22-Jun-23	260	436		7.49			0.54	<0.03	<0.5	497	<0.003			<0.1
17-Oct-23	306	460		8.07			0.94	<0.03	<0.5	265	<0.003			<0.1
09-Jan-24	286	465		7.89			1.02	<0.03	<0.5	238	<0.003			<0.1
25-Apr-24	260	475		7.85			1.07	<0.03	<0.5	295	<0.003			<0.1

**Omemees Sewage Lagoons  
Groundwater Monitoring Program**

**MW-115B**

Date	TDS	Conductivity	DOC	pH	BOD	COD	Nitrate (N)	Nitrite (N)	TKN	Hardness	TP	TC	EC	Ammonia (N)
23-Nov-09	271		<1.0	7.86	<4	<8	1.04	<0.06	<0.5	243	<0.01	<2	<2	<0.1
16-Jul-19	334		1	7.7	<4	<8	0.45	<0.03	0.7	18200	<0.003	20	<20	<0.1
23-Oct-19	286		<1	7.88	<4	<8	0.47	<0.03	<0.5	211	<0.03	200	<100	<0.1
23-Jan-20	246		<1	7.71	<4	<8	0.37	<0.03	<0.5	13100	0.005	<5	<5	<0.1
12-May-20	314	431	<1	7.77	<4	<8	0.28	<0.03	<0.5	8730	<0.003	<100	<20	<0.1
28-Jul-20	274	438	1	7.89	<4	<8	0.4	<0.03	<0.5	1770	0.006	40	<5	<0.1
04-Nov-20	334	569	1	8.07	<4	<8	8.65	<0.03	<0.5	572	<0.003	6400	<20	<0.1
23-Feb-21	223	417	1	8	<4	<8	0.35	<0.03	<0.5	3290	0.012	80	<20	<0.1
04-May-21	206	443		8.09			0.43	<0.03	<0.5	650	0.003			<0.1
19-Aug-21	314	429		7.94			0.21	<0.03	<0.5	968	<0.003			<0.1
23-Nov-21	240	361		7.65			0.24	<0.03	<0.5	1610	<0.003			<0.1
10-Mar-22	255	463		8.15			0.51	<0.03	<0.5	12800	1.81			<0.1
22-Jun-22	257	435		8.17			0.29	<0.03	<0.5	4990	<0.003			<0.1
15-Sep-22	226	442		8.09			0.38	<0.03	<0.5	567	<0.003			<0.1
07-Dec-22	243	427		7.83			0.12	<0.03	<0.5	3100	<0.003			<0.1
28-Mar-23	231	454		8.05			0.42	<0.03	<0.5	402	<0.003			<0.1
22-Jun-23	283	451		7.62			0.23	<0.03	<0.5	7480	0.004			<0.1
17-Oct-23	294	450		8.15			0.26	<0.03	<0.5	571	<0.003			<0.1
09-Jan-24	257	442		7.9			0.18	<0.03	<0.5	673	<0.003			<0.1
25-Apr-24	289	460		7.94			0.32	<0.03	<0.5	635	<0.003			<0.1





**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

**Appendix VI:**  
**Bypass/Overflow**  
**Quarterly Reports**



May 15, 2025

Courtney Redmond  
District Manager (A)  
Peterborough District Office  
Ministry of the Environment, Conservation and Parks  
300 Water Street, 2<sup>nd</sup> Floor, South Tower  
Peterborough, ON  
K9J 8M5

Dear Ms. Redmond:

**Re: Omeme Sewage Lagoon 2025 Q1 Bypass and Plant Overflow Event Report**

Amended Environmental Compliance Approval #2737-B4DH46, sections 4(6) and 5(6) issued September 28, 2018 for the Omeme Sewage Lagoon requires a Bypass Event and Overflow Event summary report be submitted to the District Manager on a quarterly basis, no later than February 15, May 15, August 15, and November 15 each calendar year.

The Bypass Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Bypass(es).

- the date and time of the Bypass;
- the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;
- the effort(s) done to maximize the flow through the downstream treatment process(es)
- the reason(s) why the Bypass was not avoided the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the estimated or measured volume of Bypass
- results of the sample(s) collected of the Final Effluent, representative of the Event, at the Final Effluent Compliance sampling point, and analyzed for all effluent parameters outlined in the Effluent Limits condition.

The Overflow Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Overflow(s).

- the date and time of the Overflow;
- 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;
- the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypass(es) and the reason(s) why the Overflow was not avoided;
- the date and time of the end of the Overflow;
- the estimated or measured volume of the Overflow;
- the location of the Overflow and the receiver;



- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the monitored or estimated volume of the Overflow;
- the impact of Overflow on the receiver; and
- results of the sample(s) collected, consisting of collect 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, except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.

There were no incidents of a Bypass or Overflow Events at the Omemeew Sewage Lagoon during the first quarter of 2025 (January, February, and March).

Please contact me if you have any questions or comments.

Best regards,

Cindy Coffin, A.Sc.T.  
Process & Compliance Technician  
Ontario Clean Water Agency  
Kawartha Trent Regional Hub – South Cluster  
(705) 731-7507

CC: Pat Lucas, OCWA – Senior Operations Manager  
Allison McCann, OCWA – SPC Manager  
Lynette Nicholson, OCWA – General Manager  
Karen Lorente, OCWA – Regional Hub Manager  
Amber Hayter, City of Kawartha Lakes – Manager  
Michelle Flaherty, City of Kawartha Lakes – Contract Coordinator  
Brad Jackson, MECP – Peterborough District Office – Water Compliance Supervisor (A)



July 18, 2025

David Bradley  
District Manager  
Peterborough District Office  
Ministry of the Environment, Conservation and Parks  
300 Water Street, 2<sup>nd</sup> Floor, South Tower  
Peterborough, ON  
K9J 8M5

Dear Mr. Bradley:

**Re: Omeme Sewage Lagoon 2025 Q2 Bypass and Plant Overflow Event Report**

Amended Environmental Compliance Approval #2737-B4DH46, sections 4(6) and 5(6) issued September 28, 2018 for the Omeme Sewage Lagoon requires a Bypass Event and Overflow Event summary report be submitted to the District Manager on a quarterly basis, no later than February 15, May 15, August 15, and November 15 each calendar year.

The Bypass Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Bypass(es).

- the date and time of the Bypass;
- the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;
- the effort(s) done to maximize the flow through the downstream treatment process(es)
- the reason(s) why the Bypass was not avoided the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the estimated or measured volume of Bypass
- results of the sample(s) collected of the Final Effluent, representative of the Event, at the Final Effluent Compliance sampling point, and analyzed for all effluent parameters outlined in the Effluent Limits condition.

The Overflow Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Overflow(s).

- the date and time of the Overflow;
- 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;
- the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypass(es) and the reason(s) why the Overflow was not avoided;
- the date and time of the end of the Overflow;
- the estimated or measured volume of the Overflow;
- the location of the Overflow and the receiver;



- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the monitored or estimated volume of the Overflow;
- the impact of Overflow on the receiver; and
- results of the sample(s) collected, consisting of collect 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, except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.

There were no incidents of a Bypass or Overflow Events at the Omemee Sewage Lagoon during the second quarter of 2025 (April, May, and June).

Please contact me if you have any questions or comments.

Best regards,

Cindy Coffin, A.Sc.T.  
Process & Compliance Technician  
Ontario Clean Water Agency  
Kawartha Trent Regional Hub – South Cluster  
(705) 731-7507

CC: Pat Lucas, OCWA – Senior Operations Manager  
Allison McCann, OCWA – SPC Manager  
Lynette Nicholson, OCWA – General Manager  
Karen Lorente, OCWA – Regional Hub Manager  
Amber Hayter, City of Kawartha Lakes – Manager  
Michelle Flaherty, City of Kawartha Lakes – Contract Coordinator  
Rebecca Troan, MECP – Peterborough District Office – Water Compliance Supervisor (A)  
Holie Fletcher, MECP – Peterborough District Office – Water Compliance Officer



November 14, 2025

David Bradley  
District Manager  
Peterborough District Office  
Ministry of the Environment, Conservation and Parks  
300 Water Street, 2<sup>nd</sup> Floor, South Tower  
Peterborough, ON  
K9J 8M5

Dear Mr. Bradley:

**Re: Omeme Sewage Lagoon 2025 Q3 Bypass and Plant Overflow Event Report**

Amended Environmental Compliance Approval #2737-B4DH46, sections 4(6) and 5(6) issued September 28, 2018 and Amended Environmental Compliance Approval #3789-DGWKKV, sections 4(6) and 5(6) issued September 23, 2025 for the Omeme Sewage Lagoon requires a Bypass Event and Overflow Event summary report be submitted to the District Manager on a quarterly basis, no later than February 15, May 15, August 15, and November 15 each calendar year.

The Bypass Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Bypass(es).

- the date and time of the Bypass;
- the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;
- the effort(s) done to maximize the flow through the downstream treatment process(es)
- the reason(s) why the Bypass was not avoided the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the estimated or measured volume of Bypass
- results of the sample(s) collected of the Final Effluent, representative of the Event, at the Final Effluent Compliance sampling point, and analyzed for all effluent parameters outlined in the Effluent Limits condition.

The Overflow Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Overflow(s).

- the date and time of the Overflow;
- 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;
- the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypass(es) and the reason(s) why the Overflow was not avoided;
- the date and time of the end of the Overflow;
- the estimated or measured volume of the Overflow;



- the location of the Overflow and the receiver;
- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the monitored or estimated volume of the Overflow;
- the impact of Overflow on the receiver; and
- results of the sample(s) collected, consisting of collect 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, except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.

There were no incidents of a Bypass or Overflow Events at the Omemee Sewage Lagoon during the third quarter of 2025 (July, August, and September).

Please contact me if you have any questions or comments.

Best regards,

Cindy Coffin, A.Sc.T.  
Process & Compliance Technician  
Ontario Clean Water Agency  
Kawartha Trent Regional Hub – South Cluster  
(705) 731-7507

CC: Katie Campbell, OCWA – Senior Operations Manager (A)  
Allison McCann, OCWA – SPC Manager  
Lynette Nicholson, OCWA – General Manager  
Karen Lorente, OCWA – Regional Hub Manager  
Amber Hayter, City of Kawartha Lakes – Manager  
Michelle Flaherty, City of Kawartha Lakes – Contract Coordinator  
Brittney Wielgos, MECP – Peterborough District Office – Water Compliance Supervisor  
Holie Fletcher, MECP – Peterborough District Office – Water Compliance Officer



February 13, 2026

Courtney Redmond  
District Manager  
Peterborough District Office  
Ministry of the Environment, Conservation and Parks  
300 Water Street, 2<sup>nd</sup> Floor, South Tower  
Peterborough, ON  
K9J 8M5

Dear Ms. Redmond:

**Re: Omeme Sewage Lagoon 2025 Q4 Bypass and Plant Overflow Event Report**

Amended Environmental Compliance Approval #2737-B4DH46, sections 4(6) and 5(6) issued September 28, 2018 and Amended Environmental Compliance Approval #3789-DGWKKV, sections 4(6) and 5(6) issued September 23, 2025 for the Omeme Sewage Lagoon requires a Bypass Event and Overflow Event summary report be submitted to the District Manager on a quarterly basis, no later than February 15, May 15, August 15, and November 15 each calendar year.

The Bypass Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Bypass(es).

- the date and time of the Bypass;
- the treatment process(es) gone through prior to the Bypass and the treatment process(es) bypassed;
- the effort(s) done to maximize the flow through the downstream treatment process(es)
- the reason(s) why the Bypass was not avoided the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the estimated or measured volume of Bypass
- results of the sample(s) collected of the Final Effluent, representative of the Event, at the Final Effluent Compliance sampling point, and analyzed for all effluent parameters outlined in the Effluent Limits condition.

The Overflow Event(s) report shall be submitted and shall contain, at a minimum, the types of information set out in Subsections (3), (4) and (5) for Overflow(s).

- the date and time of the Overflow;
- 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;
- the effort(s) done to maximize the flow through the downstream treatment process(es) and Bypass(es) and the reason(s) why the Overflow was not avoided;
- the date and time of the end of the Overflow;
- the estimated or measured volume of the Overflow;



- the location of the Overflow and the receiver;
- the reason(s) for the Overflow;
- the level of treatment the Overflow has received and disinfection status of same;
- the duration of the Overflow Event;
- the monitored or estimated volume of the Overflow;
- the impact of Overflow on the receiver; and
- results of the sample(s) collected, consisting of collect 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, except that raw sewage and primary treated effluent Overflow shall be analyzed for BOD5, total suspended solids, total phosphorus and total Kjeldahl nitrogen only.

There were no incidents of a Bypass or Overflow Events at the Omemee Sewage Lagoon during the fourth quarter of 2025 (October, November, and December).

Please contact me if you have any questions or comments.

Best regards,

Cindy Coffin, A.Sc.T.  
Process & Compliance Technician  
Ontario Clean Water Agency  
Kawartha Trent Regional Hub – South Cluster  
(705) 731-7507

CC: Katie Campbell, OCWA – Senior Operations Manager (A)  
Allison McCann, OCWA – SPC Manager  
Lynette Nicholson, OCWA – General Manager  
Karen Lorente, OCWA – Regional Hub Manager  
Amber Hayter, City of Kawartha Lakes – Manager  
Michelle Flaherty, City of Kawartha Lakes – Contract Coordinator  
Brittney Wielgos, MECP – Peterborough District Office – Water Compliance Supervisor  
Holie Fletcher, MECP – Peterborough District Office – Water Compliance Officer



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

**Appendix VII:**  
**2025 Sludge Survey**

**OCWA - Omemee Lagoon Sludge Survey**  
**Sludge Depth Location Summary**

October 2025

Proj #: 24103-001



Coordinates are UTM (zone 17)

Location ID	Northing	Easting	Sludge Depth, m	Sludge Depth, mm	Survey Data
100	4909167.819	693337.957	0.85	850.00	100,4909167.819,693337.957,267.661,OG
101	4909174.579	693351.338	0.28	280.00	101,4909174.579,693351.338,267.730,OG
103	4909195.432	693394.917	0.27	270.00	103,4909195.432,693394.917,267.725,OG
104	4909210.828	693427.513	0.35	350.00	104,4909210.828,693427.513,267.728,OG
105	4909216.554	693476.490	0.05	50.00	105,4909216.554,693476.490,267.735,OG
106	4909237.329	693517.847	0.06	60.00	106,4909237.329,693517.847,267.749,OG
107	4909245.871	693548.101	0.07	70.00	107,4909245.871,693548.101,267.757,OG
108	4909254.634	693565.435	0.08	80.00	108,4909254.634,693565.435,267.734,OG
109	4909266.736	693594.649	0.32	320.00	109,4909266.736,693594.649,267.748,OG
110	4909278.422	693618.477	0.05	50.00	110,4909278.422,693618.477,267.744,OG
111	4909132.479	693329.385	0.38	380.00	111,4909132.479,693329.385,267.731,OG
112	4909136.520	693366.000	0.07	70.00	112,4909136.520,693366.000,267.753,OG
113	4909148.242	693387.780	0.07	70.00	113,4909148.242,693387.780,267.765,OG
114	4909163.375	693421.243	0.04	40.00	114,4909163.375,693421.243,267.745,OG
115	4909168.320	693488.836	0.10	100.00	115,4909168.320,693488.836,267.759,OG
116	4909175.313	693535.705	0.00	0.00	116,4909175.313,693535.705,267.762,OG
117	4909192.182	693568.113	0.25	250.00	117,4909192.182,693568.113,267.756,OG
118	4909210.560	693595.107	0.12	120.00	118,4909210.560,693595.107,267.729,OG
119	4909222.841	693618.476	0.07	70.00	119,4909222.841,693618.476,267.737,OG
120	4909236.691	693645.919	0.25	250.00	120,4909236.691,693645.919,267.723,OG
121	4909086.557	693332.933	0.41	410.00	121,4909086.557,693332.933,267.738,OG
122	4909089.027	693359.011	0.14	140.00	122,4909089.027,693359.011,267.734,OG
123	4909103.199	693408.758	0.16	160.00	123,4909103.199,693408.758,267.748,OG
124	4909116.464	693442.322	0.11	110.00	124,4909116.464,693442.322,267.736,OG
125	4909127.562	693489.285	0.38	380.00	125,4909127.562,693489.285,267.729,OG
126	4909151.503	693540.761	0.32	320.00	126,4909151.503,693540.761,267.737,OG
127	4909164.813	693569.659	0.04	40.00	127,4909164.813,693569.659,267.730,OG
128	4909174.770	693595.560	0.09	90.00	128,4909174.770,693595.560,267.727,OG
129	4909181.058	693614.220	0.02	20.00	129,4909181.058,693614.220,267.736,OG
130	4909185.311	693639.889	0.07	70.00	130,4909185.311,693639.889,267.734,OG
154	4909340.398	693646.229	0.01	10.00	154,4909340.398,693646.229,268.971,OG
155	4909335.238	693624.924	0.05	50.00	155,4909335.238,693624.924,268.975,OG
156	4909321.438	693583.567	0.16	160.00	156,4909321.438,693583.567,268.968,OG
157	4909307.016	693554.399	0.15	150.00	157,4909307.016,693554.399,268.957,OG
160	4909287.515	693501.040	0.19	190.00	160,4909287.515,693501.040,268.967,OG
161	4909276.096	693476.987	0.15	150.00	161,4909276.096,693476.987,268.966,OG
162	4909263.265	693445.112	0.35	350.00	162,4909263.265,693445.112,268.972,OG
163	4909250.241	693416.956	0.55	550.00	163,4909250.241,693416.956,268.972,OG
164	4909241.518	693394.886	0.15	150.00	164,4909241.518,693394.886,268.969,
165	4909229.013	693360.680	0.25	250.00	165,4909229.013,693360.680,268.970,
153	4909399.674	693651.609	0.20	200.00	153,4909399.674,693651.609,268.978,OG
152	4909375.551	693598.863	0.05	50.00	152,4909375.551,693598.863,268.972,OG
151	4909363.948	693561.719	0.25	250.00	151,4909363.948,693561.719,268.978,OG
150	4909346.055	693528.147	0.06	60.00	150,4909346.055,693528.147,268.972,OG
149	4909337.050	693502.858	0.15	150.00	149,4909337.050,693502.858,268.972,OG
148	4909320.578	693476.155	0.00	0.00	148,4909320.578,693476.155,268.968,OG
147	4909303.460	693444.716	0.00	0.00	147,4909303.460,693444.716,268.967,OG
146	4909273.017	693408.245	0.06	60.00	146,4909273.017,693408.245,268.967,OG
145	4909262.674	693370.926	0.09	90.00	145,4909262.674,693370.926,268.969,OG
144	4909259.098	693340.705	0.20	200.00	144,4909259.098,693340.705,268.985,OG
143	4909435.307	693644.047	0.48	480.00	143,4909435.307,693644.047,268.961,OG
142	4909400.533	693577.568	1.10	1100.00	142,4909400.533,693577.568,268.969,OG
141	4909386.292	693546.260	0.50	500.00	141,4909386.292,693546.260,268.968,OG
140	4909377.506	693521.311	0.52	520.00	140,4909377.506,693521.311,268.968,OG
139	4909364.984	693490.380	0.12	120.00	139,4909364.984,693490.380,268.965,OG
138	4909351.019	693463.938	0.10	100.00	138,4909351.019,693463.938,268.966,OG
137	4909335.384	693434.473	0.02	20.00	137,4909335.384,693434.473,268.965,COSINE POST OFFICE
136	4909319.554	693401.162	0.02	20.00	136,4909319.554,693401.162,268.971,COSINE POST OFFICE
135	4909311.998	693368.034	0.06	60.00	135,4909311.998,693368.034,268.966,COSINE POST OFFICE
134	4909305.615	693343.568	0.10	100.00	134,4909305.615,693343.568,268.973,COSINE POST OFFICE

**OMEMEE LAGOON  
SLUDGE SURVEY**  
ONTARIO CLEAN WATER AGENCY  
267 Beaver Road  
Omemece, Ontario

**LEGEND**  
X Sludge Depth Sample Location  
(mm)

**Notes:**  
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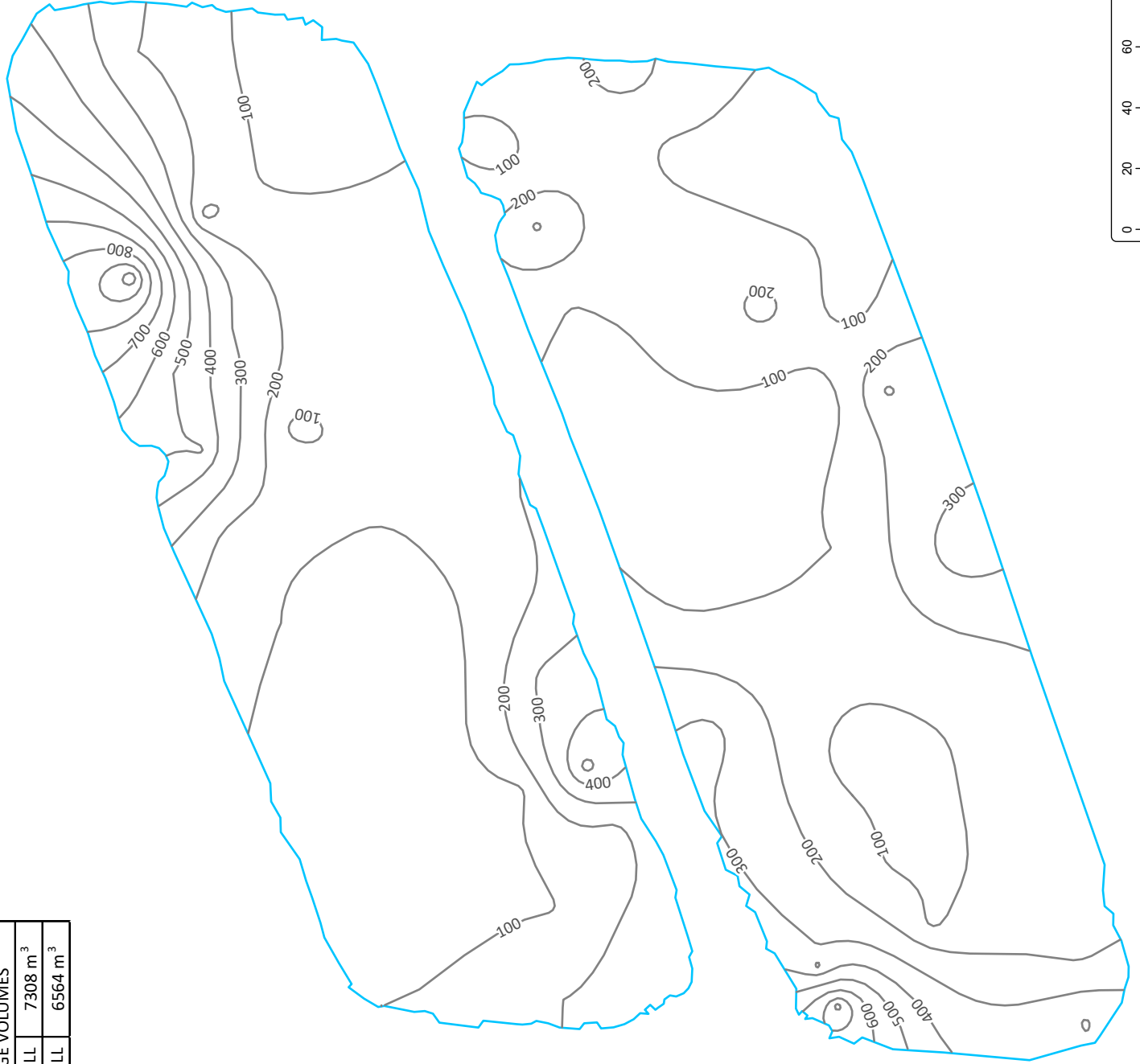
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**LAGOON SLUDGE DEPTHS**

Project No.:	24103-001	Date:	January 2026
Scale:	1:2,000	Projection:	NAD 1983 UTM Zone 17N
Created by:	MG	Checked by:	SD
			Figure:
			<b>1</b>



SLUDGE VOLUMES	
NORTH CELL	7308 m <sup>3</sup>
SOUTH CELL	6564 m <sup>3</sup>



**OMEMEE LAGOON  
SLUDGE SURVEY**  
ONTARIO CLEAN WATER AGENCY  
267 Beaver Road  
Omemece, Ontario

**LEGEND**

- Sludge Contour (100mm interval)
- Water's Edge (approximate)

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**SLUDGE CONTOURS**

Project No.:	24103-001	Date:	January 2026
Scale:	1:2,000	Projection:	NAD 1983 UTM Zone 17N
Created by:	MG	Checked by:	SD
			Figure:
			<b>2</b>