

# **Omemee Wastewater System**

## **2024 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>, 2024



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# 2024 Annual Wastewater System Performance Report

## Executive Summary

The Omemee Sewage Lagoons is a dual lagoon system with effluent being discharged to a large subsurface disposal system (LSSDS) and seasonal spray irrigation with a Rated Capacity of 1,353 m<sup>3</sup>/day and is located in Omemee, Ontario. The entire system is comprised of two pumping stations within the collection system, two facultative lagoons, large subsurface disposal system and spray irrigation system. The facility is owned by the City of Kawartha Lakes with the lagoon system and sewage pumping stations operated by 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 the collection system is operated in accordance with the Consolidated Linear Infrastructure Environmental Compliance Approval #141-W601 issued June 20, 2023. The wastewater system is classified as a Class I Wastewater Treatment and Class I Wastewater Collection subsystems under O. Reg. 129/04.

The two facultative lagoons are approximately 3.6 hectares in size, with an approximate storage volume of 178,000 m<sup>3</sup>. Partially treated effluent from the sewage forcemain on Beaver Road passes through a drop manhole located at the east end of the lagoons. Influent is routed to the North lagoon for initial treatment and then directed to the South lagoon for final treatment. The treated effluent is discharged to the large subsurface disposal system, with the ability to also dispose of treated effluent to the spray irrigation system.

The Omemee wastewater collection system consists of a series of gravity sewers, two pumping stations and associated forcemains directing raw sewage to the lagoons. Alum is added at the Sturgeon Street sewage pumping station to aide in settling of solids and to reduce phosphorus levels in treated effluent.

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

The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office by appointment and the [City's website](#). Notification that the reports are

available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 322 Kent Street West in Lindsay, Ontario.

## Reporting Requirements – Wastewater Treatment Plant

In accordance with the amended 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.

During the reporting period of 2024, the Ontario Clean Water Agency (OCWA) operated the Omemee 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.

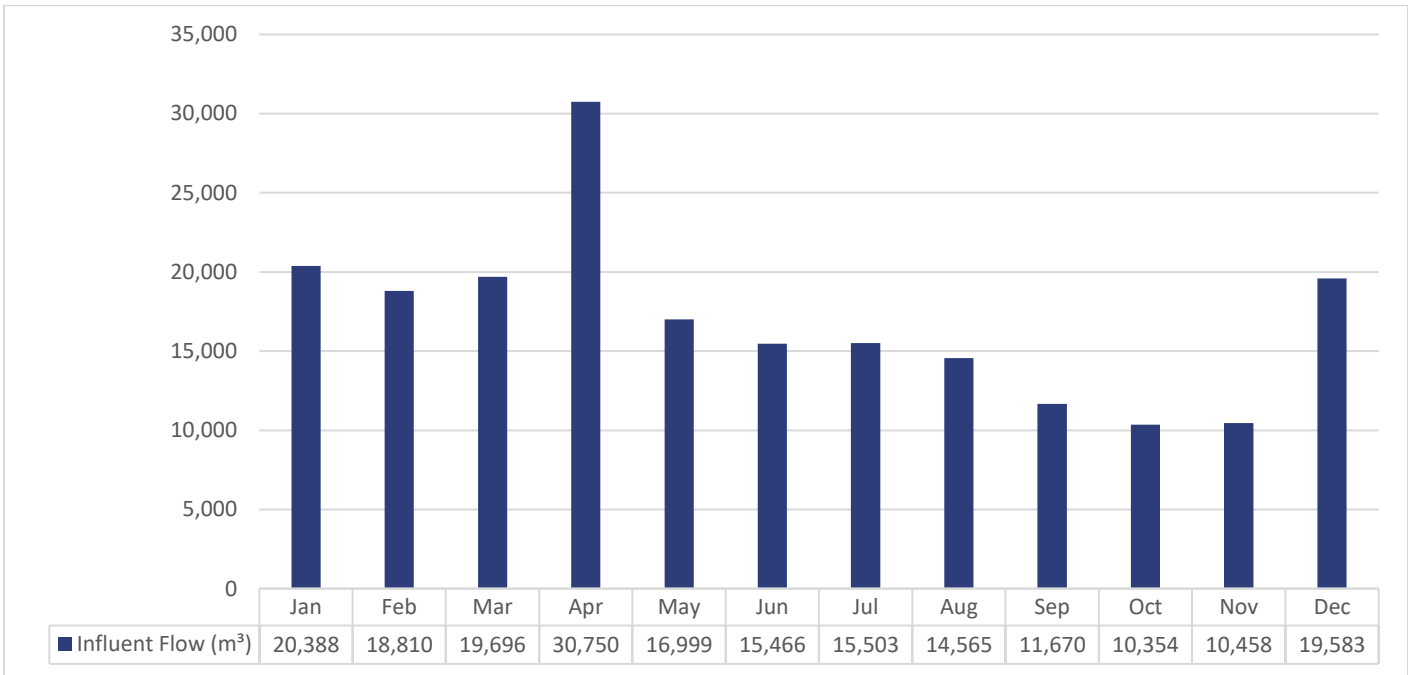
This report will show that the requirements of the facility ECA including effluent monitoring, effluent plume monitoring and reporting requirements were consistently met and that effluent quality was consistently within ECA requirements.

## Summary of Influent Monitoring Data

**(a)** Environmental Compliance Approval Number 2737-B4DH46 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 Omemee Sewage Lagoon is 1,353 m<sup>3</sup>/day and the 2024 annual average daily influent flow was 558.04 m<sup>3</sup>/day or 41.24 % of the Rated Capacity. The total Influent flow in 2024 was 204,242.05 m<sup>3</sup>.

**Graph 1. 2024 Influent Monthly Flow Totals**



**Graph 2. 2024 Influent Daily Minimum, Maximum and Average Flows**

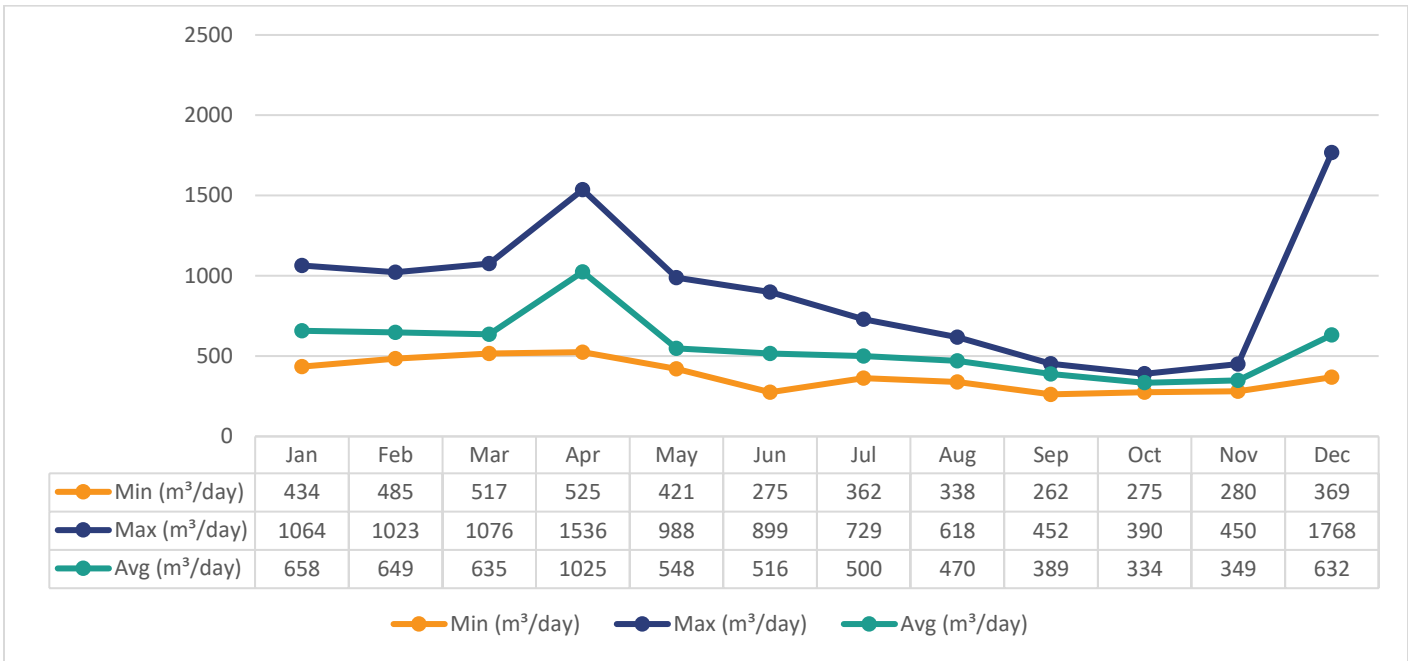


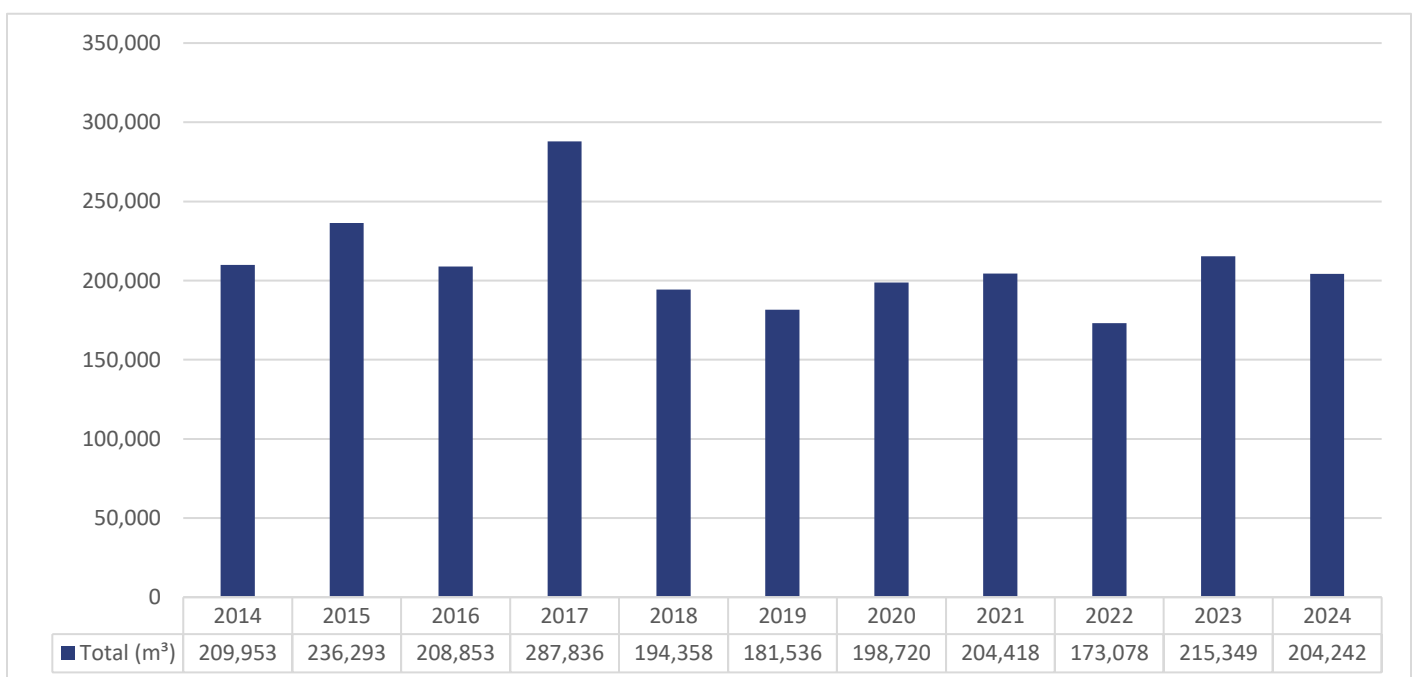
Table 1 reviews the historical trend of the influent sewage characteristics for the Omemee Sewage Lagoon, as required by Environmental Compliance Approval #2737-B4DH46, Condition 10 (4) (a).

**Table 1. 2014 – 2024 Historical Average Influent Sewage Characteristics for the Omemee Sewage Lagoon**

|      | BOD (mg/L) | TSS (mg/L) | Phosphorus (mg/L) | TKN (mg/L) |
|------|------------|------------|-------------------|------------|
| 2014 | 122.91     | 107.08     | 2.48              | 22.13      |
| 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      |

Table 1 shows the historical average influent sewage characteristics for the Omemee Sewage Lagoon for the years of 2014 to 2024. 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 decreased in comparison to 2023.

**Graph 3. 2014 – 2024 Historical Influent Flows for the Omemee Sewage Lagoon**



Graph 3 shows the historical influent flows for the Omemee Sewage Lagoons from 2014 to 2024. Since 2017, the influent flows have remained consistent. The increased influent flow in 2017 can be attributed to the extremely wet spring season.

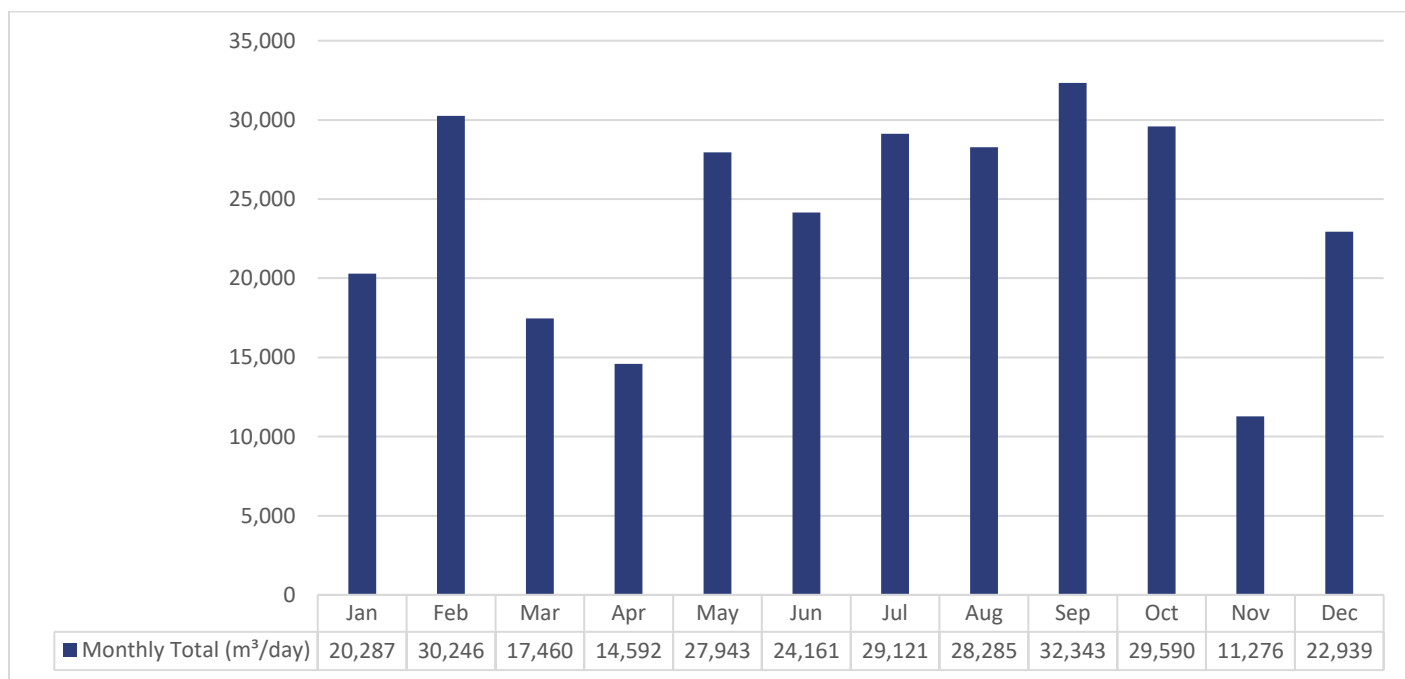
## Summary of Final Effluent Monitoring Data

**(b)** Environmental Compliance Approval #2737-B4DH46 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 this 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 2024 at the Omemee Sewage Lagoon. Final effluent is directed to the subsurface sewage disposal system during the winter months, and to the spray irrigation system typically during the warmer months, when all conditions were met. During the reporting period, final effluent was directed to the subsurface sewage disposal system and to the spray irrigation system.

**Graph 4. 2024 Effluent Monthly Flow Totals**



**Graph 5. 2024 Effluent Daily Minimum, Maximum and Average Flows**

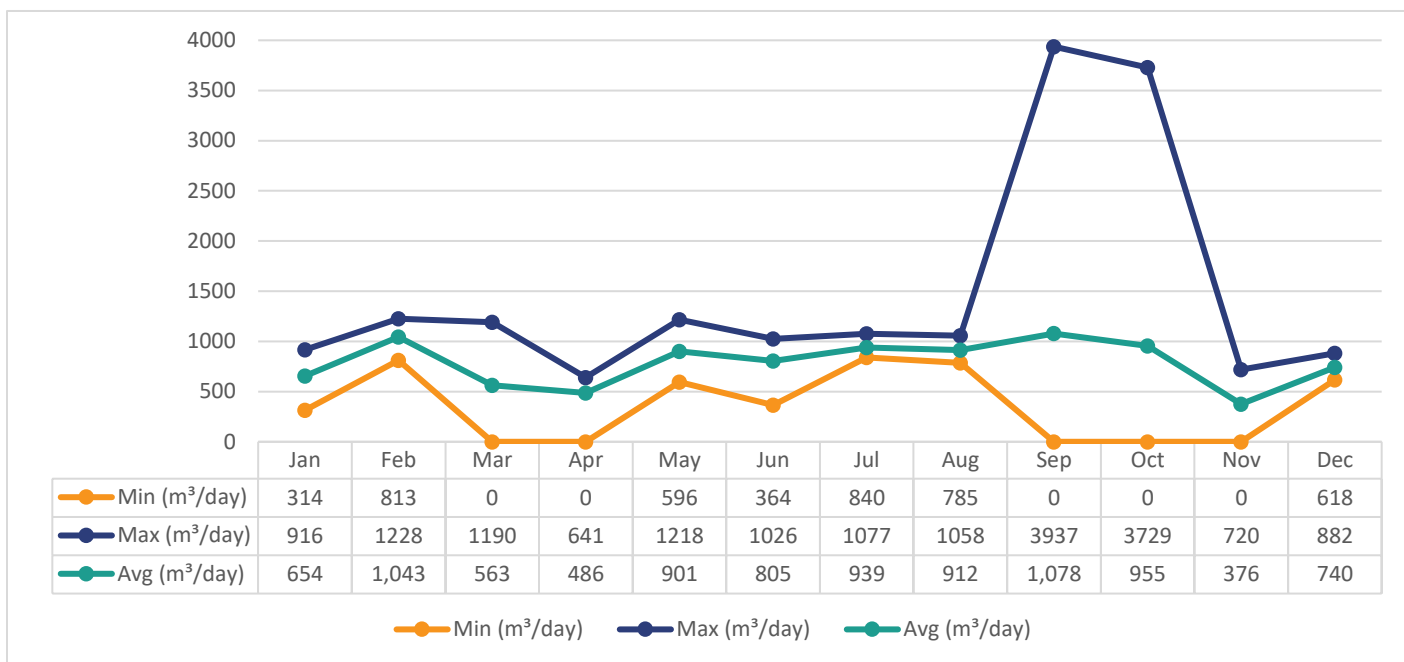


Table 2 outlines the effluent criteria limits set out in Section 7(1), Schedule C of Environmental Compliance Approval Number 2737-B4DH46 as follows:

**Table 2. Omemee Sewage Lagoon – Final Effluent Compliance Limits 2024**

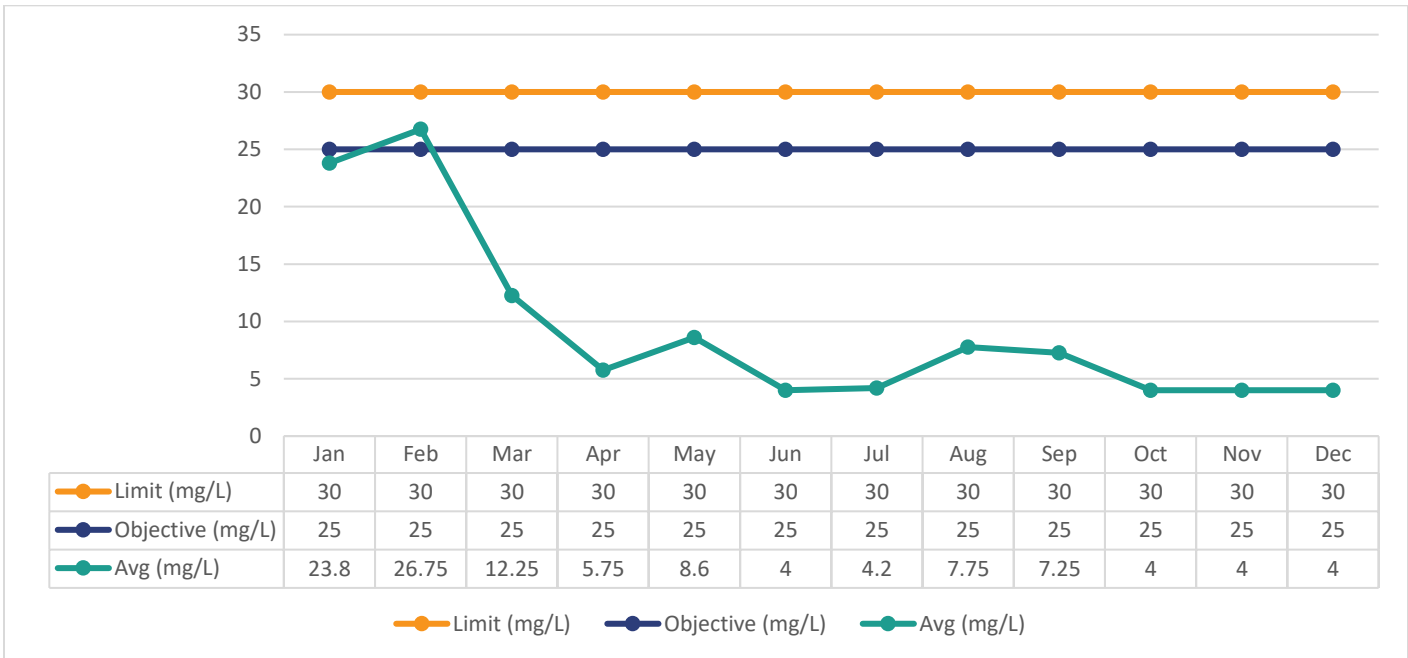
| Effluent Parameter     | Average Effluent Concentration Limit (mg/L) | Actual Monthly Average Effluent Concentration (mg/L) | Compliant Y/N |
|------------------------|---------------------------------------------|------------------------------------------------------|---------------|
| CBOD <sub>5</sub>      | 30.0                                        | 9.42                                                 | Y             |
| Total Suspended Solids | 40.0                                        | 13.27                                                | Y             |
| Total Phosphorus       | 1.0                                         | 0.43                                                 | Y             |

Overall during the reporting period of 2024, the Omemee Sewage Lagoon final effluent generally met the compliance requirements as prescribed in the Environmental Compliance Approval Number 2737-B4DH46.

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

ECA Number 2737-B4DH46 (issued September 28, 2018) 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 2024, the CBOD<sub>5</sub> monthly average concentration was 9.42 mg/L.

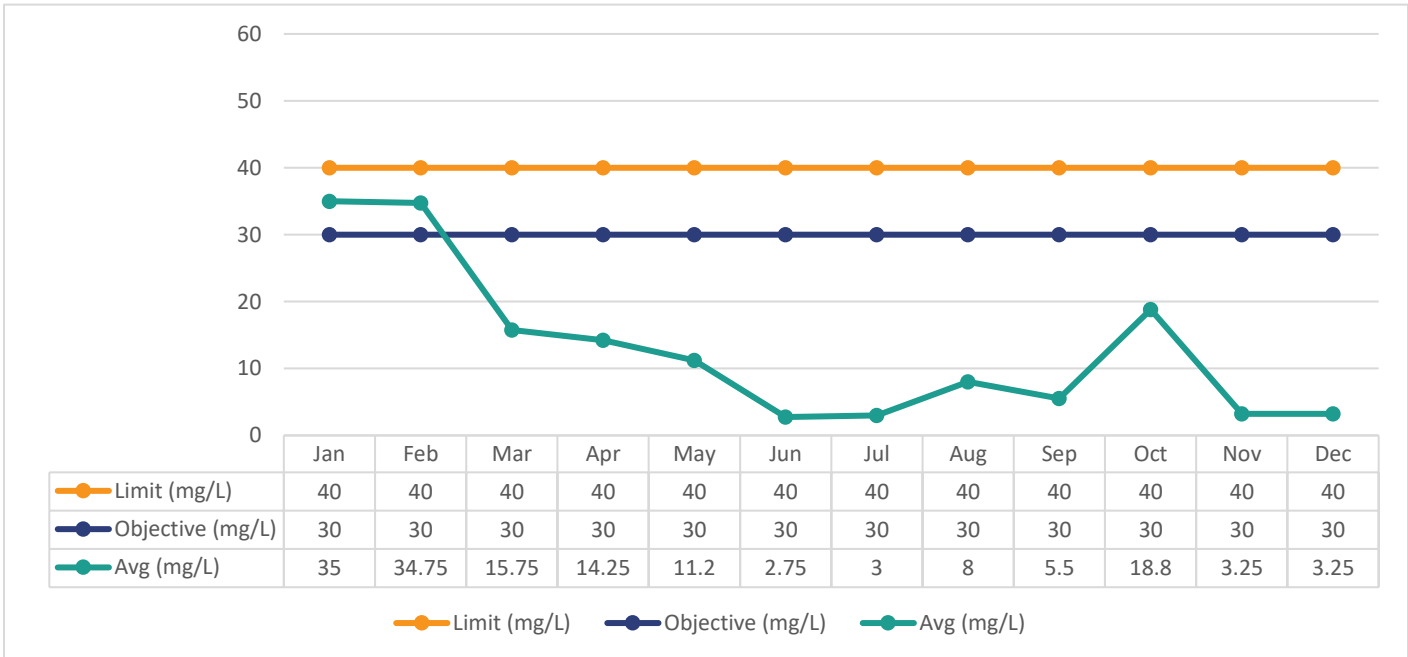
**Graph 6. 2024 Monthly CBOD<sub>5</sub> Final Effluent Concentration Comparisons**



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

ECA Number 2737-B4DH46 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 2024, the TSS monthly average concentration was 13.27 mg/L.

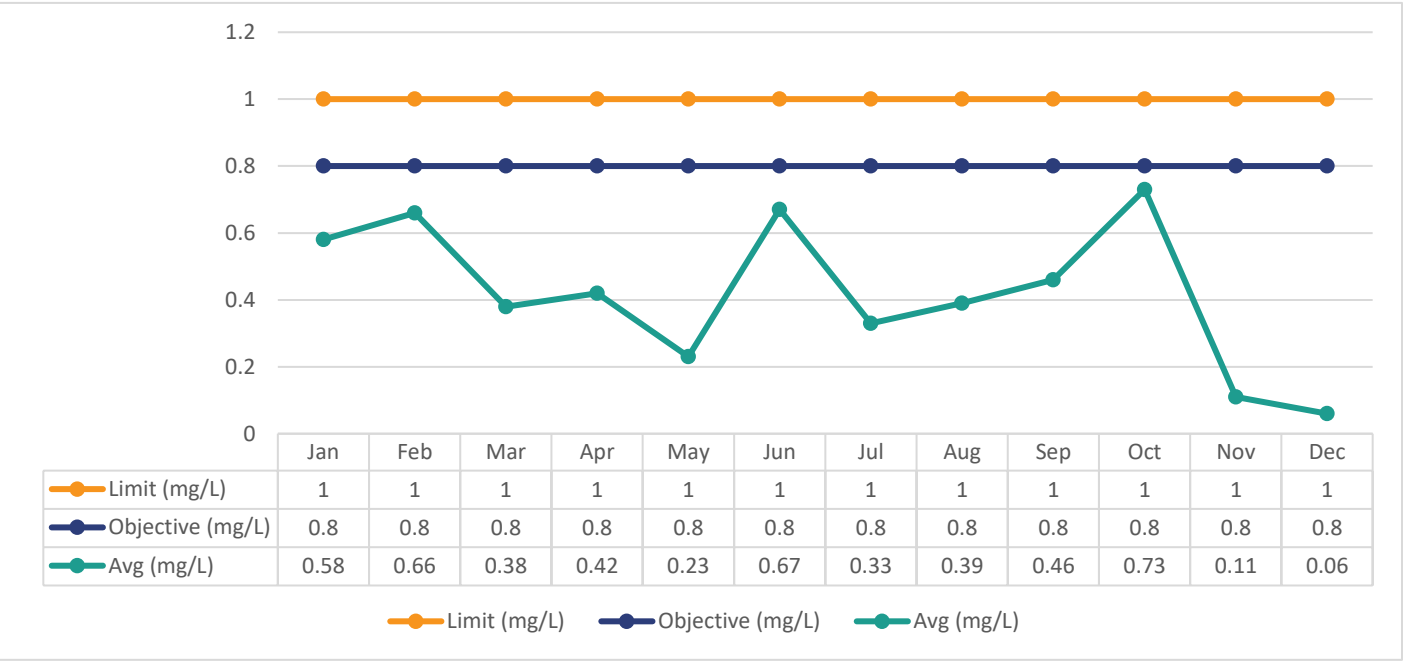
**Graph 7. 2024 Monthly TSS Final Effluent Concentration Comparisons**



**Total Phosphorus (TP)**

ECA Number 2737-B4DH46 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 2024, the Total Phosphorus annual average concentration was 0.43 mg/L

**Graph 8. 2024 Annual Total Phosphorus Final Effluent Concentration Comparisons**

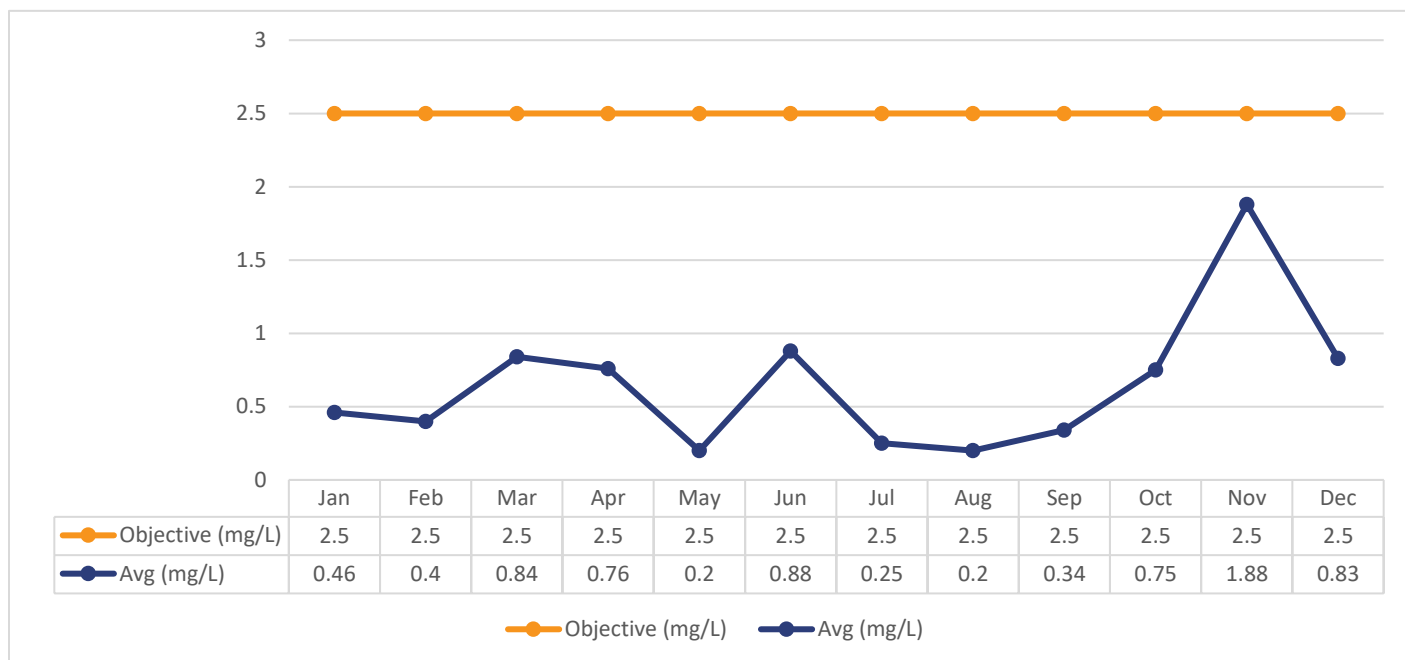


**Additional Parameter**

**Nitrite and Nitrate as Nitrogen**

ECA Number 2737-B4DH46 set the Nitrite and Nitrate as Nitrogen monthly average concentration objective at 2.5 mg/L. For 2024, the Nitrite and Nitrate as Nitrogen monthly average concentration was 0.63 mg/L.

**Graph 9. 2024 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 2024 Omemee Sewage Lagoon Sampling Calendar was established and the sample day was Wednesday. There was one (1) deviation from the sample plan during the reporting period.

**Table 3. Deviations from Sample Plan in 2024**

| Sample Date   | Deviation                    | Alternate Sample Date |
|---------------|------------------------------|-----------------------|
| Dec. 25, 2024 | Stat Holiday – Christmas Day | Dec. 27, 2024         |

The sample plan for 2025 has been established and the sample day is on Thursday. A copy of the 2025 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. 2024 Omemee Sewage Lagoon Operational Challenges**

| Month         | Challenges                               | Corrective Actions                     |
|---------------|------------------------------------------|----------------------------------------|
| February 2024 | Subsurface Pump 1 – faulting on overload | Repair pump, test and put on-line.     |
| March 2024    | Valve between Lagoon Cells               | Repair rusted handle to operate valve. |
| May 2024      | Subsurface Pump 4                        | Replaced pump 4, test and put on-line. |
| June 2024     | Subsurface Pump 1 – no flow              | Repair pump 1, test and put on-line.   |

## 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 9, 2024 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 2024 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:

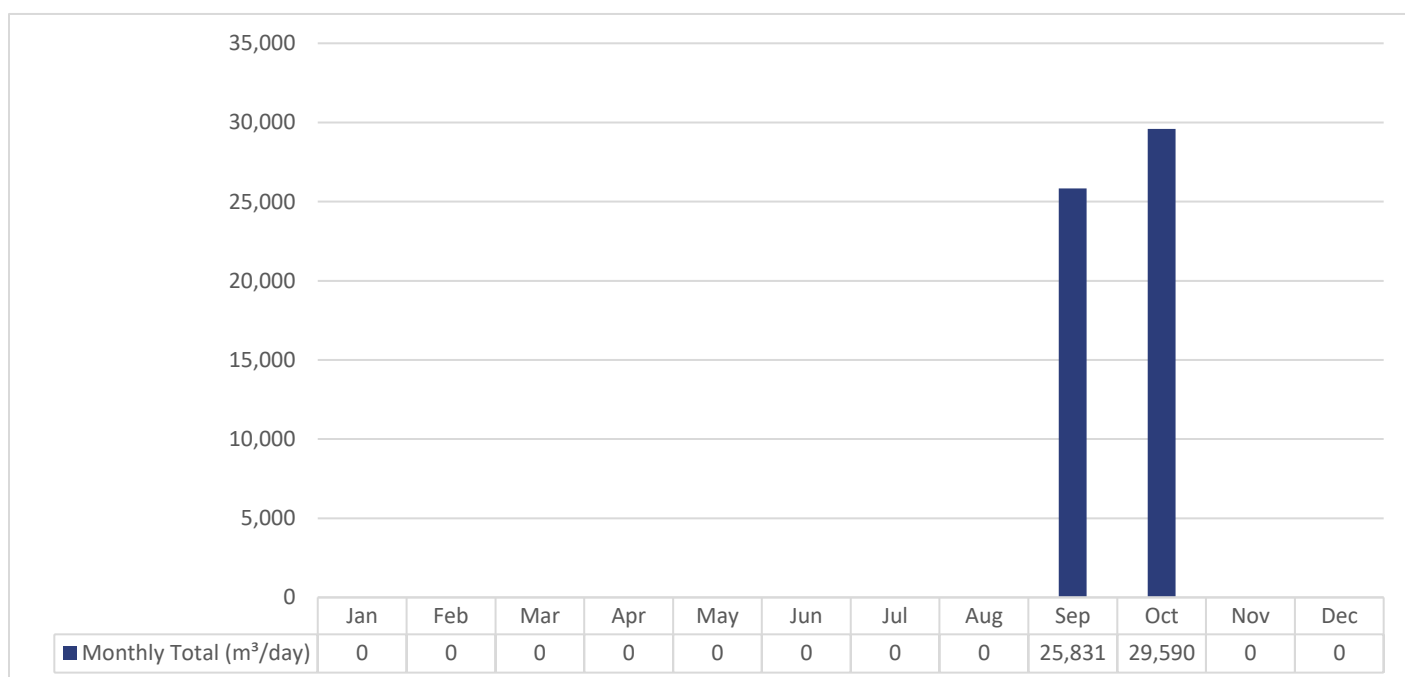
The spray irrigation system was in operation in 2024 under the authority of Provincial Officer's Order Number 1-L4E0C issued on May 8, 2019 and amended on April 26, 2021. ECA Number 2737-

B4DH46 does not require any information pertaining to the spray irrigation be included in the Omemee Sewage Lagoon annual performance report.

The spray irrigation system commenced operation on September 10, 2024. The spray irrigation system ceased operation on November 18, 2024 after the winterization process was completed. Notifications were provided to all stakeholders as required by the Provincial Officer’s Order.

The following information has been included in this report as a substantial amount of final effluent was disposed of via spray irrigation in 2024.

### Graph 10. 2024 Monthly Effluent Flow to Spray Irrigation System



### Groundwater Monitoring Program

During the reporting period, ECA Number 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 and 4 of 2024. Quarter 3 sampling was missed. Not all parameters were sampled during 2024 as prescribed in the ECA, as the Operating Authority was following the requirements of the issued Provincial Officer’s Order. Moving forward, quarterly sampling and testing for the required parameters for the two identified monitoring wells will be completed as prescribed in ECA. Please see attached **Appendix V: Monitoring Wells**, which provides the results of the two groundwater monitoring wells.

Additionally, as per Provincial Officer's Order 1-L4E0C issued on May 8, 2019 and amended on April 26, 2021, an additional fifteen (15) groundwater monitoring wells were identified to be sampled on a quarterly 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. The Provincial Officer's Order was amended again November 18, 2024 and renumbered as 1-676860750-A2. The amendments included changes to the well monitoring program and drilling of additional wells. These changes will primarily be implemented in 2025.

### **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 2024 was 638.00 m<sup>3</sup>, which does not exceed the SPS rated capacity.

**Table 5. 2024 Influent Flows at Church St. SPS**

| Month     | Max Daily Flow (m <sup>3</sup> /day) | Average Daily Flow (m <sup>3</sup> /day) |
|-----------|--------------------------------------|------------------------------------------|
| January   | 286.00                               | 171.39                                   |
| February  | 326.00                               | 189.86                                   |
| March     | 340.00                               | 189.04                                   |
| April     | 638.00                               | 338.86                                   |
| May       | 301.20                               | 157.37                                   |
| June      | 287.00                               | 156.73                                   |
| July      | 226.55                               | 143.96                                   |
| August    | 184.00                               | 135.00                                   |
| September | 149.00                               | 105.10                                   |
| October   | 97.50                                | 82.54                                    |
| November  | 108.00                               | 79.82                                    |
| December  | 550.00                               | 167.39                                   |

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 2024 was 1,768.00 m<sup>3</sup>, which does not exceed the raw rated capacity.

**Table 6. 2024 Influent Flows at Sturgeon St. SPS**

| Month    | Max Daily Flow (m <sup>3</sup> /day) | Average Daily Flow (m <sup>3</sup> /day) |
|----------|--------------------------------------|------------------------------------------|
| January  | 1,064.00                             | 657.68                                   |
| February | 1,023.00                             | 648.62                                   |
| March    | 1,076.00                             | 635.36                                   |
| April    | 1,536.00                             | 1,025.00                                 |
| May      | 988.00                               | 548.35                                   |

| Month     | Max Daily Flow (m <sup>3</sup> /day) | Average Daily Flow (m <sup>3</sup> /day) |
|-----------|--------------------------------------|------------------------------------------|
| June      | 899.00                               | 515.53                                   |
| July      | 729.00                               | 500.10                                   |
| August    | 618.00                               | 469.84                                   |
| September | 452.00                               | 389.00                                   |
| October   | 390.00                               | 334.00                                   |
| November  | 450.00                               | 348.60                                   |
| December  | 1,768.00                             | 631.71                                   |

## 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.

The estimated volume of sludge in the lagoon cells in 2024 was 6,280 m<sup>3</sup>. During the reporting period, no sludge was disposed of from the Omemee Sewage Lagoon.

## Complaints

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

**Table 7. 2024 Complaints Received**

| Date               | Issue                                                                             | Actions Taken                                       |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| June 3, 2024       | Resident reported smell of sewage and wet area along side of road on Sturgeon Rd. | Determine was a forcemain break, repairs were made. |
| September 16, 2024 | Resident reported odour coming from Sturgeon Street SPS.                          | Replaced carbon pucks at SPS to reduce odour.       |

## 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 2024.

## Spills

There was one spill within the sewage collection system at the Omemee Sewage Lagoon in 2024. The spill was identified on June 3, 2024 along the road side South of 91 Sturgeon Road, which was the result of a forcemain break. The start of the break was unknown, but was estimated that approximately 5 L/min was flowing into the ditch where it was contained and a total of 1500 L was spilled. Break was repaired and contaminated soil removed and disposed of at Lindsay Landfill. Approximately 30 tonnes of material was removed from the contaminated site.

## Overflows

There were not any overflows at the Omemee Sewage Lagoons or pumping stations in 2024.

## Situations Outside Normal Operating Conditions

### Abnormal Discharge Events

There were not any abnormal discharge events at the Omemee Sewage Lagoons in 2024.

Refer to **Appendix V: 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

**(I)** There were not any Notices of Modifications to Sewage Works initiated, worked on or completed in 2024.

## 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 2024 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 2024.

## Reporting Requirements – Wastewater Collection System

In accordance with the Consolidated Linear Infrastructure – Environmental Compliance Approval #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 sewage, comprising approximately 8.2 km in total linear length of gravity sewers discharging to two pumping stations, eventually leading to the Omemee Sewage Lagoons.

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 8. 2024 Summary of Operating Problems in Collection System and Corrective Actions (not including pumping stations)**

| Date         | Operational Issue                                                                                       | Corrective Actions Taken                                                                    |
|--------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| May 15, 2024 | Sanitary Sewer Backup between 50 – 64 Walnut St. W.                                                     | While staff inspecting manholes found system was backing up. Sewer main line flushed.       |
| June 3, 2024 | Forcemain break along Sturgeon Road, just South of #91. Found to be gasket around 12" pipe was leaking. | 26" of pipe was cut out and replaced with a new section of pipe and two 12" Hymax fittings. |

### **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 V: 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 2024.

**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 2024 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 2024.

**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 2024.

There was one spill within the sewage collection system for the Omemee Sewage Lagoon system in 2024. The spill was identified on June 3, 2024 at a section of the forcemain along Sturgeon Road just South of #91. Approximately 1500 L of sewage/contaminated water was removed from the ditch by a licensed sewage hauler. Although the start of the break is unknown, it is estimated that the leak was occurring at around 5 L/min. Corrective actions included excavating the area, making repairs to the forcemain pipe, removing contaminated water and soil in area of contained spill.

It was not possible to collect a sample from the spill, therefore there are no monitoring results to comment on.

**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.**

Annually manhole inspections are completed by City operations staff within the collection systems to identify any deficiencies that may result in excess flows increasing the risk of potential overflows. In an effort to reduce all excess flows, the City has an annual manhole rehabilitation program which includes but is not limited to grouting; modoloc replacement; and frame and cover replacements.

Operationally, where manholes are located in lower lying areas and are at risk of being submerged and contributing to inflow, rain bladders are installed to prevent excess water from entering the system, further reducing the risk of overflow.

During the 2024 reporting period there were no incidents of a bypass or overflow within the sanitary sewer system or the WWTP. There were no additional operational activities that were performed to help reduce overflow potential in 2024.

There is a budget of \$30,000 to make repairs to two manholes located on Walnut St, and an additional \$6000 budget available for any necessary operational repairs within the collection system for 2025. These projects are not specifically to eliminate bypasses or overflows, but would help mitigate the risk.

**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 Standard ECA

From 1/1/2024 to 12/31/2024

| 5901 OMEMEE WASTEWATER TREATMENT LAGOON 110001630                                                                      |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
|------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|----------|
| 1 / 20242 / 20243 / 20244 / 20245 / 20246 / 20247 / 20248 / 20249 / 202410 / 202411 / 202412 / 2024TotalAvgMaxCriteria |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
| Flows                                                                                                                  |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
| Raw Flow: Total - Raw m³/d                                                                                             | 20,388.00 | 18,810.00 | 19,696.10 | 30,750.00 | 16,999.00 | 15,466.00 | 15,503.00 | 14,565.00 | 11,670.00 | 10,354.00 | 10,457.95 | 19,583.00 | 204,242.05 | 0.00     |
| Raw Flow: Avg - Raw m³/d                                                                                               | 657.68    | 648.62    | 635.36    | 1,025.00  | 548.35    | 515.53    | 500.10    | 469.84    | 389.00    | 334.00    | 348.60    | 631.71    | 558.04     | 1,353.00 |
| Raw Flow: Max - Raw m³/d                                                                                               | 1,064.00  | 1,023.00  | 1,076.00  | 1,536.00  | 988.00    | 899.00    | 729.00    | 618.00    | 452.00    | 390.00    | 450.00    | 1,768.00  | 1,768.00   | 0.00     |
| Raw Flow: Count - Raw m³/d                                                                                             | 31.00     | 29.00     | 31.00     | 30.00     | 31.00     | 30.00     | 31.00     | 31.00     | 30.00     | 31.00     | 30.00     | 31.00     | 366.00     | 0.00     |
| Eff. Flow: Total - Eff m³/d                                                                                            | 20,286.58 | 30,246.40 | 17,460.00 | 14,591.70 | 27,943.40 | 24,160.90 | 29,121.00 | 28,285.00 | 32,343.00 | 29,590.00 | 11,276.10 | 22,938.50 | 288,242.58 | 0.00     |
| Eff. Flow: Avg - Eff m³/d                                                                                              | 654.41    | 1,042.98  | 563.23    | 486.39    | 901.40    | 805.36    | 939.39    | 912.42    | 1,078.10  | 954.52    | 375.87    | 739.95    | 787.55     | 1,353.00 |
| Eff. Flow: Max - Eff m³/d                                                                                              | 916.00    | 1,227.70  | 1,190.00  | 641.00    | 1,218.00  | 1,026.00  | 1,077.00  | 1,058.00  | 3,937.00  | 3,729.00  | 720.00    | 881.50    | 3,937.00   | 0.00     |
| Eff Flow: Count - Eff m³/d                                                                                             | 31.00     | 29.00     | 31.00     | 30.00     | 31.00     | 30.00     | 31.00     | 31.00     | 30.00     | 31.00     | 30.00     | 31.00     | 366.00     | 0.00     |
| Biochemical Oxygen Demand: BOD5                                                                                        |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
| Raw: Avg BOD5 - Raw mg/L                                                                                               | 91.00     | 137.00    | 56.00     | 121.00    | 15.00     | 85.50     | 68.00     | 88.00     | 84.00     | 121.00    | 178.00    | 128.00    | 97.71      | 0.00     |
| Raw: # of samples of BOD5 - Raw mg/L                                                                                   | 1.00      | 1.00      | 1.00      | 1.00      | 1.00      | 2.00      | 1.00      | 1.00      | 1.00      | 1.00      | 1.00      | 1.00      | 13.00      | 0.00     |
| Carbonaceous Biochemical Oxygen Demand: CBOD                                                                           |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
| Eff: Avg cBOD5 - Final Effluent Including Bypass mg/L                                                                  | 23.80     | 26.75     | 12.25     | 5.75      | 8.60      | 4.00      | 4.20      | 7.75      | 7.25      | 4.00      | 4.00      | 4.00      | 9.42       | 30.00    |
| Eff: # of samples of cBOD5 - Final Effluent Including Bypass mg/L                                                      | 5.00      | 4.00      | 4.00      | 4.00      | 5.00      | 4.00      | 5.00      | 4.00      | 4.00      | 5.00      | 4.00      | 4.00      | 52.00      | 0.00     |
| Loading: cBOD5 - Final Effluent Including Bypass kg/d                                                                  | 15.575    | 27.900    | 6.900     | 2.797     | 7.752     | 3.221     | 3.945     | 7.071     | 7.816     | 3.818     | 1.503     | 2.960     | 7.42       | 27.90    |
| Total Suspended Solids: TSS                                                                                            |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
| Raw: Avg TSS - Raw mg/L                                                                                                | 109.00    | 135.00    | 74.00     | 139.00    | 110.00    | 128.50    | 116.00    | 92.00     | 121.00    | 114.00    | 98.00     | 172.00    | 117.38     | 0.00     |
| Raw: # of samples of TSS - Raw mg/L                                                                                    | 1.00      | 1.00      | 1.00      | 1.00      | 1.00      | 2.00      | 1.00      | 1.00      | 1.00      | 1.00      | 1.00      | 1.00      | 13.00      | 0.00     |
| Eff: Avg TSS - Final Effluent Including Bypass mg/L                                                                    | 35.00     | 34.75     | 15.75     | 14.25     | 11.20     | 2.75      | 3.00      | 8.00      | 5.50      | 18.80     | 3.25      | 3.25      | 13.27      | 40.00    |
| Eff: # of samples of TSS - Final Effluent Including Bypass mg/L                                                        | 5.00      | 4.00      | 4.00      | 4.00      | 5.00      | 4.00      | 5.00      | 4.00      | 4.00      | 5.00      | 4.00      | 4.00      | 52.00      | 0.00     |
| Loading: TSS - Final Effluent Including Bypass kg/d                                                                    | 22.904    | 36.244    | 8.871     | 6.931     | 10.096    | 2.215     | 2.818     | 7.299     | 5.930     | 17.945    | 1.222     | 2.405     | 10.45      | 36.24    |
| Total Phosphorus: TP                                                                                                   |           |           |           |           |           |           |           |           |           |           |           |           |            |          |
| Raw: Avg TP - Raw mg/L                                                                                                 | 1.24      | 1.66      | 1.02      | 2.93      | 0.30      | 1.98      | 1.71      | 1.98      | 2.12      | 2.60      | 3.14      | 3.32      | 2.00       | 0.00     |



# Performance Assessment Report Standard ECA

From 1/1/2024 to 12/31/2024

[illegible]

## Nitrogen Series

|                                     |       |       |      |       |      |       |       |       |       |       |       |       |       |       |       |      |
|-------------------------------------|-------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Raw: Avg TKN - Raw mg/L             | 16.20 | 25.20 | 8.80 | 29.60 | 2.70 | 22.00 | 15.80 | 17.60 | 22.00 | 22.40 | 29.70 | 22.60 |       | 19.55 | 29.70 | 0.00 |
| Raw: # of samples of TKN - Raw mg/L | 1.00  | 1.00  | 1.00 | 1.00  | 1.00 | 2.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 1.00  | 13.00 |       |       | 0.00 |
| Eff: Avg NO3-N - Eff mg/L           | 0.46  | 0.40  | 0.78 | 0.70  | 0.18 | 0.61  | 0.21  | 0.17  | 0.32  | 0.63  | 1.78  | 0.83  |       | 0.59  | 1.78  | 0.00 |
| Eff: Avg NO2-N - Eff mg/L           | 0.03  | 0.03  | 0.06 | 0.08  | 0.04 | 0.27  | 0.05  | 0.06  | 0.05  | 0.13  | 0.11  | 0.03  |       | 0.08  | 0.27  | 0.00 |

## Disinfection

| Eff: GMD E. Coli - Eff cfu/100mL |        | Eff: # of samples of E. Coli - Eff cfu/100mL |  |
|----------------------------------|--------|----------------------------------------------|--|
|                                  | 820.00 |                                              |  |
|                                  | 1.00   |                                              |  |
|                                  | 980.00 |                                              |  |
|                                  | 1.00   |                                              |  |
|                                  | 74.00  |                                              |  |
|                                  | 2.00   |                                              |  |
|                                  | 152.00 |                                              |  |
|                                  | 1.00   |                                              |  |
|                                  | 14.00  |                                              |  |
|                                  | 78.00  |                                              |  |
|                                  | 59.00  |                                              |  |
|                                  | 60.00  |                                              |  |
|                                  | 520.00 |                                              |  |
|                                  | 1.00   |                                              |  |
|                                  | 16.00  |                                              |  |
|                                  | 10.00  |                                              |  |
|                                  | 12.00  |                                              |  |
|                                  | 1.00   |                                              |  |
|                                  | 0.00   |                                              |  |

**Appendix II:**  
**2025 Omemee Sewage Lagoon Sampling Calendar**

|                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Ontario Clean Water Agency</b><br>Agence Ontarienne Des Eaux      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Sampling Calendar</b><br><b>Omemee Lagoons (5901) Works #110001630</b>                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Weekly</b><br>Final – Grab<br><b>Monthly</b><br>Raw – Grab<br>Cell – Grab                                                                          | - CBOD5, TSS, Total Ammonia Nitrogen, Nitrate, Nitrite, Nitrate and Nitrite as Nitrogen<br>- BOD5, SS, Total Phosphorus, TKN, NH3+NH4<br>- CBOD5, SS, Total Phosphorus, NH3+NH4, Nitrate, Nitrite, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Quarterly</b><br>Groundwater Monitoring<br>MW-1 and MW-2                                                                                           | <b>(January, April, July, October)</b><br>Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus, Total Coliform, E. Coli<br><b>Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.</b><br>Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)<br>Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus<br>Conductivity measurements on MW-3, MW-4(A410222), MW-105B<br>PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell<br>1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).<br>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.<br>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.<br><b>4. Spring = March 20 to June 20, Fall = September 22 to December 21.</b> |
| <b>Spring and Fall</b><br>Groundwater Monitoring<br>MW-101B, MW-105B,<br>MW-106B, MW-109B,<br>MW-110, MW-111B,<br>MW-1, MW-2, MW-3,<br>MW-4 (A410222) | (all collection and submission complete as per ECA, etc. plus any special requirements). Federal regulations (WSER) do not apply at this facility in 2025.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Emergency Discharge</b>                                                                                                                            | 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.<br><b>Note:</b> The MECP must be notified 24 hrs. prior to the start of each discharge (705-755-4300)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Operator</b><br>Name: _____                                                                                                                        | <b>Operator</b><br>Signature: _____ Date: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# January 2025

| Sun | Mon | Tue | Wed                                                                        | Thu                                                                      | Fri | Sat |
|-----|-----|-----|----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----|-----|
|     |     |     | 1<br>Stat Holiday<br>New Year's<br>Day                                     | 2<br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly | 3   | 4   |
| 5   | 6   | 7   | 8<br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Quarterly | 9                                                                        | 10  | 11  |
| 12  | 13  | 14  | 15<br><input type="checkbox"/> Weekly                                      | 16                                                                       | 17  | 18  |
| 19  | 20  | 21  | 22<br><input type="checkbox"/> Weekly                                      | 23                                                                       | 24  | 25  |
| 26  | 27  | 28  | 29<br><input type="checkbox"/> Weekly                                      | 30                                                                       | 31  |     |



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

**Weekly**

Final – Grab

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

**Quarterly**Groundwater Monitoring  
MW-1 and MW-2**(January, April, July, October)**

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.****Spring and Fall**Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

**1.** Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).**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.**4. Spring = March 20 to June 20, Fall = September 22 to December 21.****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)**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 2025.

# February 2025

| Sun       | Mon                                     | Tue       | Wed       | Thu                                                                 | Fri       | Sat       |
|-----------|-----------------------------------------|-----------|-----------|---------------------------------------------------------------------|-----------|-----------|
|           |                                         |           |           |                                                                     |           | <b>1</b>  |
| <b>2</b>  | <b>3</b>                                | <b>4</b>  | <b>5</b>  | <b>6</b>                                                            | <b>7</b>  | <b>8</b>  |
|           |                                         |           |           | <input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly |           |           |
| <b>9</b>  | <b>10</b>                               | <b>11</b> | <b>12</b> | <b>13</b>                                                           | <b>14</b> | <b>15</b> |
|           |                                         |           |           | <input type="checkbox"/> Weekly                                     |           |           |
| <b>16</b> | <b>17</b><br>Stat Holiday<br>Family Day | <b>18</b> | <b>19</b> | <b>20</b>                                                           | <b>21</b> | <b>22</b> |
|           |                                         |           |           | <input type="checkbox"/> Weekly                                     |           |           |
| <b>23</b> | <b>24</b>                               | <b>25</b> | <b>26</b> | <b>27</b>                                                           | <b>28</b> |           |
|           |                                         |           |           | <input type="checkbox"/> Weekly                                     |           |           |



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

## Sampling Calendar

### Omemee Lagoons (5901) Works #110001630

#### Weekly

Final – Grab

#### Monthly

Raw – Grab

Cell – Grab

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

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

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

#### Quarterly

Groundwater Monitoring  
 MW-1 and MW-2

**(January, April, July, October)**

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

#### Spring and Fall

Groundwater Monitoring  
 MW-101B, MW-105B,  
 MW-106B, MW-109B,  
 MW-110, MW-111B,  
 MW-1, MW-2, MW-3,  
 MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. **Spring = March 20 to June 20, Fall = September 22 to December 21.**

#### 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)

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 2025.

# March 2025

| Sun       | Mon       | Tue       | Wed       | Thu                                                                              | Fri       | Sat       |
|-----------|-----------|-----------|-----------|----------------------------------------------------------------------------------|-----------|-----------|
|           |           |           |           |                                                                                  |           | <b>1</b>  |
| <b>2</b>  | <b>3</b>  | <b>4</b>  | <b>5</b>  | <b>6</b>                                                                         | <b>7</b>  | <b>8</b>  |
|           |           |           |           | <input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly              |           |           |
| <b>9</b>  | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b>                                                                        | <b>14</b> | <b>15</b> |
|           |           |           |           | <input type="checkbox"/> Weekly                                                  |           |           |
| <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b>                                                                        | <b>21</b> | <b>22</b> |
|           |           |           |           | <input type="checkbox"/> Weekly<br><br>Start of Spring<br>GWM Sampling<br>Period |           |           |
| <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b>                                                                        | <b>28</b> | <b>29</b> |
|           |           |           |           | <input type="checkbox"/> Weekly                                                  |           |           |
| <b>30</b> | <b>31</b> |           |           |                                                                                  |           |           |



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

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

### Weekly

Final – Grab

### Monthly

Raw – Grab

Cell – Grab

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

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

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

### Quarterly

Groundwater Monitoring  
MW-1 and MW-2

(January, April, July, October)

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. **Spring = March 20 to June 20, Fall = September 22 to December 21.**

### 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)

### 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 2025.

# April 2025

| Sun | Mon                                    | Tue | Wed | Thu                                                                                                            | Fri                               | Sat |
|-----|----------------------------------------|-----|-----|----------------------------------------------------------------------------------------------------------------|-----------------------------------|-----|
|     |                                        | 1   | 2   | 3<br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly<br><input type="checkbox"/> Quarterly | 4                                 | 5   |
| 6   | 7                                      | 8   | 9   | 10<br><input type="checkbox"/> Weekly                                                                          | 11                                | 12  |
| 13  | 14                                     | 15  | 16  | 17<br><input type="checkbox"/> Weekly                                                                          | 18<br>Stat Holiday<br>Good Friday | 19  |
| 20  | 21<br>Stat Holiday<br>Easter<br>Monday | 22  | 23  | 24<br><input type="checkbox"/> Weekly                                                                          | 25                                | 26  |
| 27  | 28                                     | 29  | 30  |                                                                                                                |                                   |     |



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

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

### Weekly

Final – Grab

### Monthly

Raw – Grab

Cell – Grab

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

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

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

### Quarterly

Groundwater Monitoring  
MW-1 and MW-2

### (January, April, July, October)

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. Spring = March 20 to June 20, Fall = September 22 to December 21.

### 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)

### 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 2025.

# May 2025

| Sun | Mon                                | Tue | Wed | Thu                                                                      | Fri | Sat |
|-----|------------------------------------|-----|-----|--------------------------------------------------------------------------|-----|-----|
|     |                                    |     |     | 1<br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly | 2   | 3   |
| 4   | 5                                  | 6   | 7   | 8<br><input type="checkbox"/> Weekly                                     | 9   | 10  |
| 11  | 12                                 | 13  | 14  | 15<br><input type="checkbox"/> Weekly                                    | 16  | 17  |
| 18  | 19<br>Stat Holiday<br>Victoria Day | 20  | 21  | 22<br><input type="checkbox"/> Weekly                                    | 23  | 24  |
| 25  | 26                                 | 27  | 28  | 29<br><input type="checkbox"/> Weekly                                    | 30  | 31  |



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

**Weekly**

Final – Grab

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

**Quarterly**Groundwater Monitoring  
MW-1 and MW-2**(January, April, July, October)**

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.****Spring and Fall**Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. **Spring = March 20 to June 20, Fall = September 22 to December 21.****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)**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 2025.

# June 2025

| Sun       | Mon       | Tue       | Wed       | Thu                                                                 | Fri                                        | Sat       |
|-----------|-----------|-----------|-----------|---------------------------------------------------------------------|--------------------------------------------|-----------|
|           |           |           |           |                                                                     |                                            |           |
| <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<br><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                                     | Finish of Spring<br>GWM Sampling<br>Period |           |
| <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> |           |           |                                                                     |                                            |           |



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

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

### Weekly

Final – Grab

### Monthly

Raw – Grab

Cell – Grab

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

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

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

### Quarterly

Groundwater Monitoring  
 MW-1 and MW-2

### (January, April, July, October)

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
 MW-101B, MW-105B,  
 MW-106B, MW-109B,  
 MW-110, MW-111B,  
 MW-1, MW-2, MW-3,  
 MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. Spring = March 20 to June 20, Fall = September 22 to December 21.

### 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)

### 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 2025.

# July 2025

| Sun       | Mon       | Tue                                    | Wed       | Thu                                                                                                                   | Fri       | Sat       |
|-----------|-----------|----------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------|-----------|-----------|
|           |           | <b>1</b><br>Stat Holiday<br>Canada Day | <b>2</b>  | <b>3</b><br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly<br><input type="checkbox"/> Quarterly | <b>4</b>  | <b>5</b>  |
| <b>6</b>  | <b>7</b>  | <b>8</b>                               | <b>9</b>  | <b>10</b><br><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><br><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><br><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><br><input type="checkbox"/> Weekly                                                                          |           |           |



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

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

### Weekly

Final – Grab

### Monthly

Raw – Grab

Cell – Grab

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

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

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

### Quarterly

Groundwater Monitoring  
MW-1 and MW-2

**(January, April, July, October)**

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. **Spring = March 20 to June 20, Fall = September 22 to December 21.**

### 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)

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 2025.

# August 2025

| Sun | Mon                                | Tue | Wed | Thu                                                                      | Fri | Sat |
|-----|------------------------------------|-----|-----|--------------------------------------------------------------------------|-----|-----|
|     |                                    |     |     |                                                                          | 1   | 2   |
| 3   | 4<br>Stat Holiday<br>Civic Holiday | 5   | 6   | 7<br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly | 8   | 9   |
| 10  | 11                                 | 12  | 13  | 14<br><input type="checkbox"/> Weekly                                    | 15  | 16  |
| 17  | 18                                 | 19  | 20  | 21<br><input type="checkbox"/> Weekly                                    | 22  | 23  |
| 24  | 25                                 | 26  | 27  | 28<br><input type="checkbox"/> Weekly                                    | 29  | 30  |
| 31  |                                    |     |     |                                                                          |     |     |



## Sampling Calendar

### Omemee Lagoons (5901) Works #110001630

**Weekly**

Final – Grab

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

**Quarterly**Groundwater Monitoring  
MW-1 and MW-2**(January, April, July, October)**

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.****Spring and Fall**Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

**1.** Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).**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.**4. Spring = March 20 to June 20, Fall = September 22 to December 21.****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)**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 2025.

# September 2025

| Sun       | Mon                                               | Tue                                | Wed       | Thu                                                                             | Fri                                        | Sat                                                                                                                                                         |
|-----------|---------------------------------------------------|------------------------------------|-----------|---------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | <b>1</b><br>Stat Holiday<br>Labour Day            | <b>2</b>                           | <b>3</b>  | <b>4</b><br><input type="checkbox"/> Weekly<br><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><br><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><br><input type="checkbox"/> Weekly                                    | <b>19</b>                                  | <b>20</b>                                                                                                                                                   |
| <b>21</b> | <b>22</b><br>Start of Fall GWM<br>Sampling Period | <b>23</b>                          | <b>24</b> | <b>25</b><br><input type="checkbox"/> Weekly                                    | <b>26</b>                                  | <b>27</b>                                                                                                                                                   |
| <b>28</b> | <b>29</b>                                         | <b>30</b><br>Stat Holiday<br>NDT&R |           |                                                                                 | Sample Collection<br>Time Frames<br>(Days) | Weekly >5 & <10<br>Bi-Weekly >10 & <20<br>Monthly >20 & <40<br>Quarterly >60 & <120<br>Annual +/- 30 days<br>36 Months +/- 60 days<br>60 Months +/- 90 days |



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

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

### Weekly

Final – Grab

### Monthly

Raw – Grab

Cell – Grab

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

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

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

### Quarterly

Groundwater Monitoring  
MW-1 and MW-2

**(January, April, July, October)**

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
MW-101B, MW-105B,  
MW-106B, MW-109B,  
MW-110, MW-111B,  
MW-1, MW-2, MW-3,  
MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. **Spring = March 20 to June 20, Fall = September 22 to December 21.**

### 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)

### 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 2025.

# October 2025

| Sun | Mon                                 | Tue | Wed | Thu                                                                                                       | Fri | Sat |
|-----|-------------------------------------|-----|-----|-----------------------------------------------------------------------------------------------------------|-----|-----|
|     |                                     |     | 1   | 2                                                                                                         | 3   | 4   |
|     |                                     |     |     | <input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly<br><input type="checkbox"/> Quarterly |     |     |
| 5   | 6                                   | 7   | 8   | 9                                                                                                         | 10  | 11  |
|     |                                     |     |     | <input type="checkbox"/> Weekly                                                                           |     |     |
| 12  | 13                                  | 14  | 15  | 16                                                                                                        | 17  | 18  |
|     | Stat Holiday<br>Thanksgiving<br>Day |     |     | <input type="checkbox"/> Weekly                                                                           |     |     |
| 19  | 20                                  | 21  | 22  | 23                                                                                                        | 24  | 25  |
|     |                                     |     |     | <input type="checkbox"/> Weekly                                                                           |     |     |
| 26  | 27                                  | 28  | 29  | 30                                                                                                        | 31  |     |
|     |                                     |     |     | <input type="checkbox"/> Weekly                                                                           |     |     |



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

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

### Weekly

Final – Grab

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

### Quarterly

Groundwater Monitoring  
 MW-1 and MW-2

(January, April, July, October)

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
 MW-101B, MW-105B,  
 MW-106B, MW-109B,  
 MW-110, MW-111B,  
 MW-1, MW-2, MW-3,  
 MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

1. Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

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.

4. **Spring = March 20 to June 20, Fall = September 22 to December 21.**

### 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)

### 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 2025.

# November 2025

| Sun | Mon | Tue                                      | Wed | Thu                                                                 | Fri | Sat |
|-----|-----|------------------------------------------|-----|---------------------------------------------------------------------|-----|-----|
|     |     |                                          |     |                                                                     |     | 1   |
| 2   | 3   | 4                                        | 5   | 6                                                                   | 7   | 8   |
|     |     |                                          |     | <input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly |     |     |
| 9   | 10  | 11<br>Stat Holiday<br>Remembrance<br>Day | 12  | 13                                                                  | 14  | 15  |
|     |     |                                          |     | <input type="checkbox"/> Weekly                                     |     |     |
| 16  | 17  | 18                                       | 19  | 20                                                                  | 21  | 22  |
|     |     |                                          |     | <input type="checkbox"/> Weekly                                     |     |     |
| 23  | 24  | 25                                       | 26  | 27                                                                  | 28  | 29  |
|     |     |                                          |     | <input type="checkbox"/> Weekly                                     |     |     |
| 30  |     |                                          |     |                                                                     |     |     |



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

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

### Weekly

Final – Grab

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

### Quarterly

Groundwater Monitoring  
 MW-1 and MW-2

(January, April, July, October)

Total Dissolved Solids, Dissolved Organic Carbon, pH, BOD, Chemical Oxygen Demand, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorous, Total Coliform, E. Coli

**Attempt to collect samples and notify PCT and SOM if the water level is too low in the well to collect a sample.**

### Spring and Fall

Groundwater Monitoring  
 MW-101B, MW-105B,  
 MW-106B, MW-109B,  
 MW-110, MW-111B,  
 MW-1, MW-2, MW-3,  
 MW-4 (A410222)

Well Levels of all 19 Groundwater Monitoring Wells (Record on Worksheet and facility logbook)

Total Dissolved Solids, pH, Nitrate Nitrogen, Nitrite Nitrogen, TKN, Hardness, Total Phosphorus

Conductivity measurements on MW-3, MW-4(A410222), MW-105B

PPCP Samples on MW-3, MW-4 (A410222), MW-105B, North Lagoon Cell

**1.** Attempt to collect samples from all identified monitoring wells as per Provincial Officer's Order 1-676860750 (issued Oct. 4, 2024).

**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.

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### 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)

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 2025.

# December 2025

| Sun                                            | Mon | Tue | Wed                                   | Thu                                                                      | Fri                                                                   | Sat |
|------------------------------------------------|-----|-----|---------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|-----|
|                                                | 1   | 2   | 3                                     | 4<br><input type="checkbox"/> Weekly<br><input type="checkbox"/> Monthly | 5<br>*Please review<br>SGS's Holiday<br>schedule prior to<br>sampling | 6   |
| 7                                              | 8   | 9   | 10                                    | 11<br><input type="checkbox"/> Weekly                                    | 12                                                                    | 13  |
| 14                                             | 15  | 16  | 17                                    | 18<br><input type="checkbox"/> Weekly                                    | 19                                                                    | 20  |
| 21<br>Finish of Fall<br>GWM Sampling<br>Period | 22  | 23  | 24<br><input type="checkbox"/> Weekly | 25<br>Stat Holiday<br>Christmas<br>Day                                   | 26<br>Stat Holiday<br>Boxing Day                                      | 27  |
| 28                                             | 29  | 30  | 31<br><input type="checkbox"/> Weekly |                                                                          |                                                                       |     |

**Appendix III:**

**WMS Workorder Summary**

## Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Dec 31, 2024 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            | Actual            |
|                         |                                          |                                                                       |           |                              |                                                                         |        | Start             | Finish            |
| <a href="#">3901693</a> | TANK PROCESS<br>WETWELL [STURGEON<br>ST] | 5901, Sturgeon SPS,<br>Process                                        | CALL      | Inspection                   | 5901, Sturgeon SPS, Float<br>Mode, Alarm                                | CLOSE  | 4/13/24 06:07 AM  | 4/13/24 11:00 AM  |
| <a href="#">3901694</a> | TANK PROCESS<br>WETWELL [STURGEON<br>ST] | 5901, Sturgeon SPS,<br>Process                                        | CALL      | Inspection                   | 5901, Sturgeon SPS, Float<br>Mode, Alarm                                | CLOSE  | 4/14/24 09:16 AM  | 4/14/24 11:00 AM  |
| <a href="#">3902181</a> |                                          | 5901, Sturgeon SPS,<br>Facility                                       | CALL      | Refurbish/<br>Replace/Repair | 5901, Sturgeon SPS, Float<br>Mode, Alarm                                | CLOSE  | 4/11/24 07:30 PM  | 4/11/24 11:30 PM  |
| <a href="#">3902630</a> | TANK PROCESS<br>WETWELL [STURGEON<br>ST] | 5901, Sturgeon SPS,<br>Process                                        | CALL      | Refurbish/<br>Replace/Repair | 5901, Sturgeon SPS, Float<br>Mode, Alarm                                | CLOSE  | 4/15/24 07:19 PM  | 4/15/24 11:15 PM  |
| <a href="#">3996950</a> |                                          | 5901, Omamee<br>Wastewater Collection                                 | EMER      | Refurbish/<br>Replace/Repair | 5901, Omamee Wastewater<br>Collection, Forcemain Repair,<br>Sturgeon Rd | CLOSE  | 6/3/24 10:00 AM   | 6/4/24 01:14 PM   |
| <a href="#">4191929</a> | ENGINE DIESEL<br>GENERATOR<br>[STURGEON] | 5901, Sturgeon SPS,<br>Facility, Power<br>Generation, Engines         | CALL      | Refurbish/<br>Replace/Repair | 5901, Sturgeon SPS, Engines<br>Running Past 2 Hrs, Alarm                | CLOSE  | 10/2/24 08:28 PM  | 10/2/24 09:15 PM  |
| <a href="#">4194029</a> | PANEL ALARM/DIALER<br>[STURGEON]         | 5901, Sturgeon SPS,<br>Facility, IT Equipment                         | CALL      | Inspection                   | 5901, Sturgeon SPS, Burglary,<br>Alarm                                  | CLOSE  | 10/11/24 04:19 PM | 10/11/24 05:30 PM |
| <a href="#">4238759</a> | PANEL ALARM/DIALER<br>[LAGOON]           | 5901, Omamee Lagoon,<br>Process, Process Control<br>& Monitoring      | CALL      | Compliance                   | 5901, Omamee Lagoon, No Test<br>Signal Alarm                            | CLOSE  | 11/21/24 09:30 PM | 11/21/24 09:45 PM |
| <a href="#">4238778</a> | PANEL ALARM/DIALER<br>[LAGOON]           | 5901, Omamee Lagoon,<br>Process, Process Control<br>& Monitoring      | CALL      | Compliance                   | 5901, Omamee Lagoon, No Test<br>Signal Alarm                            | CLOSE  | 11/23/24 09:30 PM | 11/23/24 09:45 PM |
| <a href="#">4278128</a> | UPS BATTERY BANK<br>[STURGEON]           | 5901, Sturgeon SPS,<br>Facility, Power<br>Generation, Backup<br>Power | CALL      | Refurbish/<br>Replace/Repair | 5901, Sturgeon SPS, UPS<br>Backup Power, Fail                           | CLOSE  | 12/6/24 04:00 PM  | 12/6/24 05:00 PM  |

## Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Dec 31, 2024 11:59 PM

Location: 5901\*

Work Order Type: CAP,CORR

Work Order Class:

| WorkOrder               |                                           |                                                            | Workorder Details |                           |                                                                             |        |                   |                   |
|-------------------------|-------------------------------------------|------------------------------------------------------------|-------------------|---------------------------|-----------------------------------------------------------------------------|--------|-------------------|-------------------|
| WO #                    | Asset Description                         | Location Description                                       | Type              | Class                     | Work Order Description                                                      | Status | Actual Start      | Actual Finish     |
| <a href="#">2967520</a> |                                           | 5901, Omemee Lagoon, Facility                              | CORR              | Refurbish/ Replace/Repair | DEFERRED, 5901, Omemee Lagoon, Follow Up, Pole Repairs                      | COMP   | 8/24/22 10:30 AM  | 1/29/25 08:43 AM  |
| <a href="#">3148537</a> |                                           | 5901, Omemee Lagoon                                        | CORR              | Community Complaint       | DEFERRED, 5901, Omemee Lagoon, Special Sampling, Complaint, Farmers Field   | COMP   | 12/19/22 10:00 AM | 1/29/25 08:53 AM  |
| <a href="#">3759866</a> | PUMP SUBMERSIBLE P004 SUBSURFACE          | 5901, Omemee Lagoon, Process                               | CORR              | Refurbish/ Replace/Repair | 5901, Omemee Lagoon, Pump 1 Subsurface, Faulting on Overload                | CLOSE  | 2/26/24 08:25 AM  | 2/26/24 08:25 AM  |
| <a href="#">3765544</a> |                                           | 5901, Omemee Lagoon, Process, Process Control & Monitoring | CAP               | Compliance                | 5901, Omemee Lagoon, Well Monitoring & Sampling Program POO# 1-L4E0C (2024) | COMP   | 1/31/24 11:52 AM  | 12/31/24 03:30 PM |
| <a href="#">3804510</a> |                                           | 5901, Omemee Lagoon, Process, Process Control & Monitoring | CORR              | Refurbish/ Replace/Repair | 5901, Omemee Lagoon, Data Mapping, Communication Repair                     | CLOSE  | 4/12/24 02:00 PM  | 4/12/24 02:00 PM  |
| <a href="#">3807227</a> |                                           | 5901, Omemee Lagoon                                        | CORR              | Refurbish/ Replace/Repair | 5901, Omemee Lagoon, UPS Lagoon, Replace                                    | CLOSE  | 3/18/24 08:40 AM  | 3/18/24 08:40 AM  |
| <a href="#">3847217</a> |                                           | 5901, Omemee Lagoon, Facility                              | CORR              | Refurbish/ Replace/Repair | 5901, Omemee Lagoon, Facility, Valve Repair Between Cells                   | CLOSE  | 3/25/24 07:09 AM  | 3/25/24 07:09 AM  |
| <a href="#">3948169</a> | PUMP SUBMERSIBLE P004 SUBSURFACE [LAGOON] | 5901, Omemee Lagoon, Process                               | CORR              | Refurbish/ Replace/Repair | 5901, Omemee Lagoon, Pump Submersible P004 Subsurface, Replacement          | CLOSE  | 5/16/24 09:49 AM  | 5/16/24 09:49 AM  |
| <a href="#">3997183</a> |                                           | 5901, Sturgeon SPS                                         | CORR              | Refurbish/ Replace/Repair | 5901, Sturgeon SPS, Float Mode Issue, Repair                                | CLOSE  | 6/4/24 01:27 PM   | 6/4/24 01:27 PM   |

|                         |                                           |                                                              |      |                              |                                                                           |       |                   |                  |
|-------------------------|-------------------------------------------|--------------------------------------------------------------|------|------------------------------|---------------------------------------------------------------------------|-------|-------------------|------------------|
| <a href="#">3997575</a> |                                           | 5901, Omemee Lagoon, Facility                                | CORR | Refurbish/<br>Replace/Repair | 5901, Omemee Lagoon, Grass Cutting                                        | CLOSE | 6/10/24 09:38 AM  | 7/10/24 09:38 AM |
| <a href="#">3997691</a> | PUMP SUBMERSIBLE P001 SUBSURFACE [LAGOON] | 5901, Omemee Lagoon, Process                                 | CORR | Refurbish/<br>Replace/Repair | 5901, Omemee Lagoon, Pump Submersible P001 Subsurface, No Flow, Repair    | CLOSE | 6/26/24 09:26 AM  | 6/26/24 09:26 AM |
| <a href="#">4143074</a> | MOTOR PUMP SUBMERSIBLE P004 SUBSURFACE    | 5901, Omemee Lagoon, Process                                 | CAP  | Refurbish/<br>Replace/Repair | 5901, Omemee Lagoon, Motor Pump Submersible P004 Surface [LAGOON], Repair | COMP  | 1/28/25 08:30 AM  | 1/28/25 12:30 PM |
| <a href="#">4196185</a> |                                           | 5901, Omemee Lagoon, Facility                                | CAP  | Compliance                   | 5901, Omemee Lagoon, 2x Monitor Wells at Site, Install                    | COMP  | 10/29/24 09:59 AM | 1/29/25 08:48 AM |
| <a href="#">4277147</a> | UPS BATTERY BANK [STURGEON]               | 5901, Sturgeon SPS, Facility, Power Generation, Backup Power | CORR | Refurbish/<br>Replace/Repair | 5901, Sturgeon SPS, UPS Backup Power Failed, Replace                      | CLOSE | 12/6/24 03:05 PM  | 12/6/24 06:00 PM |

## Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Dec 31, 2024 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    |
| <a href="#">3711444</a> |                                     | 5901, Omemee Lagoon                                        | OPER              | HEALTH AND SAFETY         | Corporate Facility Workplace H & S Inspection (3m) - 5901 - KTS | CLOSE  | 2/1/24 12:00 AM  | 2/1/24 12:00 AM  |
| <a href="#">3711451</a> |                                     | 5901, Omemee Lagoon                                        | PM                | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE  | 1/1/24 12:00 AM  | 1/31/24 12:00 AM |
| <a href="#">3711453</a> |                                     | 5901, Omemee Lagoon                                        | PM                | Inspection                | Daily Operational Activities (1y) - 5901 - KTS                  | COMP   | 1/2/25 09:55 AM  | 1/2/25 09:55 AM  |
| <a href="#">3711458</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM                | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE  | 2/8/24 12:00 AM  | 2/8/24 12:00 AM  |
| <a href="#">3711465</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM                | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE  | 2/8/24 12:00 AM  | 2/8/24 12:00 AM  |
| <a href="#">3713024</a> |                                     | 5901, Omemee Lagoon                                        | PM                | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE  | 2/8/24 12:00 AM  | 2/8/24 12:00 AM  |
| <a href="#">3713027</a> |                                     | 5901, Omemee Lagoon                                        | PM                | Inspection                | Water Well Inspection (3m) - 5901 Lagoon Monitoring Wells - KTS | CLOSE  | 1/19/24 02:30 PM | 1/19/24 02:30 PM |
| <a href="#">3713346</a> |                                     | 5901, Omemee Lagoon                                        | PM                | Compliance                | FEP Contact List Update (1y) - 5901 - KTS                       | CLOSE  | 4/16/24 12:00 AM | 4/16/24 12:00 AM |
| <a href="#">3714016</a> | ENGINE DIESEL GENERATOR [CHURCH ST] | 5901, Church SPS, Facility, Power Generation, Backup Power | PM                | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE  | 2/8/24 12:00 AM  | 2/8/24 12:00 AM  |
| <a href="#">3714035</a> | PANEL ALARM/DIALER [CHURCH]         | 5901, Church SPS, Process, Process Control & Monitoring    | PM                | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE  | 2/8/24 12:00 AM  | 2/8/24 12:00 AM  |
| <a href="#">3714042</a> | PANEL ALARM/DIALER [LAGOON]         | 5901, Omemee Lagoon, Process, Process Control & Monitoring | PM                | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                           | CLOSE  | 2/8/24 12:00 AM  | 2/8/24 12:00 AM  |

|                         |                                     |                                                            |      |                           |                                                                 |       |                   |                   |
|-------------------------|-------------------------------------|------------------------------------------------------------|------|---------------------------|-----------------------------------------------------------------|-------|-------------------|-------------------|
| <a href="#">3735502</a> |                                     | 5901, Omemee Lagoon                                        | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                    | CLOSE | 2/1/24 12:00 AM   | 2/1/24 12:00 AM   |
| <a href="#">3738231</a> |                                     | 5901, Omemee Lagoon                                        | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                   | CLOSE | 1/16/24 12:00 AM  | 1/16/24 12:00 AM  |
| <a href="#">3739437</a> |                                     | 5901, Omemee Lagoon                                        | PM   | Inspection                | Well Level Monitoring & Sampling POO# 1-L4E0C (3m) – 5901 – KTS | CLOSE | 1/9/24 12:00 AM   | 1/9/24 12:00 AM   |
| <a href="#">3768081</a> |                                     | 5901, Omemee Lagoon                                        | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE | 2/1/24 12:00 AM   | 2/29/24 12:00 AM  |
| <a href="#">3768083</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3768090</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3769317</a> |                                     | 5901, Omemee Lagoon                                        | PM   | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3769762</a> | ENGINE DIESEL GENERATOR [CHURCH ST] | 5901, Church SPS, Facility, Power Generation, Backup Power | PM   | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3769781</a> | PANEL ALARM/DIALER [CHURCH]         | 5901, Church SPS, Process, Process Control & Monitoring    | PM   | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3769788</a> | PANEL ALARM/DIALER [LAGOON]         | 5901, Omemee Lagoon, Process, Process Control & Monitoring | PM   | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                           | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3785264</a> |                                     | 5901, Omemee Lagoon                                        | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                    | CLOSE | 3/12/24 12:00 AM  | 3/12/24 12:00 AM  |
| <a href="#">3787025</a> |                                     | 5901, Omemee Lagoon                                        | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                   | CLOSE | 2/14/24 12:00 AM  | 2/14/24 12:00 AM  |
| <a href="#">3809903</a> |                                     | 5901, Omemee Lagoon                                        | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE | 3/1/24 12:00 AM   | 3/28/24 12:00 AM  |
| <a href="#">3809905</a> | BLOWER ROTORY LOBE [LAGOON]         | 5901, Omemee Lagoon, Process                               | PM   | Refurbish/ Replace/Repair | Blower Insp/Service (1y) - 5901 Lagoon- KTS                     | COMP  | 12/27/24 01:29 PM | 12/27/24 01:29 PM |
| <a href="#">3809918</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |
| <a href="#">3809925</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |

|                         |                                           |                                                                  |      |                              |                                                                 |       |                   |                   |
|-------------------------|-------------------------------------------|------------------------------------------------------------------|------|------------------------------|-----------------------------------------------------------------|-------|-------------------|-------------------|
| <a href="#">3811249</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Refurbish/<br>Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |
| <a href="#">3811533</a> | PUMP CENT 02<br>DISCH [LAGOON]            | 5901, Omemee Lagoon,<br>Process                                  | PM   | Inspection                   | Pump Cent Insp/Service (1y) - 5901 Lagoon- KTS                  | COMP  | 12/27/24 01:50 PM | 12/27/24 01:50 PM |
| <a href="#">3811993</a> | ENGINE DIESEL<br>GENERATOR<br>[CHURCH ST] | 5901, Church SPS, Facility,<br>Power Generation, Backup<br>Power | PM   | Inspection                   | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |
| <a href="#">3812012</a> | PANEL<br>ALARM/DIALER<br>[CHURCH]         | 5901, Church SPS, Process,<br>Process Control &<br>Monitoring    | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |
| <a href="#">3812019</a> | PANEL<br>ALARM/DIALER<br>[LAGOON]         | 5901, Omemee Lagoon,<br>Process, Process Control &<br>Monitoring | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Lagoon - KTS                           | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |
| <a href="#">3828833</a> |                                           | 5901, Omemee Lagoon                                              | PM   | HEALTH AND<br>SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                    | CLOSE | 3/28/24 12:00 AM  | 3/28/24 12:00 AM  |
| <a href="#">3830542</a> |                                           | 5901, Omemee Lagoon                                              | OPER | Compliance                   | Operator PDM Entry & Review (1m) - 5901 - KTS                   | CLOSE | 3/7/24 12:00 AM   | 3/8/24 12:00 AM   |
| <a href="#">3854628</a> |                                           | 5901, Omemee Lagoon                                              | OPER | HEALTH AND<br>SAFETY         | Corporate Facility Workplace H & S Inspection (3m) - 5901 - KTS | CLOSE | 4/16/24 12:00 AM  | 4/16/24 12:00 AM  |
| <a href="#">3854635</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Inspection                   | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE | 4/18/24 12:00 AM  | 4/18/24 12:00 AM  |
| <a href="#">3854637</a> | PANEL<br>ALARM/DIALER<br>[STURGEON]       | 5901, Sturgeon SPS,<br>Facility, IT Equipment                    | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE | 4/18/24 12:00 AM  | 4/18/24 12:00 AM  |
| <a href="#">3854644</a> | ENGINE DIESEL<br>GENERATOR<br>[STURGEON]  | 5901, Sturgeon SPS,<br>Facility, Power Generation,<br>Engines    | PM   | Inspection                   | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE | 4/18/24 12:00 AM  | 4/18/24 12:00 AM  |
| <a href="#">3856076</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Refurbish/<br>Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE | 4/17/24 12:00 AM  | 4/17/24 12:00 AM  |
| <a href="#">3856079</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Inspection                   | Water Well Inspection (3m) - 5901 Lagoon Monitoring Wells - KTS | CLOSE | 4/25/24 12:00 AM  | 4/25/24 12:00 AM  |
| <a href="#">3856418</a> | TANK PROCESS<br>WETWELL<br>[STURGEON ST]  | 5901, Sturgeon SPS,<br>Process                                   | PM   | Refurbish/<br>Replace/Repair | Tank Wetwell Cleaning/Inspection (6m) - 5901 Sturgeon - KTS     | CLOSE | 6/18/24 07:00 AM  | 6/18/24 10:00 AM  |
| <a href="#">3857165</a> | ENGINE DIESEL<br>GENERATOR<br>[CHURCH ST] | 5901, Church SPS, Facility,<br>Power Generation, Backup<br>Power | PM   | Inspection                   | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE | 4/18/24 12:00 AM  | 4/18/24 12:00 AM  |
| <a href="#">3857184</a> | PANEL<br>ALARM/DIALER<br>[CHURCH]         | 5901, Church SPS, Process,<br>Process Control &<br>Monitoring    | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE | 4/18/24 12:00 AM  | 4/18/24 12:00 AM  |

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| <a href="#">3857191</a> | PANEL<br>ALARM/DIALER<br>[LAGOON]         | 5901, Omemee Lagoon,<br>Process, Process Control &<br>Monitoring | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Lagoon - KTS                                       | CLOSE | 4/18/24 12:00 AM | 4/18/24 12:00 AM |
| <a href="#">3858128</a> | TANK PROCESS<br>WETWELL [CHURCH<br>ST]    | 5901, Church SPS, Process                                        | PM   | Refurbish/<br>Replace/Repair | Tank Wetwell Cleaning/Inspection (6m) -<br>5901 Church - KTS                | CLOSE | 6/18/24 10:00 AM | 6/18/24 12:00 PM |
| <a href="#">3876643</a> |                                           | 5901, Omemee Lagoon                                              | PM   | HEALTH AND<br>SAFETY         | HS03 H & S Equipment Check (1m) -<br>5901 - KTS                             | CLOSE | 4/16/24 12:00 AM | 4/16/24 12:00 AM |
| <a href="#">3878857</a> |                                           | 5901, Omemee Lagoon                                              | OPER | Compliance                   | Operator PDM Entry & Review (1m) -<br>5901 - KTS                            | CLOSE | 4/23/24 12:00 AM | 4/23/24 12:00 AM |
| <a href="#">3880040</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Inspection                   | Well Level Monitoring & Sampling<br>POO# 1-L4E0C (3m) – 5901 – KTS          | CLOSE | 4/25/24 12:00 AM | 4/25/24 12:00 AM |
| <a href="#">3907266</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Inspection                   | Building and Grounds Maintenance<br>(1m) - 5901 - KTS                       | CLOSE | 5/30/24 12:00 AM | 5/30/24 12:00 AM |
| <a href="#">3907268</a> | PANEL<br>ALARM/DIALER<br>[STURGEON]       | 5901, Sturgeon SPS,<br>Facility, IT Equipment                    | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Sturgeon -<br>KTS                                  | CLOSE | 5/17/24 01:25 PM | 5/17/24 01:25 PM |
| <a href="#">3907275</a> | ENGINE DIESEL<br>GENERATOR<br>[STURGEON]  | 5901, Sturgeon SPS,<br>Facility, Power Generation,<br>Engines    | PM   | Inspection                   | Engine Diesel (1m) - 5901 Sturgeon -<br>KTS                                 | CLOSE | 5/30/24 12:00 AM | 5/30/24 12:00 AM |
| <a href="#">3908518</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Refurbish/<br>Replace/Repair | Tank Alum Inspection (1m) - 5901 -<br>KTS                                   | CLOSE | 5/30/24 12:00 AM | 5/30/24 12:00 AM |
| <a href="#">3909269</a> | ENGINE DIESEL<br>GENERATOR<br>[CHURCH ST] | 5901, Church SPS, Facility,<br>Power Generation, Backup<br>Power | PM   | Inspection                   | Engine Diesel (1m) - 5901 Church -<br>KTS                                   | CLOSE | 5/30/24 12:00 AM | 5/30/24 12:00 AM |
| <a href="#">3909288</a> | PANEL<br>ALARM/DIALER<br>[CHURCH]         | 5901, Church SPS, Process,<br>Process Control &<br>Monitoring    | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Church - KTS                                       | CLOSE | 5/16/24 12:00 AM | 5/16/24 12:00 AM |
| <a href="#">3909295</a> | PANEL<br>ALARM/DIALER<br>[LAGOON]         | 5901, Omemee Lagoon,<br>Process, Process Control &<br>Monitoring | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Lagoon - KTS                                       | CLOSE | 5/16/24 12:00 AM | 5/30/24 12:00 AM |
| <a href="#">3918530</a> |                                           | 5901, Omemee Lagoon                                              | PM   | Inspection                   | Lifting Devices & Fall Arrest Inspection<br>by Contractor (1y) - 5901 - KTS | CLOSE | 6/26/24 12:00 AM | 6/26/24 12:00 AM |
| <a href="#">3927701</a> |                                           | 5901, Omemee Lagoon                                              | PM   | HEALTH AND<br>SAFETY         | HS03 H & S Equipment Check (1m) -<br>5901 - KTS                             | CLOSE | 5/30/24 12:00 AM | 5/30/24 12:00 AM |
| <a href="#">3929514</a> |                                           | 5901, Omemee Lagoon                                              | OPER | Compliance                   | Operator PDM Entry & Review (1m) -<br>5901 - KTS                            | CLOSE | 5/9/24 12:00 AM  | 5/9/24 12:00 AM  |

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| <a href="#">3955720</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE | 6/28/24 12:00 AM  | 6/28/24 12:00 AM  |
| <a href="#">3955722</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3955729</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3956916</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3957585</a> | ENGINE DIESEL GENERATOR [CHURCH ST] | 5901, Church SPS, Facility, Power Generation, Backup Power | PM   | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3957604</a> | PANEL ALARM/DIALER [CHURCH]         | 5901, Church SPS, Process, Process Control & Monitoring    | PM   | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3957611</a> | PANEL ALARM/DIALER [LAGOON]         | 5901, Omeme Lagoon, Process, Process Control & Monitoring  | PM   | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                           | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3972424</a> |                                     | 5901, Sturgeon SPS                                         | PM   | Refurbish/ Replace/Repair | Drive VFD Insp (1y) - 5901 - KTS                                | COMP  | 12/27/24 01:33 PM | 12/27/24 01:33 PM |
| <a href="#">3977291</a> |                                     | 5901, Omeme Lagoon                                         | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                    | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">3978184</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Aeration Pod Inspection & Cleaning (1y) - 5901 - KTS            | COMP  | 1/21/25 02:11 PM  | 1/21/25 02:11 PM  |
| <a href="#">3979116</a> |                                     | 5901, Omeme Lagoon                                         | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                   | CLOSE | 6/27/24 12:00 AM  | 6/27/24 12:00 AM  |
| <a href="#">4000348</a> | TANK PROCESS WETWELL [LAGOON SPS]   | 5901, Omeme Lagoon, Process                                | PM   | Refurbish/ Replace/Repair | Tank Wetwell Cleaning/Inspection (6m) - 5901 Lagoon SPS - KTS   | CLOSE | 6/18/24 12:00 PM  | 6/18/24 03:00 PM  |
| <a href="#">4005364</a> |                                     | 5901, Omeme Lagoon                                         | OPER | HEALTH AND SAFETY         | Corporate Facility Workplace H & S Inspection (3m) - 5901 - KTS | CLOSE | 7/25/24 12:00 AM  | 7/25/24 12:00 AM  |
| <a href="#">4005371</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE | 7/25/24 12:00 AM  | 7/25/24 12:00 AM  |
| <a href="#">4005373</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE | 7/30/24 12:00 AM  | 7/30/24 12:00 AM  |
| <a href="#">4005380</a> | ENGINE DIESEL GENERATOR             | 5901, Sturgeon SPS, Facility, Power Generation,            | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE | 7/30/24 12:00 AM  | 7/30/24 12:00 AM  |
| <a href="#">4006786</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE | 7/30/24 12:00 AM  | 7/30/24 12:00 AM  |

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| <a href="#">4006789</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Water Well Inspection (3m) - 5901 Lagoon Monitoring Wells - KTS | CLOSE | 8/7/24 12:00 AM  | 8/7/24 12:00 AM  |
| <a href="#">4007435</a> | ENGINE DIESEL GENERATOR [CHURCH ST] | 5901, Church SPS, Facility, Power Generation, Backup Power | PM   | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE | 7/25/24 12:00 AM | 7/25/24 12:00 AM |
| <a href="#">4007454</a> | PANEL ALARM/DIALER [CHURCH]         | 5901, Church SPS, Process, Process Control & Monitoring    | PM   | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE | 7/25/24 12:00 AM | 7/25/24 12:00 AM |
| <a href="#">4007461</a> | PANEL ALARM/DIALER [LAGOON]         | 5901, Omeme Lagoon, Process, Process Control & Monitoring  | PM   | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                           | CLOSE | 7/25/24 12:00 AM | 7/25/24 12:00 AM |
| <a href="#">4024656</a> |                                     | 5901, Omeme Lagoon                                         | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                    | CLOSE | 7/25/24 12:00 AM | 7/25/24 12:00 AM |
| <a href="#">4026645</a> |                                     | 5901, Omeme Lagoon                                         | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                   | CLOSE | 7/10/24 03:27 PM | 7/10/24 03:27 PM |
| <a href="#">4027728</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Well Level Monitoring & Sampling POO# 1-L4E0C (3m) - 5901 - KTS | CLOSE | 9/24/24 01:18 PM | 9/24/24 01:18 PM |
| <a href="#">4054721</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS              | CLOSE | 8/21/24 12:00 AM | 8/21/24 12:00 AM |
| <a href="#">4054723</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                         | CLOSE | 8/23/24 02:50 PM | 8/23/24 02:50 PM |
| <a href="#">4054730</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                        | CLOSE | 8/21/24 12:00 AM | 8/21/24 12:00 AM |
| <a href="#">4055986</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                          | CLOSE | 8/21/24 12:00 AM | 8/21/24 12:00 AM |
| <a href="#">4056395</a> | ENGINE DIESEL GENERATOR [CHURCH ST] | 5901, Church SPS, Facility, Power Generation, Backup Power | PM   | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                          | CLOSE | 8/21/24 12:00 AM | 8/21/24 12:00 AM |
| <a href="#">4056414</a> | PANEL ALARM/DIALER [CHURCH]         | 5901, Church SPS, Process, Process Control & Monitoring    | PM   | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                           | CLOSE | 8/21/24 12:00 AM | 8/21/24 12:00 AM |
| <a href="#">4056421</a> | PANEL ALARM/DIALER [LAGOON]         | 5901, Omeme Lagoon, Process, Process Control & Monitoring  | PM   | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                           | CLOSE | 8/20/24 12:00 AM | 8/20/24 12:00 AM |
| <a href="#">4072432</a> |                                     | 5901, Omeme Lagoon                                         | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                    | CLOSE | 8/21/24 12:00 AM | 8/21/24 12:00 AM |
| <a href="#">4074065</a> |                                     | 5901, Omeme Lagoon                                         | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                   | CLOSE | 8/1/24 12:00 AM  | 8/31/24 12:00 AM |

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| <a href="#">4099063</a> |                                              | 5901, Omemee Lagoon                                        | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS                           | CLOSE | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4099065</a> | PANEL ALARM/DIALER [STURGEON]                | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                                      | CLOSE | 9/24/24 12:00 AM  | 9/24/24 12:00 AM  |
| <a href="#">4099072</a> | ENGINE DIESEL GENERATOR [STURGEON]           | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                                     | CLOSE | 9/24/24 12:00 AM  | 9/24/24 12:00 AM  |
| <a href="#">4100293</a> |                                              | 5901, Omemee Lagoon                                        | PM   | Calibration               | Online Process Equipment Calibration Service by Contractor (1y) - 5901 - KTS | CLOSE | 11/6/24 12:00 AM  | 11/6/24 12:00 AM  |
| <a href="#">4100298</a> |                                              | 5901, Omemee Lagoon                                        | PM   | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                                       | CLOSE | 9/24/24 12:00 AM  | 9/24/24 12:00 AM  |
| <a href="#">4101208</a> | ENGINE DIESEL GENERATOR [CHURCH ST]          | 5901, Church SPS, Facility, Power Generation, Backup Power | PM   | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                                       | CLOSE | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4101228</a> | PANEL ALARM/DIALER [CHURCH]                  | 5901, Church SPS, Process, Process Control & Monitoring    | PM   | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                                        | CLOSE | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4101235</a> | PANEL ALARM/DIALER [LAGOON]                  | 5901, Omemee Lagoon, Process, Process Control & Monitoring | PM   | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                                        | CLOSE | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4119856</a> |                                              | 5901, Omemee Lagoon                                        | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                                 | CLOSE | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4121782</a> |                                              | 5901, Omemee Lagoon                                        | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                                | CLOSE | 9/23/24 10:10 AM  | 9/23/24 10:10 AM  |
| <a href="#">4132513</a> | METER LEVEL LIT 106 SPRAYER WETWELL [LAGOON] | 5901, Omemee Lagoon, Process, Process Control & Monitoring | PM   | Calibration               | Meter Level LIT 106 Calibration/Service (1y) 5901                            | CLOSE | 11/6/24 12:00 AM  | 11/6/24 12:00 AM  |
| <a href="#">4142019</a> | 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    | CLOSE | 9/24/24 12:00 AM  | 9/24/24 12:00 AM  |
| <a href="#">4142025</a> | 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  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4148614</a> |                                              | 5901, Omemee Lagoon                                        | PM   | Refurbish/ Replace/Repair | Heater Unit Insp. (1y) - 5901 Lagoon-KTS                                     | COMP  | 11/13/24 12:00 AM | 11/13/24 12:00 AM |
| <a href="#">4149649</a> |                                              | 5901, Omemee Lagoon                                        | OPER | HEALTH AND SAFETY         | Corporate Facility Workplace H & S Inspection (3m) - 5901 - KTS              | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |

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| <a href="#">4149656</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS                 | COMP  | 10/31/24 12:00 AM | 10/31/24 12:00 AM |
| <a href="#">4149658</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                            | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4149665</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                           | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4151118</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Refurbish/ Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                             | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4151121</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Water Well Inspection (3m) - 5901 Lagoon Monitoring Wells - KTS    | COMP  | 11/27/24 12:00 AM | 11/27/24 12:00 AM |
| <a href="#">4151372</a> | TANK PROCESS WETWELL [STURGEON ST]  | 5901, Sturgeon SPS, Process                                | PM   | Refurbish/ Replace/Repair | Tank Wetwell Cleaning/Inspection (6m) - 5901 Sturgeon - KTS        | CLOSE | 12/10/24 07:39 AM | 12/10/24 07:39 AM |
| <a href="#">4151987</a> | ENGINE DIESEL GENERATOR [CHURCH ST] | 5901, Church SPS, Facility, Power Generation, Backup Power | PM   | Inspection                | Engine Diesel (1m) - 5901 Church - KTS                             | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4152006</a> | PANEL ALARM/DIALER [CHURCH]         | 5901, Church SPS, Process, Process Control & Monitoring    | PM   | Inspection                | Alarm Dialer (1m) - 5901 Church - KTS                              | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4152013</a> | PANEL ALARM/DIALER                  | 5901, Omeme Lagoon, Process, Process Control &             | PM   | Inspection                | Alarm Dialer (1m) - 5901 Lagoon - KTS                              | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4153093</a> | TANK PROCESS WETWELL [CHURCH ST]    | 5901, Church SPS, Process                                  | PM   | Refurbish/ Replace/Repair | Tank Wetwell Cleaning/Inspection (6m) - 5901 Church - KTS          | CLOSE | 12/5/24 12:00 AM  | 12/5/24 12:00 AM  |
| <a href="#">4170020</a> |                                     | 5901, Omeme Lagoon                                         | PM   | HEALTH AND SAFETY         | HS03 H & S Equipment Check (1m) - 5901 - KTS                       | COMP  | 10/2/24 12:00 AM  | 10/2/24 12:00 AM  |
| <a href="#">4172186</a> |                                     | 5901, Omeme Lagoon                                         | OPER | Compliance                | Operator PDM Entry & Review (1m) - 5901 - KTS                      | CLOSE | 10/15/24 10:32 AM | 10/15/24 10:32 AM |
| <a href="#">4173266</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Well Level Monitoring & Sampling POO# 1-L4E0C (3m) - 5901 - KTS    | CLOSE | 11/27/24 12:00 AM | 11/27/24 12:00 AM |
| <a href="#">4184753</a> | VALVE RELIEF AIR [STURGEON ROAD]    | 5901, Omeme Wastewater Collection                          | PM   | Refurbish/ Replace/Repair | Valve Relief Air Cleaning/Inspection (6m) - 5901 Sturgeon Rd - KTS | CLOSE | 12/5/24 12:00 AM  | 12/5/24 12:00 AM  |
| <a href="#">4199880</a> |                                     | 5901, Omeme Lagoon                                         | PM   | Inspection                | Building and Grounds Maintenance (1m) - 5901 - KTS                 | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4199882</a> | PANEL ALARM/DIALER [STURGEON]       | 5901, Sturgeon SPS, Facility, IT Equipment                 | PM   | Inspection                | Alarm Dialer (1m) - 5901 Sturgeon - KTS                            | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4199889</a> | ENGINE DIESEL GENERATOR [STURGEON]  | 5901, Sturgeon SPS, Facility, Power Generation, Engines    | PM   | Inspection                | Engine Diesel (1m) - 5901 Sturgeon - KTS                           | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |

|                         |                                                           |                                                                   |      |                              |                                                       |       |                   |                   |
|-------------------------|-----------------------------------------------------------|-------------------------------------------------------------------|------|------------------------------|-------------------------------------------------------|-------|-------------------|-------------------|
| <a href="#">4201088</a> |                                                           | 5901, Omemee Lagoon                                               | PM   | Refurbish/<br>Replace/Repair | Tank Alum Inspection (1m) - 5901 - KTS                | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4201193</a> | FILTER CARBON<br>ODOUR CONTROL<br>CANNISTER<br>[STURGEON] | 5901, Sturgeon SPS,<br>Process, Tertiary Treatment,<br>Filtration | PM   | Inspection                   | Filter Carbon Insp. (1y) - 5901 Sturgeon<br>- KTS     | CLOSE | 11/29/24 12:00 AM | 11/29/24 12:00 AM |
| <a href="#">4201202</a> | FILTER CARBON<br>ODOUR CONTROL<br>CANISTER<br>[STURGEON]  | 5901, Sturgeon SPS,<br>Process, Tertiary Treatment,<br>Filtration | PM   | Inspection                   | Filter Carbon Insp. (1y) - 5901 Sturgeon<br>- KTS     | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4201592</a> | ENGINE DIESEL<br>GENERATOR<br>[CHURCH ST]                 | 5901, Church SPS, Facility,<br>Power Generation, Backup<br>Power  | PM   | Inspection                   | Engine Diesel (1m) - 5901 Church -<br>KTS             | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4201611</a> | PANEL<br>ALARM/DIALER<br>[CHURCH]                         | 5901, Church SPS, Process,<br>Process Control &<br>Monitoring     | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Church - KTS                 | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4201618</a> | PANEL<br>ALARM/DIALER<br>[LAGOON]                         | 5901, Omemee Lagoon,<br>Process, Process Control &<br>Monitoring  | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Lagoon - KTS                 | CLOSE | 11/29/24 12:00 AM | 11/29/24 12:00 AM |
| <a href="#">4216646</a> |                                                           | 5901, Omemee Lagoon                                               | PM   | HEALTH AND<br>SAFETY         | HS03 H & S Equipment Check (1m) -<br>5901 - KTS       | CLOSE | 11/28/24 12:00 AM | 11/28/24 12:00 AM |
| <a href="#">4218273</a> |                                                           | 5901, Omemee Lagoon                                               | OPER | Compliance                   | Operator PDM Entry & Review (1m) -<br>5901 - KTS      | CLOSE | 11/18/24 11:01 AM | 11/18/24 11:01 AM |
| <a href="#">4239258</a> | PANEL<br>ALARM/DIALER<br>[LAGOON]                         | 5901, Omemee Lagoon,<br>Process, Process Control &<br>Monitoring  | OPER | Compliance                   | 5901, Omemee Lagoon, No Test Signal<br>Alarm          | CLOSE | 11/25/24 09:30 PM | 11/25/24 09:45 PM |
| <a href="#">4241859</a> |                                                           | 5901, Omemee Lagoon                                               | PM   | Inspection                   | Building and Grounds Maintenance<br>(1m) - 5901 - KTS | COMP  | 12/5/24 12:00 AM  | 12/5/24 12:00 AM  |
| <a href="#">4241861</a> | PANEL<br>ALARM/DIALER<br>[STURGEON]                       | 5901, Sturgeon SPS,<br>Facility, IT Equipment                     | PM   | Inspection                   | Alarm Dialer (1m) - 5901 Sturgeon -<br>KTS            | COMP  | 12/6/24 12:00 AM  | 12/6/24 12:00 AM  |
| <a href="#">4241868</a> | ENGINE DIESEL<br>GENERATOR<br>[STURGEON]                  | 5901, Sturgeon SPS,<br>Facility, Power Generation,<br>Engines     | PM   | Inspection                   | Engine Diesel (1m) - 5901 Sturgeon -<br>KTS           | COMP  | 12/6/24 12:00 AM  | 12/6/24 12:00 AM  |
| <a href="#">4243042</a> |                                                           | 5901, Omemee Lagoon                                               | PM   | Refurbish/<br>Replace/Repair | Tank Alum Inspection (1m) - 5901 -<br>KTS             | COMP  | 12/6/24 12:00 AM  | 12/6/24 12:00 AM  |
| <a href="#">4243512</a> | ENGINE DIESEL<br>GENERATOR<br>[CHURCH ST]                 | 5901, Church SPS, Facility,<br>Power Generation, Backup<br>Power  | PM   | Inspection                   | Engine Diesel (1m) - 5901 Church -<br>KTS             | COMP  | 12/6/24 12:00 AM  | 12/6/24 12:00 AM  |
| <a href="#">4260069</a> |                                                           | 5901, Omemee Lagoon                                               | OPER | Compliance                   | Operator PDM Entry & Review (1m) -<br>5901 - KTS      | CLOSE | 12/6/24 08:07 AM  | 12/6/24 08:07 AM  |



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

**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**

## **Omemee SPS and Lagoon Flows 2024**

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*Leaders in Instrumentation and Control*



# CALIBRATION REPORT

Report No.: OCWA 24 FIT Lagoon

Date: 09-Nov-24

**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 9, 2024

TECHNICIAN: MM

JOB REFERENCE: OCWA 24

| Input (Test)  |              |                | Output (Signal)    |        | (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          |                |                    |        |                   |        |
| GK=1 GKL=2    | 2            |                |                    |        |                   |        |
| GK:           | 4.575        |                |                    |        |                   |        |
| Constant:     | 4177.44      |                |                    |        |                   |        |
|               |              |                | 100.5 ohms         |        | open to ground    |        |
|               |              |                | 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           | 6.79               | -0.15% | 6.79              | -0.15% |
| 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. 16, 2024 | Mar. 26, 2024  |  |

Comments:

AS FOUND: PASS

AS LEFT: PASS

CERTIFIED BY:

# 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

11/06/2024

Verification date

Omeme Lagoons

Plant

-----

Tag Name

1.2394 - 1.2394

K-Factor

6

Zero point

V1.05.03

Software Version I/O-Module

09:25

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

03/2024

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2024

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 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            | 11/06/2024        | Verification time           | 09:25           |

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 %              | -0.61 %               |
| ✓               |                         | 3.142 l/s (10.0%)  | 1.00 %              | -0.59 %               |
| ✓               |                         | 15.708 l/s (50.0%) | 0.60 %              | 0.01 %                |
| ✓               |                         | 31.416 l/s (100%)  | 0.55 %              | 0.07 %                |
|                 |                         |                    |                     |                       |
| ✓               | Current Output 1        | 4.000 mA (0%)      | 0.05 mA             | 0.003 mA              |
| ✓               |                         | 4.800 mA (5%)      | 0.05 mA             | 0.004 mA              |
| ✓               |                         | 5.600 mA (10.0%)   | 0.05 mA             | -0.009 mA             |
| ✓               |                         | 12.000 mA (50.0%)  | 0.05 mA             | 0.006 mA              |
| ✓               |                         | 20.000 mA (100%)   | 0.05 mA             | 0.021 mA              |
|                 |                         |                    |                     |                       |
| ✓               | Pulse Output 1          | 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     | 3.272 mV              |

Legend of symbols

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

# FieldCheck: Parameters Transmitter

|                              |                   |                             |                 |
|------------------------------|-------------------|-----------------------------|-----------------|
| Customer                     | OCWA Kwartha      | Plant                       | Omeme Lagoon    |
| 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            | 11/06/2024        | Verification time           | 09:25           |

| Curent Output  | Assign      | Current Range  | Value 0_4mA      | Value 20 mA |  |  |
|----------------|-------------|----------------|------------------|-------------|--|--|
| Terminal 26/27 | VOLUME FLOW | 4-20 mA active | 0.0 I/s          | 10.00 I/s   |  |  |
|                |             |                |                  |             |  |  |
| Pulse Output   | Assign      | Pulse Value    | Output signal    | Pulse width |  |  |
| 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 #2

Order code

PROMAG 53 W DN100

Device type

H607FB16000

Serial number

V2.03.00

Software Version Transmitter

11/06/2024

Verification date

Omeme Lagoon

Plant

-----

Tag Name

1.2614 - 1.2614

K-Factor

-15

Zero point

V1.05.03

Software Version I/O-Module

09:40

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

03/2024

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2024

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 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            | 11/06/2024        | Verification time           | 09:40           |

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 %              | -0.55 %               |
| ✓               |                         | 3.142 l/s (10.0%)  | 1.00 %              | -0.53 %               |
| ✓               |                         | 15.708 l/s (50.0%) | 0.60 %              | -0.00 %               |
| ✓               |                         | 31.416 l/s (100%)  | 0.55 %              | 0.03 %                |
|                 |                         |                    |                     |                       |
| ✓               | Current Output 1        | 4.000 mA (0%)      | 0.05 mA             | 0.004 mA              |
| ✓               |                         | 4.800 mA (5%)      | 0.05 mA             | 0.003 mA              |
| ✓               |                         | 5.600 mA (10.0%)   | 0.05 mA             | -0.009 mA             |
| ✓               |                         | 12.000 mA (50.0%)  | 0.05 mA             | 0.005 mA              |
| ✓               |                         | 20.000 mA (100%)   | 0.05 mA             | 0.022 mA              |
|                 |                         |                    |                     |                       |
| ✓               | Pulse Output 1          | 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    | 6.261 ms              |
| ✓               | Coil Curr. Stability    |                    | ---                 | ---                   |
| ✓               | Electrode Integrity     | mV                 | 0.0..300.001 mV     | 128.013 mV            |

Legend of symbols

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

# FieldCheck: Parameters Transmitter

|                              |                   |                             |                 |
|------------------------------|-------------------|-----------------------------|-----------------|
| Customer                     | OCWA Kawartha     | Plant                       | Omemeee 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            | 11/06/2024        | Verification time           | 09:40           |

| Curent Output  | Assign      | Current Range  | Value 0_4mA      | Value 20 mA |  |  |
|----------------|-------------|----------------|------------------|-------------|--|--|
| Terminal 26/27 | VOLUME FLOW | 4-20 mA active | 0.0 I/s          | 10.00 I/s   |  |  |
|                |             |                |                  |             |  |  |
| Pulse Output   | Assign      | Pulse Value    | Output signal    | Pulse width |  |  |
| 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

11/06/2024

Verification date

Omeme Lagoons

Plant

-----

Tag Name

1.2518 - 1.2518

K-Factor

5

Zero point

V1.05.03

Software Version I/O-Module

09:56

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

03/2024

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2024

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 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            | 11/06/2024        | Verification time           | 09:56           |

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 %              | -0.59 %               |
| ✓               |                         | 3.142 l/s (10.0%)  | 1.00 %              | -0.58 %               |
| ✓               |                         | 15.708 l/s (50.0%) | 0.60 %              | 0.01 %                |
| ✓               |                         | 31.416 l/s (100%)  | 0.55 %              | 0.05 %                |
|                 |                         |                    |                     |                       |
| ✓               | Current Output 1        | 4.000 mA (0%)      | 0.05 mA             | 0.003 mA              |
| ✓               |                         | 4.800 mA (5%)      | 0.05 mA             | 0.003 mA              |
| ✓               |                         | 5.600 mA (10.0%)   | 0.05 mA             | -0.009 mA             |
| ✓               |                         | 12.000 mA (50.0%)  | 0.05 mA             | 0.005 mA              |
| ✓               |                         | 20.000 mA (100%)   | 0.05 mA             | 0.021 mA              |
|                 |                         |                    |                     |                       |
| ✓               | Pulse Output 1          | 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    | 6.359 ms              |
| ✓               | Coil Curr. Stability    |                    | ---                 | ---                   |
| ✓               | Electrode Integrity     | mV                 | 0.0..300.001 mV     | 6.558 mV              |

Legend of symbols

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

FieldCheck: Parameters Transmitter

|                              |                   |                             |                 |
|------------------------------|-------------------|-----------------------------|-----------------|
| Customer                     | OCWA Kwartha      | Plant                       | Omeme Lagoon    |
| 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            | 11/06/2024        | Verification time           | 09:56           |

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

Actual System Ident.

121.0

# SIEMENS MAGFLO® Verification Certificate

|                         |                      |                                       |                     |
|-------------------------|----------------------|---------------------------------------|---------------------|
| <b><u>Customer:</u></b> |                      | <b><u>MAGFLO® Identification:</u></b> |                     |
| Name                    | <u>OCWA Kawartha</u> | TAG No./Name                          | <u>0</u>            |
| Address                 | <u>Omeme WW</u>      | Sensor Code No.                       | <u>7ME658</u>       |
|                         | <u></u>              | Sensor Serial No.                     | <u>PBD-MN174541</u> |
|                         | <u></u>              | Converter Code No.                    | <u>7ME691</u>       |
| Phone                   | <u></u>              | Converter Serial No.                  | <u>N1L9110136</u>   |
| Email                   | <u></u>              | Location                              | <u>WW Pump 4</u>    |

|                        |                                      |                |
|------------------------|--------------------------------------|----------------|
| <b><u>Results:</u></b> | <b>Verification file name or No.</b> | <u>FIT 104</u> |
|                        | <b>Converter</b>                     | <u>Passed</u>  |
|                        | <b>Sensor</b> Insulation             | <u>Passed</u>  |
|                        | Magnetic Circuit                     | <u>Passed</u>  |

| Velocity    | Current Output |         |           | Frequency Output |          |           |
|-------------|----------------|---------|-----------|------------------|----------|-----------|
| Theoretical | Theoretical    | Actual  | Deviation | Theoretical      | Actual   | Deviation |
| 0.5m/s      | 4.800mA        | 4.803mA | 0.33%     | 0.500kHz         | 0.500kHz | 0.08%     |
| 1.0m/s      | 5.600mA        | 5.603mA | 0.20%     | 1.000kHz         | 1.001kHz | 0.08%     |
| 3.0m/s      | 8.800mA        | 8.804mA | 0.09%     | 3.000kHz         | 3.002kHz | 0.07%     |

Current Output 4-20mA                      Frequency Output 0-10kHz

|                                   |                               |                               |                                            |                    |                     |                   |
|-----------------------------------|-------------------------------|-------------------------------|--------------------------------------------|--------------------|---------------------|-------------------|
| <b><u>Converter Settings:</u></b> |                               |                               | <b><u>Sensor Details:</u></b>              |                    |                     |                   |
| <b>Basic</b>                      | Qmax.                         | <u>10.0 l/s</u>               | Size                                       | <u>DN 100 4 IN</u> |                     |                   |
|                                   | Flow Direction                | <u>Positive</u>               | Cal. Factor                                | <u>7.70578146</u>  |                     |                   |
|                                   | Low flow Cut-off              | <u>1.50%</u>                  | Correction Factor                          | <u>1.0</u>         |                     |                   |
|                                   | Empty Pipe                    | <u>ON</u>                     | Excitation Freq.                           | <u>7.5Hz</u>       |                     |                   |
| <b>Output</b>                     | Current Output                | <u>ON (4-20mA)</u>            | <b><u>Vericator Details (083F5060)</u></b> |                    |                     |                   |
|                                   | Time Constant                 | <u>5.0 Sec.</u>               |                                            |                    | Serial No.          | <u>000811N218</u> |
|                                   | Relay Output                  | <u>Error Level</u>            |                                            |                    | Device No.          | <u>91739</u>      |
|                                   | Digital Output                | <u>Pulse</u>                  |                                            |                    | Software Version    | <u>1.40</u>       |
|                                   | Frequency Range               | <u>N/A</u>                    |                                            |                    | PC-Software Version | <u>4.02</u>       |
|                                   |                               | Time Constant                 | <u>N/A</u>                                 | Cal. date          | <u>2024.10.09</u>   |                   |
|                                   |                               | Volume/pulse                  | <u>5.0 l/p</u>                             | ReCal. date        | <u>2025.10.09</u>   |                   |
|                                   |                               | Pulse width                   | <u>0.066 sec.</u>                          |                    |                     |                   |
|                                   |                               | Pulse polarity                | <u>Positiv</u>                             |                    |                     |                   |
|                                   |                               | Totalizer 1 value before test | <u>306623.78125 m³</u>                     |                    |                     |                   |
|                                   | Totalizer 1 value after test  | <u>306623.8125 m³</u>         |                                            |                    |                     |                   |
|                                   | Totalizer 2 value before test | <u>5.24036694 m³</u>          |                                            |                    |                     |                   |
|                                   | Totalizer 2 value after test  | <u>5.24037027 m³</u>          |                                            |                    |                     |                   |

**Comments**

These tests verify that the flowmeter is functioning within 2% deviation of the original test parameters.  
Verification is traceable to National and International Standards.

Date and signature

2024.11.06                      M Manley

# 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

11/06/2024

Verification date

Omemeew Sewage

Plant

-----

Tag Name

1.0162 - 1.0162

K-Factor

1

Zero point

V1.05.03

Software Version I/O-Module

11:24

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

03/2024

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2024

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            | 11/06/2024        | Verification time           | 11:24           |

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 %              | -0.63 %               |
| ✓               |                         | 12.566 l/s (10.0%) | 1.00 %              | 0.02 %                |
| ✓               |                         | 62.832 l/s (50.0%) | 0.60 %              | 0.03 %                |
| ✓               |                         | 125.665 l/s (100%) | 0.55 %              | 0.06 %                |
|                 |                         |                    |                     |                       |
| ✓               | Current Output 1        | 4.000 mA (0%)      | 0.05 mA             | 0.001 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             | -0.000 mA             |
| ✓               |                         | 20.000 mA (100%)   | 0.05 mA             | 0.009 mA              |
|                 |                         |                    |                     |                       |
| ✓               | Pulse Output 1          | 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         | 13.300 ms          | 0.000..27.625 ms    | 18.625 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                   | 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            | 11/06/2024        | Verification time           | 11:24           |

| Curent Output  | Assign      | Current Range  | Value 0_4mA      | Value 20 mA |  |  |
|----------------|-------------|----------------|------------------|-------------|--|--|
| Terminal 26/27 | VOLUME FLOW | 4-20 mA active | 0.0 l/s          | 100.01 l/s  |  |  |
|                |             |                |                  |             |  |  |
| Pulse Output   | Assign      | Pulse Value    | Output signal    | Pulse width |  |  |
| Terminal 24/25 | VOLUME FLOW | 50.000 l/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

11/06/2024

Verification date

Omemeew Sewage

Plant

-----

Tag Name

1.2756 - 1.2756

K-Factor

-2

Zero point

V1.05.03

Software Version I/O-Module

11:43

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

03/2024

Last Calibration Date

### Simubox Details

Production number

1.00.01

Software Version

03/2024

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                   | 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            | 11/06/2024        | Verification time           | 11:43           |

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 %              | -0.50 %               |
| ✓               |                         | 28.274 l/s (10.0%)  | 1.00 %              | -0.65 %               |
| ✓               |                         | 141.373 l/s (50.0%) | 0.60 %              | 0.02 %                |
| ✓               |                         | 282.744 l/s (100%)  | 0.55 %              | 0.05 %                |
|                 |                         |                     |                     |                       |
| ✓               | Current Output 1        | 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             | -0.017 mA             |
| ✓               |                         | 12.000 mA (50.0%)   | 0.05 mA             | -0.006 mA             |
| ✓               |                         | 20.000 mA (100%)    | 0.05 mA             | 0.001 mA              |
|                 |                         |                     |                     |                       |
| ✓               | Pulse Output 1          | 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         | 18.100 ms           | 0.000..36.625 ms    | 23.379 ms             |
| ✓               | Coil Curr. Stability    |                     | ---                 | ---                   |
| ✓               | Electrode Integrity     | mV                  | 0.0..300.001 mV     | 6.561 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 date            | 11/06/2024        | Verification time           | 11:43           |

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

Actual System Ident.

123.0



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

## **Appendix V:**

### **Monitoring Wells**

## Customized Monthly Report

From 01/01/2024 to 12/31/2024

Facility Name: OMEMEE WASTEWATER TREATMENT

LAGOON

Receiver: Subsurface

Facility Org Number: 5901

Facility Owner: Municipality: City of Kawartha Lakes

Service Population: 1220

Works: 110001630

### Facility Classification: Class 1 Wastewater Treatment

Total Design Capacity: 10540 m3/day



| MW1                                    |                 | Jan 2024 | Apr 2024 | Nov 2024 | Dec 2024 | 2024  |         |         |        |  |
|----------------------------------------|-----------------|----------|----------|----------|----------|-------|---------|---------|--------|--|
|                                        |                 |          |          |          |          | Total | Avg     | Max     | Min    |  |
| Biochemical Oxygen Demand: BOD5 - mg/L |                 |          |          |          |          |       |         |         |        |  |
|                                        | Lab Count       |          |          |          | 1.00     | 1.00  |         |         |        |  |
|                                        | Lab Month. Max  |          |          | <        | 4.00     |       | <       | 4.00    |        |  |
|                                        | Lab Month. Mean |          |          | <        | 4.00     |       | <       | 4.00    |        |  |
|                                        | Lab Month. Min  |          |          | <        | 4.00     |       |         | <       | 4.00   |  |
| Total hardness (as CaCO3) - mg/L       |                 |          |          |          |          |       |         |         |        |  |
|                                        | Lab Count       | 1.00     | 1.00     | 1.00     | 1.00     | 4.00  |         |         |        |  |
|                                        | Lab Month. Max  | 982.00   | 1050.00  | 1850.00  | 382.00   |       |         | 1850.00 |        |  |
|                                        | Lab Month. Mean | 982.00   | 1050.00  | 1850.00  | 382.00   |       | 1066.00 |         |        |  |
|                                        | Lab Month. Min  | 982.00   | 1050.00  | 1850.00  | 382.00   |       |         |         | 382.00 |  |
| Chemical Oxygen Demand: COD - mg/L     |                 |          |          |          |          |       |         |         |        |  |
|                                        | Lab Count       |          |          |          | 1.00     | 1.00  |         |         |        |  |
|                                        | Lab Month. Max  |          |          |          | <        | 8.00  |         | <       | 8.00   |  |
|                                        | Lab Month. Mean |          |          |          | <        | 8.00  |         | <       | 8.00   |  |
|                                        | Lab Month. Min  |          |          |          | <        | 8.00  |         |         | <      |  |
| Dissolved Organic Carbon: DOC - mg/L   |                 |          |          |          |          |       |         |         |        |  |
|                                        | Lab Count       |          |          |          | 1.00     | 1.00  |         |         |        |  |
|                                        | Lab Month. Max  |          |          |          | 1.00     |       |         | 1.00    |        |  |
|                                        | Lab Month. Mean |          |          |          | 1.00     |       | 1.00    |         |        |  |
|                                        | Lab Month. Min  |          |          |          | 1.00     |       |         |         | 1.00   |  |
| E. Coli: EC - cfu/100mL                |                 |          |          |          |          |       |         |         |        |  |

## Customized Monthly Report

From 01/01/2024 to 12/31/2024

Facility Name: OMEMEE WASTEWATER TREATMENT

LAGOON

Receiver: Subsurface

Facility Org Number: 5901

Facility Owner: Municipality: City of Kawartha Lakes

Service Population: 1220

Works: 110001630

### Facility Classification: Class 1 Wastewater Treatment

Total Design Capacity: 10540 m3/day

[illegible]

## Customized Monthly Report

From 01/01/2024 to 12/31/2024

Facility Name: OMEMEE WASTEWATER TREATMENT

LAGOON

Receiver: Subsurface

Facility Org Number: 5901

Facility Owner: Municipality: City of Kawartha Lakes

Service Population: 1220

Works: 110001630

### Facility Classification: Class 1 Wastewater Treatment

Total Design Capacity: 10540 m3/day

[illegible]

## Customized Monthly Report

From 01/01/2024 to 12/31/2024

Facility Name: OMEMEE WASTEWATER TREATMENT

LAGOON

Receiver: Subsurface

Facility Org Number: 5901

Facility Owner: Municipality: City of Kawartha Lakes

Service Population: 1220

Works: 110001630

### Facility Classification: Class 1 Wastewater Treatment

Total Design Capacity: 10540 m3/day

[illegible]

Omemees 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) |
|-----------|-----|--------------|-----|------|-----|-----|-------------|-------------|------|----------|--------|-----|-----|-------------|
| 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        |
| 23-Feb-21 | 211 | 319          | 2   | 7.98 | <4  | <8  | 0.38        | <0.03       | <0.5 | 498      | 0.068  | <2  | 0   | <0.1        |
| 04-May-21 | 194 | 353          |     | 8.17 |     |     | 0.32        | <0.03       | <0.5 | 351      | <0.003 |     |     | <0.1        |
| 19-Aug-21 | 269 | 444          |     | 7.78 |     |     | 0.79        | <0.03       | <0.5 | 845      | <0.003 |     |     | <0.1        |
| 23-Nov-21 | 237 | 341          |     | 7.75 |     |     | 0.84        | <0.03       | <0.5 | 1100     | 0.013  |     |     | <0.1        |
| 10-Mar-22 | 211 | 349          |     | 8.13 |     |     | 0.16        | <0.03       | 0.9  | 1030     | <0.003 |     |     | <0.1        |
| 22-Jun-22 | 211 | 275          |     | 8.25 |     |     | 0.14        | <0.03       | <0.5 | 3050     | <0.003 |     |     | <0.1        |
| 21-Sep-22 | 220 | 411          |     | 8.17 |     |     | 1.16        | <0.03       | <0.5 | 563      | <0.003 |     |     | <0.1        |
| 06-Dec-22 | 263 | 438          |     | 7.92 |     |     | 1.45        | <0.03       | <0.5 | 2370     | 0.005  |     |     | <0.1        |
| 28-Mar-23 | 226 | 405          |     | 8.22 |     |     | 0.44        | <0.03       | <0.5 | 438      | <0.003 |     |     | <0.1        |
| 22-Jun-23 | 206 | 323          |     | 7.58 |     |     | 0.28        | <0.03       | <0.5 | 1440     | <0.003 |     |     | <0.1        |
| 17-Oct-23 | 217 | 381          |     | 7.64 |     |     | 0.62        | <0.03       | <0.5 | 2220     | <0.003 |     |     | <0.1        |
| 09-Jan-24 | 317 | 495          |     | 7.87 |     |     | 1.84        | <0.03       | 0.7  | 982      | <0.003 |     |     | <0.1        |
| 25-Apr-24 | 351 | 549          |     | 7.8  |     |     | 1.36        | <0.03       | 0.5  | 1050     | <0.003 |     |     | <0.1        |
| 27-Nov-24 | 257 |              |     | 7.59 |     |     | 0.71        | <0.03       | <0.5 | 1850     | <0.003 |     |     |             |
| 23-Dec-24 | 197 |              | 1   | 8.09 | <4  | <8  | 0.22        | <0.03       | <0.5 | 382      | 0.352  | <20 | <2  |             |
| 09-Jan-25 | 229 |              | 2   | 7.61 | <4  | 9   | 0.30        | <0.03       | <0.5 | 457      | 0.345  | <2  | <2  |             |

**Omemees 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) |
|-----------|----------|--------------|-----|------|-----|-----|-------------|-------------|------|----------|--------|-----|-----|-------------|
| 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 |              |     |      |     |     |             |             |      |          |        |     |     |             |
| 23-Dec-24 | Well Dry |              |     |      |     |     |             |             |      |          |        |     |     |             |
| 09-Jan-25 | Well Dry |              |     |      |     |     |             |             |      |          |        |     |     |             |

Omamee 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 |              |    |             |             |     |          |    |

Omemees Sewage Lagoons  
Groundwater Monitoring Program

MW-4 (A410222)

| Date      | TDS | Conductivity | pH   | Nitrate (N) | Nitrite (N) | TKN  | Hardness | TP    |
|-----------|-----|--------------|------|-------------|-------------|------|----------|-------|
| 27-Nov-24 | 574 | 763          | 7.39 | 1.6         | <0.03       | <0.5 | 5730     | 0.034 |
|           |     |              |      |             |             |      |          |       |

**Omemee 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) |
|-----------|-----|--------------|------|------|-----|-----|-------------|-------------|------|----------|--------|-----|-----|-------------|
| 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 |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |

**Omemee 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        |

**Omemee 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        |

Omemees 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        |

Omemee 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) |
|-----------|-----|--------------|------|------|-----|-----|-------------|-------------|------|----------|--------|-----|-----|-------------|
| 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 |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |     |     |             |

**Omemees 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) |
|-----------|-----|--------------|------|------|-----|-----|-------------|-------------|------|----------|--------|------|-----|-------------|
| 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  |      |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |     |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |     |             |

**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        |

**Omemees 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        |

Omemees 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) |
|-----------|-----|--------------|-----|------|-----|-----|-------------|-------------|-------|----------|--------|-----|------|-------------|
| 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 |     |      |             |
|           |     |              |     |      |     |     |             |             |       |          |        |     |      |             |
|           |     |              |     |      |     |     |             |             |       |          |        |     |      |             |
|           |     |              |     |      |     |     |             |             |       |          |        |     |      |             |
|           |     |              |     |      |     |     |             |             |       |          |        |     |      |             |

**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 |              |     |      |     |     |             |             |      |          |        |     |     |             |

**Omemees 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) |
|-----------|-----|--------------|------|------|-----|-----|-------------|-------------|------|----------|--------|-----|-----|-------------|
| 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  |     |     |             |

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        |
|           |     |              |      |      |     |     |             |             |      |          |        |      |     |             |

**Omemee 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        |
|           |     |              |      |      |     |     |             |             |      |          |        |    |    |             |

**Omemee 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        |
|           |     |              |      |      |     |     |             |             |      |          |        |      |      |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |      |             |
|           |     |              |      |      |     |     |             |             |      |          |        |      |      |             |

**Omemee Sewage Lagoons  
Groundwater Monitoring Program**

**MW-116B**

| Date      | TDS      | Conductivity | DOC  | pH   | BOD | COD | Nitrate (N) | Nitrite (N) | TKN  | Hardness | TP     | TC  | EC  | Ammonia (N) |
|-----------|----------|--------------|------|------|-----|-----|-------------|-------------|------|----------|--------|-----|-----|-------------|
| 17-Feb-11 | 337      |              | <1.0 | 8.02 | <2  | 21  | 8.34        | <0.06       | <0.5 | 291      | <0.009 | <2  | <2  | <0.1        |
| 16-Jul-19 | 349      |              | 1    | 7.66 | <4  | <8  | 7.15        | <0.03       | 1.1  | 4340     | 0.003  | <20 | <20 | <0.1        |
| 23-Oct-19 | 363      |              | <1   | 7.85 | <4  | <8  | 7.36        | <0.03       | <0.5 | 1380     | <0.03  | <20 | <20 | <0.1        |
| 23-Jan-20 | 343      |              | 1    | 7.54 | <4  | 11  | 8.07        | <0.03       | 0.7  | 1170     | 0.003  | <5  | <5  | <0.1        |
| 12-May-20 | 391      | 522          | <1   | 7.58 | <4  | <8  | 7.78        | <0.03       | <0.5 | 3650     | <0.003 | <20 | <5  | <0.1        |
| 28-Jul-20 | 311      | 563          | 1    | 7.79 | <4  | 16  | 7.55        | <0.03       | 0.5  | 1530     | <0.003 | 15  | <5  | 0.2         |
| 04-Nov-20 | 257      | 435          | <1   | 8.11 | <4  | <8  | 0.16        | <0.03       | <0.5 | 6630     | <0.003 | <5  | <5  | <0.1        |
| 23-Feb-21 | 323      | 547          | 1    | 8.03 | <4  | 13  | 8.95        | <0.03       | 0.6  | 989      | <0.003 | <20 | <20 | <0.1        |
| 04-May-21 | 340      | 568          |      | 8.09 |     |     | 8.82        | <0.03       | <0.5 | 650      | 0.051  |     |     | <0.1        |
| 19-Aug-21 | 346      | 558          |      | 7.79 |     |     | 8.43        | <0.03       | <0.5 | 1060     | <0.003 |     |     | <0.1        |
| 23-Nov-21 | 317      | 474          |      | 7.47 |     |     | 8.69        | <0.03       | <0.5 | 1040     | <0.003 |     |     | <0.1        |
| 10-Mar-22 | 340      | 587          |      | 8.15 |     |     | 8.89        | <0.03       | <0.5 | 335      | <0.003 |     |     | <0.1        |
| 22-Jun-22 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 21-Sep-22 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 07-Dec-22 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 28-Mar-23 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 22-Jun-23 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 17-Oct-23 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 09-Jan-24 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
| 25-Apr-24 | Well not | accessible   |      |      |     |     |             |             |      |          |        |     |     |             |
|           |          |              |      |      |     |     |             |             |      |          |        |     |     |             |