ONTARIO CLEAN WATER AGENCY
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2024 Annual Performance Report for the New Liskeard Sewage Treatment Lagoon & Sewage Collection System

January 1, 2024 to December 31, 2024

PREPARED BY

Ontario Clean Water Agency
on behalf of the City of Temiskaming Shores

Date: March 26, 2025
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Revision History

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0	March 26, 2025	I. Bruneau, PCT	B. Logan, Senior Operations Manager/ORO	Report issued

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Executive Summary

The New Liskeard Sewage Treatment Lagoon is located at 177304 Bedard Road in the community of New Liskeard within the City of Temiskaming Shores. The sewage treatment lagoon is designed to treat a daily average flow of 5500 m^3/day and a peak flow of 8250 m^3/day. It is classified as a Class 1 wastewater treatment system under Ontario Regulation 129/04 and operates under Environmental Compliance Approval (ECA) No. 5103-CDFJWC for Municipal and Private Sewage Works issued on April 13, 2022.

The New Liskeard Sewage Collection System is a Class 3 wastewater collection system under Ontario Regulation 129/04 that follows the requirements of ECA No. 218-W601 for Municipal Sewage Collection Systems issued on October 27, 2023.

This report summarizes the requirements of each Approval and describes the operational performance of the system to ensure production of quality effluent.

The New Liskeard Lagoon operated well in 2024 producing a good quality effluent that met all of the effluent compliance limits specified in the system's ECA, however the system failed to meet the monthly average effluent objective for Total Suspended Solids in April during periods of high flows.

The system met the rated capacity limit having an annual average daily flow to the lagoon of 4898 m3, which is 89% of the rated capacity. The total volume of influent flow measured in 2024 was 1,792,752, compared to the effluent flow of 1,864,033 m^3.

There was one (1) spill and nine (9) overflow events that occurred during the reporting period which are described in Section 10.

All requirements specified in the system's ECA and any issues experienced at the facility are further explained throughout the report.

Introduction

Condition 11(4) of ECA No. 5103-CDFJWC for the New Liskeard Sewage Treatment Lagoon requires the Owner to prepare and submit a performance report to the Ministry of the Environment's District Manager on an annual basis by March 31st for the preceding calendar year. The 2024 Annual Performance Report was prepared by the Ontario Clean Water Agency (OCWA) on behalf of the City of Temiskaming Shores and is based on information kept on record by OCWA. The report has been completed in accordance with the approval and contains, but is not limited to the following information outlined in the ECA:

- A summary and interpretation or all influent monitoring data, and a review of historical trend of the sewage characteristics and flow rates;
- A summary and interpretation or all final effluent monitoring data, including concentration, flow rates, loading and a comparison to design objectives and compliance limits in the Approval, including an overview of the success and adequacy of the Works;
- A summary of all operating issues encountered and corrective actions taken;
- A summary of all normal and emergency repairs and maintenance carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- A summary of any effluent quality assurance or control measures undertaken;
- A summary or 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;
- 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;
- A tabulation of the measured volume of sludge accumulated in the lagoon cells in five year intervals and the estimated volume in the interim years (including stabilized sludge from the Haileybury Sewage Treatment Plant) and when sludge was disposed of during the reporting period, a summary of disposal locations and volumes of sludge at each location;
- A summary of any complaints received and any steps taken to address the complaints;
- A summary of all bypasses, overflows, and other situations outside normal operating conditions and spills within the meaning of Part X of EPA and abnormal discharge events;

- A summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d of Condition 10, including a report on the status of implementation of all modifications;
- 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;
- Any changes or updates to the schedule for the completion of constructions and commissioning operations of major process(es)/equipment groups in the Proposed Works;
- A summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year.

Condition 4.0(4.6) of the ECA No. 218-W601 for the New Liskeard Sewage Collection System requires the Owner to prepare and submit an annual performance report to the Ministry of the Environment's Director on or before March 31st of each year and covers a period from January 1st to December 31st of the preceding calendar year. This report must include, but is not limited to the following information;

- If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations;
- Includes a summary of any operating problems encountered and corrective actions taken;
- Includes a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System;
- Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
- Includes 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;
- Includes a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including: dates, volumes and durations. If applicable, loadings for total suspended solids, BOD_5, total phosphorus, and total Kjeldahl nitrogen, and sampling results for *E.coli*, disinfection, if any and any adverse impact(s) and any corrective actions, if applicable;
- Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:
    a) 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.

b) Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines.

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

d) 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.

e) Public reporting approach including proactive efforts.

The two reports have been merged into one and is presented as the 2024 Annual Performance Report. The report was prepared by the Ontario Clean Water Agency (OCWA) on behalf of the City of Temiskaming Shores and is based on information kept on record by OCWA.

1 System Description

Sewage System Name:	**New Liskeard Sewage Treatment Lagoon**
Sewage System Works Number:	110000515
Sewage System Address:	177304 Bedard Road, New Liskeard Ontario
Sewage System Owner:	Corporation of the City of Temiskaming Shores
Sewage Treatment ECA:	5103-CDFJWC, issued April 13, 2022
Sewage Collection ECA:	218-W601, issued October 27, 2023
Reporting Period:	January 1, 2024 to December 31, 2024

Capacity of Works:	5500 m^3/day annual average, 8250 m^3/day peak
Service Area:	Community of New Liskeard and Dymond
Service Population:	5400
Effluent Receiver:	Wabi River to Lake Timiskaming
Major Process:	Four Celled Aerated Lagoon with Two Polishing Ponds

The New Liskeard Wastewater Lagoon is a Class 1 facility that provides sewage treatment for the communities of New Liskeard and Township of Dymond. Environmental Compliance Approval No: 9205-ANYPRW allows an average rated capacity of 5500 m^3/day. The system is equipped with flow meters installed at three different sewage pumping stations (the Goodman Street SPS, the Niven Street SPS and the Gray Road SPS) to measure the raw sewage into the lagoon.

The system consists of four aerated cells (Cells D1, D2, A1 and A2) and two polishing ponds (Cells B and C) which operate in series. There is also a storage cell, Cell F, which was designed as an additional temporary storage pond when maintenance is required on Cells A1 and A2. Cell E is used as a sludge drying bed.

Aeration of the four cells is provided by a fine bubble system complete with two 30 hp, 17.7 m^3/min air blowers and one 60 hp, 35.4 m^3/min air blower with variable frequency drive located in a building on-site. The polishing ponds are equipped with chemical feed systems for phosphorus removal using ferric sulphate. Ferric can also be fed by an injection point located at an intercell chamber between Cells D2 and A1.

The sludge storage lagoon is for the management of sludge from the polishing lagoons and for stabilized sludge from the aerobic digesters at the Haileybury Sewage Treatment Plant. There is a decant pipe for supernatant to be returned to cell D1.

The phosphorus removal system is comprised of a 27 m^3 chemical solution tank (ferric sulphate) and two diaphragm metering pumps. There are two dosing points established; one between cells D2 and A1 and between cell A2 and either B or C depending on the gate position.

The outlet structure is described as being 3.0 m x 3.0 m with stop logs located at the north end of the lagoon between Cell B and Cell C, separately connected to Cell B by a 600 mm diameter pipe and to Cell C by a 600 mm diameter pipe as well as two 300 mm diameter emergency overflow pipes, and a 300 mm diameter outfall sewer. A weir and milltronics level indicator installed on the outfall measures effluent flows from the lagoon to the Wabi River which eventually discharges to Lake Temiskaming.

The New Liskeard sewage collection system consists of trunk sewers, separate sewers, nominally separate sewers, forcemains and seven (7) sewage pumping stations that direct sanitary sewage to the lagoon New Liskeard Sewage Lagoon.

Niven Street SPS is located at 185 Niven Street North at the end of Niven Street North adjacent to the Wabi River. It is designed for a peak flow and firm design capacity of 315 L/s. A magnetic flow meter measures the influent flow directed to the lagoon.

The station is comprised of a pump room with a valved interconnected dual-celled wet well equipped with three (3) variable speed submersible sewage pumps each with a rated capacity of 130 L/s at 74.0m total dynamic head (TDH). Three pumps are capable of operating at high pumping volumes during peak wet weather times. One pump is located in one wet well and the other two pumps are located in the second wet well.

Other equipment found in the station include; manual bar screens, ultrasonic liquid level and alarm level (including overflow) system, surge tank, bar racks, associated piping, electrical and control works.

The station is also equipped with a chlorine variable speed metering pump and solution tank for overflow events and a Parshall flume for flow measurement.

A generator room accommodates a 450 kW diesel generator set, motor control centre (MCC) and instrumentation.

The 2,452 meter forcemain directly discharges sewage into the inlet chamber then to Cell D1 of the New Liskeard Lagoon.

Goodman Street SPS is located on the east side of the Ontario Northland Railway line and approximately 660 m north of Jaffray Street with a design capacity of 195 L/s.

The station consists of two in-ground wet wells (5m long x 3m wide x 10m deep) with a 600 mm wide inlet channel equipped with three sewage pumps each rated at 191 L/s against a total dynamic head (TDH) of 19.1 meters. One pump is located in one wet well and the other two pumps are located in the second wet well.

The control building houses MCC panels, PLC panel with instrumentation control and alarm system, lighting, heating and ventilation system. Other equipment found in the station include; two ultrasonic level detectors with back-up float switch connected to an alarm system, interconnected piping and valves pumps, and appurtenances to allow for the proper operation of the station.

A sub-grade valve chamber is equipped with a swing check valve and overflow piping connected to a 450 mm diameter, 190 meter long sanitary forcemain which directs flow to a distribution chamber and then from there can go to Cell D1 or Cell D2 at the New Liskeard Lagoon. It is equipped with a magnetic flow meter that measures the influent flow directed to the lagoon.

Emergency power is supplied by a 100 kW standby diesel generator located outside the lift station.

Gray Road SPS is located on the south side of Gray Road, approximately 140 meters west of the intersection of Gray Road and Highway 65 East and Armstrong Street.

The station is comprised of a two celled wet well each approximately 3.34 m long and 5.8 m wide and 3.5 m deep. One wet well is equipped with three submersible sewage pumps equipped with variable frequency drive (VFD) motors. Each pump has a rated capacity of 120 L/s at a total dynamic head (TDH) of 11 meters. The second wet well has the capacity to house three additional sewage pumps if required in the future. The wet wells are equipped with a dedicated ventilation and odour control system.

Other equipment found in the station include; piping, mechanical, electrical, instrumentation and control works (MCC and PLC panels) necessary to have a complete and operable pumping station

The station is connected to a 683 meter long, 450 mm diameter trunk sewer located along Armstrong Street and receives sanitary sewage from the Robert/Elm sewage pumping station. It is also connected to seven sanitary sewers that direct sewage to the station.

The sanitary forcemain consists of twin 450 mm diameter high density polyethylene (HDPE) that is approximately 1279 meters long and discharges sewage into the inlet chamber then to Cell D1 of the New Liskeard Lagoon. A magnetic flow meter measures the influent flow directed to the lagoon.

The station has a septage receiving system equipped with a flow meter, level transmitter and back-up level probe control.

A 150 KW diesel standby generator is equipped with enhanced sound attenuation, thermal insulation and housed in a weather and tamper proof enclosure is installed outside the pumping station building and can maintain all aspects of the operation during a power outage.

Montgomery Avenue SPS is located on Montgomery Avenue and Fleming Drive. The station is comprised of a 2.86 cubic meter poured concrete wet well equipped with two 10 HP Flygt sewage pumps each rated at 16.5 L/s at a total dynamic head (TDH) of 15.8 meters with a firm capacity of 21 L/s at a TDH of 17.1m discharge rate.

The control building houses pump controls, PLC control panel, level indicators, transfer switch and alarm system. Other equipment found in the station include mechanical and electrical work, associated piping and appurtenances to allow for the proper operation of the station.

A 150 mm diameter, 599 meter long forcemain discharges to the Dymond/Wedgewood gravity system and is then directed to Niven Street Pumping Station.

The station is equppied with a 42 KW standby diesel generator is equipped and can maintain all aspects of the operation during a power outage.

Whitewood Avenue SPS is located at 57 Riverside Drive adjacent to the municipal marina. It is designed for a peak flow and firm design capacity of 127 L/s

The station has an internal diameter of 8.4 m and is 8 m deep. It is equipped with an emergency overflow sewer from the wet well to the Wabi River and four submersible pumps (three rated at 67 L/s at TDH of 48 m and one bypass pump rated at 200 L/s at TDH of 6.5 m)

Other equipment found at the station include; two 200 mm diameter syphons connected to the well, a 525 mm sanitary sewer connected to the wet well, grating, exhaust pipes, ladders, a board walk, piping and associated appurtenances. Mechanical, electrical, instrumentation and control systems are on-site to ensure proper operation of the pumping station.

The 12 m long, 300 mm diameter overflow sewer discharges wastewater from the station to a manhole and eventually to the Wabi River. It is equipped with a 250 mm bore flow meter (inside an on-line meter chamber), a chemical feed line that injects sodium hypochlorite to the sewage overflow from the chemical room.

A 250 mm forcemain, approximately 15 m long directs wastewater from the pumping station to an existing forcemain located on Whitewood Avenue which then flows to the Niven Street sewage pumping station. It is equipped with a 200mm bore flow meter inside an on-line meter chamber (flow meter currently out of service), yard piping and associated appurtenances.

A generator building accommodates a 165 kW diesel generator set, a fuel tank having a capacity of 1000 L, a fuel piping, control panel and instrumentation.

Robert/Elm SPS is located on municipal land, at the South corner of Elm Avenue and Robert Street having a design flow capacity of 39.6 L/s.

The station is comprised of a precast fiber glass wet well housing two submersible sewage pumps (one duty and one stand-by), each pump capable of handling 39.6 L/s at a total dynamic head (TDH) of 20.87 m, complete with a 300 mm diameter inlet sanitary sewer, vent piping, an access hatch, a 250 mm diameter discharge forcemain and an emergency overflow which is directed to the Whitewood sewage pumping station.

Pump controls consist of a power and control panel including manual transfer switch, horizontal level regulator hanger, upper and intermediate guide bars, back up low and high water level floats.

The forcemain is approximately 1,191 m long and heads to a 400 mm diameter sanitary sewer on the west side of Armstrong Street.

A manual operated emergency overflow pump with a capacity of 120 L/s at a 8 m TDH discharges to a common 7.5 m forcemain to Lake Temiskaming.

An 85 kW portable diesel generator is available to provide power to the station during power failures.

Cedar Street SPS is located at the corner of Cedar Avenue and Armstrong Street near the municipal recreational complex and arena. It consists of a single cylindrical poured concrete wet well approximately 3 m in diameter and 6 m deep with two submersible Flygt pumps each rated at 7.4 L/s at 5.4 m TDH along with associated piping and controls. The station is powered by an motor control center (MCC) and fully controlled by a PLC/SACADA system. The connected forcemain pumps to the Whitewood sewage pumping station.

This pumping station serves a very small sewage catchment area. There is no standby power supply or overflow piping with chlorination.

2 Monitoring Program

2.1 Monitoring Program as Outlined in the Environmental Compliance Approval

Table 1: Analytical Parameters

BOD_5	Five Day Biochemical Oxygen Demand – is measured in an unfiltered sample; includes carbonaceous and nitrogenous oxygen demand. It refers to the amount of oxygen consumed by organic matter in a specific volume of water at a specific temperature over a 5 day period. High BOD_5 in effluent means a large quantity of oxygen was needed to break down the organic matter and identifies a large amount of organic matter in the effluent indicating inadequate treatment.
$cBOD_5$	Five-day carbonaceous biochemical oxygen demand – represents the oxygen depletion associated with the biodegradation of organic compounds and the oxidation of inorganic compounds such as ferrous iron and sulphide within 5 day period and at a specific temperature. High $cBOD_5$ in sewage effluent means a large quantity of oxygen was needed to break down the organic and inorganic matter in the effluent indicating inadequate treatment.
TSS	Total Suspended Solids – the dry weight of suspended particles that are not dissolved in water and can be filtered. TSS is composed of settleable solids and non-settleable solids depending on the size, shape and weight of the solid particles. Settable solids are large sized particles that tend to settle more rapidly in a given period of time. High TSS may decrease water's natural dissolved oxygen levels and increase water temperature which may prevent organisms from surviving in the waters.
TP	Total Phosphorus – a measure of all phosphorus found in a sample, whether it is dissolved or particulate. Phosphorus is an essential nutrient that contributes to plant productivity. TP is commonly used to determine the health of water bodies and excess TP can stimulate algae and weed growth that may cause fluctuations in dissolved oxygen in the receiving waters.

Table 1: Analytical Parameters

TAN	Total Ammonia Nitrogen – the total amount of nitrogen in the forms of Ammonium (NH_4) and Ammonia (NH_3). Ammonia is one of several forms of nitrogen that exist in aquatic environments and can cause direct toxic effects on aquatic life. High levels of ammonia can corrode and damage critical pieces of infrastructure.
TKN	Total Kjeldahl Nitrogen – measures both total organic nitrogen and ammonium. Excess nitrogen in water bodies can lead to harmful algal blooms and other negative impacts on aquatic ecosystems.
NH_3	Un-ionized Ammonia - a neutral toxic form of nitrogen in an un-ionized state. Ammonia is an environmental concern, especially because of its danger to human or aquatic life.
NO_2-N	Nitrogen as Nitrite – can cause excessive algae and plant growth which can deplete oxygen of waterbodies resulting in the death of fish and other aquatic organisms.
NO_3-N	Nitrogen as Nitrate – nitrates are essential plant nutrients, but in excess amounts they can cause significant algae and plant growth and contribute to water quality problems.
DO	Dissolved Oxygen – the amount of oxygen that is available in water to sustain life, including living bacteria.
E. coli	*Escherichia coli* – Thermally tolerant forms of Escherichia bacteria that can live in the intestines of humans and warm-blooded animals. There are hundreds of *E. coli* strains and most are relatively harmless, however a notorious exception is *E. coli* strain 0157:H7, an emerging pathogen that produces a powerful toxin and can cause severe illness. *E. coli* is used as the most widely adopted indicator of faecal pollution in water and wastewater.
pH	Potential of Hydrogen – expresses the degree or intensity of both acidic and alkaline reactions on a scale from 0 to 14 with 7 being neutral, number less than 7 signify increasingly greater acidic solutions, and numbers greater than 7 signify increasingly basic or alkaline reactions. Very high or very low pH levels can be corrosive to pipes, screening equipment and pumps, can damage biological processes and form undesirable toxic gases or heavy metals.

Table 2: Sampling Requirements for the Raw Sewage (Influent)

Parameter	Type of Sample	Minimum Frequency
BOD_5	24 hour composite	monthly
TSS	24 hour composite	monthly

Parameter	Type of Sample	Minimum Frequency
TP	24 hour composite	monthly
TKN	24 hour composite	monthly

Table 3: Sampling Requirements for the Lagoon Contents

Parameter	Type of Sample	Minimum Frequency
DO	grab/probe	monthly
Temperature	grab/probe	monthly

Note: Field measurements from cells D1, D2, A1 and A2.

Table 4: Sampling Requirements for the Final Effluent

Parameter	Type of Sample	Minimum Frequency
$cBOD_5$	24 hour composite	bi-weekly
TSS	24 hour composite	bi-weekly
TP	24 hour composite	bi-weekly
TKN	24 hour composite	bi-weekly
TAN (NH_3^- + NH_4 as N)	24 hour composite	bi-weekly
NO_3-N	24 hour composite	bi-weekly
NO_2-N	24 hour composite	bi-weekly
pH	grab/field	bi-weekly
Temperature	grab/field	bi-weekly
Unionized Ammonia	calculation	bi-weekly
E.coli	grab	monthly

Note: pH and temperature of the Final Effluent are determined in the field at the time of sampling for Total Ammonia Nitrogen in order to calculate unionized ammonia.

Table 5: Influent and Effluent Monitoring Schedule

2024 Schedule	2024 Sample Dates	2025 Sample Dates
Weekly on Wednesdays (Refer to Appendix A)	Refer to Appendix A	Weekly on Tuesdays (Refer to Appendix A)

2.2 Deviations from the Monitoring Program

In 2024, influent and effluent samples were collected on a rotational basis between 0800 hours to 1600 hours every Tuesday unless, it was holiday (i.e. Easter Monday, Canada Day, Christmas Day, New Year Day etc…) or samples did not arrive to the laboratory on time due to shipping issues or frozen samples upon delivery.

Three (3) sampling deviations occurred during in 2024:

- **Scheduled Sample Date: Tuesday, April 23rd** – samples were collected on Thursday, April 25th. The Chain of Custody was to be prepared on Monday for Tuesday sampling, but was missed by a new operator responsible for sampling that week.
- **Scheduled Sample Date: Tuesday, May 7th** – samples were collected on Thursday, May 9th. Sampling was missed by a new operator responsible for sampling that week.

  A sampling system which includes an excel sample calendar and a chain of custody binder are used to ensure all samples are collected as per the requirements identified in the system's ECA. The Chain of Custody binder was reviewed and deemed to be complete and accurate. A new operator retrieved chain of custodies from the wrong tab in the binder when preparing for sampling. Additional training was done with the operator to review the function and use of the sampling system.
- **Scheduled Sample Date: Tuesday, December 31st** – samples were collected on Monday, December 30th to allow the samples to be brought to the laboratory for December 31st for processing. January 1st was a STAT holiday.

Note: Effluent sampling is required every second week. In October, an additional effluent sample was collected on Tuesday October 29th in response to an elevated cBOD result on a sample collected on October 22nd. An effluent sample collected the week before and the week after had cBOD results that fell well below the objective of 15 mg/L

October 8: cBOD = 0.5 mg/L
October 22: cBOD = 32.5 mg/L*
October 29: cBOD = 1.3 mg/L

Sampling will occur on every second Wednesday in 2025 because regular sampling on Mondays is impractical as the auto-sampler has to be turned on the day before sampling and having an operator working each Sunday is unfeasible. Thursday and Friday could also result in extra weekend charges, not to mention, if the sample didn't arrive at the laboratory due to courier issues or freezing then the system would be out of compliance with no opportunity to resample for the week. Sampling on the weekend is also not feasible due to excess shipping, lab and overtime charges.

Refer to Appendix A for the 2024 and 2025 sample schedule for the New Liskeard Sewage Treatment System.

3 Interpretation of Monitoring and Analytical Data

3.1 Influent Flow

The influent flow is a measurement based on the total volume of wastewater taken in each day. There are a total of three (3) influent flowmeters used to calculate influent to the New Liskeard Lagoon. The Niven Street Lift Station, Goodman Street Pump Station, and Gray Road Lift Station each have their own flow meter.

The rated capacity of the New Liskeard Wastewater Treatment Lagoon is 5500 m^3/day (average daily flow). The average daily flow is defined as the total sewage flow of influent to the sewage treatment plant during a calendar year divided by the number of days during which sewage was flowing to the sewage treatment plant that year.

Compliance is achieved when the annual average daily flow does not exceed 5500 m^3/day or a design peak flow of 8250 m^3/day. The annual average daily flow for 2024 was 4898 m^3/day, which represents 89% of the rated capacity. A peak flow of 33,641 occurred on April 12th during an extreme rainfall event. This was the highest peak flow compared to the past 10 years.

The total amount of sewage received by the lagoon in 2024 was 1,792,752 m^3.

In the last 11 years the system reached or exceeded 80% of the rated capacity five times; in 2014 (83.6%), in 2018 (82.1%), 2019 (84.5%), 2023 (80%) and recently in 2024 (89%).

In an effort to keep annual flows below 80%, the City has a program in place to reduce infiltration using municipal service permits that address proper connections to the sanitary sewer system for new construction. They conduct routine maintenance and perform regular camera inspections of the sanitary sewer system to identify sources of inflow, infiltration and restrictive conditions. Also, the frequency and duration of bypass and overflow events are monitored which will help determine steps to reduce the infiltration into the system.

The City is also planning a re-design of the lagoon to increase its capacity to meet regulatory requirements and for future population growth.

Figure 1 compares the monthly influent flow rates recorded in 2024 to the rated capacity and peak capacity of the plant.

Flow trends are critical to assessing the adequacy of size of the treatment system. Figure 2 shows both the annual average and annual peak values from 2014 to 2024 plotted against the rated capacity and peak flow capacity of the wastewater system.

3.1.1 Monthly Influent Flows

Table 6: Comparison of the Monthly Influent Flows to the Rated Capacity

2024	Total Influent Flow (m^3/d)	Average Daily Influent Flow (m^3/d)	% of the Avg. Capacity (5500 m^3/d)	Maximum Influent Flow (m^3/d)	% of the Max. Capacity (8250 m^3/d)
January	97,725	3152	57%	3406	41%
February	108,179	3730	68%	9796	119%**
March	189,446	6111	111%*	15,566	189%**
April	264,926	8831	161%*	33641	408%**
May	138,941	4482	81%	7110	89%
June	125,748	4192	76%	8170	99%
July	119,808	3865	70%	6391	77%
August	124,369	4012	73%	14,124	171%**
September	150,270	5009	91%	12,549	182%**
October	142,385	4593	84%	18,146	220%**
November	195,376	6513	118%*	22,214	269%**
December	135,581	4374	80%	15,189	184%**

* Snow melt and/or heavy rainfall resulted in the system exceeding its average rated capacity and maximum rated capacity in March, April and November.

** Snow melt and/or heavy rainfall caused the plant to exceed its maximum rated capacity in February, March and April. Heavy rain events caused exceedances from August to December.

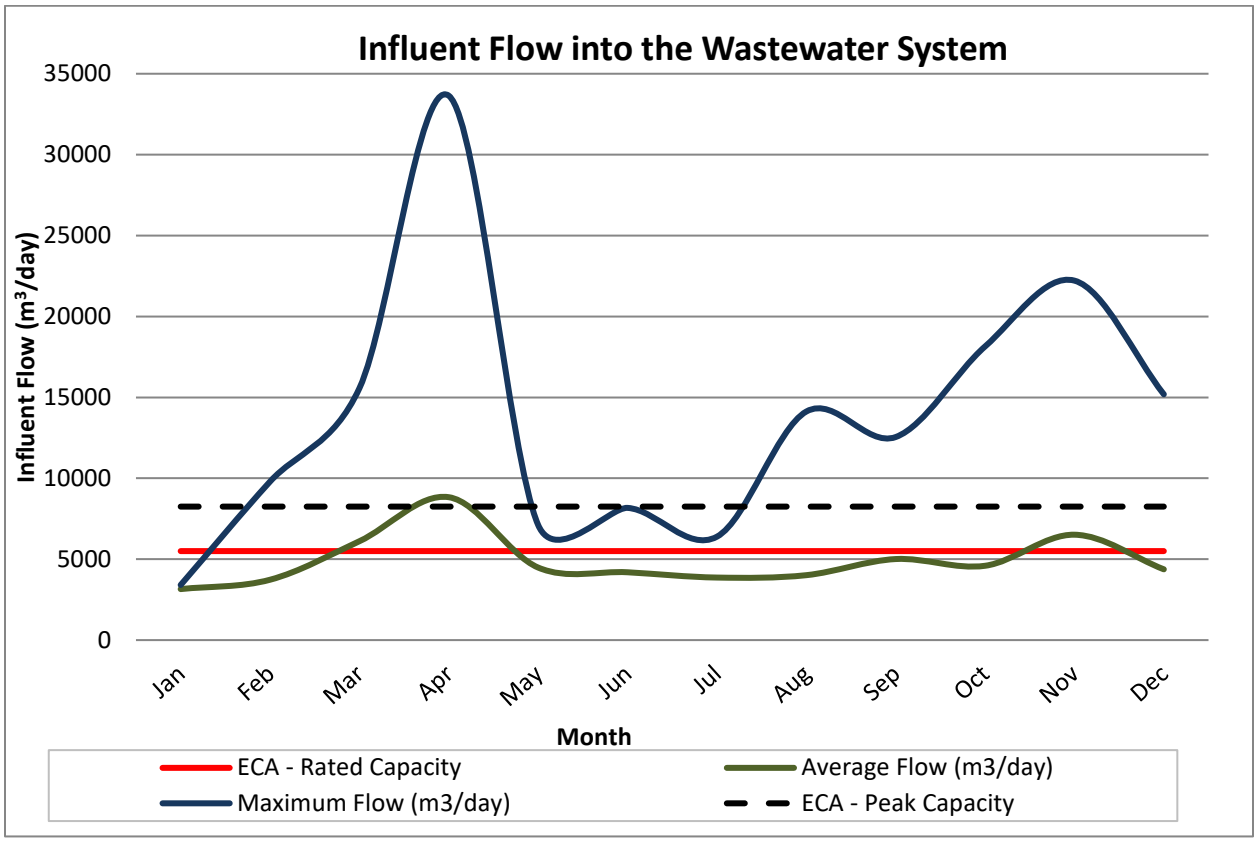


Figure 1 – 2024 Influent Flow into the New Liskeard Lagoon

3.1.2 Annual Influent Flows

Table 7: Comparison of the Annual Influent Flow to the Rated Capacity

Rated Design Capacity (m^3/day)	5500	Maximum Flow Capacity (m^3/day)	8250
2024 Average Flow (m^3/day)	4898	2024 Maximum Flow (m^3/day)	33,641
Percent of Capacity (%)	89%	Percent of Capacity (%)	408%
Total volume of sewage influent in 2024		1,792,752 m^3	

3.1.3 Historical Influent Flows

Table 8: Comparison of Historical Influent Flows (2014 to 2024)

Year	Total Influent Flow (m^3/d)	Average Day Flow (m^3/d)	% of the Avg. Capacity (5500 m^3/d)	Maximum Influent Flow (m^3/d)	% of the Max. Capacity (8250 m^3/d)
2024	1,792,752	4898	89%	33,641	408%
2023	1,595,301	4371	80%	26,371	320%
2022	1,499,641	4109	75%	22,137	268%
2021	1,313,010	3597	65%	17,489	212%
2020	1,591,998	4350	79%	20,832	253%
2019	1,696,991	4649	85%	24,833	301%
2018	1,647,960	4515	82%	16,226	197%
2017	1,465,337	4015	73%	15,059	183%
2016	1,498,392	4094	74%	15,821	192%
2015	1,495,222	4097	75%	21,416	260%
2014	1,683,376	4612	84%	21,516	261%

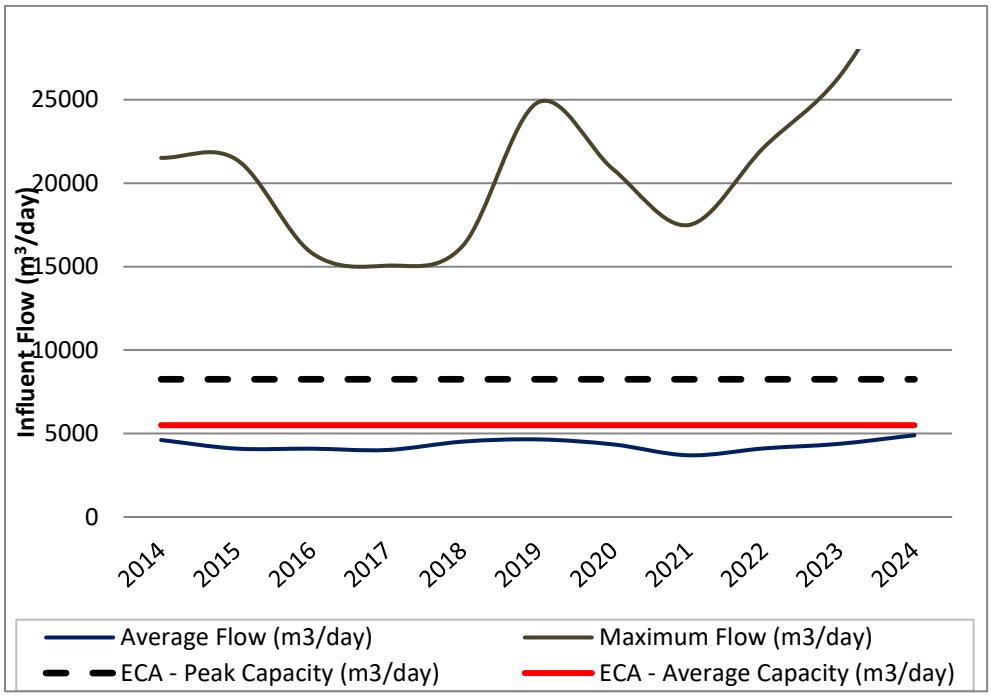


Figure 2: Historical Influent Flow Trends (2014 to 2024)

3.2 Effluent Flows

The effluent flow passes through a weir equipped with a milltronics measuring device which can measure flow from polishing pond cell B or C depending on the configuration before discharging to the Wabi River. The weir was installed in December of 2018.

3.3 Influent Verses Effluent Flows

The total volume of influent flow measured in 2024 was 1,792,752 compared to the effluent flow of 1,864,033 m^3.

Table 9 and Figure 2 compare the 2024 influent flows to the effluent flows.

Table 9: Influent and Effluent Flow Comparison for 2024

2024	Influent Flow (m^3/month)	Effluent Flow (m^3/month)	Flow Difference (Effluent – Influent)
January	97,725	105,809	8084
February	108,179	102,817	-5362
March	189,446	199,749	10,303
April	264,926	337,119	72,193
May	138,941	116,157	-22,784
June	125,748	107,563	-18,184
July	119,806	114,198	-5609
August	124,369	127,043	2673
September	150,269	159,515	9245
October	142,385	142,700	314
November	195,378	222,675	27,297
December	135,581	128,688	-6893
TOTAL	**1,792,751**	**1,864,033**	**71,282**

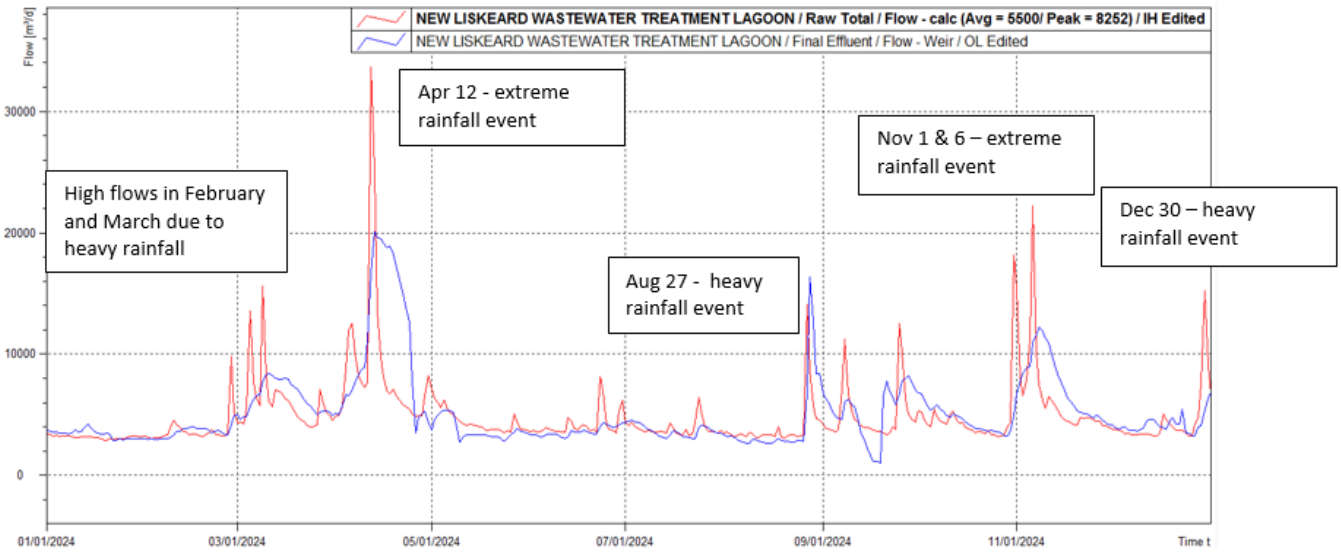


Figure 3: Comparison of Influent and Effluent Flows (2024)

3.4 Influent (Raw Sewage) Quality

The system's ECA indicates that 24 hour composite influent samples are to be collected monthly at the Gray Road, Goodman Street and Niven Street pumping stations.

This section summaries the annual average and annual maximum concentrations of analytical parameters tested in 2024. A monthly summary of the influent data is available in Appendix B.

Table 10: Influent Concentrations – Gray Road SPS

Parameter	Annual Average	Annual Maximum
BOD_5 (mg/L)	< 84.7	770
TSS (mg/L)	134	1270
TP (mg/L)	3.82	16.5
TKN (mg/L)	33.1	111

Table 11: Influent Concentrations – Goodman Street SPS

Parameter	Annual Average	Annual Maximum
BOD_5 (mg/L)	136	341
TSS (mg/L)	182	500
TP (mg/L)	3.72	7.83
TKN (mg/L)	27.8	49.6

Table 12: Influent Concentrations – Niven Street SPS

Parameter	Annual Average	Annual Maximum
BOD_5 (mg/L)	48.3	180
TSS (mg/L)	70.3	285
TP (mg/L)	1.78	4.27
TKN (mg/L)	14.8	35.2

"<" means values include results that were less than the laboratory's method detection limit

3.4.1 Historical Trends of Influent Characteristics

The characteristics of the raw wastewater influence the design and efficacy of the wastewater treatment process. Influent data and trends for BOD_5, TSS, TP and TKN from 2014 to 2024 are provided in Appendix C.

The trends show that the Niven Sewage Pumping Station consistently directs higher quality influent to the lagoon.

3.5 Lagoon Cell Contents

The New Liskeard Lagoon is required by the ECA to sample and test for dissolved oxygen and temperature each month in each of the four cells (A1, A2, D1 and D2). An annual summary of the results is found in Table 13 and a monthly summary is found in Appendix B.

Table 13: Lagoon Cell Contents

Cell	Dissolved Oxygen (mg/L)		Temperature (°C)	
	Annual Average	Annual Maximum	Annual Average	Annual Maximum
A1	4.81	10.4	11.7	24.4
A2	5.35	8.81	11.2	24.5
D1	2.75	10.9	12.3	23.4
D2	2.90	8.01	11.9	24.4

Note: Monthly DO and temperature testing was not performed for any of the four cells in September 2024. The error was discovered on October 1st and samples were immediately collected and tested that day. Samples were taken again on October 21st to ensure 12 samples from each cell were collected in 2024. Refer to Appendix D for further details of the non-compliance.

3.6 Effluent Quality

The New Liskeard sewage effluent quality is based on the carbonaceous biochemical oxygen demand ($cBOD_5$), total suspended solids (TSS), total phosphorus (TP), pH, total chlorine residual and *E.coli* levels. In 2024, the system produced a good quality effluent which met the compliance limits specified in the system's ECA.

An annual summary of the final effluent parameter levels are shown in Table 14 and an annual summary of the effluent loadings are presented in Table 15.

Table 14: Effluent Concentrations

Parameter	Annual Minimum	Annual Maximum	Annual Average	Compliance Limit	Exceedance
$cBOD_5$ (mg/L)	< 0.50	32.5	< 5.43	15 (annual average)	No
TSS (mg/L)	< 0.67	21	< 6.26	30 (annual average)	No
TP (mg/L)	0.033	0.882	0.310	1.0 (annual average)	No
TKN (mg/L)	2.10	22.2	8.28	N/A	No
TAN (mg/L)	0.09	21.9	5.86	N/A	No
NO_3-N (mg/L)	0.10	2.67	1.31	N/A	No
NO_2-N (mg/L)	< 0.05	1.67	< 0.16	N/A	No
E.coli (cfu/100mL)	1	4600	< 597	N/A	No
pH	6.82	8.54	7.55	6.0 to 9.5 (inclusive)	No
Temperature (°C)	0.2	23.4	11.4	N/A	No
Un-ionized Ammonia (mg/L)	0.0005	0.0682	0.0296	N/A	No

"<" means values include results that were less than the laboratory's method detection limit.

cfu ≡ colony forming units.

Table 15: Effluent Loadings

Parameter	Annual Minimum	Annual Maximum	Annual Average	Compliance Limit	Exceedance
$cBOD_5$ (kg/d)	4.5	115	27	82.5 (annual average)	No
TSS (kg/d)	< 4.3	178	< 31	165 (annual average)	No
TP (kg/d)	0.280	3.93	1.55	5.5 (annual average)	No

Appendix B includes a Monthly Process Data Report which summarizes the effluent monitoring and analysis conducted at the facility during the reporting period.

3.7 Sewage Treatment Program Success and Adequacy

The Performance Summary shows the efficiency of the plant performance through pollutant removal rates from raw sewage through to the final effluent.

Table 16 demonstrates that the lagoon treatment process was very successful in decreasing the levels of BOD_5/$cBOD_5$, TSS and TP and fairly effective in reducing total ammonia (TKN/TAN) from the influent, producing a very good quality effluent.

Table 16: Performance Summary

Parameter	Influent *(annual average)*	Effluent *(annual average)*	% Removal
BOD_5/$cBOD_5$ (mg/L)	< 64.3 (BOD_5)	< 5.43 ($cBOD_5$)	92%
TSS (mg/L)	129	< 6.26	95%
TP (mg/L)	3.11	0.310	90%
TKN (mg/L)	25.2	8.28	67%

"<" means values include results that were less than the laboratory's method detection limit.

NOTE: The annual average influent data is calculated from the Gray Road, Goodman Street and Niven Street sewage pumping station influent results.

4 Effluent Quality Assurance and Control Measures Undertaken

The following activities are included in regular operator and supervisory activities to assure high level performance of the sewage treatment operations including high effluent quality and accurate flow monitoring:

- Operational staff have current and appropriate level of certification for the operation of the facility and continue to learn and achieve knowledge of the process and equipment. Experienced staff has a high level of regulatory competence. New staff receives on-going training to achieve operational knowledge and regulatory competence.
- The pumping stations and the treatment lagoon are inspected by a certified OCWA operator regularly during the work week.
- Certified operators conduct daily reviews of selected data from continuous monitoring equipment which is captured by a remote monitoring system.

- In-house tests; pH, temperature and DO are conducted by licensed operators for monitoring purposes using standard methods for Water and Wastewater.
- Samples are collected as required and analyzed by Testmark Laboratories. Analysis of the samples is conducted in accordance with the Standard Council of Canada (SCC), in cooperation with the Canadian Association for Laboratory Accreditation Inc. (CALA). Quality control procedures are method specific and include laboratory duplicate samples, spiked blanks and spiked duplicates.
- A sampling system which includes an excel developed sample calendar, which is updated at the beginning of each year, and a chain of custody binder are used to ensure all samples are collected as per the requirements identified in the system's ECA.
- Operations and Compliance staff review facility round sheets and laboratory reports to monitor the routine operation of the treatment system and ensure compliance with the ECA.
- All process and laboratory data is logged in a process data management system.
- Routine maintenance is scheduled and tracked to completion using OCWA's Workplace Maintenance System (WMS). Instrumentation equipment is tested and maintained as per manufacturer's recommendations.
- Certified operators monitor chemical usage and make adjustments as required.
- Ferric Sulphate is added to the lagoon prior to the polishing ponds to increase the settling of solids and help maintain pH levels.
- Any bypass, overflow or upset events that occur in the system are tested, monitored and reported to the local Health Unit and Spills Action Center (SAC) and local Health Unit.
- All flow, influent and effluent quality data is reviewed by the Overall Responsible Operator and Compliance staff to identify any changes in concentrations and/or emerging trends. All non-compliances are reported to Ministry's Spills Action Center (SAC) and the local MECP inspector.
- Dredging and the installation of a new aeration system is planned within the next two years which will increase air volume and improve effluent quality.

5 Efforts Made to Meet Effluent Objectives

The Effluent Design Objectives are those levels of performance which can be achieved by treatment processes treating normal strength municipal sewage under optimum conditions. A sewage treatment facility should be able to produce annual average effluent quality approximately equal to the Effluent Design Objectives, but should not exceed the Effluent Compliance Limits. The objectives are used to promote continuous improvement in the operations of the works and to trigger corrective action before environmental impairment occurs.

OCWA uses a number of best efforts to achieve the Effluent Objectives.

- Certified operational staff have a high level of process knowledge and regulatory proficiency.
- The mechanical elements in the facility are regularly inspected, well maintained and kept in good repair. OCWA uses a computerized maintenance management program which generates works orders to ensure maintenance of equipment is proactively performed.
- Raw wastewater and effluent samples are collected as required and analyzed by Testmark Laboratories, an accredited laboratory. OCWA reviews these results on a regular basis to confirm compliance with ECA objective and limits.
- In-house sampling and testing for selected operational parameters provides real-time results which are used to enhance process and operational performance.
- Operations, maintenance and emergency procedures are available to ensure facilities are operated in compliance with applicable legal instruments. Facility staff has access to a network of operational compliance and support experts at the region and corporate levels.
- A five year rolling recommended capital and major maintenance report is used to assist the Owner and OCWA with planning infrastructure needs for the short and long terms. A letter summarizing capital work recommendations a provided to the Owner each year for their approval.

The systems' ECA requires a summary of efforts made to achieve the design objectives in the Approval, including an assessment of the issues and recommendations for proactive actions if any are required under the following situations:

- when any of the design objectives is not achieved more than 50% of the time in a year, or if there is an increasing trend in deterioration of final effluent quality;

The New Liskeard Sewage Treatment Lagoon failed to meet the monthly effluent objective for TSS in April. Extreme rainfall may have contributed to the high levels. Additional sampling was conducted as the capacity of the lagoon was exceeded 8 times in April and most samples had TSS results greater than 15 mg/L. Operators adjusted ferric sulphate dosages and monitored the system in an attempt to lower levels within the objective range. The design objectives were achieved more than 50% of the time for all parameters in 2024.

Table 17: Effluent Concentration Objectives

Parameter	Monthly Average (minimum)	Monthly Average (maximum)	Objective (monthly average)	Exceedance
$cBOD_5$ (mg/L)	< 1.22	13	15	No
TSS (mg/L)	< 1.14	16	15	**YES**
TP (mg/L)	0.06	0.62	0.8	No

Parameter	Annual Results (min to max)	Objective	Averaging Period	Exceedance
pH	6.82 to 8.54	6.5 to 9.5	Inclusive	No

"<" means values include results that were less than the laboratory's method detection limit

6 Operating Problems & Corrective Actions

Operating problems encountered during 2024 are summarized below.

1. The New Liskeard sewage lagoon exceeded its peak design capacity of 8250 m^3/day on 24 occasions in 2024. Heavy snowmelt and /or rainfall caused the plant to exceed its allowable peak flow capacity. Refer to Table 25 under Section 10.2.

2. A sewage spill occurred at 64 Armstrong Street South when a sewer pipe from the Cedar Street sewage pumping station was accidently struck and broke when replacing a water service line.

3. Overflow events occurred in the collection system at the Niven Street, Whitewood Avenue, Montgomery Avenue and Robert/Elm sewage pumping stations in April and August due to heavy rains. The Niven Street SPS overflowed on November 24th during a heavy rain event. Refer to Table 24 under Section 10.1.

4. The existing aeration system is obsolete and it is difficult to find replacement parts. Installation of a new aeration system is planned for the near future.

7 Maintenance Procedures Performed on the Works

Routine maintenance schedules are entered in OCWA's computerized Workplace Management System (WMS). This is a comprehensive maintenance program that is based on a pro-active and preventive approach. This program includes but is not limited to running weekly, monthly, and annually checks as required or as recommended by manufacturer's instructions. All routine and preventative maintenance was conducted in 2024. A summary of maintenance performed, which includes preventative work, capital projects and emergency repairs is available in Appendix E.

Significant maintenance that took place during 2024 include:

<u>Lagoon Site</u>

- Installed intrusion alarm system
- Replaced blower belts and chemical feed lines
- Repair leaks in the aeration system

Sewage Pumping Stations

- Goodman SPS – repaired pump No. 3
- Goodman SPS – replaced faulty power supply
- Montgomery SPS - installed intrusion system
- Whitewood SPS – installed new Pump No. 2
- Cedar SPS – replaced pump lifting chains
- Robert-Elm SPS – new overflow flow pump commissioned
- Robert-Elm SPS – installed overflow pump return hose

8 Calibration & Maintenance of all Monitoring Equipment

Influent and effluent monitoring equipment is calibrated based on requirements of the system's ECA or manufactures recommendations. Flow meters are calibrated annually to ensure a required accuracy of +/- 15%. pH meters and DO meters are calibrated to ensure an acceptable tolerance and accuracy as specified by the manufacturer.

Routine maintenance was conducted as scheduled by qualified Instrumentation Technicians during the reporting period. Refer to Table 17 for a summary of calibrations conducted in 2024.

Table 18: Calibration Summary

Instrument	Calibration Dates	% Accuracy	Requirement
Overflow Flow Meter – Niven SPS	June 6, 2023	98.9%	+/- 15%
Raw Flow Meter – Niven SPS	June 5, 2024	99.8%	+/- 15%
Raw Flow Meter – Goodman SPS	June 16, 2024	98.6%	+/- 15%
Raw Flow Meter – Gray SPS	June 11, 2024	99.4%	+/- 15%
Effluent Flow Meter	June 10, 2024	99.9%	+/- 15%
Portable DO Meter	June 20, 2024	Within tolerance	
Portable pH Meter	Mar. 7, Jun. 17, Sep. 3 and Dec. 9, 2024	Within tolerance	

9 Sludge Management

9.1 Sludge Generation and Disposal

The systems ECA requires sludge volumes to be measured every five years, but may be estimated in the interim years. Sludge and water depths were measured for Cell D1, D2, A1 and A2 in 2019, 2020 and 2023. Sludge depths are trended and were estimated for years 2021 and 2022. No sludge measurements were done in 2024.

No sludge was disposed of during this reporting period and it's anticipated that no sludge will be disposed of in 2024.

Table 19: Sludge Volume Cell D1

Date	Sample Points	Average Depths (m)		Sludge Volume (m^3)	% Capacity
		Water	Sludge		
Aug. 7, 2019	16	2.3	0.37	6101	13%
Sep. 30, 2020	16	2.2	0.53	8740	18%
2021 (estimate)	-	-	0.48	7915	16%
2022 (estimate)	-	-	0.43	7091	15%
Jul. 7, 2023	18	1.7	0.33	5442	11%
2024	-	-	-	-	-

As per an Optimization Report (OCWA -2005): Cell Bottom Area = 16,490 m2.
As per the ECA: Operating depth = 2.15 m, Operating Capacity = 48,580 m3

Table 20: Sludge Volume Cell D2

Date	Sample Points	Average Depths (m)		Sludge Volume (m^3)	% Capacity
		Water	Sludge		
Aug. 7, 2019	16	2.1	0.36	5476	12%
Sep. 30, 2020	16	2.1	0.22	3346	7%
2021 (estimate)	-	-	0.21	3194	7%
2022 (estimate)	-	-	0.18	2738	6%
Aug. 11, 2023	18	1.2	0.17	2586	6%
2024	-	-	-	-	-

As per an Optimization Report (OCWA -2005): Cell Bottom Area = 15,210 m2.
As per the ECA: Operating depth = 2.15 m, Operating Capacity = 44,680 m3

Table 21: Sludge Volume Cell A1

Date	Sample Points	Average Depths (m)		Sludge Volume (m^3)	% Capacity
		Water	Sludge		
Aug. 7, 2019	16	2.2	0.36	4323	15%
Oct. 2, 2020	12	2.1	0.37	4443	15%
2021 (estimate)	-	-	0.34	4083	14%

Date	Sample Points	Average Depths (m)		Sludge Volume (m^3)	% Capacity
		Water	Sludge		
2022 (estimate)	-	-	0.27	3242	11%
Aug. 11, 2023	15	1.2	0.21	2522	9%
2024	-	-	-	-	-

As per an Optimization Report (OCWA -2005): Cell Bottom Area = 12,009 m2.
As per the ECA: Operating depth = 2.15 m, Operating Capacity = 29,400 m3

Table 22: Sludge Volume Cell A2

Date	Sample Points	Average Depths (m)		Sludge Volume (m^3)	% Capacity
		Water	Sludge		
Aug. 7, 2019	16	2.1	0.17	2042	7%
Oct. 2, 2020	11	2.1	0.20	2401	8%
2021 (estimate)	-	-	0.20	2401	8%
2022 (estimate)	-	-	0.21	2522	8%
Aug. 11, 2023	15	1.4	0.21	2522	8%
2024	-	-	-	-	-

As per an Optimization Report (OCWA -2005): Cell Bottom Area = 12,009 m2.
As per the ECA: Operating depth = 2.15 m, Operating Capacity = 30,220 m3

9.2 Imported Sludge

The system's ECA allows a maximum sludge volume of 8800 m^3/year that can be imported from the Haileybury Sewage Treatment Plant to the lagoon for disposal. The amount of sludge hauled from the Haileybury system to the New Liskeard Lagoon in 2024 was 2706.4 m^3. It is anticipated that the volume imported in 2024 will be similar to the amount hauled in 2023 as no changes to population or process are expected.

Table 23: Summary of Hauled Sludge Volumes

Month	Volume of Sludge Hauled (m^3)
February	326.4
March	108.8
April	503.2

Month	Volume of Sludge Hauled (m^3)
May	272.0
July	95.2
August	217.6
September	462.4
October	421.8
November	68.0
December	231.2
Total (m^3)	**2706.4**

10 Abnormal Discharge Events

10.1 Overflow, Bypass and Spill Events

Nine (9) overflow events occurred during the 2024 reporting period at four sewage pumping stations. The events took place during periods of very heavy rain. The untreated wastewater was chlorinated and tested for BOD_5, TSS, TP, TKN and *E. coli.* as required under condition 3.0(3.4)(3.4.1b) of the ECA.

One (1) spill also occurred in 2024 on Armstrong Street at a local business (OK Tire) when replacing a service line on February 7th. A sewage pipe from the Cedar Street SPS was accidently struck and broke. Less than 1 m^3 of sewage spilled onto the ground.

A representative and uncontaminated sample of the spill cold not be collected as it seeped into the surrounding ground and mixed with gravel and sand. (SAC Ref No. 1-35TVW8).

The events were reported to the Ministry of the Environment's Spills Action Center (SAC) as per the system's approval, to Environment Canada as required under the Federal Fisheries Act and to the local Health Unit. Table 24 summarizes the events and Appendix F provides a detailed record of the abnormal discharges including sample results.

Table 24: Summary of Abnormal Discharge Events in 2024

Date	Location	Duration	Type	Cause	Adverse Impacts	Estimated Volume (m^3)
February 7	64 Armstrong Street South	40 minutes	Spill	Broken sewer pipe	None	< 1

Date	Location	Duration	Type	Cause	Adverse Impacts	Estimated Volume (m^3)
April 12	Niven SPS	18.4 hours	Overflow	Extreme rainfall	None	4409
April 12	Montgomery SPS	23.8 hours	Overflow	Extreme rainfall	None	1914
April 12	Robert/Elm SPS	23.7 hours	Overflow	Extreme rainfall	None	14,471
April 12	Whitewood SPS	2 minutes	Overflow	Extreme rainfall	None	29.7
August 27	Niven SPS	4.2 hours	Overflow	Heavy rainfall	None	1650
August 27	Montgomery SPS	1.6 hours	Overflow	Heavy rainfall	None	127
August 27	Robert/Elm SPS	2.5 hours	Overflow	Heavy rainfall	None	1591
August 27	Whitewood SPS	51 minutes	Overflow	Heavy rainfall	None	734
November 6	Niven SPS	28 minutes	Overflow	Heavy rainfall	None	21

10.2 Situations Outside Normal Operating Conditions

Condition 9(2) of ECA 7579-BTFKMN indicates that in addition to the scheduled monitoring program, the Owner shall collect daily sample(s) of the Final Effluent on any day when there is any situation outside Normal Operating Conditions. The sample(s) are to be analyzed for all effluent parameters outlined in Compliance Limits condition that require composite samples (cBOD5, TSS and TP). Normal operating conditions means the condition when all the unit process(es), excluding preliminary treatment in a treatment train is operating within design capacity.

The New Liskeard sewage treatment lagoon exceeded its peak design capacity twenty-four times in 2024 during periods of heavy rainfall and snow melt. Additional daily sampling as per the system's ECA was initiated twenty-five times and results are included in the effluent monitoring.

Table 25: Peak Design Capacity Exceedances

Date	Effluent Flow (peak = 8250 m^3/d)
February 28	9796
March 5	13,554
March 9	15,566
April 4	8845
April 5	11,,888
April 6	12514
April 7	10096
April 8	8330
April 12	33,641
April 13	25,128
April 14	13,598
April 15	9763
August 27	14,124
August 28	8695
September 8	11,257
September 25	12,549
September 26	10,190
October 31	18,146
November 1	15,344
November 5	11,241
November 6	22,214
November 7	10,099
December 30	15,189
December 31	9049

10.3 Efforts Made to Reduce System Overflows and Bypasses

The New Liskeard Sewage Treatment Lagoon has operated below its annual average rated capacity of 5500 m^3/day for the past several years. The system is also designed to treat a peak flow rate of 8250 m^3/day. The plant exceeded its peak design capacity twenty-four times in 2024 during periods of heavy rainfall or snow melt.

A review of historical data (2014 to 2024) indicates that all bypass and overflow events do not typically occur at the lagoon, but in the collection system at the Niven Street, Montgomery

Street, Whitewood Avenue, and Robert/Elm sewage pumping stations during periods of snow melt and heavy rains.

In an effort to reduce and/or eliminate overflow, bypass and spill events and to confirm with Procedure F-5-1, the following are in place.

- Emergency backup generators are available at the lagoon and all sewage pump stations except for the Cedar SPS which serves a very small sewage catchment area.
- A SCADA system is used to accurately monitor the sewage network and an alarm system is in place at key points in the process and at the sewage pumping stations to alert operators of any issues; power failures, high levels, equipment failures, loss of communication and intrusion.
- Regular routine maintenance is performed to help reduce overflows/bypasses/spills events. For example: monthly generator tests to ensure the generator will start during a power failure and equipment will continue to operate normally, monthly alarm testing and equipment maintenance as outlined in the Maintenance Summary found in Appendix E.
- Repairs to the collection system are done promptly as issues occur.
- A program is in place to prevent roof leaders and sump pumps from being connected with sanitary new builds.
- To more accurately measure and monitor overflow volumes, the Niven and Whitewood sewage pumping stations are equipped with flow meters to measure flow during overflow events and a procedure has been developed to measure overflow volumes from the Montgomery and Robert/Elm stations.

10.4 Summary of Alterations to the System to Reduce Overflows

- The old Gray Road SPS was decommissioned and a New Gray Road SPS was constructed in 2018 and designed not to overflow.
- Robert/Elm sewage pumping station was also built in 2018 to reduce overflow events at Whitewood Avenue and Niven Street stations.
- The raw flow from the existing distribution chamber was diverted to the new inlet structure. This lowered the head pressure on pumps which allows more volume to be pumped to the lagoon.
- Replaced two pumps at the Montgomery SPS in 2023 and one pump at the Whitewood Avenue SPS in 2024 with more efficient units to allow more volume to be directed to the lagoon which helps reduce overflow events during high flows.

10.5 Public Notification

The system has a Public Notification Procedure to notify the public and downstream users that may be adversely affected in the event of an overflow and bypass at the plant. Signage will be posted at publicly accessible points located near all collection system overflow outfall locations before May 21, 2025 as required under ECA.

11 Complaints

No complaints were received during the reporting period.

12 Notice of Modifications on Sewage Works

A Director's Notification for the Alternations to a Municipal Sewage Collection System was prepared and submitted to the MECP for the installation of a diesel powered emergency overflow pump at the Robert/Elm sewage pumping station. The pump has a capacity of 120 L/s at 8m of TDH and discharges to a 7.5 m long, 200 mm diameter HDPE foreman to Lake Temiskaming. The pump was commissioned and put into service on April 11, 2024.

13 Proposed Alterations to the Works

Installation of a new aeration system is planned for the near future as the current system is obsolete.

APPENDIX A

2024 and 2025 Influent and Effluent Sampling Schedule

Temiskaming Shores Cluster Sewage Treatment Systems – New Liskeard Lagoon

2024 & 2025 Sampling Schedules

For the New Liskeard Lagoon Sewage Treatment System, influent samples and effluent *E.coli* samples are required to be collected and tested each month. Effluent samples are required to be collected and tested bi-weekly as per Schedule D of the system's ECA No. 5103-CDFJW.

The monthly influent and effluent *E.coli* samples are collected during the second week of the month and the bi-weekly effluent samples are collected every second week. In 2024 the first bi-weekly sample was collected on January 2nd. In 2025, the first bi-weekly sample will be collected on January 8th.

2024 Schedule	2024 Sample Dates	2025 Sample Schedule
January 2, 2024	January 2, 2024	January 8, 2025
January 9, 2024	January 9, 2024	January 15, 2025
January 16, 2024	January 16, 2024	January 22, 2025
January 23, 2024	January 23, 2024	January 29, 2025
January 30, 2024	January 30, 2024	February 5, 2025
February 6, 2024	February 6, 2024	February 12, 2025
February 13, 2024	February 13, 2024	February 19, 2025
February 20, 2024	February 20, 2024	February 26, 2025
February 27, 2024	February 27, 2024	March 5, 2025
March 5, 2024	March 5, 2024	March 12, 2025
March 12, 2024	March 12, 2024	March 19, 2025
March 19, 2024	March 19, 2024	March 26, 2025
March 26, 2024	March 26, 2024	April 2, 2025
April 2, 2024	April 2, 2024	April 9, 2025
April 9, 2024	April 9, 2024	April 16, 2025
April 16, 2024	April 16, 2024	April 23, 2025
April 23, 2024	April 23, 2024	April 30, 2025
April 30, 2024	April 30, 2024	May 7, 2025
May 7, 2024	May 7, 2024	May 14, 2025
May 14, 2024	May 14, 2024	May 21, 2025
May 21, 2024	May 21, 2024	May 28, 2025
May 28, 2024	May 28, 2024	June 4, 2025
June 4, 2024	June 4, 2024	June 11, 2025
June 11, 2024	June 11, 2024	June 18, 2025
June 18, 2024	June 18, 2024	June 25, 2025
June 25, 2024	June 25, 2024	July 2, 2025
July 2, 2024	July 2, 2024	July 9, 2025
July 9, 2024	July 9, 2024	July 16, 2025
July 16, 2024	July 16, 2024	July 23, 2025

Temiskaming Shores Cluster Sewage Treatment Systems – New Liskeard Lagoon

2024 & 2025 Sampling Schedules

2024 Schedule	2024 Sample Dates	2025 Sample Schedule
July 23, 2024	July 23, 2024	July 30, 2025
July 30, 2024	July 30, 2024	August 6, 2025
August 6, 2024	August 6, 2024	August 13, 2025
August 13, 2024	August 13, 2024	August 20, 2025
August 20, 2024	August 20, 2024	August 27, 2025
August 27, 2024	August 27, 2024	September 3, 2025
September 3, 2024	September 3, 2024	September 10, 2025
September 10, 2024	September 10, 2024	September 17, 2025
September 17, 2024	September 17, 2024	September 24, 2025
September 24, 2024	September 24, 2024	October 1, 2025
October 1, 2024	October 1, 2024	October 8, 2025
October 8, 2024	October 8, 2024	October 15, 2025
October 15, 2024	October 15, 2024	October 22, 2025
October 22, 2024	October 22, 2024	October 29, 2025
October 29, 2024	October 29, 2024	November 5, 2025
November 5, 2024	November 5, 2024	November 12, 2025
November 12, 2024	November 12, 2024	November 19, 2025
November 19, 2024	November 19, 2024	November 26, 2025
November 26, 2024	November 26, 2024	December 3, 2025
December 3, 2024	December 3, 2024	December 10, 2025
December 10, 2024	December 10, 2024	December 17, 2025
December 17, 2024	December 17, 2024	December 24, 2025
December 23, 2024	December 23, 2024*	December 31, 2025
December 30, 2024	December 30, 2024*	

* Notes:

1. Two (2) sampling deviations occurred IN 2024 due to operator error. One in April and one in May
2. One (1) sampling deviations occurred during the New Years holiday.
3. An additional effluent sample was collected on October 29, 2024 in response to an elevated cBOD result on a sample collected on October 2nd.

APPENDIX B
Monthly Process Data Report

Influent - Raw Sewage														**2024**			
Raw Sewage - Gray Rd PS	**Jan 2024**	**Feb 2024**	**Mar 2024**	**Apr 2024**	**May 2024**	**Jun 2024**	**Jul 2024**	**Aug 2024**	**Sep 2024**	**Oct 2024**	**Nov 2024**	**Dec 2024**	**Total**	**Avg**	**Max**	**Min**
Biochemical Oxygen Demand: BOD5 - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	19.00	36.00	52.00	23.00	15.00	< 6.00	25.00	23.00	15.00	13.00	19.00	770.00			770.00	
Lab Month.Mean	19.00	36.00	52.00	23.00	15.00	< 6.00	25.00	23.00	15.00	13.00	19.00	770.00		< 84.67		
Lab Month.Min	19.00	36.00	52.00	23.00	15.00	< 6.00	25.00	23.00	15.00	13.00	19.00	770.00				< 6.00
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	27.40	34.80	29.60	17.20	11.50	17.10	24.30	35.70	29.40	29.80	29.40	111.00			111.00	
Lab Month.Mean	27.40	34.80	29.60	17.20	11.50	17.10	24.30	35.70	29.40	29.80	29.40	111.00		33.10		
Lab Month.Min	27.40	34.80	29.60	17.20	11.50	17.10	24.30	35.70	29.40	29.80	29.40	111.00				11.50
Total Phosphorus: TP - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	2.16	3.10	3.49	1.92	1.30	2.03	2.82	3.64	3.30	2.94	2.62	16.50			16.50	
Lab Month.Mean	2.16	3.10	3.49	1.92	1.30	2.03	2.82	3.64	3.30	2.94	2.62	16.50		3.82		
Lab Month.Min	2.16	3.10	3.49	1.92	1.30	2.03	2.82	3.64	3.30	2.94	2.62	16.50				1.30
Total Suspended Solids: TSS - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	37.00	2.90	106.00	32.50	8.00	7.50	51.00	43.00	24.00	11.00	12.00	1270.00			1270.00	
Lab Month.Mean	37.00	2.90	106.00	32.50	8.00	7.50	51.00	43.00	24.00	11.00	12.00	1270.00		133.74		
Lab Month.Min	37.00	2.90	106.00	32.50	8.00	7.50	51.00	43.00	24.00	11.00	12.00	1270.00				2.90

													2024			
Raw Sewage - Goodman PS	**Jan 2024**	**Feb 2024**	**Mar 2024**	**Apr 2024**	**May 2024**	**Jun 2024**	**Jul 2024**	**Aug 2024**	**Sep 2024**	**Oct 2024**	**Nov 2024**	**Dec 2024**	**Total**	**Avg**	**Max**	**Min**
Biochemical Oxygen Demand: BOD5 - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	160.00	190.00	70.20	17.00	42.00	100.00	170.00	341.00	280.00	220.00	16.00	23.00			341.00	
Lab Month.Mean	160.00	190.00	70.20	17.00	42.00	100.00	170.00	341.00	280.00	220.00	16.00	23.00		135.77		
Lab Month.Min	160.00	190.00	70.20	17.00	42.00	100.00	170.00	341.00	280.00	220.00	16.00	23.00				16.00
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	26.30	41.70	11.50	12.20	16.60	44.90	36.50	49.60	47.20	16.90	9.00	20.80			49.60	
Lab Month.Mean	26.30	41.70	11.50	12.20	16.60	44.90	36.50	49.60	47.20	16.90	9.00	20.80		27.77		
Lab Month.Min	26.30	41.70	11.50	12.20	16.60	44.90	36.50	49.60	47.20	16.90	9.00	20.80				9.00

Total Phosphorus: TP - mg/L																		
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
Lab Month.Max	4.41	4.84	1.39	0.95	1.85	5.13	5.88	7.83	6.42	2.82	0.91	2.17				7.83	
Lab Month.Mean	4.41	4.84	1.39	0.95	1.85	5.13	5.88	7.83	6.42	2.82	0.91	2.17			3.72		
Lab Month.Min	4.41	4.84	1.39	0.95	1.85	5.13	5.88	7.83	6.42	2.82	0.91	2.17					0.91
Total Suspended Solids: TSS - mg/L																	
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
Lab Month.Max	187.00	187.00	125.00	22.00	29.00	160.00	288.00	500.00	477.00	182.00	4.50	20.70				500.00	
Lab Month.Mean	187.00	187.00	125.00	22.00	29.00	160.00	288.00	500.00	477.00	182.00	4.50	20.70			181.85		
Lab Month.Min	187.00	187.00	125.00	22.00	29.00	160.00	288.00	500.00	477.00	182.00	4.50	20.70					4.50

													2024			
Raw Sewage - Niven PS	**Jan 2024**	**Feb 2024**	**Mar 2024**	**Apr 2024**	**May 2024**	**Jun 2024**	**Jul 2024**	**Aug 2024**	**Sep 2024**	**Oct 2024**	**Nov 2024**	**Dec 2024**	**Total**	**Avg**	**Max**	**Min**
Biochemical Oxygen Demand: BOD5 - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	140.00	51.00	41.00	11.00	3.20	1.40	37.00	180.00	42.00	49.00	8.00	16.00			180.00	
Lab Month.Mean	140.00	51.00	41.00	11.00	3.20	1.40	37.00	180.00	42.00	49.00	8.00	16.00		48.30		
Lab Month.Min	140.00	51.00	41.00	11.00	3.20	1.40	37.00	180.00	42.00	49.00	8.00	16.00				1.40
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	24.60	19.00	9.10	7.80	8.20	15.10	15.70	35.20	9.50	11.30	7.20	14.30			35.20	
Lab Month.Mean	24.60	19.00	9.10	7.80	8.20	15.10	15.70	35.20	9.50	11.30	7.20	14.30		14.75		
Lab Month.Min	24.60	19.00	9.10	7.80	8.20	15.10	15.70	35.20	9.50	11.30	7.20	14.30				7.20
Total Phosphorus: TP - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	3.05	1.99	1.21	0.65	0.89	1.78	1.79	4.27	1.52	1.78	0.89	1.54			4.27	
Lab Month.Mean	3.05	1.99	1.21	0.65	0.89	1.78	1.79	4.27	1.52	1.78	0.89	1.54		1.78		
Lab Month.Min	3.05	1.99	1.21	0.65	0.89	1.78	1.79	4.27	1.52	1.78	0.89	1.54				0.65
Total Suspended Solids: TSS - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	173.00	50.00	63.00	17.00	19.50	35.00	15.00	285.00	72.00	87.50	8.00	18.00			285.00	
Lab Month.Mean	173.00	50.00	63.00	17.00	19.50	35.00	15.00	285.00	72.00	87.50	8.00	18.00		70.25		
Lab Month.Min	173.00	50.00	63.00	17.00	19.50	35.00	15.00	285.00	72.00	87.50	8.00	18.00				8.00

Lagoon Cell Contents

D1 Cell Contents	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	2024 Total	2024 Avg	2024 Max	2024 Min
Dissolved Oxygen: DO - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00	1.00	1.00	12.00			
IH Month.Max	2.38	1.35	2.18	1.71	10.88	0.84	0.49	3.99		0.98	7.26	0.62			10.88	
IH Month.Mean	2.38	1.35	2.18	1.71	10.88	0.84	0.49	3.99		0.62	7.26	0.62		2.75		
IH Month.Min	2.38	1.35	2.18	1.71	10.88	0.84	0.49	3.99		0.26	7.26	0.62				0.26
Temperature - °C																
IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		2.00	1.00	1.00	12.00			
IH Month.Max	0.50	2.20	7.00	10.00	14.50	22.30	23.40	22.70		17.00	10.90	3.30			23.40	
IH Month.Mean	0.50	2.20	7.00	10.00	14.50	22.30	23.40	22.70		15.55	10.90	3.30		12.33		
IH Month.Min	0.50	2.20	7.00	10.00	14.50	22.30	23.40	22.70		14.10	10.90	3.30				0.50

D2 Cell Contents	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	2024 Total	2024 Avg	2024 Max	2024 Min
Dissolved Oxygen: DO - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00	1.00	1.00	12.00			
IH Month.Max	0.52	0.79	2.54	2.33	1.41	2.36	0.96	3.51		3.10	8.01	7.08			8.01	
IH Month.Mean	0.52	0.79	2.54	2.33	1.41	2.36	0.96	3.51		2.66	8.01	7.08		2.90		
IH Month.Min	0.52	0.79	2.54	2.33	1.41	2.36	0.96	3.51		2.22	8.01	7.08				0.52
Temperature - °C																
IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		2.00	1.00	1.00	12.00			
IH Month.Max	2.80	0.70	2.40	8.80	14.90	23.30	24.40	23.50		17.40	10.70	0.40			24.40	
IH Month.Mean	2.80	0.70	2.40	8.80	14.90	23.30	24.40	23.50		15.30	10.70	0.40		11.88		
IH Month.Min	2.80	0.70	2.40	8.80	14.90	23.30	24.40	23.50		13.20	10.70	0.40				0.40

A1 Cell Contents	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	2024 Total	2024 Avg	2024 Max	2024 Min
Dissolved Oxygen: DO - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00	1.00	1.00	12.00			
IH Month.Max	1.37	1.37	7.54	6.17	10.40	5.89	1.39	4.58		3.22	6.76	8.67			10.40	
IH Month.Mean	1.37	1.37	7.54	6.17	10.40	5.89	1.39	4.58		1.82	6.76	8.67		4.81		
IH Month.Min	1.37	1.37	7.54	6.17	10.40	5.89	1.39	4.58		0.41	6.76	8.67				0.41
Temperature - °C																
IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		2.00	1.00	1.00	12.00			
IH Month.Max	2.20	1.50	2.20	8.40	14.40	23.40	24.40	24.00		17.50	9.10	0.40			24.40	
IH Month.Mean	2.20	1.50	2.20	8.40	14.40	23.40	24.40	24.00		15.20	9.10	0.40		11.70		
IH Month.Min	2.20	1.50	2.20	8.40	14.40	23.40	24.40	24.00		12.90	9.10	0.40				0.40

A2 Cell Contents	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Total	Avg	Max	Min
Dissolved Oxygen: DO - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	2.00	1.00	1.00	12.00			
IH Month.Max	3.11	1.16	6.35	8.81	8.30	7.91	1.81	6.43		4.84	6.92	6.73			8.81	
IH Month.Mean	3.11	1.16	6.35	8.81	8.30	7.91	1.81	6.43		3.31	6.92	6.73		5.35		
IH Month.Min	3.11	1.16	6.35	8.81	8.30	7.91	1.81	6.43		1.78	6.92	6.73				1.16
Temperature - °C																
IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00		2.00	1.00	1.00	12.00			
IH Month.Max	1.20	1.10	1.60	6.10	14.60	23.20	24.40	24.50		17.20	8.20	0.40			24.50	
IH Month.Mean	1.20	1.10	1.60	6.10	14.60	23.20	24.40	24.50		14.70	8.20	0.40		11.23		
IH Month.Min	1.20	1.10	1.60	6.10	14.60	23.20	24.40	24.50		12.20	8.20	0.40				0.40

2024

Final Effluent	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Total	Avg	Max	Min
CBOD5 (15 - Quarterly) - mg/L																
Lab Count	3.00	3.00	5.00	10.00	2.00	2.00	3.00	5.00	5.00	4.00	6.00	4.00	52.00			
Lab Month.Max	6.40	18.00	14.00	14.00	5.20	3.00	1.80	4.30	1.80	32.50	2.90	2.70			32.50	
Lab Month.Mean	5.57	13.00	7.80	10.25	3.70	2.55	1.23	2.44	< 1.22	< 8.70	< 1.42	1.80		< 5.43		
Lab Month.Min	5.00	10.00	1.30	4.00	2.20	2.10	0.70	1.30	< 0.50	< 0.50	< 0.50	1.00				< 0.50
E. Coli: EC (Monthly) - cfu/100mL																
GMD	5.00	2400.00	4600.00	5.00	5.00	5.00	46.00	34.00	5.00	8.00	40.00	1.00				
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	5.00	2400.00	4600.00	< 5.00	< 5.00	< 5.00	46.00	34.00	5.00	8.00	40.00	1.00			4600.00	
Lab Month.Mean	5.00	2400.00	4600.00	< 5.00	< 5.00	< 5.00	46.00	34.00	5.00	8.00	40.00	1.00		< 596.17		
Lab Month.Min	5.00	2400.00	4600.00	< 5.00	< 5.00	< 5.00	46.00	34.00	5.00	8.00	40.00	1.00				1.00
Un-ionized Ammonia: NH3 - mg/L																
IH Edited Count	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	28.00			
IH Month.Max	0.0476	0.0548	0.0170	0.0558	0.0121	0.0682	0.0625	0.0475	0.0021	0.0013	0.0611	0.0474			0.0682	
IH Month.Mean	0.0448	0.0422	0.0158	0.0426	0.0071	0.0383	0.0567	0.0353	0.0019	0.0008	0.0363	0.0275		0.0296		
IH Month.Min	0.0430	0.0296	0.0146	0.0293	0.0021	0.0083	0.0498	0.0231	0.0016	0.0005	0.0116	0.0048				0.0005
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																
Lab Count	3.00	2.00	2.00	2.00	2.00	2.00	4.00	2.00	2.00	3.00	2.00	3.00	29.00			
Lab Month.Max	17.40	21.90	17.30	8.87	1.34	4.57	0.74	0.39	0.24	0.27	6.22	9.93			21.90	
Lab Month.Mean	15.63	20.65	13.90	6.73	0.83	3.02	0.46	0.37	0.24	0.16	4.14	7.01		5.86		
Lab Month.Min	13.10	19.40	10.50	4.58	0.32	1.47	0.15	0.35	0.23	0.09	2.06	4.41				0.09

Nitrite as N: NO2-N - mg/L																
Lab Count	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	28.00			
Lab Month.Max	0.21	1.67	< 0.05	< 0.05	0.31	0.40	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.32			1.67	
Lab Month.Mean	< 0.14	< 0.89	< 0.05	< 0.05	0.21	< 0.23	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.22		< 0.16		
Lab Month.Min	< 0.10	< 0.10	< 0.05	< 0.05	0.10	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05				< 0.05
Nitrate as N: NO3-N - mg/L																
Lab Count	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	28.00			
Lab Month.Max	1.70	0.24	0.38	1.65	2.08	0.30	2.13	1.05	2.55	2.47	2.41	2.67			2.67	
Lab Month.Mean	1.04	0.22	0.28	1.03	1.45	0.20	1.59	0.80	1.76	2.13	2.23	2.14		1.31		
Lab Month.Min	0.53	0.20	0.18	0.40	0.82	0.10	1.17	0.54	0.96	1.62	2.05	1.56				0.10
pH Field: Lab Upload (6.0-9.5) - ---																
IH Edited Count	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	3.00	4.00	5.00	4.00	34.00			
IH Month.Max	7.54	7.41	7.22	7.68	7.50	7.50	8.50	8.54	7.62	7.59	7.84	7.57			8.54	
IH Month.Mean	7.43	7.28	7.13	7.63	7.34	7.31	8.40	8.41	7.37	7.47	7.65	7.15		7.55		
IH Month.Min	7.34	7.14	7.04	7.57	7.18	7.12	8.30	8.28	7.18	7.40	7.47	6.82				6.82
Temperature Field: Lab Upload - °C																
IH Edited Count	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	3.00	4.00	5.00	4.00	34.00			
IH Month.Max	3.80	3.50	1.00	9.10	21.60	22.60	23.40	20.10	17.50	11.20	9.00	21.20			23.40	
IH Month.Mean	3.07	2.75	0.60	7.40	18.65	21.85	22.13	19.60	15.30	9.48	7.82	10.74		11.40		
IH Month.Min	2.50	2.00	0.20	5.70	15.70	21.10	20.90	19.10	12.00	4.70	6.70	3.20				0.20
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	28.00			
Lab Month.Max	22.20	21.90	19.10	12.10	3.70	7.00	3.40	4.90	3.20	3.70	7.80	9.70			22.20	
Lab Month.Mean	17.50	21.80	15.00	10.85	3.50	5.15	3.10	4.70	2.65	2.77	5.65	7.70		8.28		
Lab Month.Min	12.30	21.70	10.90	9.60	3.30	3.30	2.90	4.50	2.10	2.20	3.50	5.80				2.10
TP (1.0 - Annual) - mg/L																
Lab Count	3.00	3.00	5.00	10.00	2.00	2.00	3.00	5.00	5.00	4.00	6.00	4.00	52.00			
Lab Month.Max	0.239	0.745	0.652	0.644	0.179	0.795	0.409	0.882	0.259	0.110	0.243	0.130			0.882	
Lab Month.Mean	0.198	0.618	0.484	0.350	0.169	0.617	0.288	0.612	0.227	0.061	0.101	0.084		0.310		
Lab Month.Min	0.168	0.444	0.212	0.193	0.159	0.438	0.217	0.406	0.203	0.033	0.038	0.052				0.033
TSS (30 - Quarterly) - mg/L																
Lab Count	3.00	3.00	5.00	10.00	2.00	2.00	3.00	5.00	5.00	4.00	6.00	4.00	52.00			
Lab Month.Max	11.50	10.00	15.50	21.00	12.50	5.50	1.50	7.50	2.50	4.00	4.50	2.30			21.00	
Lab Month.Mean	6.17	5.83	9.60	15.85	8.50	4.00	< 1.17	< 4.10	< 1.30	< 2.38	< 2.08	< 1.53		< 6.26		
Lab Month.Min	2.50	1.00	4.50	10.50	4.50	2.50	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 0.67				< 0.67

APPENDIX C

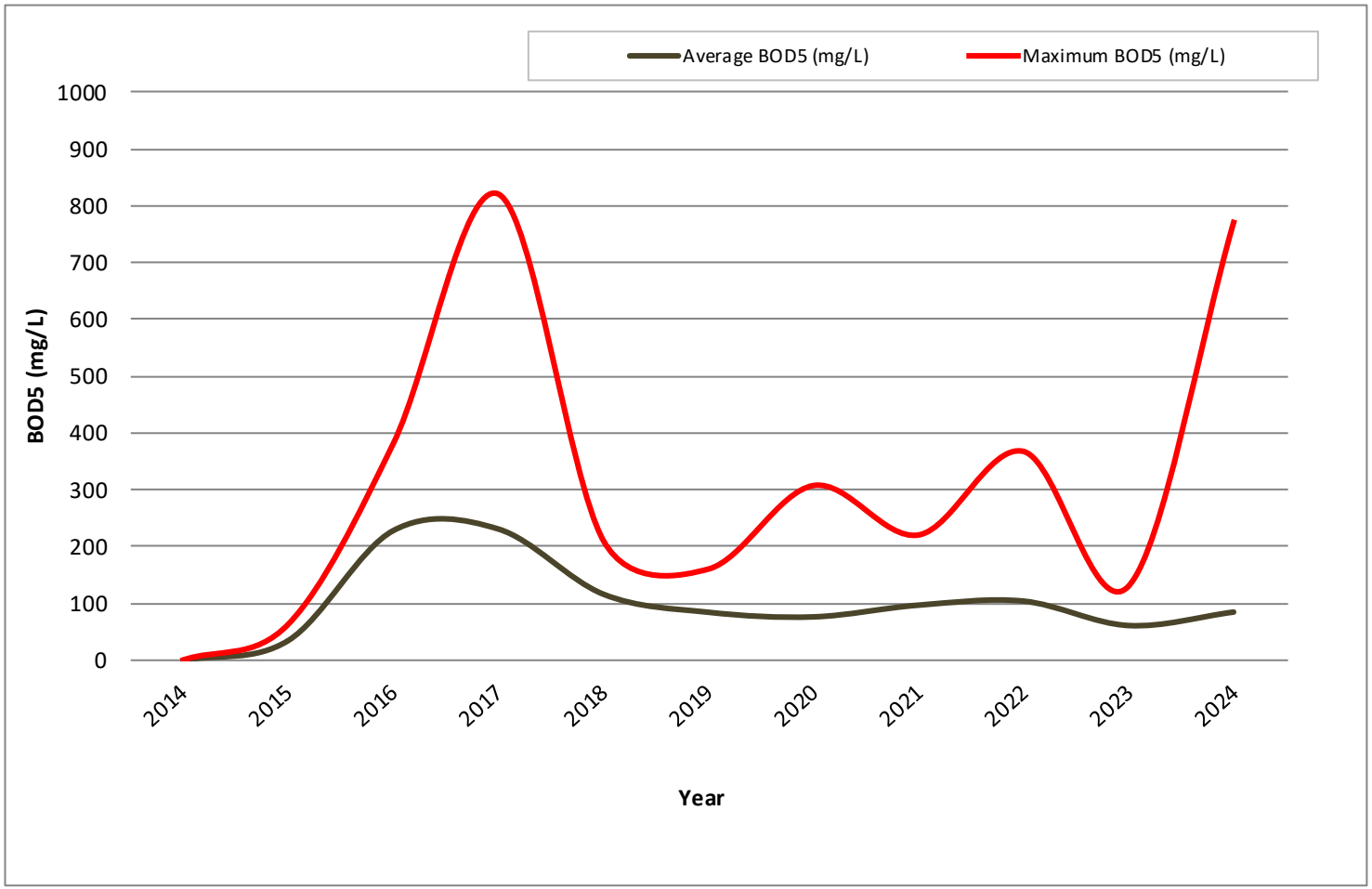
Historical Trends of Influent Characteristics

New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Gray) – Historical Results (2014 to 2024)

Note: Data Collection for the Gray sewage pumping Station began in November 2015.

BOD5 – Five Day Biochemical Oxygen Demand

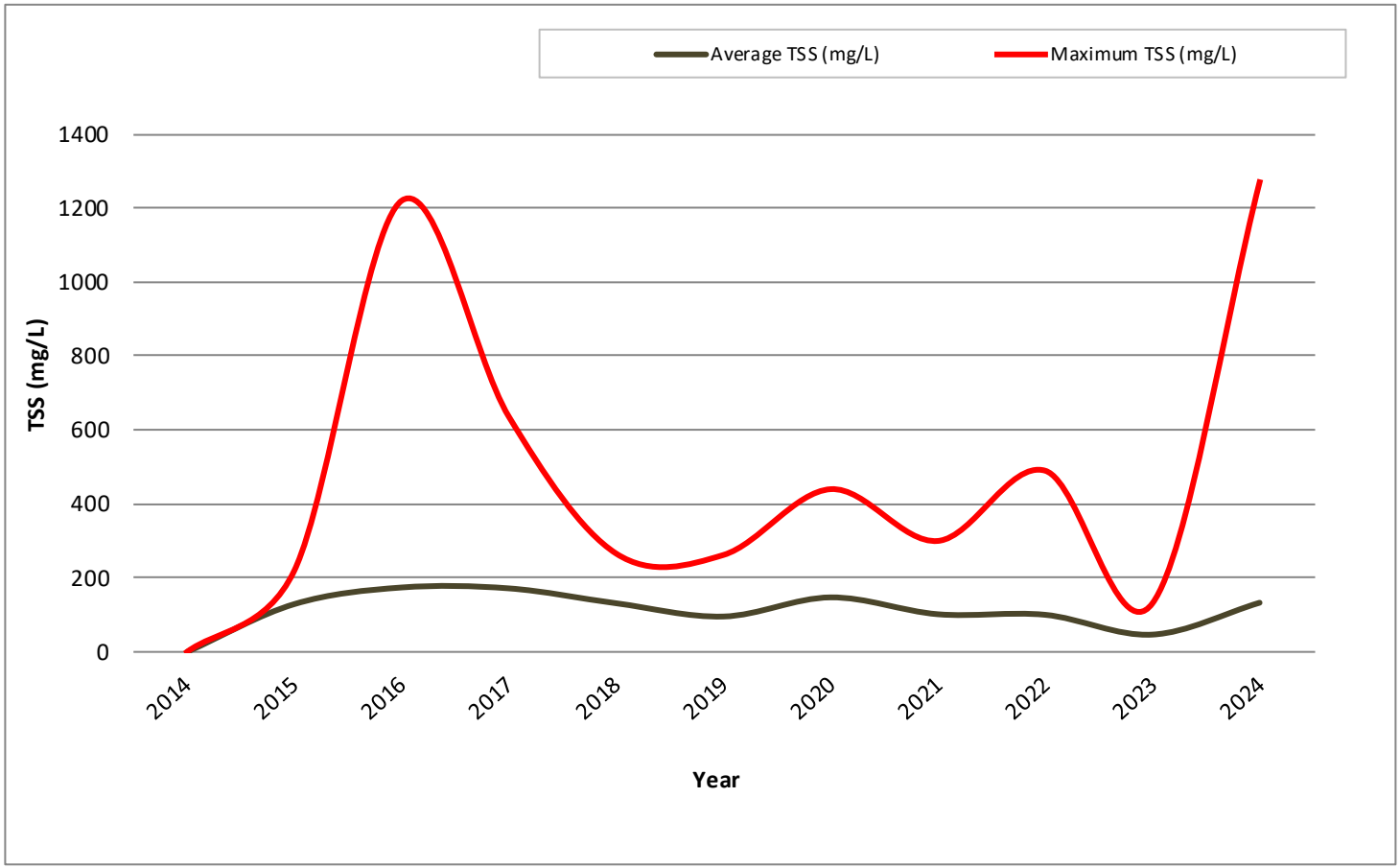
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average BOD5 (mg/L)	N/A	35	228	231	116	84	76	97	104	61	85
Maximum BOD5 (mg/L)	N/A	63	381	820	210	160	307	220	367	130	770



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Gray) – Historical Results (2014 to 2024)

TSS – Total Suspended Solids

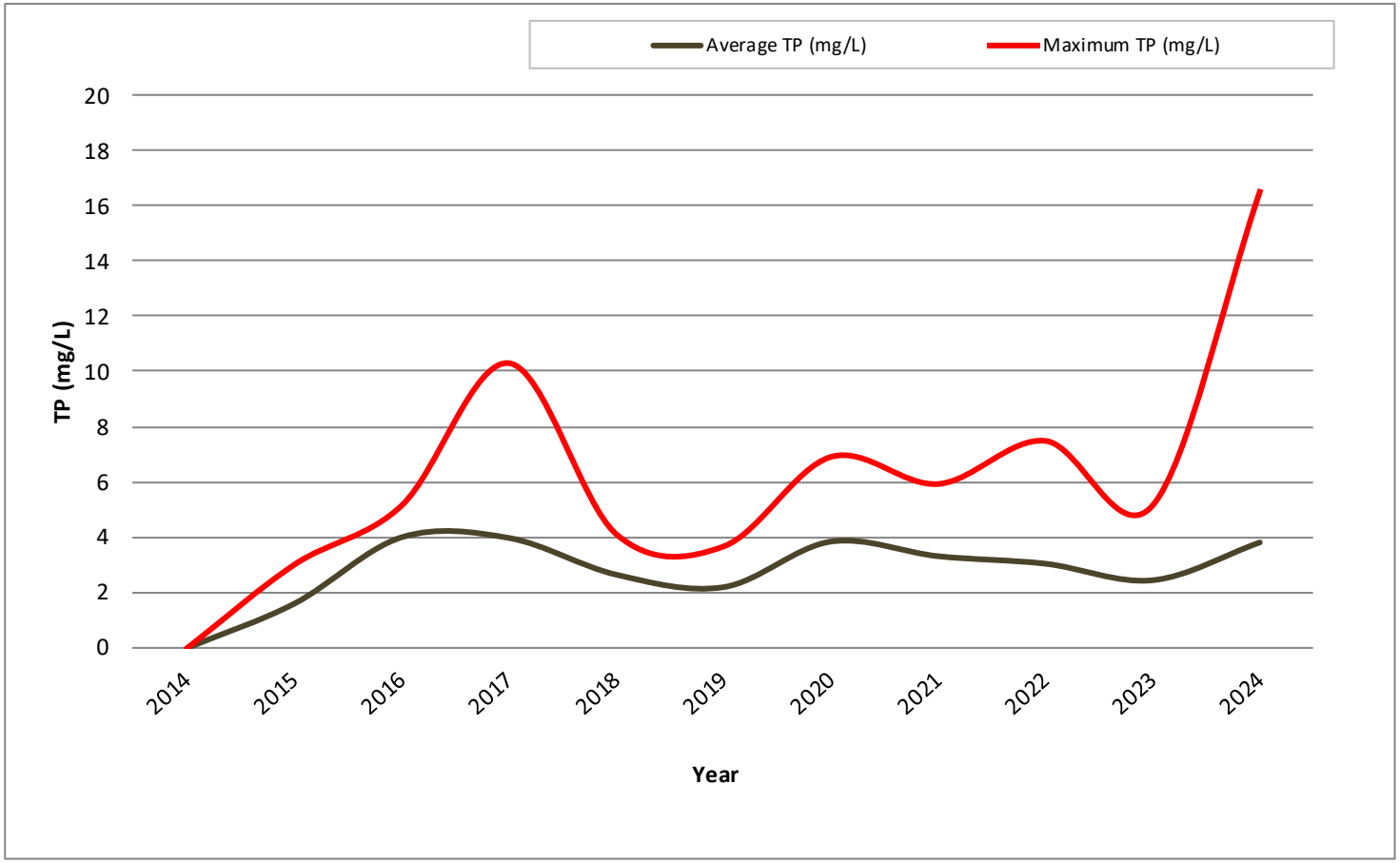
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TSS (mg/L)	N/A	130	175	173	132	96	148	102	101	47	134
Maximum TSS (mg/L)	N/A	220	1220	636	266	262	440	300	490	131	1270



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Gray) – Historical Results (2014 to 2024)

TP - Total Phosphorus

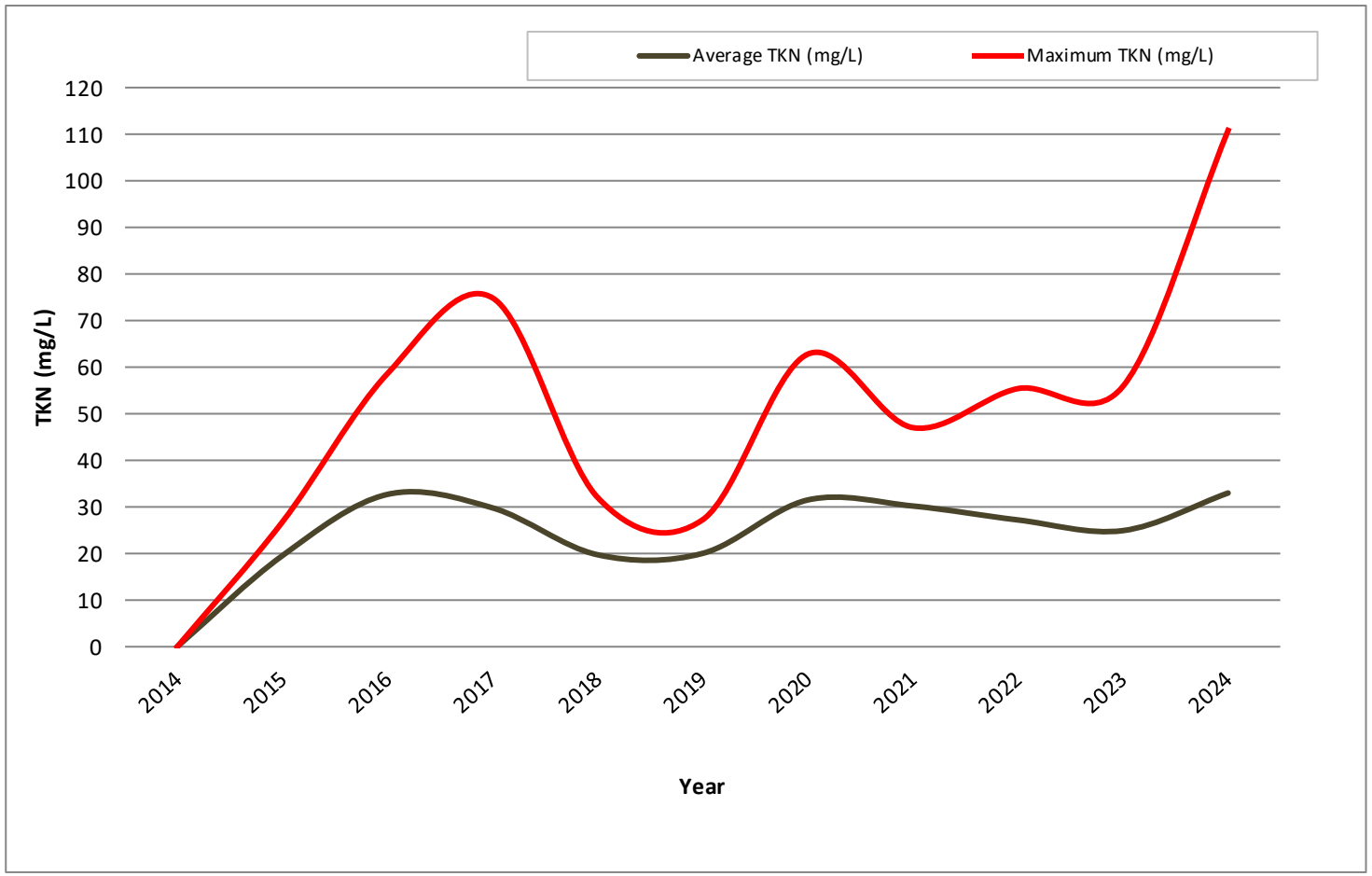
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TP (mg/L)	N/A	1.6	4.0	4.0	2.7	2.2	3.9	3.3	3.1	2.5	3.8
Maximum TP (mg/L)	N/A	3.0	5.2	10.3	4.1	3.7	6.9	5.9	7.5	5.2	16.5



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Gray) – Historical Results (2014 to 2024)

TKN – Total Kjeldahl Nitrogen

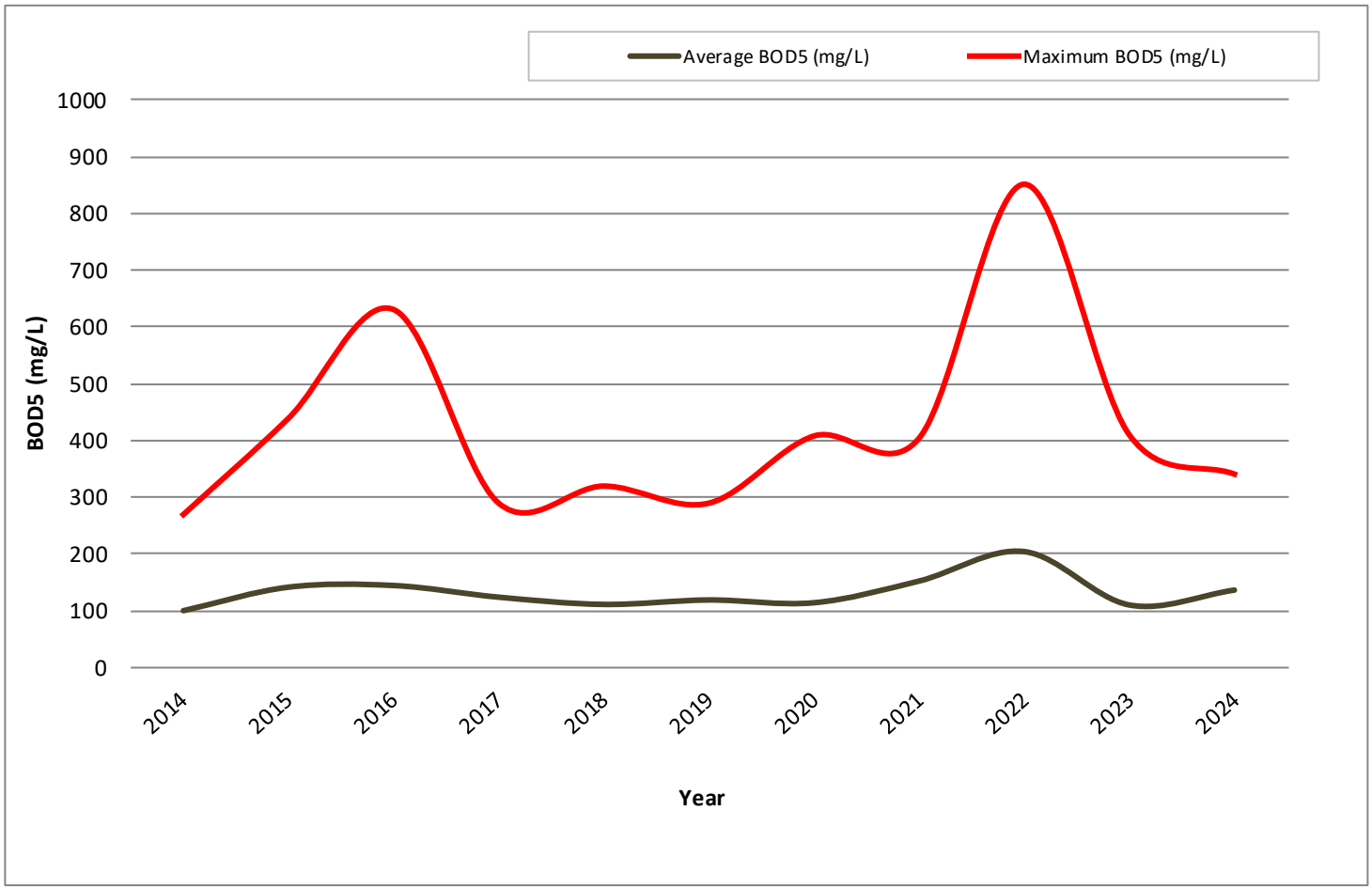
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TKN (mg/L)	N/A	20	33	30	20	20	32	30	27	25	33
Maximum TKN (mg/L)	N/A	27	59	75	32	27	63	47	56	56	111



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Goodman) – Historical Results (2014 to 2024)

BOD5 – Five Day Biochemical Oxygen Demand

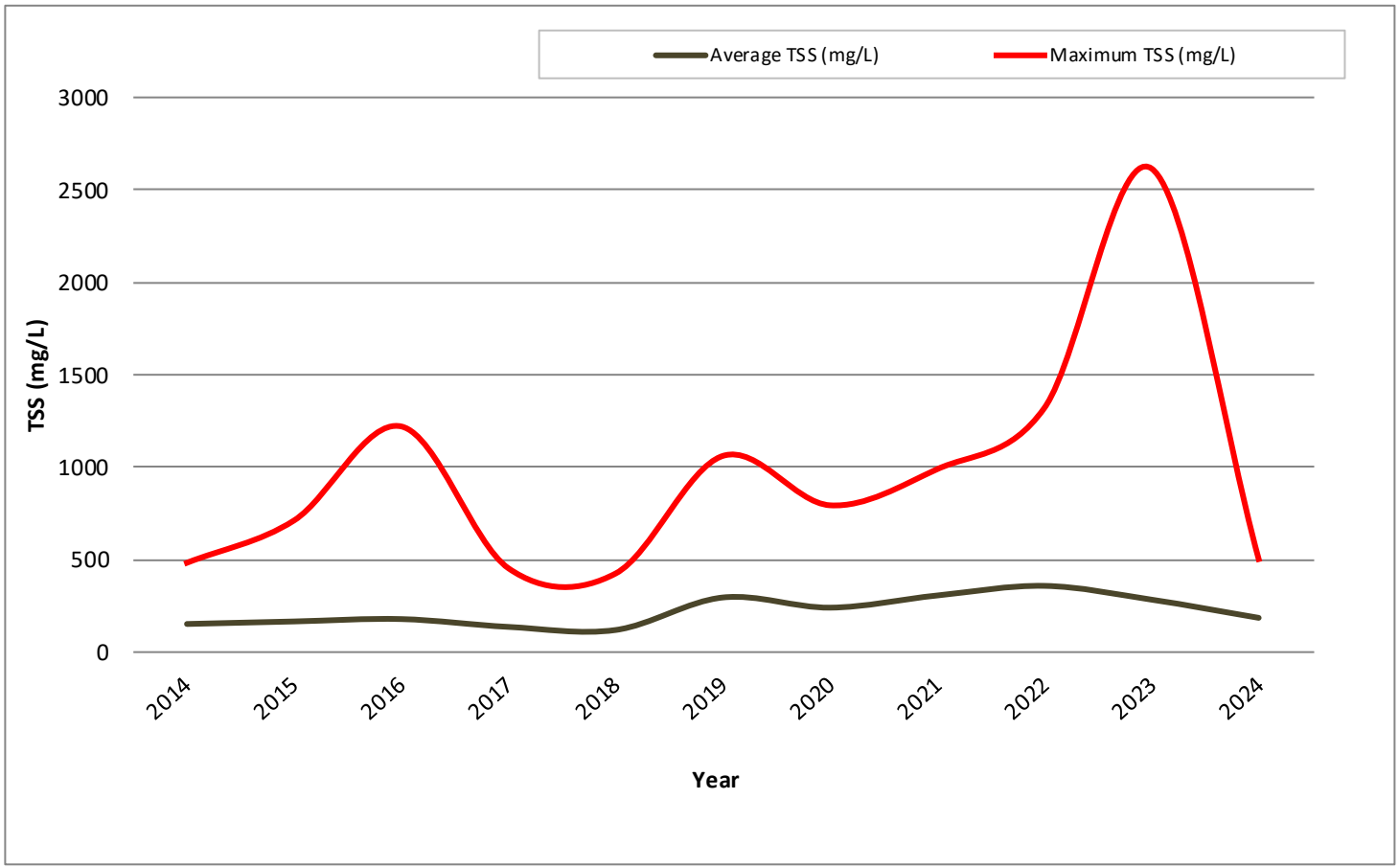
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average BOD5 (mg/L)	99	141	144	123	110	118	113	152	205	109	136
Maximum BOD5 (mg/L)	270	439	630	290	320	290	408	404	850	410	341



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Goodman) – Historical Results (2014 to 2024)

TSS – Total Suspended Solids

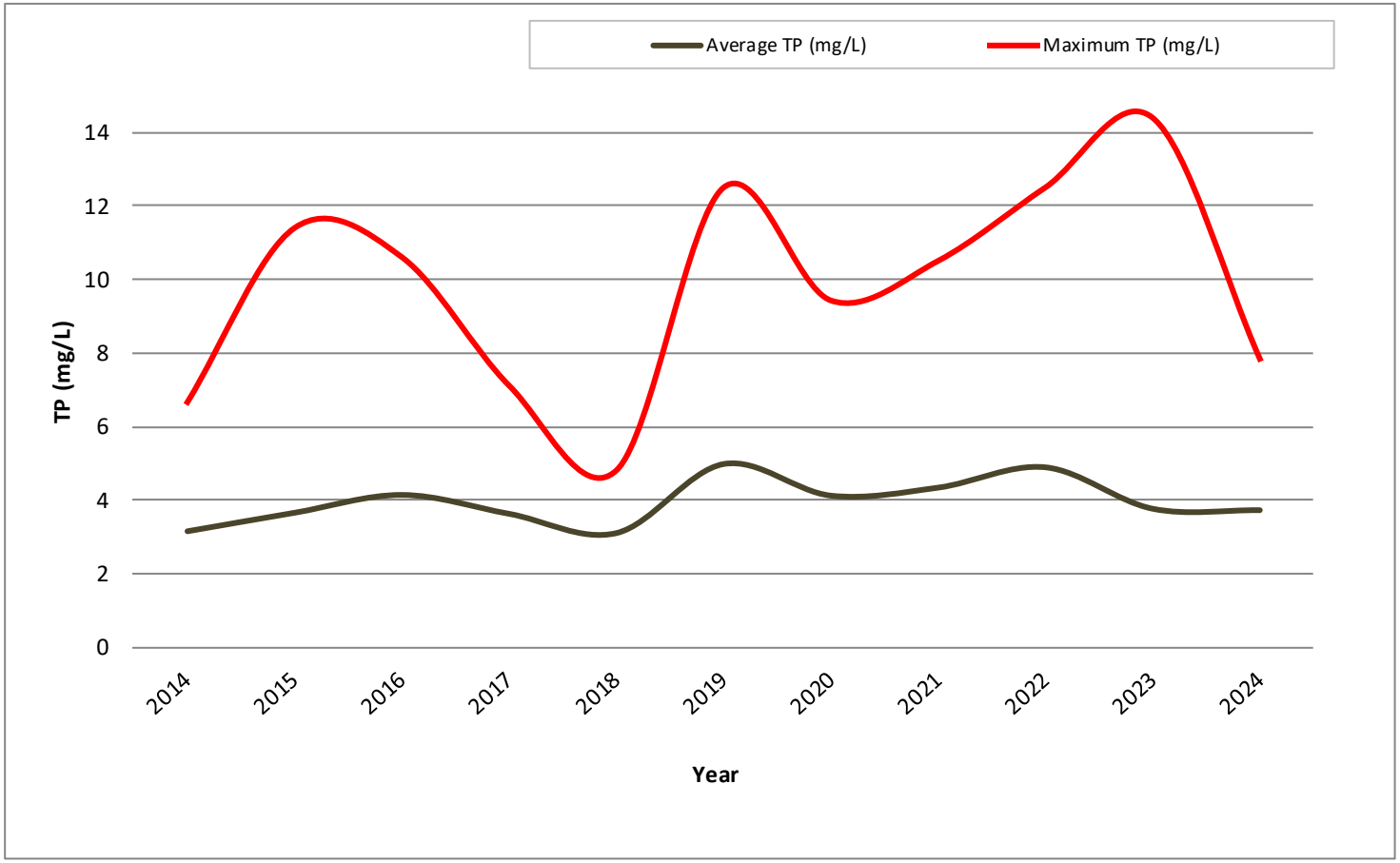
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TSS (mg/L)	148	162	175	132	115	294	238	305	358	282	182
Maximum TSS (mg/L)	480	710	1220	450	422	1060	792	988	1320	2620	500



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Goodman) – Historical Results (2014 to 2024)

TP - Total Phosphorus

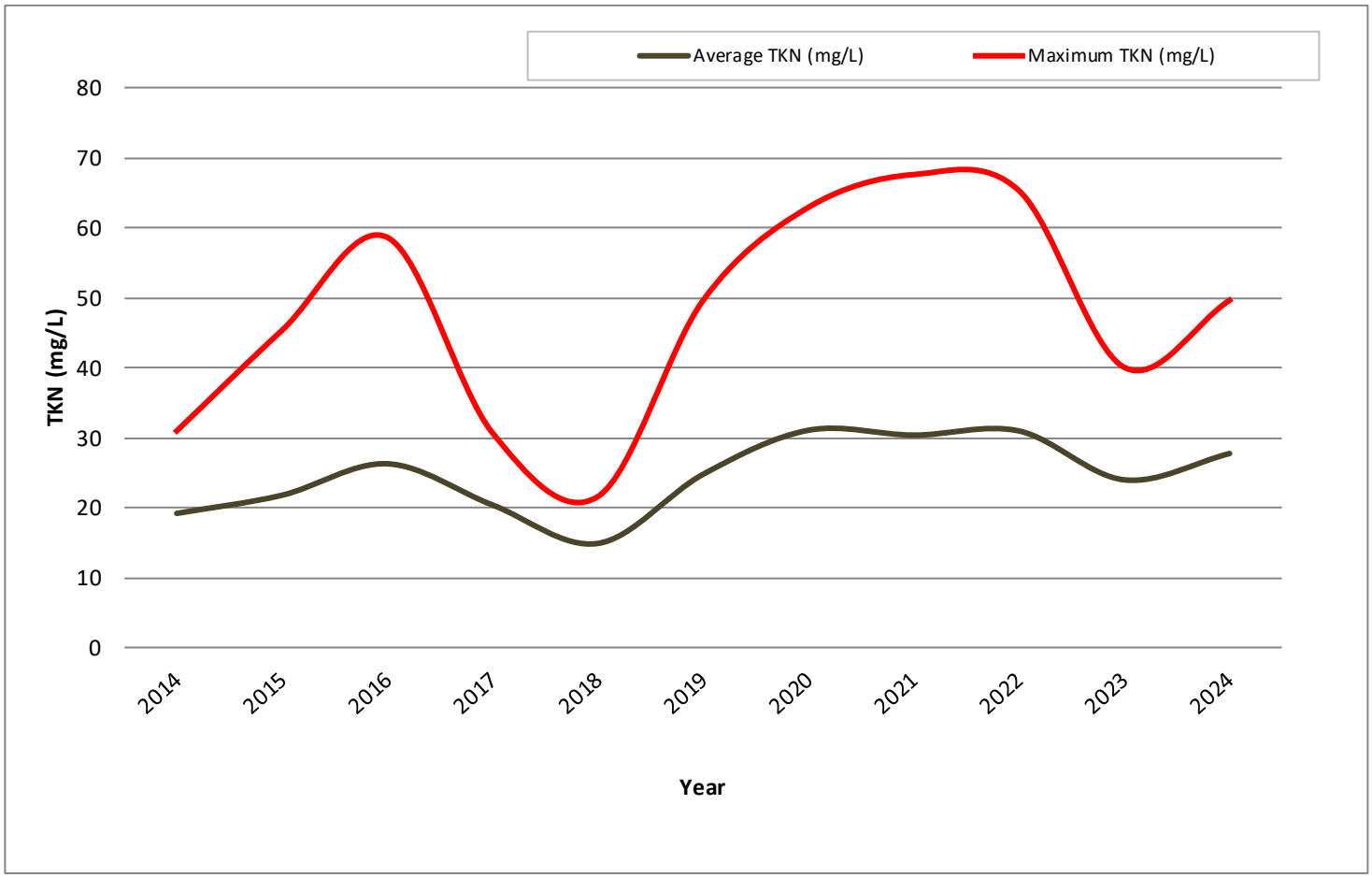
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TP (mg/L)	3.1	3.7	4.1	3.6	3.1	5.0	4.1	4.3	4.9	3.8	3.7
Maximum TP (mg/L)	6.7	11.4	10.6	7.1	4.8	12.5	9.4	10.5	12.5	14.4	7.8



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Goodman) – Historical Results (2014 to 2024)

TKN – Total Kjeldahl Nitrogen

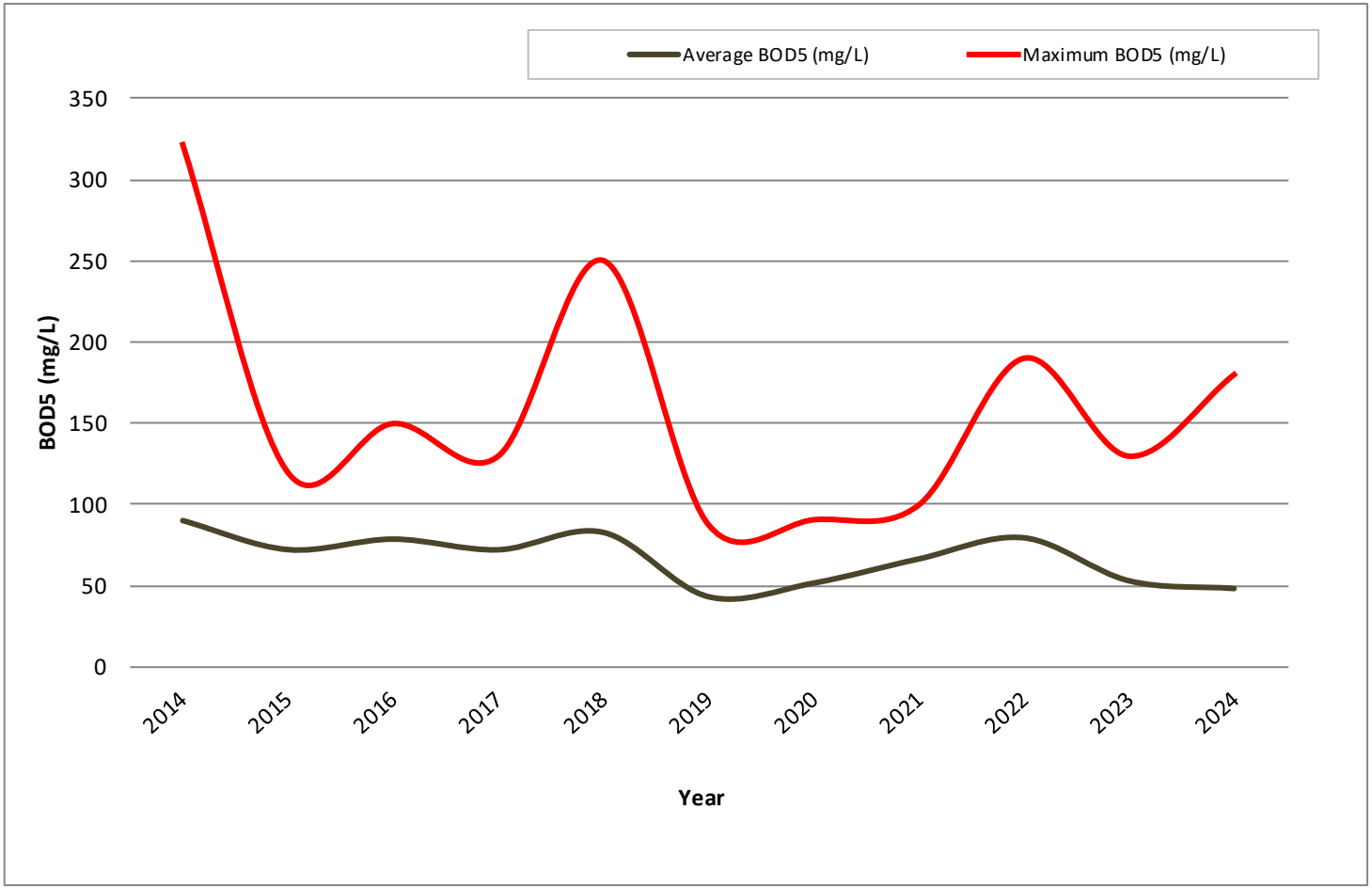
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TKN (mg/L)	19	22	26	20	15	25	31	30	31	24	28
Maximum TKN (mg/L)	31	45	59	31	22	50	63	68	65	40	50



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Niven) – Historical Results (2014 to 2024)

BOD5 – Five Day Biochemical Oxygen Demand

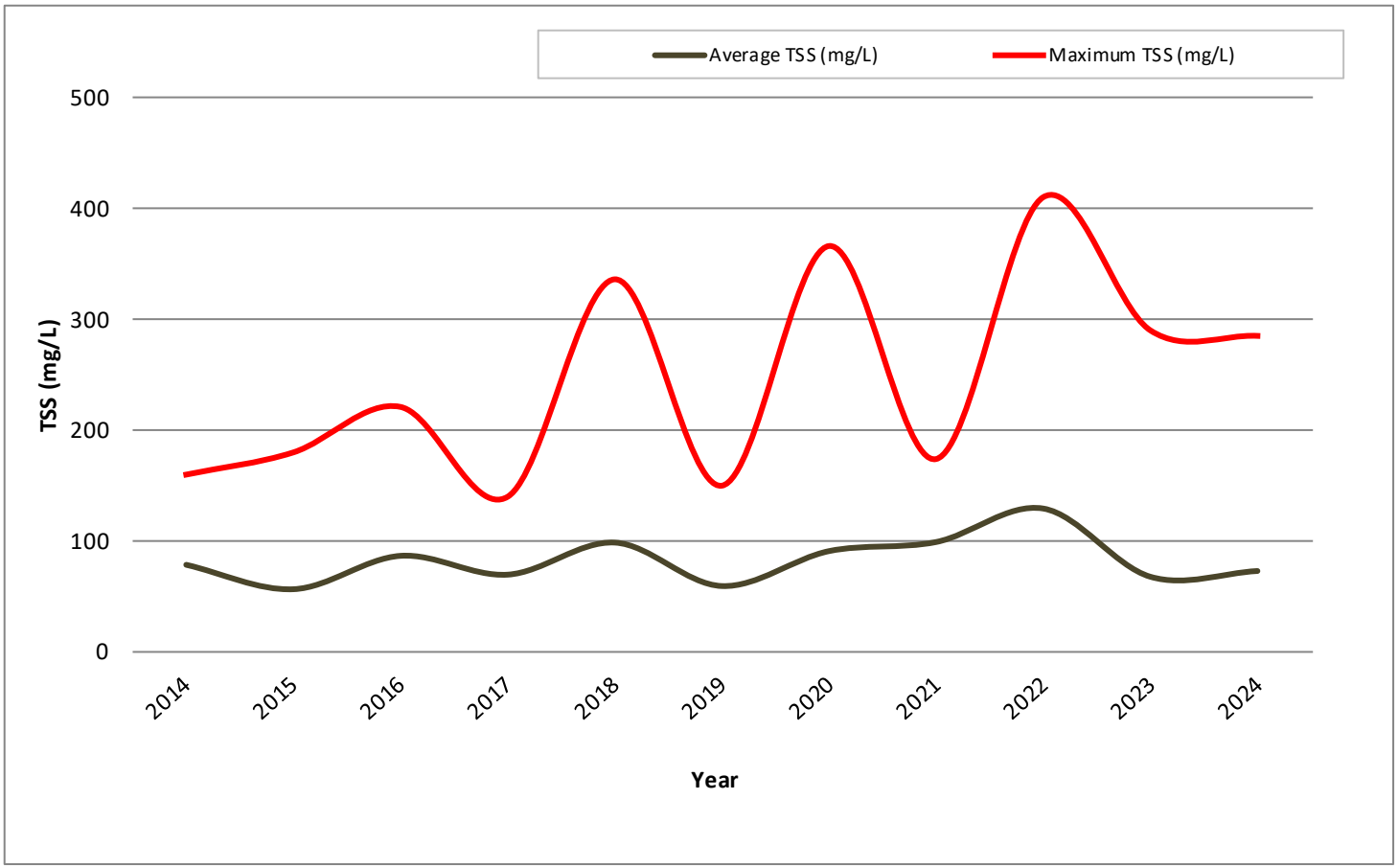
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average BOD5 (mg/L)	90	72	78	72	83	43	52	66	79	53	48
Maximum BOD5 (mg/L)	321	120	150	130	250	88	91	100	190	130	180



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Niven) – Historical Results (2014 to 2024)

TSS – Total Suspended Solids

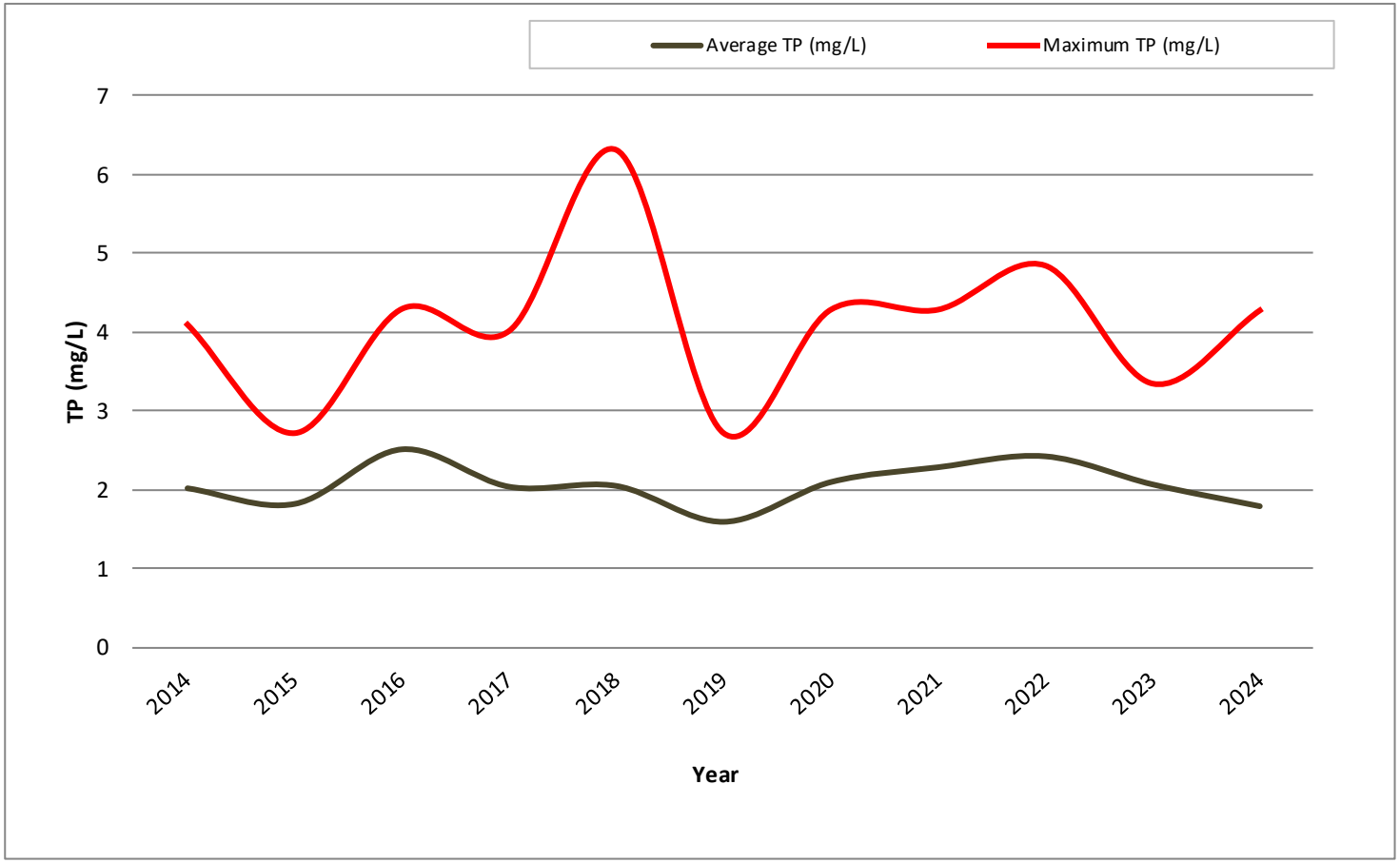
	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TSS (mg/L)	78	56	86	69	98	59	90	99	129	67	72
Maximum TSS (mg/L)	160	180	221	140	336	150	366	174	410	290	285



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Niven) – Historical Results (2014 to 2024)

TP - Total Phosphorus

	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TP (mg/L)	2.0	1.8	2.5	2.0	2.0	1.6	2.1	2.3	2.4	2.1	1.8
Maximum TP (mg/L)	4.1	2.7	4.3	4.0	6.3	2.7	4.3	4.3	4.8	3.3	4.3



New Liskeard Sewage Treatment Lagoon
Influent Characteristics (Niven) – Historical Results (2014 to 2024)

TKN – Total Kjeldahl Nitrogen

	2014	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***
Average TKN (mg/L)	16	15	18	15	14	14	18	19	21	16	15
Maximum TKN (mg/L)	34	26	28	25	27	22	28	27	31	31	35

APPENDIX D
Incident of Non-Compliance

Incident of Non-Compliance

Revised 2014-06-18, Rev. 2

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Facility	New Liskeard Lagoon	**OCWA Org #**	6212
Operator	Danny Regele	**DWS/Works #**	110000515

X Incident of non-compliance ☐ PTTW exceedance ☐ MDWL exceedance ☐ ECA exceedance (check one)

Incident In September 2024, the monthly dissolved oxygen (DO) and temperature testing was not done for Cell D1, D2, A1 and A2. This testing is required under the system's ECA

Date September 2024 **Time**

Legislation ECA No. 5103-CDFJEC, Schedule D

Details

On October 1st, during a review of the September round sheets, it was discovered that the monthly DO and temperature results were not recorded on the annual sheet. Testing was done on Oct. 1st.

Cell D1: DO = 0.26 mg/L, temperature = 17.0 C

Cell D2: DO = 2.22, Temperature = 17.4 C

Cell A1: DO = 0.41 mg/L, temperature = 17.5 C

Cell A2: Do = 1.78 mg/L, temperature = 17.2 C

The operator forgot that that the testing was required each month and results were to be recorded on an annual round sheet.

Resolution 1. DO and temperature testing was done on October 1st and will be done again mid to end of October.

2. A monthly work order was created in OCWA's work place management system (Maximo)

3. The monthly round sheet used by operators each week was updated to include the DO and temperature testing and the annual DO and temperature sheet was revoked.

4. A reminder will be sent to operators via text and email during the second week of each month

Contact: Neil St. Denis – MECP SAC

Date October 1, 2024 **Time** 11:52 AM

Details SAC Event No. 1-BJ20MI

Contact: Greg Ault – MECP District Manager

Date October 1, 2024 **Time** 1:55 PM

Operator Signature: Danny Regele/Ilona Bruneau **Date** October 1, 2024

PCTs	Entered in OPEX	By:
	Entered in Incidents & Events Summary	By:

APPENDIX E
Maintenance Summary

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM
Report End Date: Dec 31, 2024 11:59 PM
Location: 6212*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3709715			6212, New Liskeard Lagoon	OPER	HEALTH AND SAFETY	1	YEARS	OCWA Annual Workplace Inspection (1y) 6212	CLOSE	1/1/24 12:00 AM	2/22/24 07:29 AM	2/22/24 07:29 AM	H&S Inspection -
3709721			6212, New Liskeard Lagoon	PM	HEALTH AND SAFETY	1	YEARS	WHMIS/SDS/NSF Review and Update (1y) 6212	CLOSE	1/1/24 12:00 AM	3/7/24 10:52 AM	3/7/24 10:52 AM	SDS Review & Update - Check for SDS updates. Copy/ organize for operator to take to site.
3710122			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	1/1/24 12:00 AM	1/29/24 03:17 PM	1/29/24 03:17 PM	clean - cleaned and swept up. cleaned out garbage and organized
3712887			6212, New Liskeard Lagoon Niven SPS	PM	Inspection	1	YEARS	ALARM PLANT NIVEN SPS ANNUAL TESTING (1Y) 6212	CLOSE	1/1/24 12:00 AM	4/18/24 02:39 PM	4/18/24 02:39 PM	-Please refer to document attached
3712890			6212, New Liskeard Lagoon Whitewood SPS	PM	Inspection	1	YEARS	ALARM PLANT WHITEWOOD SPS TESTING (1Y) 6212	CLOSE	1/1/24 12:00 AM	4/18/24 02:37 PM	4/18/24 02:37 PM	-Refer to document attached
3712893			6212, New Liskeard Lagoon Montgomery SPS	PM	Inspection	1	YEARS	ALARM PLANT MONTGOMERY SPS ANNUAL TESTING (1Y) 6212	CLOSE	1/1/24 12:00 AM	7/17/24 01:01 PM	7/17/24 01:01 PM	- Please refer to document attached for alarms tested.
3712896			6212, New Liskeard Lagoon Cedar SPS	PM	Inspection	1	YEARS	ALARM PLANT CEDAR ST SPS ANNUAL TESTING (1Y) 6212	COMP	1/1/24 12:00 AM	12/12/24 03:27 PM	12/12/24 03:27 PM	-Shoveled stations and performed critical alarm testing. I have attached the document of the alarms tested.
3712899			6212, New Liskeard Lagoon Goodman SPS	PM	Inspection	1	YEARS	ALARM PLANT GOODMAN SPS ANNUAL TESTING (1Y) 6212	CLOSE	1/1/24 12:00 AM	9/11/24 09:54 AM	9/11/24 09:54 AM	- Please refer to attached document for alarm testing results
3713738	0000115471	BLOWER 01	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Air 01 Service (1y) 6212	CLOSE	1/1/24 12:00 AM	2/26/24 02:50 PM	2/26/24 02:50 PM	check - check belt and add oil
3713751	0000115480	BLOWER 02	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Air 02 Service (1y) 6212	CLOSE	1/1/24 12:00 AM	2/26/24 02:51 PM	2/26/24 02:51 PM	check - check belt and add oil
3713764	0000115481	BLOWER 03	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Air 03 Service (1y) 6212	CLOSE	1/1/24 12:00 AM	2/26/24 02:52 PM	2/26/24 02:52 PM	check - change belt and add oil
3713777	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	1/1/24 12:00 AM	1/30/24 03:18 PM	1/30/24 03:18 PM	monthly test - tested to make sure the chemical pump worked and did a draw down test. 480ml/ min
3713780	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	1/1/24 12:00 AM	1/29/24 02:59 PM	1/29/24 02:59 PM	flush - flush pump

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date:	Jan 1, 2024 12:00 AM
Report End Date:	Dec 31, 2024 11:59 PM
Location:	6212*
Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3713783	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	1/1/24 12:00 AM	1/30/24 03:19 PM	1/30/24 03:19 PM	monthly test - chemical pump 1 worked good during monthly test.
3713786	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	1/1/24 12:00 AM	1/30/24 03:20 PM	1/30/24 03:20 PM	monthly test - Pump #2 ran good during test.
3715238			6212, New Liskeard Lagoon Whitewood SPS	PM	Inspection	1	YEARS	ALARM NEW LISKEARD LAGOON ANUAL TESTING (1Y) 6212	CLOSE	1/1/24 12:00 AM	1/22/24 02:07 PM	1/22/24 02:07 PM	- see file attached
3736424	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	1/1/24 12:00 AM	1/10/24 03:21 PM	1/10/24 03:21 PM	monthly test - tested the generator at gray sps
3737650	0000115895	PUMP SUBMERSIBLE 02 NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible 01 Niven SPS Inspection (1y) 6212	CLOSE	1/1/24 12:00 AM	2/26/24 02:54 PM	2/26/24 02:54 PM	check - check pump for noise and vibration
3737668	0000277394	PUMP SUBMERSIBLE 01 Gray PS 6212	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Inspection 01 Gray Rd PS (1y)	CLOSE	1/1/24 12:00 AM	2/26/24 02:55 PM	2/26/24 02:55 PM	check - check pump for noise and vibration
3737677	0000277395	PUMP SUBMERSIBLE 02 Gray PS 6212	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Inspection 02 GrayRd PS (1y)	CLOSE	1/1/24 12:00 AM	2/26/24 02:56 PM	2/26/24 02:56 PM	check - check pump for noise and vibration
3737686	0000277396	PUMP SUBMERSIBLE 03 Gray PS 6212	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Submersible Inspection 03 Gray Rd PS (1y)	CLOSE	1/1/24 12:00 AM	2/26/24 02:57 PM	2/26/24 02:57 PM	check - check pump for noise and vibration
3758180			6212, New Liskeard Lagoon	OPER	Inspection	1	YEARS	Daily O&M Activities Wastewater Treatment (1y) 6212	CLOSE	1/1/24 12:00 AM	6/8/24 11:08 AM	6/8/24 11:08 AM	
3758185	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	1/1/24 12:00 AM	1/29/24 03:15 PM	1/29/24 03:15 PM	monthly test - ran generator at goodman sps on January 12th
3758201	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	1/1/24 12:00 AM	1/10/24 03:23 PM	1/10/24 03:23 PM	monthly test - tested generator at nl lagoon
3758217	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	1/1/24 12:00 AM	1/10/24 03:24 PM	1/10/24 03:24 PM	monthly test - tested generator at montgomery sps

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Workorder Summary Report

Report Start Date:	Jan 1, 2024 12:00 AM
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Location:	6212*
Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3758233	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	1/1/24 12:00 AM	1/10/24 03:25 PM	1/10/24 03:25 PM	monthly test - tested generator at niven sps
3758249	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	1/1/24 12:00 AM	1/10/24 03:26 PM	1/10/24 03:26 PM	
3758265			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	1/1/24 12:00 AM	1/29/24 03:28 PM	1/29/24 03:28 PM	checked first aid kits and fire extinguishers - made sure all emergency appliances work, first aid, eye wash, shower, ear plugs, ear muffs etc.
3762642			6212, New Liskeard Lagoon Goodman SPS	CAP	Refurbish/ Replace/Repair	0		Replace Faulty Power Supply 6212	CLOSE		2/15/24 09:08 AM	2/15/24 09:08 AM	
3762796			6212, New Liskeard Lagoon	CAP	Compliance	0		New Liskeard Lagoon Chemicals 6212	COMP		1/13/25 01:03 PM	1/13/25 01:03 PM	
3764479			6212, New Liskeard Lagoon Whitewood SPS	CORR	Refurbish/ Replace/Repair	0		Whitewood PS Clean Grease From Wall 6212	CLOSE		1/26/24 08:38 AM	1/26/24 08:38 AM	- Station was having problems with pump staying on and causing a low level alarm. Found lots of grease on wall of station below level transmitter. Get scraper from Station st. ps and use to clean grease off the wall of station below transducer. Give Marc a tour of station and show him Elm, Cedar and Montgomery stations. Return scraper to Station st.
3764950			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		Pump 2 Whitewood Fail 6212	CLOSE		1/29/24 08:08 AM	1/29/24 08:26 AM	Pump 2 Fail - Tried reversing pump but wouldn't reverse found a blown fuse on the control circuit. replaced fuse and as soon as i went to start pump the fuse would blow again. could be a short in the pump or in the wiring will need to investigate further with electrician
3764962			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss Comm Niven SPS 6212	CLOSE		1/27/24 02:00 PM	1/27/24 04:00 PM	Loss Comm Niven -Reset radio at niven and dymond to re establish communication

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Location: 6212*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3767071			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	2/1/24 12:00 AM	2/21/24 03:26 PM	2/21/24 03:26 PM	cleaned - swepted and cleaned floors, took out garbage and put things away
3769589	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	2/1/24 12:00 AM	2/21/24 02:59 PM	2/21/24 02:59 PM	monthly test -monthly test on pump. everything operated in good condition.
3769592	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	2/1/24 12:00 AM	2/16/24 02:25 PM	2/16/24 02:25 PM	monthly test -flushed lines and put back to auto to normal operations
3769595	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	2/1/24 12:00 AM	2/21/24 03:08 PM	2/21/24 03:08 PM	
3769598	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	2/1/24 12:00 AM	2/21/24 03:12 PM	2/21/24 03:12 PM	monthly test - isolated both pumps before testing them. everything in good operating condition
3785842	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	2/1/24 12:00 AM	2/14/24 10:34 AM	2/14/24 10:34 AM	monthly test - ran genset at gray sps
3792044			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Niven Loss of Comm 6212	CLOSE		2/1/24 07:46 AM	2/1/24 07:50 AM	- Called for critical alarm at Niven pump station. Tried to reset radio to no avail. Reset radio at Dymond reservoir to restore communications.
3801854	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	2/1/24 12:00 AM	2/2/24 03:33 PM	2/2/24 03:33 PM	monthly test - ran monthly test on the generator at good sps. recorded data
3801870	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	2/1/24 12:00 AM	2/16/24 02:17 PM	2/16/24 02:17 PM	monthly test - monthly test of the generator at nl lagoon
3801886	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	2/1/24 12:00 AM	2/2/24 03:36 PM	2/2/24 03:36 PM	monthly test - ran monthly test on the generator at Montgomery sps. recorded data
3801902	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	2/1/24 12:00 AM	2/2/24 03:32 PM	2/2/24 03:32 PM	monthly test - ran monthly test on the generator at good sps. and recorded data

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3801918	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	2/1/24 12:00 AM	2/16/24 02:18 PM	2/16/24 02:18 PM	monthly test - ran generator at whitewood sps
3801934			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	2/1/24 12:00 AM	2/21/24 03:21 PM	2/21/24 03:21 PM	health and safety - checked all fire extinguisher's, first aid kits, eye wash stations and showers. everything is good and in working conditions.
3804717			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm at Niven SPS, 6212	CLOSE		2/8/24 06:45 AM	2/8/24 07:00 AM	Loss of Comm at Niven SPS, 6212 - Called in. Logged into SCADA remotely and Niven SPS had loss comm. Drove to site and power cycled RMT. Monitored SCADA remotely and comm was restored.
3805886			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		lost com. niven SPS 6212	CLOSE		2/19/24 11:45 PM	2/20/24 01:00 AM	call for lost com. - lost com. at Niven -Gray SPS and also NL WTP reset radio at Dymond reservoir
3806725			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		Loss comm at Gray SPS 6212	CLOSE		2/24/24 12:00 AM	2/24/24 12:30 AM	Loss comm - Loss of communication at Gray Rd SPS. Arrived on site, unplugged radio to rest and everything came back online.
3807069			6212, New Liskeard Lagoon Goodman SPS	CALL	Refurbish/ Replace/Repair	0		Power Fail Goodman SPS 6212	CLOSE		2/28/24 07:00 AM	2/28/24 09:30 AM	Power Fail - Call from Marc Doyon for minor alarm found that pump 1 was tripped due to power fail reset and put back into service.
3807190			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		Call in for low building temp due to extreme cold at Whitewood	CLOSE		2/28/24 09:09 PM	2/28/24 10:02 PM	
3808845			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	3/1/24 12:00 AM	3/22/24 03:46 PM	3/22/24 03:46 PM	Building and Grounds Maintenance (1m) 6212 NL Lagoon - Cleaned Ferric Chemical Room

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3811786	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 05:27 AM	3/11/24 05:27 AM	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212 - Completed a test: Isolated pump and sight glass by closing the valve to the tank. and completed draw down test with water. visually inspected pump during draw down. ok visually checked hypo tank. ok no calcium hypochlorite puck on hand. Will stock up. return to hypo system back to normal operation Draw down approx. 223.06 mL per min
3811789	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 06:21 AM	3/11/24 06:21 AM	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212 - Hot flushed both pumps
3811792	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 06:07 AM	3/11/24 06:07 AM	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212 -
3811795	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 06:08 AM	3/11/24 06:08 AM	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212 - Isolated pump and sight glass by closing valve to hypo tank completed a draw down test and running check. draw down approx. 200 mL per min
3823104	0000277317	ANALYZER PH Lagoon Effluent	6212, New Liskeard Lagoon	PM	Inspection	3	MONTHS	ANALYZER PH PORTABLE LAGOON CALIBRATION (3M) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 09:01 AM	3/11/24 09:01 AM	-Made fresh buffers and soaked probe in 4.00 to clean probe. Calibrated meter using 4.00 pH and 7.00 pH buffer solutions as per manufactures instructions.
3835310			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm Gray Pumping Station - Reset Required	CLOSE		3/1/24 06:07 AM	3/1/24 06:23 AM	

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3829445	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 06:23 AM	3/11/24 06:23 AM	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212 - Completed genset test: checked oil, coolant, block heater and fuel no faults displayed recorded running values on sheet.
3846092	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	3/1/24 12:00 AM	3/18/24 07:29 AM	3/18/24 07:29 AM	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212 - Completed genset test: checked fuel, coolant, block heater and oil. no faults displayed recorded running values on sheet
3846108	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 05:36 AM	3/11/24 05:36 AM	Generator Inspection/Functional Test NL Lagoon (1m) 6212 - Completed genset test: checked fuel, coolant, block heater, and oil. no faults displayed recorded running values on sheet
3846124	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 05:38 AM	3/11/24 05:38 AM	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212 - Completed genset test: checked fuel, coolant, block heater, and oil. no faults displayed recorded running values on sheet

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3846140	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	3/1/24 12:00 AM	3/18/24 07:28 AM	3/18/24 07:28 AM	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212 - Completed genset test: checked fuel, oil, coolant and block heater no faults displayed recorded running values on sheet
3846156	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	3/1/24 12:00 AM	3/11/24 05:39 AM	3/11/24 05:39 AM	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212 - Completed genset test: checked fuel, coolant, block heater, and oil. no faults displayed recorded running values on sheet
3846172			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	3/1/24 12:00 AM	3/22/24 03:42 PM	3/22/24 03:42 PM	Health And Safety Inspection (1m) 6212 - Checked fire extinguishers, first aid kits Checked lock/out tag out All eyewash stations are expired, will notify Bryce.
3848608			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm Gray Rd. PS 6212	CLOSE		3/10/24 05:06 PM	3/10/24 05:09 PM	- Respond to loss of comm, critical alarm. Reset radio to restore comms.
3848772			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Niven Loss of Comm 6212	CLOSE		3/11/24 07:46 AM	3/11/24 07:51 AM	- Called for critical alarm due to loss of comm. Reset radio to restore comms.
3849430			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		lost com. niven SPS 6212	CLOSE		3/14/24 04:30 PM	3/14/24 05:30 PM	call for lost com. - reset radio on site
3850424			6212, New Liskeard Lagoon	CAP	Refurbish/ Replace/Repair	0		Blower Belts and Chemical Feed Line 6212	CLOSE		4/19/24 08:13 AM	4/19/24 08:13 AM	

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3850452			6212, New Liskeard Lagoon Montgomery SPS	CAP	Refurbish/ Replace/Repair	0		Montgomery SPS Intrusion System 6212	CLOSE		5/24/24 03:19 PM	5/24/24 03:19 PM	-installed and commissioned new intrusion system
3850459			6212, New Liskeard Lagoon	CAP	Refurbish/ Replace/Repair	0		NL Lagoon Intrusion System 6212	CLOSE		5/24/24 03:23 PM	5/24/24 03:23 PM	-Installed and commissioned new intrusion system
3851310			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss Comm Niven SPS 6212	CLOSE		3/26/24 10:00 PM	3/26/24 11:45 PM	Loss Comm Niven SPS -had to reset Radio at Niven SPS and Dymond Res to re Establish Communications
3851311			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loos Comm Niven, Gray, NL WTP 6212	CLOSE		3/27/24 04:45 AM	3/27/24 07:15 AM	Loss Comm Niven, Gray, NL WTP - reset Radio in Dymond, and then had to reset radio for Gray SPS to re establish all communications
3853467			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	4/1/24 12:00 AM	4/30/24 11:37 AM	4/30/24 11:37 AM	Cleaned -Swept all pump stations and removed garbage.
3856891	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	4/1/24 12:00 AM	4/12/24 07:29 AM	4/12/24 07:29 AM	Checked - Checked hypo tank. Ok Checked hypo pump. Ok
3856894	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	4/1/24 12:00 AM	4/29/24 02:50 PM	4/29/24 02:50 PM	Flushed -Flushed ferric pump with water. Pump ok
3856897	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	4/1/24 12:00 AM	4/12/24 07:31 AM	4/12/24 07:31 AM	Checked - Checked hypo tank. Ok Checked pump. Ok
3856900	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	4/1/24 12:00 AM	4/12/24 07:38 AM	4/12/24 07:38 AM	Checked - Checked hypo tank. Ok Checked hypo pump. Ok
3876158			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss Comm Niven SPS 6212	CLOSE		4/1/24 06:34 AM	4/1/24 06:37 AM	Loss Comm Niven SPS -Had to reset radio at Niven SPS and Dympnd reservoir to re establish Communication

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3877400	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	4/1/24 12:00 AM	4/3/24 02:39 PM	4/3/24 02:39 PM	Checked and ran - Checked oil, coolant, block heater and fuel level before starting. Recorded run hours before running. Ran generator on test mode for approximately 30 minutes. Checked generator for abnormal leaks, noises or vibrations. Everything ok. Recorded numbers as per the sheet.
3898698	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	4/1/24 12:00 AM	4/19/24 03:04 PM	4/19/24 03:04 PM	Checked and ran - Checked oil, coolant, block heater and fuel level. Recorded hours before running. Ran on test for approximately 45 minutes. Recorded numbers as per the sheet. No abnormal noises, vibrations or leaks detected.
3898714	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	4/1/24 12:00 AM	4/5/24 01:28 PM	4/5/24 01:28 PM	Checked and ran - Checked oil, block heater, coolant and fuel level before running. Recorded hours before running. Ran on test mode for approximately 45 minutes. Checked generator for any abnormal leaks, noises or vibrations. None detected. Everything ok. Recorded hours after running.

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Work Order Class:	

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3898730	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	4/1/24 12:00 AM	4/3/24 02:45 PM	4/3/24 02:45 PM	Checked and ran - Checked oil, coolant, block heater and fuel level before running. Recorded hours before running. Ran generator on test mode for approximately 30 minutes. Checked generator for any abnormal leaks, noises or vibrations. None detected, everything ok. Recorded numbers as per the sheet.
3898746	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	4/1/24 12:00 AM	4/12/24 07:27 AM	4/12/24 07:27 AM	Checked and ran - Checked oil, coolant, block heater and fuel level before running. Recorded hours before running. Ran generator on test for approximately 1 hour. Checked generator for any abnormal noises, leaks or vibrations. None detected. Recorded numbers as per the sheet
3898762	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	4/1/24 12:00 AM	4/3/24 02:41 PM	4/3/24 02:41 PM	Checked and ran - Checked oil, coolant, block heater and fuel level before running. Recorded hours before running. Ran generator on test mode for approximately 30 minutes. Checked generator for any abnormal leaks, noises or vibrations. None detected, everything ok. Recorded numbers as per the sheet
3898778			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	4/1/24 12:00 AM	4/26/24 02:58 PM	4/26/24 02:58 PM	Checked and signed - Checked all fire extinguishers and signed as i went to sites. Ok Checked eye wash stations. Ok Checked showers. Ok Checked emergency lights. Ok

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3898789	0000277330	TANK WET WELL CEDAR SPS	6212, New Liskeard Lagoon Cedar SPS	PM	Refurbish/ Replace/Repair	6	MONTHS	Wetwell Inspection Cedar SPS (6m) 6212	CLOSE	4/1/24 12:00 AM	4/30/24 07:55 AM	4/30/24 07:55 AM	Cleaned -Wet well was cleaned out by Danny and Cassie on April 17th during the time that grit channels were done.
3900253			6212, New Liskeard Lagoon	CALL	Refurbish/ Replace/Repair	0		NL lagoon abnormal sampling 6212	CLOSE		4/6/24 08:35 AM	4/6/24 09:30 AM	high flow abnormal samplig - took sample due to high raw flow
3900254			6212, New Liskeard Lagoon	CALL	Refurbish/ Replace/Repair	0		NL lagoon abnormal sampling 6212	CLOSE		4/7/24 08:30 AM	4/7/24 09:30 AM	abnormal samplig - due to high raw flow eff abnormal samplig
3900539			6212, New Liskeard Lagoon Elm SPS	CAP	Refurbish/ Replace/Repair	0		Elm SPS Overflow Pup Return Hose 6212	CLOSE		5/28/24 01:06 PM	5/28/24 01:06 PM	
3901592			6212, New Liskeard Lagoon Elm SPS	CAP	Refurbish/ Replace/Repair	0		Tem Shores Rain Event 6212,5726,5728	CLOSE		5/3/24 09:20 AM	5/3/24 09:20 AM	Tem Shores Rain Event 6212,5726,5728 - On site at Whitewood SPS, Elm SPS, Montgomery SPS; Niven SPS for emergency overflow. Monitored levels at SPS. Started overflow pumps at Elm and Montgomery and checked site approx. every hour. Sampled as per ECA and chlorinated. Overflows at all SPS -Start Elm Pump for Overflow, Re start Montgomery SPS gas pump, cal for hi level at brewster, pump tripped, monitor diesel and gas pumps, and fill up as needed. Elm pump failed due to low DEF level had to get city to bring more DEF.
3902500			6212, New Liskeard Lagoon Whitewood SPS	CAP	Refurbish/ Replace/Repair	0		Install New Pump #2 pump at Whitewood SPS 6212	CLOSE		5/10/24 09:20 AM	5/10/24 09:20 AM	pump install - replace #2 pump with new one
3903773			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss comm at Niven SPS 6212	CLOSE		4/26/24 06:37 AM	4/26/24 06:39 AM	Loss of comm - Call for critical alarm. Checked SCADA remotely. Loss of comm. Drove to site and reset radio. Communication returned back online.

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3904610			6212, New Liskeard Lagoon Whitewood SPS	CAP	Refurbish/ Replace/Repair	0		Replace Failed #2 pump at Whitewood SPS	CLOSE		5/10/24 09:59 AM	5/10/24 09:59 AM	
3906167			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	5/1/24 12:00 AM	5/21/24 03:08 PM	5/21/24 03:08 PM	Cut grass - Whipper snipped Montgomery SPS. Cleaned - Swept floors. Removed garbage if needed.
3908997	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	5/1/24 12:00 AM	5/6/24 02:19 PM	5/6/24 02:19 PM	Checked -Plugged pump into outlet that worked without a bypass. Pump operating properly. Plugged back into outlet for the chemical pump. Tank is full of chlorinated water.
3909000	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	5/1/24 12:00 AM	5/13/24 02:08 PM	5/13/24 02:08 PM	Flushed - Shut valve from ferric tank to ferric pump. Flushed water through the pump until lines were clear. Shut off flow from the water and opened valve to the ferric tank. Pumped ferric back into the line and everything ok.
3909003	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	5/1/24 12:00 AM	5/14/24 02:47 PM	5/14/24 02:47 PM	Flushed - Shut valve off to hypo tank. Put water in drawdown tube and flushed pumps manually. Everything operating as it should and no leaks detected. Put pumps back into normal operating mode and opened valve back up to tank.

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3909006	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	5/1/24 12:00 AM	5/14/24 02:49 PM	5/14/24 02:49 PM	Flushed - Shut valve off to hypo tank. Put water in drawdown tube and opened valve. Everything operating as it should and no leaks detected. Put pumps back into normal operating mode and opened valve back up to tank.
3928314	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	5/1/24 12:00 AM	5/2/24 02:25 PM	5/2/24 02:25 PM	Checked and ran - Checked oil, coolant and fuel level. Recorded hours before running. Ran on test mode. No abnormal noises, leaks or vibrations detected. Recorded numbers as per the sheet. Everything transferred back as it should.
3946519	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	5/1/24 12:00 AM	5/2/24 02:28 PM	5/2/24 02:28 PM	Checked and ran - Checked oil, coolant, block heater and fuel level. Recorded hours before running. Ran on test mode. No abnormal noises, leaks or vibrations detected. Recorded numbers as per the sheet. Everything transferred over as it should and operating normally.
3946535	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	5/1/24 12:00 AM	5/16/24 02:09 PM	5/16/24 02:09 PM	Checked and ran - Checked oil, coolant, fuel level and block heater. Recorded hours before running. Ran on test mode. Recorded numbers as per the sheet. No abnormal noises, leaks or vibrations detected. Recorded hours after running.

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3946551	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	5/1/24 12:00 AM	5/10/24 02:14 PM	5/10/24 02:14 PM	Checked and ran - Checked oil, coolant, fuel level, and block heater. Recorded hours before running. Ran on test mode. Recorded numbers as per the sheet. No abnormal noises, leaks or vibrations detected. Recorded hours after running.
3946567	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	5/1/24 12:00 AM	5/14/24 02:45 PM	5/14/24 02:45 PM	Checked and ran - Checked oil, coolant, block heater and fuel level. Recorded hours before running. Ran on test mode. Recorded numbers as per the sheet. No abnormal noises, leaks or vibrations detected. Recorded hours after running.
3946583	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	5/1/24 12:00 AM	5/10/24 02:13 PM	5/10/24 02:13 PM	Checked and ran - Checked oil, coolant, fuel level and block heater. Recorded hours before running. Ran on test mode. Recorded numbers as per the sheet. No abnormal noises, leaks or vibrations detected. Recorded hours after running.
3946599			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	5/1/24 12:00 AM	5/27/24 02:16 PM	5/27/24 02:16 PM	Checked and signed - Checked all fire extinguishers, eyewash stations and emergency lights. Signed off on all fire extinguisher. All ok. Took note of extinguishers that are needing maintenance. Tested eyewash stations. Ok All emergency lights working.

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3947235			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Niven Loss of Comm 6212	CLOSE		5/2/24 01:19 PM	5/2/24 01:23 PM	- Respond to critical alarm. Reset radio
3951038			6212, New Liskeard Lagoon	CAP	Compliance	0		Abnormal Sampling Alarm 6212/5726	CLOSE		6/17/24 01:43 PM	6/17/24 01:43 PM	
3951690			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Niven PS Power Outage 6212	CLOSE		5/24/24 08:55 AM	5/24/24 09:01 AM	- Arrive at site of tree down over power lines to talk to hydro and see how long they figure the power will be out. Check fuel supply at Niven PS and check diesel operation. Check voltages and start pump to check currents. OK Check Whitewood ps to see if everything is OK. Monitor system for the evening. Call Steve and let him know what's going on.
3951691			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		Power Outage Pump Reset at Gray PS 6212	CLOSE		5/24/24 09:01 AM	5/24/24 09:07 AM	- Called for Goodman but it reset OK. Called to Gray PS to reset no1 pump which tripped during power restore. Pump would not reset with scada. Reset pump and check station operation, everything seems OK. Found internet for EWON was out. Reset internet at Haileybury plant to allow monitoring of system.
3954380			6212, New Liskeard Lagoon	PM	Compliance	1	YEARS	Facility Emergency Plan Review (1y) 6212	CLOSE	6/1/24 12:00 AM	9/13/24 03:16 PM	9/13/24 03:16 PM	Facility Emergency Plan Review (1y) 6212 - Reviewed and updated the FEP binder, Lagoon O&M and Collection System O&M.
3954609			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	6/1/24 12:00 AM	6/28/24 12:45 PM	6/28/24 12:45 PM	Building and Grounds Maintenance (1m) 6212 -

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3957330	0000060258	METER LEVEL WETWELL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Calibration	1	YEARS	Meter Level Wet Well Whitewood SPS Inspection/Service (1y) 6212	CLOSE	6/1/24 12:00 AM	6/20/24 08:26 AM	6/20/24 08:26 AM	- Transducer face is 2780 mm below top of hatch lip. Verified calibration by taking a physical measurement from hatch to water level and comparing to a distance shot reading. Water level is slightly turbulent. Verified O.K.
3957335	0000076664	METER LEVEL 01 WETWELL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Calibration	1	YEARS	Meter Level 01 Wet Well Goodman SPS Inspection/Service (1y) 6212	CLOSE	6/1/24 12:00 AM	6/7/24 08:57 AM	6/7/24 08:57 AM	- Transducer face is 544 mm below top metal grating. Verified calibration by taking a physical measurement from liquid level to top of floor grating and comparing to meter reading. Liquid surface on this side is turbulent.
3957340	0000076665	METER LEVEL 02 WETWELL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Calibration	1	YEARS	Meter Level 02 Wet Well Goodman SPS Inspection/Service (1y) 6212	CLOSE	6/1/24 12:00 AM	6/7/24 09:08 AM	6/7/24 09:08 AM	- Transducer face is mounted 543 mm below floor grating. Verified calibration by taking a physical measurement from liquid level to top of floor grating and comparing that to the reading on the level transmitter.
3957345	0000115513	METER LEVEL WETWELL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Calibration	1	YEARS	Meter Level Wet Well Niven SPS Inspection/Service (1y) 6212	CLOSE	6/1/24 12:00 AM	6/8/24 10:41 AM	6/8/24 10:41 AM	- Milltronics transducer face is 128 mm below the floor. Verified calibration with a tape measure from floor to water level at number two pump hatch.

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3957350	0000277327	METER LEVEL WETWELL CEDAR SPS	6212, New Liskeard Lagoon Cedar SPS	PM	Calibration	1	YEARS	Meter Level Wet Well Cedar SPS Inspection/Service (1y) 6212	CLOSE	6/1/24 12:00 AM	6/18/24 02:05 PM	6/18/24 02:05 PM	Meter Level Wet Well Cedar SPS Inspection/Service (1y) 6212 - Pressure washed with hot water the wetwell. Visually inspected. ok - Benchmark, Transducer head is 556mm above floor grating. Grate to hatch lip = 3313mm. 3313 - 556 = 2757mm. Verified calibration by taking a physical measurement from hatch lip to liquid level and comparing to meter reading. Transducer face might be getting a bit dirty due to the station being without power half the time because of a faulty UPS. Replaced UPS. Will require a confined space entry to clean.
3957355	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	6/1/24 12:00 AM	6/13/24 03:29 PM	6/13/24 03:29 PM	flush - flush and check to make Shure it is pumping
3957360	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	6/1/24 12:00 AM	6/13/24 03:25 PM	6/13/24 03:25 PM	flush - hot flush pump
3957363	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	6/1/24 12:00 AM	6/11/24 08:15 AM	6/11/24 08:15 AM	test - test pump and add cl2 puck to tank
3957366	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	6/1/24 12:00 AM	6/11/24 08:16 AM	6/11/24 08:16 AM	test - test pump and add cl2 puck to tank
3957369	0000115899	SAMPLER EFFLUENT LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Effluent Lagoon Inspection (1y) 6212	CLOSE	6/1/24 12:00 AM	6/20/24 01:41 PM	6/20/24 01:41 PM	- Inspect sampler operation. Replace peristaltic pump hose and verify calibration of sample. Take a manual sample to verify. OK.

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3957378	0000115924	SAMPLER RAW GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Raw Goodman SPS Inspection (1y) 6212	CLOSE	6/1/24 12:00 AM	6/20/24 08:59 AM	6/20/24 08:59 AM	
3957387	0000115396	METER FLOW RAW WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Calibration	1	YEARS	Meter Flow Raw Whitewood SPS Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	9/26/24 09:09 AM	9/26/24 09:09 AM	Flow Meter out of service Client not replacing -
3957393	0000115395	METER FLOW WHITEWOOD SPS BYPASS	6212, New Liskeard Lagoon Whitewood SPS	PM	Calibration	1	YEARS	Meter Flow Bypass Whitewood SPS Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	6/20/24 09:27 AM	6/20/24 09:27 AM	- Flowmeter cannot be tested without causing a bypass event. Flowmeter did register 29.73 m3 at 236.31 m3/d on April 12 during a storm and bypass situation.
3957399	0000293629	METER FLOW NIVEN SPS BYPASS	6212, New Liskeard Lagoon Niven SPS	PM	Calibration	1	YEARS	Meter Flow Bypass Niven SPS Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	6/7/24 10:04 AM	6/7/24 10:04 AM	- Verified calibration by comparing ultrasonic measuring head value and actual measurements to a tape measured standard. Parshall Flume FP mod 500168 ser 10F1940. Tested alarm call out and automatic chem pump operation. OK. Washed down flume and channel.
3957405	0000076666	METER FLOW RAW GOODMAN	6212, New Liskeard Lagoon Goodman SPS	PM	Calibration	1	YEARS	Meter Flow Raw Goodman SPS Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	6/18/24 07:48 AM	6/18/24 07:48 AM	
3957411	0000076724	METER FLOW RAW NEW LISKEARD	6212, New Liskeard Lagoon, Process	PM	Calibration	1	YEARS	Meter Flow Niven SPS Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	6/7/24 10:19 AM	6/7/24 10:19 AM	- Verified calibration by comparing flow reading on Transit Time portable flowmeter to actual value displayed on meter as per manufactures instructions. Ran pump no. 3 in Manual for a constant flow. Verified reading on HMI. Pipe is 14" SS 316 sch 10.
3959389	0000293603	PRESSURE TRANSMITTER BLOWER AERATION	6212, New Liskeard Lagoon, Process	PM	Predictive Maintenance	1	YEARS	TRANSMITTER PRESSURE LAGOON AERATION - ANNUAL CALIBRATION (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/12/24 01:38 PM	6/12/24 01:38 PM	-Calibrated transmitter by applying pressure to input and measuring mA output as per manufactures instructions. Verified calibration with HMI. No calibration was necessary at this time.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3965014	0000277321	TRANSMITTER	6212, New Liskeard Lagoon Montgomery SPS	PM	Calibration	1	YEARS	METER LEVEL WET WELL MONTG. SPS INSPECTION (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/14/24 08:21 AM	6/14/24 08:21 AM	- Transducer head benchmark, 3490 to floor - transducer face is 946 mm above floor = 2544 mm from transducer face to hatch lip. Verified calibration by taking a physical measurement from hatch lip to liquid level and comparing to a distance shot from level transmitter. - Verified LOE alarm on LIT
3965110	0000293601	DATALOGGER LAGOON PROCESS	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	YEARS	DATALOGGER LAGGON CALIBRATION (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/11/24 03:32 PM	6/11/24 03:32 PM	- Verified calibration of all channels by comparing Datalogger display value to the desired display value generated by loop calibrator at 0, 25, 50, 75 and 100 %.
3969905	0000277317	ANALYZER PH Lagoon Effluent	6212, New Liskeard Lagoon	PM	Inspection	3	MONTHS	ANALYZER PH PORTABLE LAGOON CALIBRATION (3M) 6212	CLOSE	6/1/24 12:00 AM	6/18/24 07:57 AM	6/18/24 07:57 AM	- Made fresh buffers and soaked probe in 4.00 to clean probe. Calibrated meter using 4.00 pH and 7.00 pH buffer solutions as per manufactures instructions.
3975128	0000076767	ANALYZER DO PORTABLE LAGOON	6212, New Liskeard Lagoon, Facility	PM	Inspection	1	YEARS	ANALYZER DO LAGOON CALIB / VERIF. (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/20/24 01:39 PM	6/20/24 01:39 PM	- Calibrated meter by performing the Water-Saturated Air (100%) procedure as described by the manufacturer. Verified calibration O.K.
3975233	0000293311	RECORDER DATA LOGGER NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Calibration	1	YEARS	DATALOGGER NIVEN SPS CALIB / VERIF. (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/8/24 11:04 AM	6/8/24 11:04 AM	- Verified calibration of all channels by comparing Datalogger display value to the desired display value generated at 0,25,50,75 and 100 % by loop calibrator.

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3975235	0000293313	RECORDER DATA LOGGER MONTGMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Calibration	1	YEARS	DATALOGGER MONTG. SPS CALIBRATION (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/14/24 08:29 AM	6/14/24 08:29 AM	- Verified calibration of all channels by comparing Datalogger display value to the desired display value generated at 0,25,50,75 and 100%. - Verified UPS operation
3975237	0000293314	RECORDER DATA LOGGER WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Calibration	1	YEARS	DATALOGGER WWSPS CALIBRATION (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/20/24 08:46 AM	6/20/24 08:46 AM	- Verified calibration of all channels by comparing Datalogger display value to the corresponding mA value at 0, 25, 50, 75 and 100%. Calibration verified on all channels O.K.
3975245	0000293317	RECORDER DATA LOGGER CEDAR ST SPS	6212, New Liskeard Lagoon Cedar SPS	PM	Calibration	1	YEARS	DATALOGGER CEDAR SPS CALIBRATION (1Y) 6211	CLOSE	6/1/24 12:00 AM	6/14/24 08:43 AM	6/14/24 08:43 AM	- Found no power at station. Reset UPS and station power was restored. Changed ports on the switch to restore radio comms as well. Still seems to be working this morning. Verified calibration of all channels by comparing Datalogger display value to the desired display value generated by loop calibrator at 0, 25, 50, 75 and 100 %.
3975247	0000293316	RECORDER DATA LOGGER GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Calibration	1	YEARS	DATALOGGER GOODMAN SPS CALIBRATION (1Y) 6211	CLOSE	6/1/24 12:00 AM	6/20/24 08:58 AM	6/20/24 08:58 AM	- Verified calibration of all channels by comparing Datalogger display value to the desired display value generated by loop calibrator at 0,25,50,75 and 100 %. Calibration on all channels verified O.K.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3975321	0000293320	METER FLOW RAW GRAY SPS	6212, New Liskeard Lagoon Gray SPS	PM	Calibration	1	YEARS	Meter Flow Gray SPS Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	6/18/24 09:32 AM	6/18/24 09:32 AM	Meter Flow Gray SPS Calibration (1y) 6212 - Verified calibration by comparing flow reading on Transit Time portable flowmeter to actual value displayed on meter as per manufactures instructions. User 1.02, pipe is 18" SS 316. Confined space entry required.
3975360	0000293318	TRANSMITTER LEVEL WET WELL 01 GRAY SPS	6212, New Liskeard Lagoon Gray SPS	PM	Inspection	1	YEARS	L.I.T. WET WELL 01 CALIBRATION/VERIF. (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/12/24 08:19 AM	6/12/24 08:19 AM	- Milltronics transducer face is 301 mm below top of metal grating. Verified calibration by taking a physical measurement from metal grate to liquid level, subtracting distance from transducer face to grate and comparing to meter distance shot reading. Confined space entry is required.
3975363	0000293319	TRANSMITTER LEVEL WET WELL 02 GRAY SPS	6212, New Liskeard Lagoon Gray SPS	PM	Inspection	1	YEARS	L.I.T. WET WELL 02 CALIBRATION/VERIF. (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/12/24 08:31 AM	6/12/24 08:31 AM	- Milltronics transducer face is 313mm below top of metal grating. Verified calibration by taking a physical measurement from grate to liquid level, subtracting 313mm and comparing to meter distance shot reading. Confined space entry is required.
3976717	0000293613	METER FLOW EFFLUENT LAGOON	6212, New Liskeard Lagoon	PM	Calibration	1	YEARS	Meter Flow Effluent Liskeard Lagoon Calibration (1y) 6212	CLOSE	6/1/24 12:00 AM	6/11/24 03:50 PM	6/11/24 03:50 PM	-Verified calibration by comparing ultrasonic measuring head "distance" value and actual measurement in inches from transducer face to liquid level with tape measure.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3976754	0000293615	RECORDER DATA LOGGER GRAY RD SPS	6212, New Liskeard Lagoon Gray SPS	PM	Calibration	1	YEARS	RECORDER DATALOGGER GRAY RD SPS (1Y) 6212	CLOSE	6/1/24 12:00 AM	7/17/24 01:18 PM	7/17/24 01:18 PM	- Verified calibration of all channels by comparing Datalogger display value to the desired display value generated by Fluke process meter at 0, 25, 50, 75 and 100 %. Calibration verified O.K.
3977886	0000293327	METER LEVEL WET WELL ELM ST SPS	6212, New Liskeard Lagoon Elm SPS	PM	Calibration	1	YEARS	Meter Level Wet Well Elm St Verification/Calibration (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/18/24 01:43 PM	6/18/24 01:43 PM	- Benchmark, probe tip is 6745 mm below lower hatch lip. Measured from hatch lip to liquid level and compared to level transmitter reading. Probe tip is 6170 mm to bottom tie wrap sitting on top of conduit. Conduit top is 575 mm below hatch lip = 6745 mm. Tipped floats and verified pump operation and alarms. Replaced UPS as it was failing.
3977888	0000293326	RECORDER DATA LOGGER ELM ST SPS	6212, New Liskeard Lagoon Elm SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Recorder Datalogger Elm St SPS Verification/Calibration (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/18/24 01:53 PM	6/18/24 01:53 PM	- Verified calibration of channel by comparing Datalogger display value to the desired display value generated by loop calibrator at 0,25,50,75 and 100 %.
3977972	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	6/1/24 12:00 AM	6/14/24 10:32 AM	6/14/24 10:32 AM	
3978059	0000293360	TRANSMITTER PRESSURE DISCHARGE	6212, New Liskeard Lagoon Gray SPS	PM	Calibration	1	YEARS	Transmitter Pressure Discharge Gray Rd Calibration (1Y) 6212	CLOSE	6/1/24 12:00 AM	6/11/24 03:46 PM	6/11/24 03:46 PM	- Calibrated transmitter by applying pressure to input and measuring mA output as per manufactures instructions. Verified calibration with HMI. No calibration was necessary at this time.
3996170	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	6/1/24 12:00 AM	6/13/24 03:36 PM	6/13/24 03:36 PM	ran - ran and record value on sheet

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3996186	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	6/1/24 12:00 AM	6/14/24 10:33 AM	6/14/24 10:33 AM	ran - ran and recorded value on sheet
3996202	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	6/1/24 12:00 AM	6/25/24 07:04 AM	6/25/24 07:04 AM	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212 - Ran generator and filled out sheet. Found no issues.
3996218	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	6/1/24 12:00 AM	6/25/24 07:03 AM	6/25/24 07:03 AM	
3996234	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	6/1/24 12:00 AM	6/25/24 07:02 AM	6/25/24 07:02 AM	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212 -PM was done by contractors while they were performing load testing
3996250			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	6/1/24 12:00 AM	6/28/24 12:45 PM	6/28/24 12:45 PM	Health And Safety Inspection (1m) 6212 -
3997812			6212, New Liskeard Lagoon	CALL	Refurbish/ Replace/Repair	0		Blower Lockout at NL Lagoon due to Power Fail 6212	CLOSE		6/8/24 09:10 AM	6/8/24 09:14 AM	Blower Lockout - Call for New Liskeard lagoon. Logged in remotely and seen blower #3 was faulted and locked out. Also noticed Goodman SPS generator was running. Arrived at the lagoon, generator was running, and reset breaker for blower #3. Checked fuel level for the lagoon generator and it was about 7/8 full. Drove to Goodman to check generator fuel level and it was at 81%.
3999310			6212, New Liskeard Lagoon	CALL	Refurbish/ Replace/Repair	0		lost com. NL lagoon 6212	CLOSE		6/13/24 05:30 PM	6/13/24 06:45 PM	call for lost com.due to storm - due to heavy rain and win antenna fell off the roof
4000428			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		lost com. niven SPS 6212	CLOSE		6/19/24 07:25 AM	6/19/24 07:29 AM	call for lost com. - help Shannen with lost com

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4000467			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss of comm at Niven SPS 6212	CLOSE		6/19/24 11:13 AM	6/19/24 11:21 AM	Loss of communication -Call for loss of comm at 0047. Arrived on site at 0102 and reset radio 4 times. No success. Called Chris and was instructed to reset radio at Dymond Res. Arrived at Dymond Res at 0139 and reset radio 5 times. No success. Chris then instructed me to call Claude . Called Claude at 0155 and was instructed to unplug Niven radio, go back to Dymond Res and reset radio then go back to Niven to plug radio back in and if no success to leave it until the morning. I reset the radio at Dymond Res at 0202. Went back to Niven and did as Claude instructed. Still no success. Disabled the alarm for the night and will look into it in the morning.
4001721			6212, New Liskeard Lagoon Cedar SPS	CORR	Refurbish/ Replace/Repair	0		troubleshoot Cedar SPS pump 6212	CLOSE		11/1/24 08:38 AM	11/1/24 08:38 AM	troubleshoot pump - took pump out and removed rags out of pump
4004220			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	7/1/24 12:00 AM	7/31/24 09:55 AM	7/31/24 09:55 AM	clean - sweep and pick up garbage
4007237	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	7/1/24 12:00 AM	7/16/24 10:51 AM	7/16/24 10:51 AM	test - test pumping rate all good
4007240	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	7/1/24 12:00 AM	7/16/24 10:56 AM	7/16/24 10:56 AM	flush - hot flush pumps
4007243	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	7/1/24 12:00 AM	7/16/24 10:52 AM	7/16/24 10:52 AM	test - test pumping rate all good
4007246	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	7/1/24 12:00 AM	7/16/24 10:53 AM	7/16/24 10:53 AM	test - test pumping rate all good

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4025287	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	7/1/24 12:00 AM	7/15/24 03:04 PM	7/15/24 03:04 PM	ran - ran and record value on sheet
4045182	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test Gray SPS (1y) 6212	CLOSE	7/1/24 12:00 AM	9/26/24 09:18 AM	9/26/24 09:18 AM	completed by Contractor -
4045194	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	7/1/24 12:00 AM	7/11/24 03:46 PM	7/11/24 03:46 PM	ran - ran and record value on sheet
4045210	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test Goodman SPS (1y) 6212	CLOSE	7/1/24 12:00 AM	9/26/24 09:17 AM	9/26/24 09:17 AM	completed by Contractor -
4045222	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	7/1/24 12:00 AM	7/11/24 03:47 PM	7/11/24 03:47 PM	ran - ran and record value on sheet
4045239	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test NL Lagoon (1y) 6212	CLOSE	7/1/24 12:00 AM	9/26/24 09:17 AM	9/26/24 09:17 AM	completed by Contractor -
4045251	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	7/1/24 12:00 AM	7/11/24 03:49 PM	7/11/24 03:49 PM	
4045267	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1y) 6212	CLOSE	7/1/24 12:00 AM	9/26/24 09:18 AM	9/26/24 09:18 AM	
4045279	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	7/1/24 12:00 AM	7/11/24 03:50 PM	7/11/24 03:50 PM	
4045295	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test Niven SPS (1y) 6212	CLOSE	7/1/24 12:00 AM	9/26/24 09:19 AM	9/26/24 09:19 AM	completed by contractor -
4045307	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	7/1/24 12:00 AM	7/11/24 03:51 PM	7/11/24 03:51 PM	ran - ran and record value on sheet
4045323	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Inspection/ Functional Test Whitewood SPS (1y) 6212	CLOSE	7/1/24 12:00 AM	9/26/24 09:20 AM	9/26/24 09:20 AM	completed by Contractor -
4045335			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	7/1/24 12:00 AM	7/23/24 10:55 AM	7/23/24 10:55 AM	check - check fire ext. and first aid and test eye wash

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4051838			6212, New Liskeard Lagoon Niven SPS	CALL	Predictive Maintenance	0		Call In- Loss of Comm at Niven SPS, 6212	CLOSE		7/27/24 08:09 PM	7/27/24 08:20 PM	Call In- Loss of Comm at Niven SPS, 6212 - Called in for loss of comm. Drove to site and power cycled radio and comm was restored immediately
4053694			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	8/1/24 12:00 AM	8/30/24 01:26 PM	8/30/24 01:26 PM	Building and Grounds Maintenance (1m) 6212 - Cleaned facilities Removed garbage Notified Bryce of a burnt out light as Niven SPS - Pump Room Checked facility interior and exterior. ok
4056222	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:27 PM	8/8/24 03:27 PM	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212 - isolated from tank Performed draw down test 380 per min
4056225	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	8/1/24 12:00 AM	8/9/24 03:48 PM	8/9/24 03:48 PM	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212 - Hot flushed ferric pump 1 & 2. Visually inspected both pumps. ok
4056228	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:26 PM	8/8/24 03:26 PM	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212 - isolated tank performed draw down test aprox 180 per min
4056231	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:25 PM	8/8/24 03:25 PM	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212 - isolated tank ran draw down test 225 per min

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4073017	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:19 PM	8/8/24 03:19 PM	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212 - Performed visual inspection of generator Ran Generator for approximately an hour. Filled out generator maintenance check sheet.
4090202	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:22 PM	8/8/24 03:22 PM	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212 - Performed visual inspection of generator Ran Generator for approximately an hour. Filled out generator maintenance check sheet.
4090218	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	8/1/24 12:00 AM	8/12/24 06:49 AM	8/12/24 06:49 AM	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212 - Completed genset test with Andrew Checked fuel, coolant, block heater and oil. ok no faults displayed recorded values on sheet
4090234	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:22 PM	8/8/24 03:22 PM	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212 - Performed visual inspection of generator Ran Generator for approximately an hour. Filled out generator maintenance check sheet.

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Location:	6212*
Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4090250	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:22 PM	8/8/24 03:22 PM	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212 - Performed visual inspection of generator Ran Generator for approximately an hour. Filled out generator maintenance check sheet.
4090266	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	8/1/24 12:00 AM	8/8/24 03:21 PM	8/8/24 03:21 PM	-Performed drawdown test on hypo bypass pump for - Performed visual inspection of generator Ran Generator for approximately an hour. Filled out generator maintenance check sheet.
4090282			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	8/1/24 12:00 AM	8/16/24 07:30 AM	8/16/24 07:30 AM	Health And Safety Inspection (1m) 6212 - Checked fire extinguishers and initialed. ok Checked first aid kits. ok Checked emergency lighting and exists. ok Eye wash stations. ok Lock/tag out stations. ok
4094396			6212, New Liskeard Lagoon Whitewood SPS	CALL	Predictive Maintenance	0		Call Ins - Loss of Comm at Whitewood SPS, 6212	CLOSE		8/14/24 08:41 PM	8/14/24 11:55 PM	Call Ins - Loss of Comm at Whitewood SPS, 6212 - Called in for critical alarm. By the time I logged in remotely, it was now normal. The issue was loss of comm and it restored on its own.

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4094395			6212, New Liskeard Lagoon Whitewood SPS	CALL	Predictive Maintenance	0		Call Ins - Loss of Comms at Whitewood SPS, 6212	CLOSE		8/17/24 10:49 AM	8/17/24 08:55 PM	Call Ins - Loss of Comms at Whitewood SPS, 6212 - 20:44

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
													Call Ins - Loss of Comms at Whitewood SPS, 6212 - 19:38
4095211	6212, New Liskeard Lagoon Whitewood SPS			CALL	Predictive Maintenance	0		Loss of Comms at Whitewood SPS, 6212	CLOSE	8/19/24 03:00 AM	8/19/24 06:24 AM		Loss of Comms at Whitewood SPS, 6212 - 06:24

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Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4095293			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		Loss comm at Niven SPS 6212	CLOSE		8/23/24 07:13 AM	8/23/24 07:16 AM	Loss of communication at Niven SPS - Call for critical alarm at Niven SPS at 0400. Logged in remotely and it was a loss of comm. Drove to site and reset radio multiple times for about an hour. No success. Drove to Dymond reservoir to reset that radio then back to Niven to see if it would come back. No success. Got Marc to stop in at Dymond reservoir on his way to work to attempt resetting the radio at Dymond reservoir and Niven at the same time. No success. Will talk to ORO.
4096193			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		Monitor Stations due to Heavy Rain 6212	CLOSE		8/28/24 08:21 AM	8/28/24 08:26 AM	- Monitor Whitewood, Cedar, Montgomery and Elm St pumping stations due to loss of communications from Whitewood radio. Comms never reset after multiple attempts so left comm alarm disabled for evening. Checked all four stations, pumps were in Auto, levels were normal and rain had stopped.
4096235			6212, New Liskeard Lagoon Montgomery SPS	CALL	Refurbish/ Replace/Repair	0		Rain Event Overflows at 6212	CLOSE		8/28/24 08:05 PM	9/2/24 05:01 PM	Rain Event Overflows -Sampled and monitored stations overflowing during a rain event between the hours of 1600 and 2030. Danny assisted me with getting Montgomery SPS gas pump ready. I also sampled at Station St SPS and monitored stations during the rain event ensuring pumps were still running and overflows were being chlorinated. I also had to sample the New Liskeard Lagoon as there was a total flow exceedence. rain event overflows - monitored sites collected samples for Montgomery sps and whitewood sps

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4096330			6212, New Liskeard Lagoon Cedar SPS	CALL	Refurbish/ Replace/Repair	0		Cedar PS Loss of Echo Rain Event 6212	CLOSE		8/29/24 07:26 AM	8/29/24 07:33 AM	- Arrived to find level transmitter locked up at 0.98m. Tried cycling the power to the transmitter but it came back the same. Looked in well and found lots of soap foam on water. Pumped down well manually to get rid of foam, cycled power again and it came around. Waited for the level to get above low alarm setpoint and buttoned everything up.
4098045			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	9/1/24 12:00 AM	9/25/24 03:10 PM	9/25/24 03:10 PM	bulidning and grounds - took out garbage , all light bulbs work, exterior building is good. cleaned the facility, all locks, fans and heaters are in good working condition.
4101012	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	9/1/24 12:00 AM	10/20/24 10:47 AM	10/20/24 10:47 AM	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212 - Completed Oct 4, 2024 Completed draw down test using water. Approx. 610mL per min Checked pump during test, ok checked hypo tank. ok
4101015	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	9/1/24 12:00 AM	9/24/24 02:17 PM	9/24/24 02:17 PM	monthly maintenance - hot flushed ferric pump. primed for 30 seconds back in auto.
4101018	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	9/1/24 12:00 AM	9/24/24 02:20 PM	9/24/24 02:20 PM	- hot flushed pump, checked for leaks. back in auto. looks to be in good condition

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4101021	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	9/1/24 12:00 AM	9/24/24 02:27 PM	9/24/24 02:27 PM	monthly test - hot flushed, checked for leaks. ready for operation if needed
4113248	0000277317	ANALYZER PH Lagoon Effluent	6212, New Liskeard Lagoon	PM	Inspection	3	MONTHS	ANALYZER PH PORTABLE LAGOON CALIBRATION (3M) 6212	CLOSE	9/1/24 12:00 AM	9/4/24 09:31 AM	9/4/24 09:31 AM	-Made fresh buffers and soaked probe in 4.00 to clean probe. Calibrated meter using 4.00 pH and 7.00 pH buffer solutions as per manufactures instructions.
4120587	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	9/1/24 12:00 AM	9/13/24 12:54 PM	9/13/24 12:54 PM	genset test - completed monthly genset test. checked oil, recorded run hours tested switch over. ran generator for 30 minutes minimum. everything ran good. back in auto
4140333	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	9/1/24 12:00 AM	9/11/24 03:51 PM	9/11/24 03:51 PM	genset test - ran monthly genset test checked oil level recorded generator sheet numbers. back in auto
4140349	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	9/1/24 12:00 AM	9/13/24 12:57 PM	9/13/24 12:57 PM	genset test - completed monthly genset test. checked oil, recorded run hours tested switch over. ran generator for 30 minutes minimum. everything ran good. back in auto

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4140365	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	9/1/24 12:00 AM	9/19/24 03:46 PM	9/19/24 03:46 PM	genset test - ran monthly genset recorded hours, checked coolant, oil and heating. tested switch over to back up power recorded numbers switched back to main power everything ran good
4140381	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	9/1/24 12:00 AM	9/11/24 03:50 PM	9/11/24 03:50 PM	genset test - ran monthly genset test checked oil level recorded generator sheet numbers. back in auto
4140397	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	9/1/24 12:00 AM	9/19/24 03:47 PM	9/19/24 03:47 PM	
4140413			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	9/1/24 12:00 AM	9/25/24 03:47 PM	9/25/24 03:47 PM	health and safety - checked all fire extinguishers, first aid kits, emergency showers, eye wash stations and emergency lights are all in good working conditions.
4141015			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm Whitewood PS 6212	CLOSE		9/2/24 10:57 AM	9/2/24 11:02 AM	- Called for critical alarm for Whitewood, Cedar, Montgomery and Elm pump stations. Found Ww radio not communicating. Managed to reset radio and restore communications. Checked pumping stations while waiting for radio to reset.

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Location:	6212*
Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4141016			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm Whitewood PS 6212	CLOSE		9/2/24 11:04 AM	9/2/24 11:09 AM	- Still dealing with Whitewood and accompanying stations in Loss of comm. Unplugged radio while checking stations for level and pumps in auto. Tried to reset radio and restore comms to no avail. Disabled communication alarms otherwise it calls every 10 min. Will come back and check on stations in a few hours.
4141017			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm Whitewood PS 6212	CLOSE		9/2/24 11:10 AM	9/2/24 11:16 AM	- Unplug radio, switch and try to reset. Tried changing ethernet cable to modem. Tried resetting old radio. Left unplugged while checking stations. No luck. Alarms are disabled, will check in morning. Maybe we should go back to high speed internet at key stations like Dymond and Whitewood?
4141181			6212, New Liskeard Lagoon Elm SPS	CALL	Refurbish/ Replace/Repair	0		Loss of Comm Elm St. PS 6212	CLOSE		9/3/24 07:42 AM	9/3/24 08:13 AM	- Called for critical alarm at Elm St. pumping station. Drove to site to check station operation due to communication system failing all weekend. All pumps were in auto and levels were normal. Comms were back up by then, System was off all day and back up at 1600 and is starting to fail for more than 20 min. System started calling constantly at 0045. Disabled communication alarms for the evening.
4141200			6212, New Liskeard Lagoon Whitewood SPS	CALL	Refurbish/ Replace/Repair	0		rain event at 6212	CLOSE		9/3/24 08:07 AM	9/3/24 08:09 AM	rain event - took samples at whitewood and monitored pump stations
4141803			6212, New Liskeard Lagoon Cedar SPS	CAP	Refurbish/ Replace/Repair	0		Station St and Cedar SPS SS Lifting Chains 6212	CLOSE		10/21/24 09:54 AM	10/21/24 09:54 AM	install new chain - replace on both pump with stainless chain

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			WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4142210			6212, New Liskeard Lagoon Whitewood SPS	CALL	Predictive Maintenance	0		Call In - Loss of Comm at Whitewood SPS, 6212	CLOSE		9/7/24 01:14 PM	9/7/24 03:33 PM	Call In - Loss of Comm at Whitewood SPS, 6212 - Called in for critical at Whitewood, cedar, elm and Montgomery SPS. Logged in remotely and loss of comm. Drove to Whitewood and tried power cycling radio but did not work. Disconnected from power and left. Drove to other sites and checked- ok. Waited till 1500 and plugged back in and comm was restored.
4142214			6212, New Liskeard Lagoon Whitewood SPS	CALL	Predictive Maintenance	0		Low Temp Alarm at Whitewood SPS due to main heater out of service, 6212	CLOSE		9/8/24 05:00 AM	9/8/24 06:00 AM	
4142215			6212, New Liskeard Lagoon	CALL	Predictive Maintenance	0		Call In - Totalized Raw Flow Exceedance at NL Lagoon, 6212	CLOSE		9/8/24 05:44 PM	9/8/24 07:00 PM	Call In - Totalized Raw Flow Exceedance at NL Lagoon, 6212 - Called in for critical alarm at NL Lagoon. Logged in remotely and the Autodialer indicated the lagoon exceeded totalized raw flow due to raining consistently the last two days. Collected samples effluent under abnormal conditions. UPS was in alarm in the effluent shack therefore replaced with a new one. Checked lagoon level-ok and effluent total flow rate -ok
4144656			6212, New Liskeard Lagoon	OPER	Inspection	0		Daily O&M Activities Wastewater Treatment (1y) 6212	COMP		1/13/25 01:04 PM	1/13/25 01:04 PM	

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4145549			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		Loss of comm at Gray SPS 6212	CLOSE		9/23/24 07:41 AM	9/23/24 07:44 AM	Loss of communication at Gray SPS -Call for critical alarm at Gray SPS at 0001. Logged in remotely and confirmed loss of communication. Drove to site and reset radio. Communication came back as of 0015.
4146226			6212, New Liskeard Lagoon	CALL	Refurbish/ Replace/Repair	0		high influent flow NL lagoon 6212	CLOSE		9/26/24 06:45 PM	9/26/24 08:00 PM	
4148535			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	10/1/24 12:00 AM	11/4/24 08:13 AM	11/4/24 08:13 AM	Building and Grounds Maintenance (1m) 6212 - Cleaned facilities, removed garbage, check facility
4151733	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:31 PM	10/5/24 02:31 PM	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212 - Completed hypo bypass drawdown test using water at Whitewood SPS: Approx. 610 mL per min Visually inspected hypo tank and pump. ok
4151736	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:20 PM	10/5/24 02:20 PM	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212 - Hot flushed Ferric chemical pump #1 and pump #2. Visually checked both pumps while running and no unusual sounds.
4151739	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:40 PM	10/5/24 02:40 PM	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212 - Completed hypo bypass drawdown test with water: Approx. 325 mL per min Visually checked hypo tank and pump. ok

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4151742	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:42 PM	10/5/24 02:42 PM	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212 - Completed hypo bypass drawdown test with water: Approx. 315 mL per min Visually checked hypo tank and pump. ok
4170701	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:05 PM	10/5/24 02:05 PM	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212 - Completed genset test: checked fuel, coolant, block heater; oil - ok no faults displayed recorded running values on sheet. *Noticed the fan sucked up some documents in generator and was stuck on the rad. Turned off breaker locally on generator and removed guarding. Removed the shredded paper off rad and place guarding back on and turn on breaker.
4171910			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		lost com gray SPS 6212	CLOSE		10/1/24 06:41 AM	10/1/24 07:30 AM	call for lost com. - reset radio on site

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4185318			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	New Liskeard lagoon Monthly Manual DO test 6212 (1m)	CLOSE	10/1/24 12:00 AM	10/28/24 03:13 PM	10/28/24 03:13 PM	New Liskeard lagoon Monthly Manual DO test 6212 (1m) - Completed monthly DO test of cell D1, D2, A1; A3 Temperature: Sunny 20 degrees Celsius, 12 km/h wind with 21 km\h wind gust D1 DO: 0.98 mg/L Temp: 14.1 D2 DO 3.22 Temp: 13.2 A1 DO: 3.22 Temp: 12.9 A2 DO: 4.84 Temp: 12.2
4191200	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 12:09 PM	10/5/24 12:09 PM	
4191216	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:16 PM	10/5/24 02:16 PM	Diese Generator Inspection/ Functional Test NL Lagoon (1m) 6212 - Completed genset: checked oil, coolant, block heater and fuel. ok no faults displayed recorded running values on sheet

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Workorder Summary Report

Report Start Date:	Jan 1, 2024 12:00 AM
Report End Date:	Dec 31, 2024 11:59 PM
Location:	6212*
Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4191232	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	10/1/24 12:00 AM	10/20/24 10:50 AM	10/20/24 10:50 AM	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212 - Completed genset test: checked oil, fuel, coolant and block heater. ok no faults displayed recorded running values on sheet
4191248	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:10 PM	10/5/24 02:10 PM	
4191264	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	10/1/24 12:00 AM	10/5/24 02:08 PM	10/5/24 02:08 PM	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212 - Completed genset test: check oil, coolant, block heater and fuel. ok no faults displayed recorded running values on sheet
4191280			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	10/1/24 12:00 AM	10/20/24 11:29 AM	10/20/24 11:29 AM	Health And Safety Inspection (1m) 6212 - Completed health and safety inspection: checked eye wash station.ok checked emergency signage Put up new WSIB signage checked fire extinguishers. ok checked lock out tag out. ok checked first aid kits. ok
4191291	0000277330	TANK WET WELL CEDAR SPS	6212, New Liskeard Lagoon Cedar SPS	PM	Refurbish/ Replace/Repair	6	MONTHS	Wetwell Inspection Cedar SPS (6m) 6212	COMP	10/1/24 12:00 AM	12/6/24 07:37 AM	12/6/24 07:37 AM	Wet well Inspection - Checked for major grease build up and tested pump operations City Vac truck is broken

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Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4192423			6212, New Liskeard Lagoon Goodman SPS	CALL	Refurbish/ Replace/Repair	0		SPS Goodman pump 1 locked/ faulted out	CLOSE		10/4/24 08:45 PM	10/4/24 11:48 PM	- Called in for sewage pump 1 locked out. Drove to site and reset the pump manually. Ran the pump manually and watched the level drop as per normal operation. Ran the pump a couple times with no issues therefore put pump back in auto. A couple hours later the pump locked out again. Drove back to site and turned pump off for the weekend, as per Bryce Logan's instruction. There may be something near the pump that is causing it to clog once in a while and then unclogs. We will investigate further on Monday with the proper man power.
4193890			6212, New Liskeard Lagoon Cedar SPS	CALL	Refurbish/ Replace/Repair	0		High Level Alarm at Cedar SPS 6212	CLOSE		10/11/24 08:36 PM	10/11/24 08:40 PM	High Level Alarm at Cedar SPS - Call at 1955 for a major alarm at Cedar SPS. Logged in remotely and there was a loss of echo due to a high level caused by a heavy rainfall. Drove to site and made sure both pumps were pumping properly. They were both pumping properly and level was down to 2.27m when i left.
4198844			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	CLOSE	11/1/24 12:00 AM	11/15/24 03:49 PM	11/15/24 03:49 PM	Building and Grounds Maintenance - cleaned and swept facility took out garbage no windows to clean.
4201362	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	11/1/24 12:00 AM	11/22/24 03:44 PM	11/22/24 03:44 PM	- drawdown results, 600 ml. no leaks detected during visual inspection of hypo tank
4201365	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	CLOSE	11/1/24 12:00 AM	11/22/24 04:01 PM	11/22/24 04:01 PM	- during visual inspection, no leaks were detected, flushed with water.

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Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4201368	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	11/1/24 12:00 AM	11/22/24 08:30 AM	11/22/24 08:30 AM	Pump Diaphragm 01 Sodium Hypo Bypass Inspection - Completed hypo bypass drawdown test using water at Whitewood SPS: test resulted in 580 mL/ minute during visual inspection. everything looked good
4201371	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	CLOSE	11/1/24 12:00 AM	11/22/24 03:35 PM	11/22/24 03:35 PM	Pump Diaphragm 02 Sodium Hypo Bypass Inspection - Completed hypo bypass drawdown test using water at Whitewood SPS: test resulted in 580 mL/ minute during visual inspection. everything looked good
4217211	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	CLOSE	11/1/24 12:00 AM	11/8/24 03:15 PM	11/8/24 03:15 PM	genset test - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto
4228851			6212, New Liskeard Lagoon	PM	Compliance	1	MONTHS	New Liskeard lagoon Monthly Manual DO test 6212 (1m)	CLOSE	11/1/24 12:00 AM	11/7/24 03:30 PM	11/7/24 03:30 PM	New Liskeard lagoon Monthly Manual DO test 6212 (1m) - cell D1 cell D2 cell A1 cell A2 DO (mg/l) 7.26 8.01 6.76 6.92 temp 10.9 10.7 9.1 8.2 sunny/ cloudy plus 8

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4233859	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	CLOSE	11/1/24 12:00 AM	11/7/24 03:39 PM	11/7/24 03:39 PM	Diesel Generator Inspection/ Functional Test Goodman SPS - recorded run hours and checked oil, coolant level, fuel level and block heater. all good started generator came back 30- 45 minutes after, recorded volts, amps, oil pressure, water temp, rpm switched back to main power and generator switched off.
4233875	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	CLOSE	11/1/24 12:00 AM	11/15/24 08:56 AM	11/15/24 08:56 AM	Diesel Generator Inspection/ Functional Test NL Lagoon - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto
4233891	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	CLOSE	11/1/24 12:00 AM	11/15/24 08:55 AM	11/15/24 08:55 AM	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212 - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto
4233907	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	CLOSE	11/1/24 12:00 AM	11/8/24 03:17 PM	11/8/24 03:17 PM	genset test - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto

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Work Order Type:	CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:	

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4233923	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	CLOSE	11/1/24 12:00 AM	11/8/24 03:17 PM	11/8/24 03:17 PM	genset test - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto
4233939			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	CLOSE	11/1/24 12:00 AM	11/15/24 03:45 PM	11/15/24 03:45 PM	Health And Safety Inspection - checked first aid kit inspected eye wash station checked fire extinguishers nothing bad to report.
4235262			6212, New Liskeard Lagoon Niven SPS	CALL	Refurbish/ Replace/Repair	0		heavy rain fall	CLOSE		11/5/24 09:15 PM	11/6/24 07:30 AM	
4240866			6212, New Liskeard Lagoon	PM	Inspection	1	MONTHS	Building and Grounds Maintenance (1m) 6212	COMP	12/1/24 12:00 AM	12/16/24 12:18 PM	12/16/24 12:18 PM	Building and Grounds Maintenance - plant is cleaned and swept snow is cleared out garbage and recycling taken out. outside of building looks good.
4243324	0000115400	PUMP DIAPHRAGM SODIUM HYPOCHLORITE BYPASS WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm Sodium Hypo Bypass Inspection (1m) 6212	COMP	12/1/24 12:00 AM	12/3/24 03:45 PM	12/3/24 03:45 PM	Pump Diaphragm Sodium Hypo Bypass Inspection - Completed draw down test using water, 620mL per min ear test pump during test, no unusual sounds checked hypo tank. all good
4243329	0000293671	PUMP DIAPHRAGM 01 FERRIC SULFATE	6212, New Liskeard Lagoon	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212	COMP	12/1/24 12:00 AM	12/12/24 08:34 AM	12/12/24 08:34 AM	Pump Diaphragm 01 Ferric Sulfate Inspection (1m) 6212 - Isolated ferric tank. Hot flushed ferric pump and removed poly lines and clean blockage. Put back into service and primed with ferric.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4243332	0000115522	PUMP DIAPHRAGM 01 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 01 Sodium Hypo Bypass Inspection (1m) 6212	COMP	12/1/24 12:00 AM	12/19/24 07:44 AM	12/19/24 07:44 AM	Pump Diaphragm 01 Sodium Hypo Bypass Inspection - Completed on October 10th Completed draw down test using water. checked hypo tank. ok drawdown was 610mL/ minute Checked pump during test, ok - meant to say dec 10th not october 10th
4243335	0000115523	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE BYPASS NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Diaphragm 02 Sodium Hypo Bypass Inspection (1m) 6212	COMP	12/1/24 12:00 AM	12/19/24 07:45 AM	12/19/24 07:45 AM	Pump Diaphragm 02 Sodium Hypo Bypass Inspection - Completed on October 10th Completed draw down test using water. checked hypo tank. ok drawdown was 610mL/ minute Checked pump during test, ok - meant to say dec 10th not October 10th
4253824	0000277317	ANALYZER PH Lagoon Effluent	6212, New Liskeard Lagoon	PM	Inspection	3	MONTHS	ANALYZER PH PORTABLE LAGOON CALIBRATION (3M) 6212	COMP	12/1/24 12:00 AM	12/9/24 11:37 AM	12/9/24 11:37 AM	-cleaned and calibrated as per manufactures instructions. Please refer to shared drive for cal slip.
4259040	0000277393	GENERATOR	6212, New Liskeard Lagoon Gray SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Gray SPS (1m) 6212	COMP	12/1/24 12:00 AM	12/5/24 03:25 PM	12/5/24 03:25 PM	genset -completed monthly genset test. checked oil, recorded run hours tested switch over. ran generator for 30 minutes minimum. recorded numbers everything ran good. back in auto

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Location: 6212*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4270135			6212, New Liskeard Lagoon	PM	Compliance	1	MONTHS	New Liskeard lagoon Monthly Manual DO test 6212 (1m)	COMP	12/1/24 12:00 AM	12/12/24 02:36 PM	12/12/24 02:36 PM	- completed monthly DO. used hg30d to test the dissolved oxygen and temperature of d1, d2, a1, a2
4275633	0000076675	ENGINE DIESEL GOODMAN SPS	6212, New Liskeard Lagoon Goodman SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Goodman SPS (1m) 6212	COMP	12/1/24 12:00 AM	12/10/24 03:58 PM	12/10/24 03:58 PM	Diesel Generator Inspection/ Functional Test Goodman SPS - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto
4275649	0000115903	ENGINE DIESEL LAGOON	6212, New Liskeard Lagoon, Process	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test NL Lagoon (1m) 6212	COMP	12/1/24 12:00 AM	12/10/24 03:58 PM	12/10/24 03:58 PM	Diesel Generator Inspection/ Functional Test NL Lagoon - recorded hours and fuel level. checked oil and coolant level. put generator to test, came back 30-45 minutes later. recorded volts, amps, hertz, oil pressures , coolant temp etc. put back in auto
4275665	0000115923	ENGINE DIESEL MONTGOMERY SPS	6212, New Liskeard Lagoon Montgomery SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Montgomery SPS (1m) 6212	COMP	12/1/24 12:00 AM	12/3/24 03:35 PM	12/3/24 03:35 PM	Portable Generator Inspect/Service 5726 - completed monthly genset test. checked oil, recorded run hours tested switch over. ran generator for 30 minutes minimum. recorded numbers everything ran good. back in auto

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4275681	0000115516	ENGINE DIESEL NIVEN SPS	6212, New Liskeard Lagoon Niven SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Niven SPS (1m) 6212	COMP	12/1/24 12:00 AM	12/3/24 03:36 PM	12/3/24 03:36 PM	Portable Generator Inspect/Service - completed monthly genset test. checked oil, recorded run hours tested switch over. ran generator for 30 minutes minimum. recorded numbers everything ran good. back in auto
4275697	0000115397	ENGINE DIESEL WHITEWOOD SPS	6212, New Liskeard Lagoon Whitewood SPS	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test Whitewood SPS(1m) 6212	COMP	12/1/24 12:00 AM	12/3/24 03:37 PM	12/3/24 03:37 PM	
4275713			6212, New Liskeard Lagoon, Process	PM	HEALTH AND SAFETY	1	MONTHS	Health And Safety Inspection (1m) 6212	COMP	12/1/24 12:00 AM	12/16/24 12:26 PM	12/16/24 12:26 PM	Health And Safety Inspection - inspected first aid kit. nothing missing eye wash station in good working condition fire extinguishers are ready for use. inspected spill kit. okay no burnt light bulbs
4278182			6212, New Liskeard Lagoon	CAP	Refurbish/ Replace/Repair	0		Belt Replacement NL Lagoon Blowers 6212	COMP		12/19/24 09:58 AM	12/19/24 09:58 AM	Belt Replacement NL Lagoon Blowers 6212 -I put Blower #1 in lock out tag out and in manual. Helped removed the belt guarding and found the belts broken. Put blower #2 in manual and removed guarding to to verify the model of the belts to order and put back in service. Blower #1 is out of service. Belt Replacement NL Lagoon Blowers 6212 -Locked out blower #1 and removed old belt that was blown. No belts to replace so new belts have been ordered.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4278183			6212, New Liskeard Lagoon	CAP	Refurbish/ Replace/Repair	0		Pump out and Pull Faulty Waste Pit Pump 6212	COMP		12/16/24 12:11 PM	12/16/24 12:11 PM	Pump out and Pull Faulty Waste Pit Pump 6212 - Removed the waste pit pump with Mac from Temiskaming Shores
4279294			6212, New Liskeard Lagoon Gray SPS	PM	Inspection	1	YEARS	Critical Alarm/Dialer Testing Gray Rd SPS (1y) 6212	COMP	12/16/24 12:00 AM	12/17/24 09:05 AM	12/17/24 09:05 AM	-Performed alarm testing as per document attached
4279579			6212, New Liskeard Lagoon Gray SPS	PM	Inspection	1	YEARS	Critical Alarm/Dialer Testing Gray Rd SPS (1y) 6212	COMP	12/18/24 12:00 AM	12/18/24 10:51 AM	12/18/24 10:51 AM	-This is a duplicate work order that should not have been created.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4280419			6212, New Liskeard Lagoon Gray SPS	CALL	Inspection	0		Loss of Comm Gray SPS - Room Low Temp Whitewood SPS	COMP		12/23/24 08:40 AM	12/23/24 08:43 AM	Loss of Comm Gray SPS - Room Low Temp Whitewood SPS - Dec 22, 2024 Entry - @22:07 Major Alarm at Gray SPS - Loss of Communication alarm. Reviewed SCADA and noticed no trends being recorded. Drove to Gary SPS and reset Power cord for 30 secs, and communication was restored. Reviewed Data logger, and data shows wet well levels being recorded between 22:00 and 23:20 Dec 22, 2024 Entry - @23:16 Minor Alarm at Whitewood SPS - Generator room low temp alarm. Drove to Whitewood SPS, and inspected temperature gauge in the room and it was set to 20. The ceiling heater was actively running but was only putting out heat at 10 on the temperature gauge. Found a white heater also actively running on max heat. Reviewed data logger Took another portable

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
													heater and turned it on in front of the temperature gauge. The Generator room low temp alarm turned back to normal on the HMI on Dec 23, 2024 @ 00:12
4280558			6212, New Liskeard Lagoon Gray SPS	CALL	Refurbish/ Replace/Repair	0		Call out - Loss of comm Gray Rd SPS	COMP		12/24/24 02:15 AM	12/24/24 11:05 AM	
4306397			6212, New Liskeard Lagoon	CALL	Refurbish/ Replace/Repair	0		Called in for Abnormal sampling New Liskeard Lagoon effluent flow exceedance	COMP		12/31/24 08:46 PM	12/31/24 10:20 PM	-Called in for abnormal sampling @ 2046. Collected effluent abnormal samples.

APPENDIX F
Spill Report

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Northeastern Ontario Regional Hub

15 Government Road East,
Kirkland Lake ON P2N 3J5
T: 705-567-3955 F: 705-567-7974

SPILL REPORT

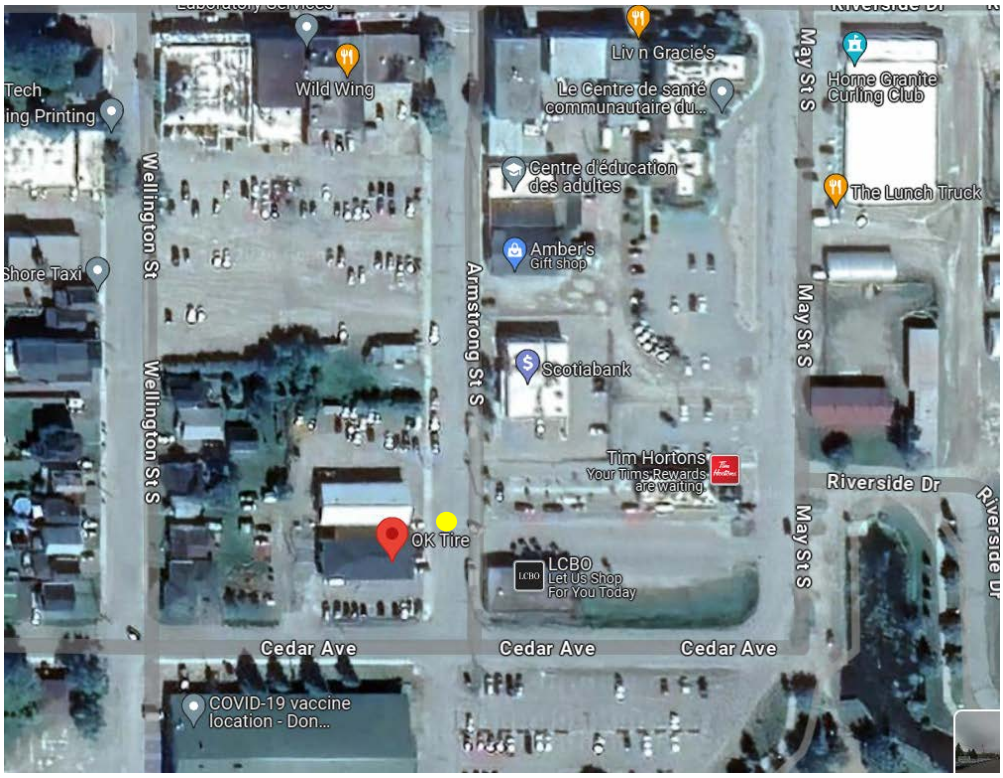
February 14, 2024

Re: SAC Event No. # 1-4N2DOM

System:	New Liskeard Sewage Collection System
Location:	64 Armstrong Street South
Legal Instrument:	CLI ECA No. 218-W601
Type of Event:	Spill
Date of Event:	February 7, 2024
Time of Event:	1300 to 1340 hours (duration: 40 minutes)

Details/Cause of the Event:

The City of Temiskaming Shores was replacing a copper water service at 64 Armstrong Street South in New Liskeard (OK Tire) when a sewage pipe from the Cedar Street sewage pumping station was accidently struck and broke (location shown by the yellow dot on the map below). There was concern that sewage contacted and entered the service line and distribution main (AWQI 164454). The approximate volume of the spill was less than 1 m^3.



Northeastern Ontario Regional Hub

15 Government Road East,
Kirkland Lake ON P2N 3J5
T: 705-567-3955 F: 705-567-7974

Corrective Actions:

The sewage flow from the pump station was stopped and the sewer pipe repaired.

The Operators were unable to collect a representative and uncontaminated sample of the spill as it seeped into the surrounding ground and mixed with gravel and sand.

Reporting:

The event was verbally reported to the local Health Unit, Ministry's Spills Action Center (SAC) and the local MECP on February 7th.

A written Environmental Incident Report was provided to the local Public Health Inspector, SAC, the local MECP and the Owner (report attached).

Clean-up and Recovery Measures:

The spilled material, gravel and sand was hauled to the local dump site.

Preventative Measures:

The broken sewer pipe was repaired.

Environmental Incident Report

Temiskaming Shores Cluster – Collection System

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

TS-EIR-02C Revision 0: March 15, 2023

System: New Liskeard Lagoon	Org#: 6212	Ministry Works #: 110000515
Location: 64 Armstrong St. S., New Liskeard		Receiver: Ground

Start of Event:	Date: February 7, 2024	Time 1306
☐ Emergency Overflow	Details/Cause of Event: Replacing copper line from OK Tire (64 Armstrong St. S) to the main & contractor hit the sewer pipe	
☐ Planned Overflow		
☒ Spill		
Chlorination ☐ Yes ☒ No	Sample Collected as per ECA ☒ Yes ☐ No	
Corrective & Preventative Actions: Repaired main water line & sewer pipe. Removed gravel with sewage & took to the dump.		
Complaints or Adverse Impacts: A small volume of sewage is suspected of entering the copper pipe & distr. main.		

Verbal Notifications

MOH called	Date: Feb 7/24	Time: 14:05	Contact: James Sebesta
SAC called	Date: Feb 7/24	Time: 14:35	Contact: Justin Chin
Additional call	Date:	Time:	Contact:

SAC Event #: 1-4N2DOM Operator Reporting Event: Mark Ziller

At the beginning of the event email or fax: SAC, MOH, Environment Canada and PCT

Termination:	Date: FEB 7/2024	Time: 1340	Duration: 40 MINUTE
Volume (m^3)	Metered Yes ☐	Further Actions Required: NONE	
1	Estimated Yes ☒		

Verbal Notifications

MOH called	Date: 7 FEB 2024	Time: 1305	Contact: JAME SEBESTA
SAC called	Date: 7 FEB 2024	Time: 1326	Contact: [illegible] STAVSILA
Additional call	Date:	Time:	Contact:

Operator Reporting Termination: CLAUDE MONGRAIN

At the end of the event email or fax complete report to: SAC, MOH, Environment Canada & PCT

Spills Action Center (SAC)	Tel: 800 268-6060	Eml: MOE.SAC.moe@ontario.ca	Fax: 800 268-6061
Ministry of Health (MOH)	Tel: 705 647-4305 (NL)	Eml: (obtain from Health Inspector)	Fax: 705 647-5779 (NL)
	Tel: 705 567-9355 (KL)		Fax: 705 567-5476 (KL)
	Tel: 705 544-2221 (EN)		Fax: 705 544-8698 (EN)
Environment Canada (EC)	800 668-6767 (Customer Service)	Eml: Ec.FA-LP-On.ec@canada.ca	Fax: 819 420-7380
		Eml: EEDONTOnCall@ec.gc.ca	Fax: 819 420-7382

* Emailing the report: ensure to copy the PCT. Faxing the report: keep confirmation reports and send to PCT with final report.

APPENDIX G

Summary of Abnormal Discharge Events

New Liskeard Lagoon Sewage Collection System

Summary of Abnormal Discharge Events

Facility Works Number: **110000515**
Facility Owner: **City of Temiskaming Shores**
Service Population: **4900**
Period Being Reported: **01/2024** **12/2024**

									Concentrations					Loadings			
Date	Start Time (hh:mm)	Stop Time (hh:mm)	Pump Station	Duration	Type	Volume (m3)	Disinfection Provided	Reason	BOD5 (mg/L)	TSS (mg/L)	TP (mg/L)	TKN (mg/L)	E.coli (cfu/100mL)	BOD5 (kg)	TSS (kg)	TP (kg)	TKN (kg)
14-Feb-24	13:00	13:40	64 Armstrong Street South	40 minutes	Spill	<1	No	A sewer pipe from the Cedar Street sewage pumping station was accidently struck and broke when replacing a water service line.	No sample collected as the spilled material seeped into the ground.								
12-Apr-24	07:52		Niven Street	18.4 hours	Overflow	4408.9	Yes	Extreme rainfall	37	108	0.673	7.8	290,000	163	476	2.97	34.4
13-Apr-24		02:18															
12-Apr-24	09:52		Montgomery	23.8 hours	Overflow	1,913.5	Yes	Extreme rainfall	62	120	0.877	8.5	950,000	119	230	1.68	16.3
13-Apr-24		09:40															
12-Apr-24	07:45		Robert-Elm	23.7 hours	Overflow	14,471	Yes	Extreme rainfall	75.3	132	1.24	9.4	610,000	1110	1946	18.3	139
13-Apr-24		07:06															
12-Apr-24	13:24	13:26	Whitewood	2 minutes	Overflow	29.7	Yes	Extreme rainfall	38.0	76	0.463	4.7	200,000	1.10	2.3	0.014	0.14
27-Aug-24	15:15	19:28	Niven Street	4.2 hours	Overflow	1649.7	Yes	Heavy rainfall	250	823	2.88	17	3100	412	1355	2.88	17
27-Aug-24	16:44	18:19	Montogomery	1.6 hours	Overflow	127.3	Yes	Heavy rainfall	220	266	1.93	12.6	2480	28	33.9	0.246	1.6
27-Aug-24	15:20	17:49	Robert-Elm	2.5 hours	Overflow	1591.3	Yes	Heavy rainfall	180	288	2.73	14	3600	286	458.0	4.34	22.3
27-Aug-24	16:30	17:21	Whitewood	51 minutes	Overflow	734	Yes	Heavy rainfall	50	148	0.543	6.7	1860	36.7	109	0.399	4.92
06-Nov-24	03:31	03:59	Niven Street	28 minutes	Overflow	21.02	Yes	Heavy rainfall	9.4	47	0.312	1.8	3000	0.2	1.0	0.007	0.04