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February 21, 2024

Attn: Joni Scott
Clerk
Northport Leelanau Township Utility Authority, NLTUA

Project name: Northport
Project no: 378107CH

Subject: Monthly Operations Report

Dear Mrs. Joni Scott

This report covers our operations and maintenance activities for the month of January 2024.

Yours sincerely,

Mark J Huggard

Mark Huggard
Project Manager

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Copies to: NLTUA Board
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Executive Summary

This month's operations report highlights several key activities at the NLTUA facility.

- Submitted Decembers DMR, meeting all compliance requirements.
- Responded to various treatment plant alarms associated with errors from the plants programmable logic controllers.
- Responded to 5 grinder pump call outs.
- Addressed a power outage at the treatment plant on 1-12-24 and one at the 7th St. lift station on 1-31-24.

Upcoming activities include:

- February quarterly monitoring well sampling.
- Submittal of January 2024 DMR.

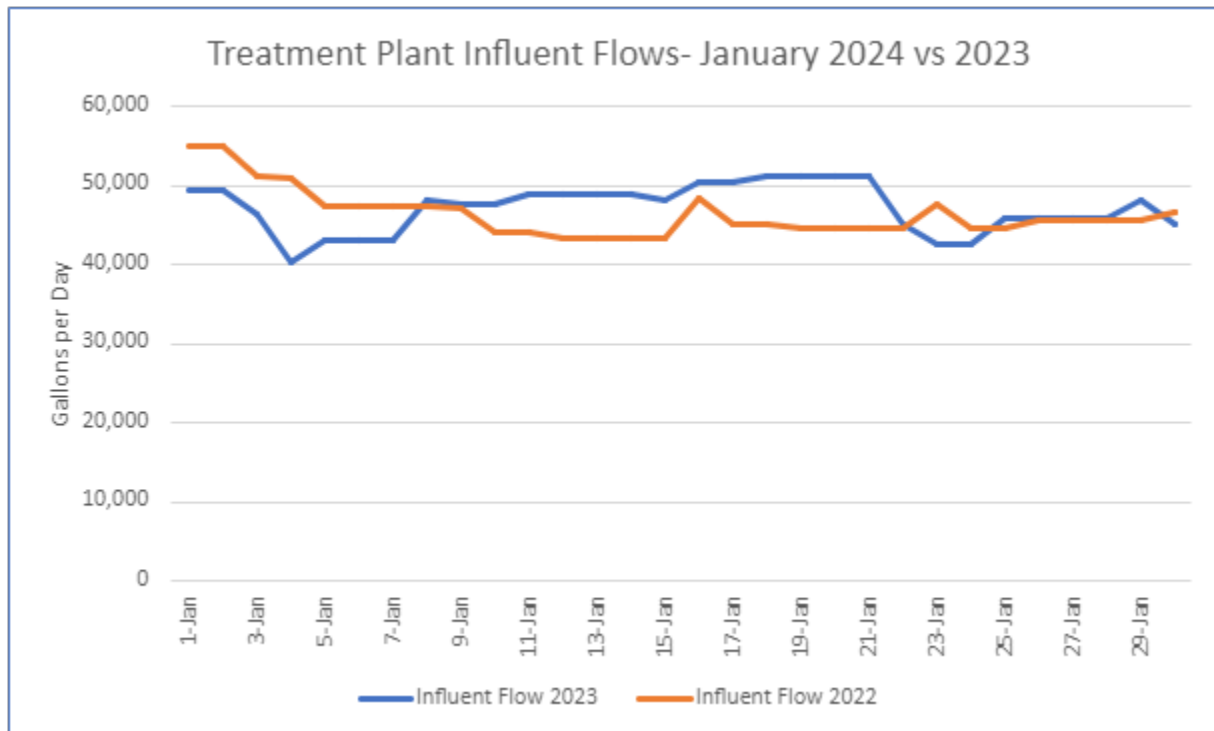
If there is anything you would like to see added to the monthly reports, please feel free to let us know.

Treatment Plant Operations and Maintenance

	January 2024	Last Month	Last Year
Influent flow daily average, GPD	47,132	48,068	46,549
Monthly electrical usage, Kw Hrs*	31,512	28,908	30,440

We submitted the monthly Discharge Monitoring Report (DMR) for December 2023. The facility was in compliance with all permit parameters.

The following graph compares the plant influent flows of the reporting month last year to that of 2023.



We responded to multiple treatment plant alarms such as no aeration blowers running, false tank level alarms and more on January 3rd and 4th. Both times the programmable logic controller (PLC) was frozen and inoperable. The PLC was powered down and restarted after each incident which corrected the issue temporarily. We spoke with a PLC troubleshooting contractor who instructed us to contact them the next time this issue arises and is active so they can troubleshoot the problem while it exists. So far, we have not had a similar reoccurrence.

We responded to a power outage at the treatment plant on January 12th at approximately 9:00 pm. The facility was powered by the emergency standby generator until the next morning when consumers power replaced a blown transformer fuse on the power supply side. We completed a walkthrough of the facility to ensure all equipment was functioning properly. We also scheduled a fuel refill for the generator.

Collection System Operations and Maintenance

Collection System

No issues or updates this month.

Lift Stations

On January 31st, 2024, at 11:00 am we responded to a power outage at the 7th St lift station. We monitored the wet well levels and did not need to deploy the portable generator as power crews quickly restored power within 3 hours. The cause of the outage was due to a fallen tree on a nearby powerline.

Grinder Pump Responses

As part of our due diligence to reduce repeat call out repairs to residential grinders, we perform the following checks at each visit.

- ✓ Tighten all control connections within control cabinet.
- ✓ Remove grease and debris from grinder tank.
- ✓ Remove all grease buildup from float switches.
- ✓ Verify all float switches operate properly and are positioned properly.
- ✓ Confirm proper pump operation.
- ✓ Verify alarm light is operational and audible alarm, if applicable.
- ✓ Inspect wet well components.
- ✓ Replace both the start and run capacitor.
- ✓ Inform homeowner of findings and what not to put in their sewer.

The following table summarizes our grinder pump responses. More details can be provided upon request.

Date	Location	Alarm/Issue	Resolution
1-11-24	444 Vincer Way	<ul style="list-style-type: none"> • High level 	<ul style="list-style-type: none"> • Replaced failed grinder pump
1-11-24	13745 Northport Point Rd	<ul style="list-style-type: none"> • High level 	<ul style="list-style-type: none"> • Replaced pump capacitors, start control float switch and check valve.
1-15-24	310 W. Third St.	<ul style="list-style-type: none"> • High level 	<ul style="list-style-type: none"> • Replaced failed grinder pump, motor contactor and potential relay. • Notified homeowner of high volume of clear water entering the well. Homeowner found the issue and was able to isolate the flow.
1-15-24	9787 Manitou Trl.	<ul style="list-style-type: none"> • No alarms present on arrival 	<ul style="list-style-type: none"> • Found the pump control float switches slid down the mounting bracket and were operating at the wrong level. Adjusted and secured switches at proper levels.
1-20-24	617 S. Shabwasung	<ul style="list-style-type: none"> • High level 	<ul style="list-style-type: none"> • Replaced pump capacitors. • Returned a few days later to remove a large root ball from the wet well.

On The Horizon

Task	Update	Estimated time of completion
Annual manhole inspections	Completed 50% remaining 50% to be completed spring 2024.	Spring 2024
Settling basin engineering evaluation	NLTUA to consult their engineer	2024
Ferric chloride room day tank relocation	NLTUA to consult their engineer	2024
Quarterly Monitoring Well Sampling	1st quarter 2024	February 2024

Financial Report

We are working on the reconciliation invoice for the 2023 contract year. I expect to have this invoice delivered by the end of February 2024.

Location	January 2024	Comments
Repairs Spending Treatment Plant Current Month	-	
Repairs Spending Treatment Plant Year to Date	-	
Repairs Spending Residential Grinder Pumps Current Month	-	
Repairs Spending Residential Grinder Pumps Year to Date	-	
Repair Spending Collection System (lift stations/sewer) Current Month	-	
Repair Spending Collection System (lift stations/sewer) Year to Date	-	
Repairs Hours Treatment Plant Current Month	24.00	
Repairs Hours Treatment Plant Year to Date	24.00	
Repairs Hours Residential Grinder Pumps Current Month	34.80	
Repairs Hours Residential Grinder Pumps Year to Date	34.80	
Repair Hours Collection System (lift stations/sewer) Current Month	13.10	
Repair Hours Collection System (lift stations/sewer) Year to Date	13.10	
Total Repair Hours Current Month	71.90	
Total Repair Spending Current Month	-	
Total Repair Hours Year to Date	71.90	
Repairs Hours Budget Remaining (Limit 300 Hrs)	228.10	
Total Repair Spending Year to Date	-	
Repair Spending Budget Remaining (Limit \$8,000)	\$8,000.00	
Total Repair Hours 2023	-	Not available for this report
Total Repair Spending 2023	-	Not available for this report