



**Challenging today.
Reinventing tomorrow.**

Jacobs Engineering
606 Hannah Ave.
Traverse City, MI 49686
T 231-922-4922

March 15th, 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 February 2024.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Justin Straub".

Justin Straub
Operations Supervisor
231-922-4922
Justin.Straub@jacobs.com

Mark J Huggard

Mark Huggard
Project Manager
231-313-5592
Mark.huggard@jacobs.com

Copies to: NLTUA Board
Jacobs Staff

Contents

Executive Summary.....	2
Treatment Plant Operations and Maintenance	3
Collection System Operations and Maintenance.....	4
Collection System.....	4
Lift Stations.....	4
Grinder Pump Responses	4
On The Horizon.....	5
Financial Report	5

Executive Summary

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

- Submitted January's DMR, meeting all compliance requirements.
- Adjusting/Monitoring air controls to decrease elevated Nitrate levels
- Responded to 3 grinder pump call outs.
- Completed Quarterly Monitoring Well Sampling

Upcoming activities include:

- Submittal of February 2024 DMR.
- Monitoring Well Head Covers to be installed.

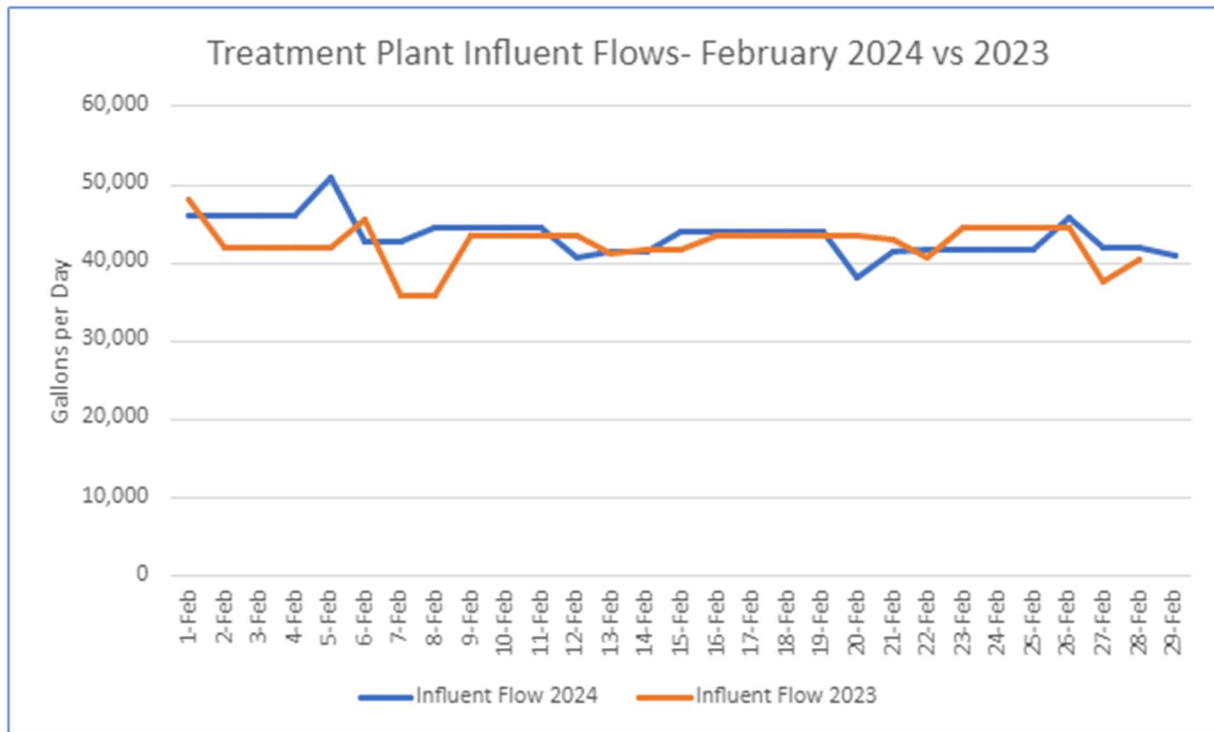
If there is anything you would like to see added to the monthly reports, please feel free to let us know.

Treatment Plant Operations and Maintenance

	February 2024	Last Month	Last Year
Influent flow daily average, GPD	43,424	47,132	42,474
Monthly electrical usage, Kw Hrs*	26,227	31,512	32,939

We submitted the monthly Discharge Monitoring Report (DMR) for January 2024. 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 2024.



We responded to a single plant alarm this month in which no blowers were running. This aligns with what we had seen in January. Upon arrival the programmable logic controller (PLC) was frozen and inoperable. The PLC has been 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 been able to align on timing but will continue to monitor.

Collection System Operations and Maintenance

Collection System

No issues or updates this month.

Lift Stations

2-28-24 Did not received weekly call for generator running, and lift stations reporting “phone line disconnected”. Drove to facility and determined that call out capabilities were inoperable due to miscommunication with phone company. NLTUA staff worked quickly to get comms reinstated and we have had no issues since.

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
2-12-2024	9791 Manitou Trail	No power to panel	Homeowner addressed
2-20-2024	303 West 3 rd Street	Pump not running	Replaced Capacitors
2-28-2024	11343 Northshore Dr.	Pump no running	Cleared obstruction, replaced capacitors

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	2nd quarter 2024	May 2024

Financial Report

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

Current Reporting Month	Feb-24	Comments
Repairs Spending Treatment Plant Current Month	\$ 2,232.25	Miscellaneous repair charges, valves and gauges for ferric feed system.
Repairs Spending Treatment Plant Year to Date	\$ 2,232.25	
Repairs Spending Residential Grinder Pumps Current Month	\$ 1,247.80	Grinder pump repair parts inventory.
Repairs Spending Residential Grinder Pumps Year to Date	\$ 1,247.80	
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	25.00	
Repairs Hours Treatment Plant Year to Date	49.00	
Repairs Hours Treatment Plant Current Month	-	
Repairs Hours Treatment Plant Year to Date	-	
Repairs Hours Residential Grinder Pumps Current Month	5.50	
Repairs Hours Residential Grinder Pumps Year to Date	40.30	
Repair Hours Collection System (lift stations/sewer) Current Month	5.50	
Repair Hours Collection System (lift stations/sewer) Year to Date	18.60	
Total Repair Hours Current Month	36.00	
Total Repair Spending Current Month	\$ 3,480.05	
Total Repair Hours Year to Date	107.90	
Repairs Hours Budget Remaining (Limit 300 Hrs)	192.10	
Total Repair Spending Year to Date	\$ 3,480.05	
Repair Spending Budget Remaining (Limit \$8,000)	\$ 4,519.95	
Total Repair Hours 2023	502.00	
Total Repair Spending 2023	\$ 38,307.17	