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DATE: September 19th, 2022

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 Andrew Waldron, Jacobs
 Justin Straub, Jacobs

This report describes our activities during the month of August 2022. If you require additional information that would make these monthly reports more useful to you, please let us know. Permit compliance report data is submitted to the Department of Environment Great Lakes and Energy (EGLE) electronically.

Treatment Plant

	August	Last Month	Last Year
Influent flow daily average, GPD	73,997	73,052	84,204
Monthly electrical usage, Kw Hrs	32,163	28,991	26,363

Increase in electrical consumption is related to pumping basin 2 stored water back to the plant headworks in preparation for the settling basin cleaning

Annual monitoring well sampling was completed on August 9th.

Quarterly sand filter preventive maintenance was completed on August 16th.

Lift Stations / Collection System

Installed a new calcium nitrate pump at the Northport Point Rd. lift station. The feed rate is set to pump constantly into the wet well per our discussions with an odor control representative.

Residential Grinder pumps

As part of our due diligence to reduce repeat call outs to residential grinders we perform the following checks before leaving the site. Table 1 below summarizes our grinder pump responses. More details can be provided upon request.

- ✓ 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.

Table 1: Grinder Pump Responses

Date	Location	Alarm/Issue	Resolution
8-1-22	344 Nagonaba St.	<ul style="list-style-type: none"> • High Level 	<ul style="list-style-type: none"> • Replaced failed anti-syphon valve
8-3-22	11225 North Shore Dr.	<ul style="list-style-type: none"> • Residents' sewer backing up 	<ul style="list-style-type: none"> • Alarm light was burnt out. Replaced bulb and alarm relay switch. • Replaced the start capacitor • Replaced high level float and start float switch.
8-16-22	12949 Northport Point Rd.	<ul style="list-style-type: none"> • High Level 	<ul style="list-style-type: none"> • Float switches were interfering with each other. Adjusted control float switch elevations.
8-23-22	359 West 3 rd St.	<ul style="list-style-type: none"> • Grinder making noise 	<ul style="list-style-type: none"> • Inspected panel and wet well and found everything in good working condition.
8-27-22	208 West St.	<ul style="list-style-type: none"> • High Level • Pump Overload 	<ul style="list-style-type: none"> • Reset the pump and all ran as normal. Pump most likely was jammed and passed the obstruction when restarted. • Completed all checks and found no issues. 8-3-22

On the Horizon

Task	Update	Estimated time of completion
Aeration blower #2 repair or replacement	Working with new supplier Kennedy Industries	Fall 2022
Settling basin cleaning	Prepping for cleaning	October 2022
Landia mixer #4	Mixer expected to arrive in September	Fall 2022
7th St. station controller replacement	Obtaining cost for direct replacement controller	Fall 2022
Main lift station controller replacement	Provided NLTUA cost for approval.	Fall 2022
Repair utility sink cold water line	Schedule repair	Fall 2022
Hach SC 100 replacement	Received unit. Scheduling install	Summer 2022
Main lift station pump	Currently no definite timeline of delivery	Fall 2023

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Main lift station re-lining	No updates	2023
Force main cleaning from main lift station to plant	Develop cleaning plan	2023
Settling basin engineering evaluation	No updates	2023
Capacity evaluation task 1 and 2	No updates	2023
Ferric Chloride room day tank relocation	No updates	2023

Financial Report

Current Reporting Month	Aug-22	Comments
Repairs Spending Treatment Plant Current Month	\$ 4.92	Purchasing tax
Repairs Spending Treatment Plant Year to Date	\$ 9,928.10	
Repairs Spending Residential Grinder Pumps Current Month	\$ 541.05	Spare residential grinder repair parts
Repairs Spending Residential Grinder Pumps Year to Date	\$ 10,205.65	
Repair Spending Collection System (lift stations/sewer) Current Month	\$ -	
Repair Spending Collection System (lift stations/sewer) Year to Date	\$ 3,998.69	
Repairs Hours Treatment Plant Current Month	-	
Repairs Hours Treatment Plant Year to Date	220.50	
Repairs Hours Residential Grinder Pumps Current Month	27.00	
Repairs Hours Residential Grinder Pumps Year to Date	132.25	
Repair Hours Collection System (lift stations/sewer) Current Month	-	
Repair Hours Collection System (lift stations/sewer) Year to Date	122.00	
Total Repair Hours Current Month	27.00	
Total Repair Spending Current Month	\$ 545.97	
Total Repair Hours Year to Date	474.75	
Repairs Hours Budget Remaining (Limit 300 Hrs)	(174.75)	Repair labor hours over 300 hour limit
Total Repair Spending Year to Date	\$ 24,132.44	
Repair Spending Budget Remaining (Limit \$8,000)	\$ (16,132.44)	Repairs over \$8,000.00 limit
Total Repair Hours 2021	826.45	
Total Repair Spending 2021	\$ 16,154.42	

If you have any questions or concerns, please feel free to contact us.

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