Lemoyne Municipal Authority Wastewater Report

March 2, 2023

Dear Council / Authority Members:

- Reporting Month: **January 2023**
- Effluent violations: **Yes**
- Monthly EDMR submittal date: **February 24, 2023**
- Quarterly EDMR submittal date: **February 24, 2023**
- Annual EDMR submittal date: **November 16, 2022**
  (Electronic Discharge Monitoring Report)

January 2023 Data Summary

Parameter	Max	Min	Average	Permit Limit
Flow (Gal.)	409,000	281,000	327,000	n/a
CBOD5 (mg/l)	41.5	10.8	31.1	25 avg 50 max
TSS (mg/l)	48.5	14.5	31.7	30 avg 60 max
Phosphorus (mg/l)	4.99	0.75	3.53	4.0 instant 2.0 avg
Ammonia (mg/l)	27.9	23.5	25.4	Monitor & Report
Fecal Coliform (cfu)	>20000	5	>4311	2,000 (geo mean) 10,000 max
Total Residual Chlorine (mg/l)	1.34	0.01	0.18	0.5 avg 1.6 max
pH (S.U.)	7.90	7.28	n/a	6 to 9
Dissolved Oxygen (mg/l)	10.63	7.54	9.44	>5.0

- CBOD5- (Carbonaceous Biological Oxygen Demand)
- TSS- (Total Suspended Solids)

Biosolids

# of Loads	Wet Tons	Dry Tons	% Solids Range
4	56.93	11.47	20.0-20.3

PA 1 Calls

Routine PA 1 Calls	Emergency PA 1 Calls
40	5

Routine Maintenance / Events

- Biosolids being hauled as generated to Blue Ridge Landfill.
- Process control adjustments as required.
- Sampling and Lab Analysis.
- Daily operations ongoing including inspections, cleaning, testing and chemical replenishment.
- Ongoing completion of preventative maintenance schedule.
- Continue to implement NPDES (National Pollution Discharge Elimination System) permit.

Non-Routine Maintenance / Events

- Plant equipment maintenance.
- Monitoring changes made to control nutrient removal.
- Semi-Annual calibrations completed by Control Systems 21 on 10/27/2022.
- Working with RETTEW on UV System Design.
- Annual Back flow testing @ Northside Station completed 9/21/22
- Working with RETTEW on plant issues.

Collection System

- Ongoing preventative maintenance on trouble spots. (solids, grit, grease, problem areas)
- Emergency main repair @ 3rd & Hummel- 2/21/2023. Repaired by EK Service. MH133-MH134

WWTP Personnel Info, Classes, Accomplishments

- 2 of 3 plant personnel are Licensed Operators.
- PA 1 Call recognized Lemoyne WWTP personnel on having a 100% response rate.
- All plant personnel reviewed our EAP (Emergency Action Plan), and our SPCC/PPC (Spill Prevention, Control & Countermeasures / Preparedness, Prevention & Contingency) plan.

Pending Issues

- Grit system not functioning properly due to being oversized. Not enough flow or velocity to work correctly.
- Second stage oxic tanks are not getting the amount of mixing needed since lowering the amount of air to the tanks to meet our nutrient requirements.
- Northside Station pulleys have been changed to speed up the pumps. GPM has increased. Pump adjustments and cleaning of check valves need to be completed when time permits.
- Dealing with Red Worm issue in the plant along with lack of good bugs in the plant. Getting "seed sludge" from another plant to try and get back on track. Will take some time. DEP is aware of the issue.

If you have any questions, require more information, or wish to comment on the above information, please feel free to contact me.

Respectfully,
Robert Oakes
Wastewater Superintendent