



## Monthly Informational Report

March 2024

Page 1

Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.78 miles

Lift Stations—27

Precipitation Total: 2.34 inches\*

\*Total taken from daily average of five rain gauges

- \* WWTP/RR Solar Field: solar base installed.
- \* Raineybrook Lift Station: continue directional drill, set pump station base and wet wells.
- \* Prairie Oaks Sanitary Sewer Rehab (Emergency): finish lining, begin restoration.
- \* Approved by BOW:
  - Service Area 11B: Notice of Selection on 3/12
  - Industrial User Permit Renewals for SIA, KAG Specialty Group, and Tate North.
- \* Personnel assisted with sludge trucks for the biosolids land application program.
- \* Personnel completed various annual safety training videos and quizzes.

Monthly Reports Submitted to the Indiana Department of Environmental Management (IDEM)  
 Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report

### Work Performed

- \* Removed algae from primary and final clarifier wiers.
  - \* Removed debris from aeration basins.
  - \* Dropped and cleaned chlorine contact tank.
  - \* Chemical feed pumps serviced, equipment tested, and chemical tanks filled for start of disinfection season.
  - \* Tunnels and pump rooms cleaned and equipment painted as needed; also pressure washed concrete walkways at secondary.
  - \* Fine screen conveyor system cleaned of debris, channels flushed, and exercised the gates.
  - \* 958,411 gallons of digested sludge from storage tanks dewatered for land application program.
- Necessary ground maintenance for the treatment plant was performed, daily equipment rotations continue, as well as record keeping and proper sampling procedures required by our NPDES permit.

## Operations

MARCH	2024	2023
Wastewater Treated (MG)	529.9	722.9
Average % Solids Removed	97.2%	96.5%
Biosolids Generated (MG)	2.15 MG	1.83 MG
BOD % Removed	94.5%	96.8%
Cubic Ft. of Methane Produced (Million cubic feet)	3.23 ft <sup>3</sup>	2.39 ft <sup>3</sup>
Phosphorus	83.2%	82.4%
Ammonia Overall Treatment	97.2%	98.9%

## Laboratory

2551 Tests Performed in March

- 473 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 765 Total Suspended Solids and 496 Total Volatile Solids
- 130 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 120 Plant and River samples for Ammonia
- 6 E.coli analysis on Plant and River samples
- 154 Total Solids and Volatile Solids tests on sludges
- 18 Industry and River samples for independent analysis
- 156 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 12 TKN (total kjeldahl nitrogen)
  - \* 22 Nitrate
  - \* 13 Nitrite
- 39 Waste hauler samples were collected and checked

## Maintenance

### Work Performed at Treatment Plant

- \* Replaced seal water valve on thickened sludge pump for #1 gravity belt thickener.
- \* Bleach lines repaired in bleach building.
- \* Drive chains on #5 primary tank replaced.
- \* Debris removed from gravity belt thickener feed pump lines.
- \* Replaced contact tank scum pump.
- \* Thermostat in water building replaced.
- \* Wash water valve on #2 gravity belt thickener replaced.
- \* Gravity belt thickener belt trims replaced.

### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Chemical withdrawal lines changed at Ross Road and Romney Road.
- \* Replaced gas regulators for stand-by generator at Waterstone.

# Lafayette Renew Monthly Informational Report March 2024 Page 2

## Stormwater

### STORMWATER MONTHLY NUMBERS

MARCH	2024	2023		2024	2023
Catch Basin Calls	6	15	Erosion Control Inspections	47	83
Sweeper Calls	11	15	Catch Basin Repaired	3	0
Sweeper Debris Removal (tons)	189	182	Catch Basins Cleaned	3	226
Stormwater Calls	1	10	Ft. of Storm Sewer Jet Clean	908	708

### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Performed one Best Management Practice (BMP) Inspections in the City.
- \* Maintenance performed on bio-swales at Veteran's Memorial Parkway (VMP), Maple Point Drive, and Concord Road, on rain gardens at the County Courthouse and on North Street, and on Jeff High School Storm Park.
- \* Grounds maintenance performed at 16 City-owned properties.
- \* Storm sewer preventative maintenance performed in the area of: S. 24th St. to Earl Ave. and Warner St. to King St.
- \* Reset pavers and add stone at S. 9th Street & Kossuth Street.
- \* Removed sediment, regrade, seed, and blanket drainage swale on Frontage Road.
- \* Prep bioswales and rain gardens for spring.
- \* Assist Waterworks with repair on Duroc Court.
- \* Finished curtain replacement on sweeper heads.

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Ice Cram Specialties and Industrial Plating  
**GENERAL:** Foodliner, KAG Specialty Group, and Southwire

### Annual Industrial Pretreatment Inspections

Kelly Construction and Rea Magnet

#### GREASE TRAPS

Interior Inspection	18	Business Compliance Meeting	2
Exterior Inspection	39	Rough-in Inspection	1
Oil/Grit Separator Inspection	48	Final Inspection	2
Plan Reviews	8	Under Slab Inspection	1

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Sampler battery testing continues.
- \* Inspection Notification Letters sent to applicable dental offices.
- \* Site visit conducted at KAG Specialty Group.
- \* Preventative maintenance performed on rain gauges.
- \* Dye test performed at City Hall to investigate water issue.

### Biosolids Land Application Program

- \* Biosolids hauled - 2.26 MG with average % solids of 4.35
- \* Volute press (landfilled) - 147.10 dry tons
- \* The monthly Land Application of Biosolids report was submitted to IDEM.
- \* Field checks performed on permitted ground that biosolids were applied to.

## Sewers

### SEWER MONTHLY NUMBERS

MARCH	2024	2023		2024	2023
Backup Calls	6	31	Manhole Frames Raised	2	1
City Blockages	0	3	Ft. of Sewer Jet Cleaned	0	3,426
Sanitary Calls	4	12	Ft. of Sewer Jet Cleaned—PM	78,129	799
Odor Calls	2	0	Total Manholes Cleaned	361	4
Tap Inspections	27	49	Ft. of Sewer Televised	514	246
Sewer Locates	1,302	1,648	Ft. of Sewer Root Cut	0	493

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Sewer repair at S. 9th Street and Adams Street.
- \* Begin CAT Park project installing sanitary and storm sewer lines..
- \* Pump set up at City Hall for water issues.