



## Monthly Informational Report

August 2024

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Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.78 miles

Lift Stations—27

Precipitation Total: 2.30 inches\*

\*Total taken from daily average of five rain gauges

- \* Service Area 11B: construction site mobilization, dewatering wells installed
- \* CSO LTCP Phase II HRT: 60% design with Greeley & Hansen Eng
- \* Three Packs project:
  - Coarse Bar Screen—coarse screens arrive, prep site for the installation
  - Underwood Collection System – dry well installation completed
- \* Approved by BOW:
  - Raineybrook LS Upgrade: Change Order 1 And Certificate of Substantial Completion with Bowen 8/27
  - 2023 Sanitary Sewer Rehab: Certificate of Final Completion with Miller Pipeline 8/27
  - 2024 GIS Sewer Data Collection Update: Contract with BFS 8/27

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

## Operations

### Work Performed

- \* Removed algae from primary and secondary clarifier weirs.
- \* Debris removed from aeration basins.
- \* Five of the 70' final clarifiers were taken offline and three of the 90' final clarifiers were put online.
- \* Four anaerobic digesters were serviced for cracks/leaks and the exterior sealed and painted by an outside contractor.
- \* Dropped and flushed the grit removal tanks.
- \* Cleaned fine screen conveyor system of debris buildup.
- \* Fine screen channels flushed and exercised the gates.
- \* 780,400 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.

<u>AUGUST</u>	<u>2024</u>	<u>2023</u>
Wastewater Treated (MG)	494.1	520.4
Average % Solids Removed	97.4%	97.5%
Biosolids Generated (MG)	2.36 MG	2.47 MG
BOD % Removed	93.4%	93.7%
Cubic Ft. of Methane Produced (Million cubic feet)	2.49 ft <sup>3</sup>	2.46 ft <sup>3</sup>
Phosphorus	77.0%	81.6%
Ammonia Overall Treatment	96.3%	98.2%

## Laboratory

2,312 Tests Performed in March

- 474 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 744 Total Suspended Solids and 480 Total Volatile Solids
- 120 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 139 Plant and River samples for Ammonia
- 44 E.coli analysis on Plant and River samples
- 103 Total Solids and Volatile Solids tests on sludges
- 65 Industry and River samples for independent analysis
- 170 Phosphorous tests on Plant, River, and Ditch samples
- 203 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 13 TKN (total kjeldahl nitrogen)
  - \* 17 Nitrate
  - \* 4 Nitrite
- 36 Waste hauler samples were collected and checked

## Maintenance

### Work Performed at Treatment Plant

- \* Replaced controller on #2 polymer pump in thickener building.
- \* Refrigeration unit on effluent sampler replaced.
- \* Motor starter replaced on 3C mixer on #3 digester.
- \* Replaced seal on multiple digester lids.
- \* Airlocked primary sludge pumps pulled in the tunnel.
- \* Front door threshold of sewer garage replaced.

### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Generator block heater replaced at Rome Drive.
- \* Omni-site system replaced at Wildcat and Hickory Hills.
- \* Debris removed from #2 pump at Crouch.

# Lafayette Renew Monthly Informational Report

August 2024

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CINDY MURRAY

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Industrial Plating, Ice Cream Specialties, Caterpillar, Nanshan, and Arconic

**GENERAL:** Foodliner and KAG Specialty Products Group

### Annual Industrial Pretreatment Inspections

Primient	
GREASE TRAPS	
Interior Inspection	12
Exterior Inspection	60
Oil/Grit Separator Inspection	44
Plan Reviews	12
Business Compliance Meeting	0
Rough-in Inspection	4
Final Inspection	1
Under Slab Inspection	1

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and creek and ditch sampling was performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Preventative maintenance performed on all rain gauges.
- \* Personnel conducted eight inspections at dental facilities.
- \* Priority Pollutant sampling conducted at WWTP.
- \* Industrial SOP's continue to be reviewed.
- \* Begin review of Sewer Use Ordinance.
- \* Research for Industrial Pretreatment software for possible future use.

### Biosolids Land Application Program

- ◆ Biosolids hauled - none
- ◆ Volute press (landfilled) - 100.83 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

## Stormwater

### STORMWATER MONTHLY NUMBERS

AUGUST	2024	2023		2024	2023
Catch Basin Calls	0	7	Erosion Control Inspections	50	64
Sweeper Calls	8	16	Catch Basin Repaired	3	5
Sweeper Debris Removal (tons)	153	153.7	Catch Basins Cleaned	124	355
Stormwater Calls	6	11	Ft. of Storm Sewer Jet Clean	107	84

### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Worked on Illicit Discharge Detection and Elimination (IDDE) program.
- \* 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 21 City-owned properties.
- \* Storm sewer preventative maintenance performed from Wabash Avenue to Crestview Court, from Sawmill Run to Poland Hill area.
- \* Maintenance on Brown Street/North Street pavers and on Kossuth Street pavers; also replaced missing pavers and sand from joints at Kossuth Street pavers.
- \* Maintenance work completed to remove cattails, install pipe, and mosquito block on Cottonwood Circle.
- \* Rip rap added to drainage swale in Waterstone subdivision.
- \* Curb modification performed at S. 14th St. & Congress St. and at S. 12th St. & Ocala Ave, to improve drainage.

## Sewers

### SEWER MONTHLY NUMBERS

AUGUST	2024	2023		2024	2023
Backup Calls	11	33	Manhole Frames Raised	1	5
City Blockages	0	1	Ft. of Sewer Jet Cleaned	251	1,166
Sanitary Calls	5	12	Ft. of Sewer Jet Cleaned—PM	21,153	83,399
Odor Calls	0	1	Total Manholes Cleaned	78	354
Tap Inspections	21	52	Ft. of Sewer Televised	372	661
Sewer Locates	1,057	2,152	Ft. of Sewer Root Cut	251	674

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Install inlet catch basin protection at Tate & Lyle rail yard.
- \* Lowered manhole and poured sidewalk in 1900 block of Canyon Creek Drive.
- \* Smoke test performed along Elliott Ditch sewer for investigative purposes.
- \* Course screen channel in headworks vacuumed out.
- \* Concrete work performed in 700 block of S. Earl Avenue to assist with drainage issues.