



# Monthly Informational Report June 2024

Page 1

Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.78 miles

Lift Stations—27

Precipitation Total: 2.47 inches\*  
\*Total taken from daily average of five rain gauges

- \* WWTP/RRLS Solar Field: wiring and permanent fence installed for Ross Rd.
- \* Vinton Woods Drainage/Stormwater Conveyance: punchlist/warranty completed
- \* Three Packs project:
  - Coarse Bar Screen – one bar screen removed at plant
  - Underwood Collection System – dry well installation continues
- \* Approved by BOW:
  - Service Area 11B: proposal GMAX price on 6/11

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.
  - \* Emptied and cleaned a primary clarifier for repair.
  - \* Dropped and flushed the grit removal systems.
  - \* Cleaned fine screen conveyor system of debris buildup.
  - \* Fine screen channels flushed and exercised the gates.
  - \* 1,267,700 gallons of digested sludge from storage tanks dewatered for land application program and personnel assisted with loading sludge trucks.
- 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>JUNE</u> | <u>2024</u>          | <u>2023</u>          |
|--|-------------|----------------------|----------------------|
| Wastewater Treated (MG)                            |             | 476.8                | 435.7                |
| Average % Solids Removed                           |             | 97.4%                | 96.7%                |
| Biosolids Generated (MG)                           |             | 2.16 MG              | 1.88 MG              |
| BOD % Removed                                      |             | 94.9%                | 94.0%                |
| Cubic Ft. of Methane Produced (Million cubic feet) |             | 3.44 ft <sup>3</sup> | 2.47 ft <sup>3</sup> |
| Phosphorus   |             | 81.4%                | 81.1%                |
| Ammonia Overall Treatment                          |             | 97.9%                | 99.4%                |

## Laboratory

2398 Tests Performed in March

- 443 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 958 Total Suspended Solids and 480 Total Volatile Solids
- 140 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 122 Plant and River samples for Ammonia
- 38 E.coli analysis on Plant and River samples
- 129 Total Solids and Volatile Solids tests on sludges
- 20 Industry and River samples for independent analysis
- 146 Phosphorous tests on Plant, River, and Ditch samples
- 139 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 12 TKN (total kjeldahl nitrogen)
  - \* 3 Nitrite
  - \* 20 Nitrate
- 48 Waste hauler samples were collected and checked

## Maintenance

Work Performed at Treatment Plant

- \* Replaced mixer in #1 storage tank.
- \* Exhaust fan motor replaced in bleach building.
- \* Repaired chain in #2 primary tank.
- \* Repaired air compressor in Storm building.
- \* Assisted Parks Dept. setting up stage at Loeb Stadium.

Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Replaced #1 pump at Greenbriar.
- \* Battery backup for high wet well float replaced at 9th & Beck.
- \* Primary transformer replaced at Raineybrook.
- \* At McCarty Lane: replaced generator; removed debris from #1 pump; and replaced pump controller, #1 main breaker, and motor starter.

FILED  
CITY CLERK  
2024 JUL 23 P 4:25  
CINDY MURRAY

# Lafayette Renew Monthly Informational Report

June 2024

Page 2

## Stormwater

### STORMWATER MONTHLY NUMBERS

| JUNE                          | 2024 | 2023 |                              | 2024 | 2023 |
|-------------------------------|------|------|------------------------------|------|------|
| Catch Basin Calls             | 3    | 5    | Erosion Control Inspections  | 48   | 37   |
| Sweeper Calls                 | 6    | 19   | Catch Basin Repaired         | 7    | 23   |
| Sweeper Debris Removal (tons) | 156  | 161  | Catch Basins Cleaned         | 271  | 88   |
| Stormwater Calls              | 6    | 2    | Ft. of Storm Sewer Jet Clean | 0    | 0    |

### 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 18 City-owned properties.
- \* Storm sewer preventative maintenance performed in the area of: Creasy Ln. to Park East Blvd & Heather Ln. to McCarty Ln; also Wabash Ave. to S. 23rd St. & Central St. to Teal Rd.
- \* Maintenance on Brown Street/North Street pavers and on Kossuth Street pavers.
- \* Sediment trap cleaned out and algae removed at Vinton Woods Ponds.
- \* Grounds maintenance on concrete median islands on the south side of the city and also at the entrance to the LUR ditch.

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Cargill, Kelly Construction, Tate & Lyle, and Caterpillar

**GENERAL:** Evonik

### Annual Industrial Pretreatment Inspections

Arconic and Caterpillar

#### GREASE TRAPS

|                               |    |                             |   |
|-------------------------------|----|-----------------------------|---|
| Interior Inspection           | 11 | Business Compliance Meeting | 1 |
| Exterior Inspection           | 63 | Rough-in Inspection         | 2 |
| Oil/Grit Separator Inspection | 38 | Final Inspection            | 1 |
| Plan Reviews                  | 7  | Under Slab Inspection       | 2 |

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and creek and ditch sampling was performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Maintenance performed on Pearl River rain gauge.
- \* Personnel conducted seven inspections at dental facilities.
- \* Site visit conducted at Haan Plumbing and Caterpillar.
- \* Sampler set up at WWTP’s final effluent.
- \* Investigated industrial parks for potential miscellaneous users.

### Biosolids Land Application Program

- ◆ Biosolids hauled - none
- ◆ Volute press (landfilled) - 237.18 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

## Sewers

### SEWER MONTHLY NUMBERS

| JUNE            | 2024  | 2023  |                             | 2024    | 2023   |
|-----------------|-------|-------|-----------------------------|---------|--------|
| Backup Calls    | 16    | 16    | Manhole Frames Raised       | 1       | 1      |
| City Blockages  | 0     | 1     | Ft. of Sewer Jet Cleaned    | 1,563   | 407    |
| Sanitary Calls  | 9     | 3     | Ft. of Sewer Jet Cleaned—PM | 106,923 | 33,935 |
| Odor Calls      | 0     | 0     | Total Manholes Cleaned      | 438     | 139    |
| Tap Inspections | 45    | 104   | Ft. of Sewer Televised      | 913     | 0      |
| Sewer Locates   | 1,198 | 2,003 | Ft. of Sewer Root Cut       | 693     | 0      |

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Vacuum cleaned drains in headworks building.
- \* Televised sewers in the Meadow Drive area for investigative purposes.
- \* Wet well at Greenbriar lift station vacuum cleaned for maintenance repairs.