



## Monthly Informational Report September 2022

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Daily Plant Capacity (peak)—66 MGD

Storm Pumping Stations—3

Collection System Maintained—484.21 miles

Lift Stations—27

Precipitation Total: 0.99 inches\*

\*Total taken from daily average of five rain gauges

- \* Ortman Lane Drainage: ditch work completed, seeded the area.
- \* 40 & 8 Lift Station & Force Main Replacement: continue pump station install.
- \* S 30th Street Drainage Phase II: punch list work and Certificate of Substantial Completion approved by BOW.
- \* Also approved by BOW :
  - 7th Street Storm Sewer: Notice of Award, Contract, and Notice to Proceed with Bowen Engineering.
  - WWTP Solar Field: Request to Advertise to Bid.
  - 4th St Sewer Realign: design contract w/ BFS.
  - Service Area 11B: design contract w/ HWC.
  - 7th St Permeable Paver: design contract w/ BFS.
- \* Personnel participated in Wonders on the Wabash.
- \* Renew had an educational booth at Tate North’s Health & Safety Fair.

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

#### Work Performed

- \* Working on plant upgrades and new equipment start-ups.
- \* Dropped one primary clarifier for cleaning and inspection.
- \* Pumped down headworks wet-wells to remove grit from system.
- \* Removed algae from primary and secondary clarifiers.
- \* Began winterizing buildings and water and sludge lines.
- \* Restored some SCADA controls that were lost during PLC upgrades.
- \* 1,323,443 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.

The Operations Department continues to run a very efficient process well within our NPDES permit limits.

## Operations

SEPTEMBER	2022	2021
Wastewater Treated (MG)	446.8	477.3
Average % Solids Removed	97.6%	98.3%
Biosolids Generated (MG)	2.09 MG	2.05 MG
BOD % Removed	96.7%	96.3%
Cubic Ft. of Methane Produced (Million cubic feet)	2.00 ft <sup>3</sup>	1.72 ft <sup>3</sup>
Phosphorus	84.2%	84.8%
Ammonia Overall Treatment	99.5%	99.0%

## Laboratory

2627 Tests Performed in September

- 431 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1238 Total Suspended Solids and 480 Total Volatile Solids
- 180 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 72 Plant and River samples for Ammonia
- 38 Ecoli analysis on Plant and River samples
- 134 Total Solids and Volatile Solids tests on sludges
- 29 Industry and River samples for independent analysis
- 112 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 5 TKN (total kjeldahl nitrogen)
  - \* 5 Nitrate
  - \* 5 Nitrite
  - \* 21 Total Nitrogen
- 120 Chlorine samples on plant effluent samples were checked
- 41 Waste hauler samples were collected and checked

## Maintenance

### Work Performed at Treatment Plant

- \* Blockage cleared on #1 gravity belt feed pump in thickener building.
- \* Air locked #2 polymer pump repaired.
- \* Heater repaired in sprinkler water room.
- \* Repaired #5 primary pump in the tunnel.
- \* Flight on the #4 primary tank repaired.
- \* Install new lift gate on mower trailer.
- \* Replace battery backup in sludge transfer pump room.
- \* Communication wires replaced for wasting rotork valves.
- \* Repaired #3 final tank inlet gate at secondary.

### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Cleaned gutters at Pearl River.
- \* Fans on #4 adjustable frequency drive replaced at Ross Road

# Lafayette Renew

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### Stormwater

#### STORMWATER MONTHLY NUMBERS

SEPTEMBER	2022	2021		2022	2021
Stormwater Calls	6	3	Catch Basin Repaired	9	6
Erosion Control Inspections	26	47	Ft. of Storm Sewer Jet Clean	210	0
Sweeper Debris Removal (tons)	156.5	133	Catch Basins Vac Cleaned	1	143
Catch Basin Calls	2	1	Sweeper Call	21	8

#### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* Performed 16 Best Management Practice (BMP) Inspections throughout the City and worked on Illicit Discharge Detection and Elimination (IDDE) program.
- \* Maintenance performed on bio-swaales 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 in the area of: Ferry St. to Oregon St. & 5th St. to 14th St.
- \* Jet clean culvert pipes on Teal Road.
- \* Sediment trap cleaned at Jeff Storm Park and replaced rip rap.
- \* Personnel attended Indiana Association for Floodplain and Stormwater Management (INAFSM) annual conference.
- \* Repair pavers at Jeff HS Storm Park.
- \* Investigate and clean-up spill at N. 6th Street & Main Street.

### Surveillance

#### Performed Surveillance

**SIGNIFICANT:** Industrial Plating and Ice Cream Specialties  
**GENERAL:** Lafayette Sani Wash, Transport Service, and Southwire

#### Annual Industrial Pretreatment Inspections

DANA

#### Grease Traps

Interior Insp. - 18	Plan Reviews - 4
Exterior Insp. - 71	Rough-in Insp. - 2
Oil/Grit Sep. Insp. - 32	Under Slab Insp. - 1
Business Compliance Meetings - 1	Final Insp. - 1

#### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Sludge Analysis Report was submitted to IDEM.
- \* Local Limits testing performed at permitted industrial sites.
- \* Arconic Permit renewal approved by BOW.
- \* Site visits performed at Foodliner and Industrial Plating.
- \* Soil sampling performed on permitted ground for the biosolids land application program.
- \* Semi-annual Whole Effluent Toxicity (WET) Test completed.

#### Biosolids Land Application Program

- ◆ Volute press (landfilled) - 149.69 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

### Sewers

#### SEWER MONTHLY NUMBERS

SEPTEMBER	2022	2021		2022	2021
Backup Calls	5	6	Manhole Frames Raised	1	0
City Blockages	0	0	Manholes Repaired	0	0
Sanitary Calls	17	9	Ft. of Sanitary Sewer Repaired	0	0
Odor Calls	1	3	Ft. of Sewer Jet Cleaned	199	0
Tap Inspections	31	34	Ft. of Sewer Jet Cleaned—PM	46,303	101,964
Sewer Locates	1,622	1,171	Ft. of Sewer Televised	430	195

#### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Quarterly manhole checks performed.
- \* Hose on jet #364 replaced.
- \* Force main located in Area 21 (Schuyler Avenue & E 200 N).
- \* Personnel attended Hands on Transportation education program for kids.
- \* Yard drain at Columbian Park's new restrooms lowered.
- \* Bobcat training completed by Renew personnel.