



Monthly Informational Report

May 2025

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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: 2.47 inches*

*Total taken from daily average of five rain gauges

- * Service Area 11B: water main and sewer lines installation continues, three walls of lift station poured, begin force main installation on Wea.
- * HRT Facility: site work continues, begin electrical conduit installation.
- * 9th Street Culvert Repair: culvert cleared and lined with geo-polymer.
- * Three Packs Project—Aeration tank diffusers: #1 & #3 tanks online, project completed
- * Approved by BOW:
 - ◆ Prairie Oaks Bypass: Notice of Award 5/20
- * Personnel completed Operator Certification training
- * Personnel completed Jet Truck Excavation training with LFD.
- * Personnel attended Annual MS4 (Municipal Separate Storm Sewer System) conference.

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

Work Performed

- * Algae removed from primary and final clarifier weirs.
 - * Debris removed from aeration basins.
 - * Dropped two primary clarifiers for maintenance repair.
 - * Pressure washed dumpster rooms and equipment in headworks building.
 - * All of the upgraded aeration basins are online with new air diffusers.
 - * Continue to paint safety lines and trip hazards throughout the plant.
 - * Dropped and flushed grit removal tanks.
 - * Fine screen channels flushed and exercised the gates and cleaned conveyor of debris buildup.
 - * 337,998 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.

Operations

MAY	2025	2024
Wastewater Treated (MG)	524.0	551.6
Average % Solids Removed	96.8%	97.2%
Biosolids Generated (MG)	1.88 MG	2.2 MG
BOD % Removed	95.5%	93.6%
Cubic Ft. of Methane Produced (Million cubic feet)	3.04 ft ³	3.38 ft ³
Phosphorus	83.3%	76.8%
Ammonia Overall Treatment	99.5%	97.7%

Laboratory

2,263 Tests Performed in March

- 431 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 790 Total Suspended Solids and 496 Total Volatile Solids
- 136 pH tests on wastewater and sludges
- 155 Settleable solids were conducted on the mixed liquors
- 146 Plant and River samples for Ammonia
- 40 E.coli analysis on Plant and River samples
- 107 Total Solids and Volatile Solids tests on sludges
- 29 Industry and River samples for independent analysis
- 180 Phosphorous tests on Plant, River, and Ditch samples
- 171 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 10 TKN (total kjeldahl nitrogen)
 - * 10 Nitrate
- 58 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * In the thickener building:
 - Cleaned polymer pumps for gravity belt thickener.
 - Replaced tubing and pump head on #7 ferric pump.
 - Replaced steering cylinder on #1 gravity belt thickener.
- * Replaced the coupling on hot water supply pump #9.
- * #2 raw sludge pump replaced in the tunnel.
- * All of the chain and some flights replaced in #4 primary tank and left side chain in #1 primary tank replaced.
- * Replaced 4B recirculation pump for #4 digester.
- * Debris removed from #6 raw sludge pump check valve.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Replaced temporary pump with the permanent pump in #1 position at Waterstone.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

MAY	2025	2024		2025	2024
Catch Basin Calls	7	7	Erosion Control Inspections	38	66
Sweeper Calls	15	12	Catch Basin Repaired	8	7
Sweeper Debris Removal (tons)	195.7	236	Catch Basins Cleaned	208	147
Stormwater Calls	3	3	Ft. of Storm Sewer Jet Clean	23	43

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed two Best Management Practice (BMP) Inspections throughout the City and 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 in the area of: Beck Ln. to Teal Rd. and Bennett Rd, to Summertime Trl.
- * Performed SWPPP inspections at Facilities Department.
- * Investigate and address Mulberry Court standing water issues.
- * Flows on South Street swale drainage investigated.
- * Begin annual maintenance program on Brown Street pavers.
- * Performed preventative maintenance on City sewer lines servicing Tate North.

Surveillance

Performed Surveillance

SIGNIFICANT: Industrial Plating, Ice Cream Specialty, Arconic, Nanshan, and Caterpillar

GENERAL: none

Annual Industrial Pretreatment Inspections

Caterpillar

GREASE TRAPS

Interior Inspection	17	Business Compliance Meeting	1
Exterior Inspection	60	Rough-in Inspection	4
Oil/Grit Separator Inspection	11	Under Slab Inspection	3
Plan Reviews	6	Final Inspection	0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling performed.
- * Durkees Overflow data downloaded for monthly report.
- * Site visit conducted at Lineage Logistics.
- * Inspections performed at Caterpillar for new construction.
- * Clean Line , a new Septic Waste Hauler, has been permitted.
- * Project with Purdue continues.
- * Completed reviews for Industrial Parks.

Biosolids Land Application Program

- ◆ Biosolids hauled - 2.77 MG with average % solids of 4.034
- ◆ Volute press (landfilled) - 21.71 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.
- ◆ Field checks performed on permitted ground that biosolids are applied to.

Sewers

SEWER MONTHLY NUMBERS

MAY	2025	2024		2025	2024
Backup Calls	10	17	Manhole Frames Raised	0	1
City Blockages	1	0	Ft. of Sewer Jet Cleaned	540	857
Sanitary Calls	8	6	Ft. of Sewer Jet Cleaned—PM	21,775	10,299
Odor Calls	0	0	Total Manholes Cleaned	83	52
Tap Inspections	28	21	Ft. of Sewer Televised	898	869
Sewer Locates	1,473	1,569	Ft. of Sewer Root Cut	0	0

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Clean catch basin areas.
- * Continued televising sewer lines for an I/I investigation in the area of Kossuth Street and Earl Avenue.
- * Root cut and televise sewer line in 600 block of Wabash Avenue.
- * Repair City manhole concrete pad on County Hwy. Dept. property.
- * Performed sewer manhole repair at Shamrock Park.
- * Completed sewer repair in 1100 block of Alder Drive.
- * Televised sewer line between Ferry and Main Streets for investigation purposes.