



Monthly Informational Report November 2023

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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: 0.43 inches*

*Total taken from daily average of five rain gauges

- * Approved by BOW:
 - 4th Street Sewer Realignment: Certificate of Final Completion with Bowen Eng.
 - CSO LTCP Phase II-D HRT: Contract with Greeley & Hansen.
- * Misc WWTP Improvements: digester mixer replacement
- * Service Area 11B: Right-of-Entry acquisition
- * 2023 Sanitary Sewer Rehab: Pre-con meeting held
- * Personnel assisted with sludge trucks for our biosolids land application program.

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 secondary clarifier weirs.
 - * Debris removed from six aeration basins.
 - * Filling the #2 anaerobic digester using seed from the other three digesters.
 - * Pumped down headworks wet wells to remove grit from the system.
 - * Completed installation of eight new flow meters and back to normal operation.
 - * At end of disinfection season, for the sodium hypochlorite and sodium bisulfite tanks, flushed and inspected, and flushed the feed lines for maintenance purposes.
 - * Pressure washed dumpster areas, cleaned the tunnels and stairways.
 - * Fine screen channels flushed and exercised the gates.
 - * 472,000 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

NOVEMBER	2023	2022
Wastewater Treated (MG)	420.3	428.3
Average % Solids Removed	96.7%	97.6%
Biosolids Generated (MG)	2.2 MG	2.08 MG
BOD % Removed	96.6%	97.5%
Cubic Ft. of Methane Produced (Million cubic feet)	1.67 ft ³	2.00 ft ³
Phosphorus	83.8%	83.3%
Ammonia Overall Treatment	99.2%	99.7%

Laboratory

2442 Tests Performed in March

- 408 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1230 Total Suspended Solids and 480 Total Volatile Solids
- 180 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 83 Plant and River samples for Ammonia
- 4 E.coli analysis on Plant and River samples
- 117 Total Solids and Volatile Solids tests on sludges
- 26 Industry and River samples for independent analysis
- 126 Phosphorous tests on Plant, Industry, and River/Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 6 TKN (total kjeldahl nitrogen)
 - * 19 Nitrate
 - * 10 Nitrite
- 43 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Replaced bearing assembly on both thickener building heat pumps.
- * Polymer tote feed tubing replaced in thickener building.
- * Water supply valve to #2 gravity belt thickener replaced.
- * Replaced chain and flights and #3 primary tank.
- * Back plate on #1 tank in the tunnel repaired.
- * Replaced 3A recirculation pump in the digester.
- * Lids on #2 digester removed for draft tube mixer replacement.
- * Eye wash station at bleach building repaired.
- * Repaired broken air line in #5 aeration tank.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.

Lafayette Renew

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Stormwater

STORMWATER MONTHLY NUMBERS

NOVEMBER	2023	2022		2023	2022
Catch Basin Calls	1	0	Erosion Control Inspections	62	74
Sweeper Calls	7	9	Catch Basins Repaired	6	0
Sweeper Debris Removal (tons)	46.5	24.7	Catch Basins Cleaned	0	71
Stormwater Calls	7	1	Ft. of Storm Sewer Jet Clean	0	155

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed one Best Management Practice (BMP) Inspections in 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 17 City-owned properties.
- * Assisted Street Dept. with leaf pick-up.
- * Prepped bio-swales and rain gardens for winter, cut back and removed trash.
- * Winterized sweepers for the season.
- * Stock piled stone at plant’s turnaround.
- * Attended Street Sweeper training at Best Equipment.

Surveillance

Performed Surveillance

SIGNIFICANT: Rea Magnet, DANA, Caterpillar, and Ice Cream Specialties (special surveillance)

GENERAL: Foodliner

Annual Industrial Pretreatment Inspections

none

GREASE TRAPS

Interior Inspection	27	Business Compliance Meeting	2
Exterior Inspection	2	Rough-in Inspection	2
Oil/Grit Separator Inspection	13	Final Inspection	0
Plan Reviews	6	Under Slab Inspection	1

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling was performed.
- * Durkees Overflow data downloaded for monthly report.
- * Site visits conducted at KAG Specialty Group (formerly Transport Service) and at Tate & Lyle North.
- * Southwire’s General Industrial User Permit renewed and approved by City BOW.
- * Corrective Action items for IDEM Pretreatment Audit completed.

Biosolids Land Application Program

- ◆ Biosolids hauled (land applied) - 4.05 MG w/ avg % solids of 3.14
- ◆ Volute press (landfilled) - none
- ◆ Field checks performed and soil sampling performed on fields permitted through the Land Application program.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

NOVEMBER	2023	2022		2023	2022
Backup Calls	6	14	Manhole Frames Raised	0	5
City Blockages	0	0	Ft. of Sewer Jet Cleaned	0	0
Sanitary Calls	8	7	Ft. of Sewer Jet Cleaned—PM	29,206	0
Odor Calls	3	3	Total Manholes Cleaned	78	0
Tap Inspections	33	26	Ft. of Sewer Televised	848	35,984
Sewer Locates	1,316	1,157	Ft. of Sewer Root Cut	0	94

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Assist with catch basin repairs.
- * Televised 30” force main on Elston Road.
- * Worked on salt box repairs.
- * Quarterly manhole inspections performed.
- * Worked on fall season sewer flush list and sewer root cutting list.