



Monthly Informational Report September 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: 0.58 inches*

*Total taken from daily average of five rain gauges

- * Approved by BOW:
 - Collection System Hydraulic Capacity Study: Contract with Greeley & Hansen
- * Raineybrook LS Upgrade: pre-bid meeting and open bids at BOW
- * 2023 Sanitary Sewer Realignment: pre-bid meeting and open bids at BOW
- * WWTP/Ross Road LS Solar Field: geotech investigation.
- * Misc WWTP Improvements: digester mixer replacement completed.
- * Vinton Woods Stormwater Conveyance: center pond and south pond liner complete, begin final grading and seeding.
- * Service Area 11B: continuation of design
- * Personnel attended annual Indiana Association for Floodplain and Stormwater Management (INAFSM) Conference.
- * Personnel assisted with Wabash River Sampling Blitz.
- * Personnel attended snow plow and street sweeper training.

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.
 - * Dropped, cleaned, and inspected two of the primary clarifiers.
 - * Pumped down headworks wet wells to remove grit from the system.
 - * Dropped and cleaned one primary clarifiers for repairs.
 - * Fine screen channels flushed and exercised the gates.
 - * 862,627 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

SEPTEMBER	2023	2022
Wastewater Treated (MG)	423.5	446.8
Average % Solids Removed	98.0%	97.6%
Biosolids Generated (MG)	19.0 MG	2.09 MG
BOD % Removed	95.0%	96.7%
Cubic Ft. of Methane Produced (Million cubic feet)	2.21 ft ³	2.00 ft ³
Phosphorus	82.4%	84.2%
Ammonia Overall Treatment	99.6%	99.5%

Laboratory

2772 Tests Performed in March

- 533 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1289 Total Suspended Solids and 480 Total Volatile Solids
- 180 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 76 Plant and River samples for Ammonia
- 38 E.coli analysis on Plant and River samples
- 132 Total Solids and Volatile Solids tests on sludges
- 19 Industry and River samples for independent analysis
- 112 Phosphorous tests on Plant, River, and Ditch samples
- 120 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)
 - * 19 Nitrate
 - * 10 Nitrite
- 39 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Replaced motor on exhaust fan #3 in thickener building.
- * #3 raw sewage pump in headworks building replaced.
- * Hoist reel replaced on utility truck #315.
- * Troubleshoot #2 gravity belt thickener in the thickener building.
- * Repaired bleach line in junction box for final clarifiers.
- * Replaced lids on #4 digester and placed back in service.
- * Chain for #5 primary cross collector repaired.
- * Back plate repaired for #2 grit pump in the tunnel.
- * Entry door adjusted for the CSO tank.

Work Performed at Lift Stations

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

Lafayette Renew Monthly Informational Report September 2023

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Stormwater

STORMWATER MONTHLY NUMBERS

SEPTEMBER	2023	2022		2023	2022
Catch Basin Calls	4	2	Erosion Control Inspections	45	26
Sweeper Calls	16	8	Catch Basin Repaired	7	9
Sweeper Debris Removal (tons)	102.1	156.5	Catch Basins Cleaned	1	1
Stormwater Calls	6	6	Ft. of Storm Sewer Jet Clean	0	210

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Maintenance performed on bio-swailes 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 line and catch basin install at 1129 Ocala Ave, also repoured driveway and abandoned old storm lines.
- * Clean catch basin areas.
- * Continued monitoring flooding concern in 1700 block of Ferry Street and in 800 block of Main Street.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan, Arconic, Cargill, and Tate & Lyle North

GENERAL: none

Annual Industrial Pretreatment Inspections

DANA

GREASE TRAPS

Interior Inspection	39	Business Compliance Meeting	0
Exterior Inspection	51	Rough-in Inspection	0
Oil/Grit Separator Inspection	21	Final Inspection	1
Plan Reviews	5	Under Slab Inspection	0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling was performed.
- * Durkees Overflow data downloaded for monthly report.
- * Site visit conducted at Transport Service, ZF, and Crossroads Galvanizing.
- * Sampling conducted for Priority Pollutant Monitoring required by our NPDES Permit.
- * Assisted in installation of temporary flow meters in the collection system.
- * Completed Industrial Park checks for new industries.

Biosolids Land Application Program

- ◆ Biosolids hauled - none.
- ◆ Volute press (landfilled) - 183.91 dry tons.
- ◆ Soil sampling performed on permitted ground that biosolids were applied to.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

SEPTEMBER	2023	2022		2023	2022
Backup Calls	8	5	Manhole Frames Raised	0	1
City Blockages	0	0	Ft. of Sewer Jet Cleaned	120	0
Sanitary Calls	9	17	Ft. of Sewer Jet Cleaned—PM	8,620	0
Odor Calls	2	1	Total Manholes Cleaned	27	199
Tap Inspections	35	31	Ft. of Sewer Televised	0	46,303
Sewer Locates	2,047	1,622	Ft. of Sewer Root Cut	0	430

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Locate laterals on Alabama Street sewer off of S. 8th Street.
- * Sewer work in the 600 block of S. 31st Street.
- * Clean catch basin areas.
- * Assisted with Ocala Avenue sewer install.
- * Booms inspected on truck #345 and #366.