



## Monthly Informational Report

August 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: 2.41 inches\*

\*Total taken from daily average of five rain gauges

- \* Approved by BOW:
  - 40 & 8 LS & Force Main Replacement: Change Order 1 & Certificate of Final Completion
  - Raineybrook LS Upgrade: Request to Advertise to Bid
  - 2023 Sanitary Sewer Realignment: Request to Advertise to Bid
- \* WWTP/Ross Road LS Solar Field: groundbreaking ceremony.
- \* Misc WWTP Improvements: PLC replacements completed.
- \* Vinton Woods Stormwater Conveyance: completed liner installation and began rip rap installation on north pond, and liner installation began on center pond.
- \* 4th Street Sewer Realignment: road repaving completed.
- \* Personnel assisted with sludge trucks for the biosolids land application program.
- \* Personnel attended the Indiana Water Environment Association (IWEA) Annual Conference and attended training for Bobcat equipment.

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.
  - \* Continue to pressure wash concrete structures and walkways throughout the plant.
  - \* Dropped, cleaned, and inspected four of the primary clarifiers.
  - \* Pumped down headworks wet wells to remove grit from the system.
  - \* Debris skimmed off of aeration basins.
  - \* Pump tubing changed in all of the chemical pumps.
  - \* Fine screen channels flushed and exercised the gates.
  - \* 673,524 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

AUGUST	2023	2022
Wastewater Treated (MG)	520.4	527.4
Average % Solids Removed	97.5%	97.1%
Biosolids Generated (MG)	2.47 MG	2.66 MG
BOD % Removed	93.7%	95.9%
Cubic Ft. of Methane Produced (Million cubic feet)	2.46 ft <sup>3</sup>	2.15 ft <sup>3</sup>
Phosphorus	81.6%	81.9%
Ammonia Overall Treatment	98.2%	97.1%

## Laboratory

2759 Tests Performed in March

- 503 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1311 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 71 Plant and River samples for Ammonia
- 39 E.coli analysis on Plant and River samples
- 130 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
- 124 Chlorine samples on plant effluent samples were checked
- Plant and river samples were tested for the following for additional NPDES permit requirements:
  - \* 5 TKN (total kjeldahl nitrogen)
  - \* 5 Nitrate
  - \* 5 Nitrite
  - \* 11 Total Nitrogen
- 44 Waste hauler samples were collected and checked

## Maintenance

### Work Performed at Treatment Plant

- \* Leaks repaired on bleach line at secondary.
- \* Repaired ferric semi tank container hook-up at the thickener building.
- \* The #2 coarse screen repaired in the headworks.

### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Removed debris from pump #3 at Cracker Barrel.
- \* #1 pump replaced at 550.
- \* Installed Omnisite system at Chesapeake Bay.
- \* Debris removed from #2 pump at Rome Drive and from #1 pump at Twyckenham.
- \* Cleaned debris from wet well at Golf Course and at Cracker Barrel.

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## Stormwater

### STORMWATER MONTHLY NUMBERS

AUGUST	2023	2022	2023	2022	
Catch Basin Calls	7	8	Erosion Control Inspections	64	61
Sweeper Calls	16	5	Catch Basin Repaired	5	8
Sweeper Debris Removal (tons)	153.7	172.6	Catch Basins Cleaned	355	618
Stormwater Calls	11	4	Ft. of Storm Sewer Jet Clean	84	125

### Work Performed

- \* Pre-construction meetings attended for erosion control measures.
- \* 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 20 City-owned properties.
- \* Storm sewer preventative maintenance performed in the area of: Park Ave. to Farabee Dr. & Ruger St. to Kossuth St. and Creasy Ln, to Veterans Memorial Pkwy. & Commerce Dr. to Kettle Cir.
- \* Continue investigation of 1129 Ocala Ave. stormwater sewer line.
- \* Repairs catch basins along McCarty Lane.
- \* Personnel assisted with Battleground Canoe float trip.
- \* Add to design of fueling station rain garden—mulch, stone, gnomes, edging.
- \* Pick up trash and clean up downtown area on major roadways.
- \* Storm building grounds cleaned up for Solar Field groundbreaking.
- \* Personnel attended IWEA Leadership classes.

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Industrial Plating, Ice Cream Specialties, Kelly Construction, and Caterpillar  
**GENERAL:** Foodliner, Southwire, and KAG Specialty Group (formerly Transport Services)

### Annual Industrial Pretreatment Inspections

Southwire and KAG Specialty Group (formerly Transport Services)

### GREASE TRAPS

Interior Inspection	21	Business Compliance Meeting	1
Exterior Inspection	82	Rough-in Inspection	0
Oil/Grit Separator Inspection	41	Final Inspection	1
Plan Reviews	7	Under Slab Inspection	3

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling and creek and ditch sampling was performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Site visit conducted at Primient and Tate & Lyle.
- \* Preventative maintenance performed on Fire Station and Pearl River rain gauges.
- \* Sampling performed for Plant Total Toxic Organics (TTO) NPDES Requirements.
- \* Conducted a tour of Lafayette Renew with personnel from SIA.
- \* Training continues for new Surveillance Technician.

### Biosolids Land Application Program

- ◆ Biosolids hauled - 3.9 MG with average % solids of 3.68.
- ◆ Volute press (landfilled) - 96.93 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

AUGUST	2023	2022	2023	2022	
Backup Calls	33	9	Manhole Frames Raised	5	3
City Blockages	1	0	Ft. of Sewer Jet Cleaned	1,166	0
Sanitary Calls	12	16	Ft. of Sewer Jet Cleaned—PM	83,399	0
Odor Calls	1	3	Total Manholes Cleaned	354	302
Tap Inspections	52	48	Ft. of Sewer Televised	661	104,838
Sewer Locates	2,152	1,854	Ft. of Sewer Root Cut	674	650

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Raised five manhole frames on Greenbush Street.
- \* Sewer work at Lybolt Field restroom.
- \* Jet clean skimmer trough at secondary at the plant.
- \* Quarterly manhole checks performed.