



Monthly Informational Report

June 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: 1.11 inches*

*Total taken from daily average of five rain gauges

- * Vinton Woods Stormwater Conveyance: excavation completed on pond 3 of 3, finish 1 and 2 of 3 and begin installation of 3 of 3 of the box culvert.
- * 40 & 8 LS & Force Main Replacement: fence installation complete.
- * 4th Street Sewer Realignment: sewer relocation complete, begin water relocation
- * Approved by BOW:
 - Chesapeake Landing Lift Station: Public Use and Maintenance Agreement of Acceptance
 - WWTP/Ross Road LS Solar Field: Contract and Notice to Proceed w/ Veregy LLC.
- * Personnel completed LDI (Leadership Development Institute) classes.
- * Lafayette Renew's Preliminary NPDES Permit reviewed.

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.
- * Pressure washed concrete structures and walkways throughout the plant.
- * Emptied and cleaned #2 sludge storage tank for inspection and sealing inside and outside of tank.
- * Pumped down headworks wet wells to remove grit from the system.
- * Cleaned gravity belt thickener building.
- * Polymer containment area and polymer feed pumps cleaned.
- * Fine screen channels flushed and exercised the gates.
- * 1,267,700 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

JUNE	2023	2022
Wastewater Treated (MG)	435.7	520.6
Average % Solids Removed	96.7%	95.6%
Biosolids Generated (MG)	1.88 MG	2.00 MG
BOD % Removed	94.0%	94.9%
Cubic Ft. of Methane Produced (Million cubic feet)	2.47 ft ³	2.08 ft ³
Phosphorus	81.1%	78.8%
Ammonia Overall Treatment	99.4%	98.6%

Laboratory

2650 Tests Performed in March

- 449 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1247 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
- 124 Total Solids and Volatile Solids tests on sludges
- 31 Industry and River samples for independent analysis
- 109 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:
 - * 5 TKN (total kjeldahl nitrogen)
 - * 5 Nitrate
 - * 5 Nitrite
 - * 11 Total Nitrogen
- 55 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Debris removed from #2 secondary scum pump check valve.
- * New vacuum pump installed in the Lab.
- * Float for bisulfite containment pit in bleach building replaced.
- * Replaced pump for contact tank scum pit.
- * In thickener building, bearing assembly on hot water pump replaced and #1 water booster pump coupling and motor replaced.
- * Solenoid valve on volute press in fine screen room replaced.
- * Replaced #2 storage tank 10" withdrawal valve.
- * Bottom floor sprinkler line repaired in digester building.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Prairie Oaks #1 pump replaced and #2 pump volute removed for repair.

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Stormwater

STORMWATER MONTHLY NUMBERS

JUNE	2023	2022		2023	2022
Catch Basin Calls	5	8	Erosion Control Inspections	37	58
Sweeper Calls	19	11	Catch Basin Repaired	23	10
Sweeper Debris Removal (tons)	161	231	Catch Basins Cleaned	88	198
Stormwater Calls	2	5	Ft. of Storm Sewer Jet Clean	0	170

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.
- * Completed installation of storm sewer at Macaw Park.
- * Bio-swales and rain gardens sprayed for thistle.
- * Investigated stormwater sewer line at 1129 Ocala Avenue.
- * Trees and logs removed from area across from the plant.
- * Picked up trash along Sagamore Parkway, South Street, and VMP.
- * Investigated Elliott Ditch sewer for infiltration concerns.

Surveillance

Performed Surveillance

SIGNIFICANT: Industrial Plating, Ice Cream Specialties, Tate & Lyle, and Caterpillar

GENERAL: Evoniks and Foodliner

Annual Industrial Pretreatment Inspections

Arconic and Primient

GREASE TRAPS			
Interior Inspection	33	Business Compliance Meeting	0
Exterior Inspection	53	Rough-in Inspection	1
Oil/Grit Separator Inspection	31	Under Slab Inspection	0
Plan Reviews	5	Final Inspection	2

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling was performed.
- * Durkees Overflow data downloaded for monthly report.
- * Annual TTO Monitoring performed at the plant.
- * Personnel attended Annual Pretreatment Conference.
- * Site visit conducted at Love's Travel Stop and Tate & Lyle.
- * Local Limits sampling performed for industrial users.
- * Dye testing performed and sections of Elliott Ditch inspected for investigational purposes at Prairie Oaks Lift Station.
- * Conducted a tour of Lafayette Renew with personnel from Industrial Plating.

Biosolids Land Application Program

- ◆ Biosolids hauled - none
- ◆ Volute press (landfilled) - 196.06 dry tons
- ◆ Field checks performed on permitted ground that biosolids were applied to.
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

JUNE	2023	2022		2023	2022
Backup Calls	16	2	Manhole Frames Raised	1	1
City Blockages	1	0	Ft. of Sewer Jet Cleaned	407	367
Sanitary Calls	3	12	Ft. of Sewer Jet Cleaned—PM	33,935	17,924
Odor Calls	0	2	Total Manholes Cleaned	139	92
Tap Inspections	104	38	Ft. of Sewer Televised	0	1,489
Sewer Locates	2,003	1,716	Ft. of Sewer Root Cut	0	240

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.
- * Assisted Waterworks Dept. with jet/vac work.
- * Installed manhole on storm sewer at Concord Road and Summer Street.
- * Finished installing sanitary sewer at McCaw Park.
- * Televiser storm sewer at 1129 Ocala Avenue.
- * Located laterals at 7th Street and Alabama Street for project.
- * Assisted LFD with gas leak at N. 18th Street and Salem Street.