



Lafayette Renew Monthly Informational Report May 2022

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Daily Plant Capacity (peak)—66 MGD

Lift Stations—27

Collection System Maintained—484.21 miles

Storm Pumping Stations—3

Precipitation Total: 3.81" inches*
*Total taken from daily average of five rain gauges

- * CSO LTCP Phase II-C: seeded and solar field on-line. *
- * Ortman Lane Drainage: Notice of Award, Contract, and Notice to Proceed with TDH Contractors approved by BOW. *
- * 40 & 8 Lift Station & Force Main Replacement: tree clearing complete and force main install begins. *
- * Vinton Woods Drainage/Stormwater Conveyance: met with Board of Directors-Neighborhood Association. *
- * Personnel attended the Wastewater Challenge and won 3rd place overall. *

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

Work Performed

- * Repaired damaged areas of the levee surrounding the plant.
- * Tested different polymers for the Volute press to find most effective product.
- * Pumped down headworks wet-wells to remove grit from system.
- * Removed algae from primary and secondary clarifiers.
- * Pressure washed dumpster areas and equipment.
- * Maintenance performed on one of the digested sludge storage tanks.
- * Dropped and inspected both grit removal tanks.
- * 1,231,795 gallons of digested sludge from storage tanks dewatered for land application program.
- * Personnel assisted with sludge trucks for the biosolids 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.

The Operations Department continues to run a very efficient process well within our NPDES permit limits.

Operations

MAY	2022	2021
Wastewater Treated (MG)	656.3	587.3
Average % Solids Removed	96.1%	93.1%
Biosolids Generated (MG)	1.96 MG	2.18 MG
BOD % Removed	94.7%	94.6%
Cubic Ft. of Methane Produced (Million cubic feet)	2.90 ft ³	2.49 ft ³
Phosphorus	81.9%	75.8%
Ammonia Overall Treatment	97.3%	99.7%

Laboratory

2959 Tests Performed in May

- 533 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1335 Total Suspended Solids and 496 Total Volatile Solids
- 186 pH tests on wastewater and sludges
- 186 Settleable solids were conducted on the mixed liquors
- 94 Plant and River samples for Ammonia
- 44 Ecoli analysis on Plant and River samples
- 144 Total Solids and Volatile Solids tests on sludges
- 49 Industry and River samples for independent analysis
- 118 Phosphorous tests on Plant, River, and Ditch samples
- Plant and river samples were tested for the following for additional NPDES permit requirements:
 - * 5 TKN (total kjeldahl nitrogen)
 - * 5 Nitrate
 - * 5 Nitrite
 - * 124 Total Nitrogen
- 124 Chlorine samples on plant effluent samples were checked
- 58 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Repaired water seal for #1 pump in thickener building.
- * Fill lines for the bleach & bisulfite tanks in the bleach building repaired.
- * Installed grating on volute press in fine screen room.
- * Reset breaker for oil pump on #4 blower in blower building.
- * Installed new sink and water heater in secondary office.
- * Repaired the #2 polymer pump.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Replaced #2 pump at Raineybrook.
- * Installed radar level unit (for water depth) at McCarty Lane and at Waterstone.

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Stormwater

STORMWATER MONTHLY NUMBERS

MAY	2022	2021		2022	2021
Stormwater Calls	5	4	Catch Basin Repaired	9	3
Erosion Control Inspections	63	47	Ft. of Storm Sewer Jet Clean	1,035	239
Sweeper Debris Removal (tons)	219	225.4	Catch Basins Vac Cleaned	114	147
Catch Basin Calls	5	5	Sweeper Call	11	15

Work Performed

- * Pre-construction meetings attended for erosion control measures.
- * Performed two Best Management Practice (BMP) Inspections throughout the City.
- * 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 20 City-owned properties.
- * Storm sewer preventative maintenance performed in the area of: Union St. to Cason St. and N. 26th St. to Earl Ave. and Union St. to Coleman Ct. and Sagamore Pkwy. To N. 36th St.
- * Cut out and replace section of sidewalk on Wabash Ave. between Alabama St. and Mechanic St.
- * Install French drain just off Wabash Ave. before railroad viaduct.
- * Add rip rap to ravine washout at Hickory Hills lift station.
- * Replace concrete washout at the treatment plant.
- * Perform preventative maintenance on pavers at Brown St. and North St.
- * Stormwater Pollution Prevention Plan (SWPPP) inspections performed at City departments.

Surveillance

Performed Surveillance

SIGNIFICANT: Rea Magnet, Fairfield (DANA), Cargill, Caterpillar, and Tate & Lyle North

GENERAL: none

Annual Industrial Pretreatment Inspections

Caterpillar and SIA

Grease Traps

Interior Insp. - 23	Plan Reviews - 5
Exterior Insp. - 53	Rough-in Insp. - 5
Oil/Grit Sep. Insp. - 26	Under Slab Insp. - 0
Business Compliance Meetings - 4	Final Insp. - 0

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling and creek and ditch sampling performed.
- * Durkees Overflow data downloaded for monthly report.
- * Annual Pretreatment Report was submitted to the Environmental Protection Agency (EPA) and IDEM.
- * Beutler Meats General Industrial User permit was reviewed and dissolved.
- * Preventative maintenance performed on three rain gauges.
- * Field inspections performed on permitted ground for the Biosolids Land Application program.

Biosolids Land Application Program

- ◆ Biosolids hauled - 1.6 MG w/ average % solids of 4.94%
- ◆ Volute press (landfilled) - 112.03 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

MAY	2022	2021		2022	2021
Backup Calls	10	18	Manhole Frames Raised	0	2
City Blockages	0	1	Manholes Repaired	0	0
Sanitary Calls	13	11	Ft. of Sanitary Sewer Repaired	0	0
Odor Calls	3	1	Ft. of Sewer Jet Cleaned	1,034	575
Tap Inspections	40	37	Ft. of Sewer Jet Cleaned—PM	31,807	17,555
Sewer Locates	1,642	1,073	Ft. of Sewer Televised	1,239	4,493

Work Performed

- * Preventative maintenance performed throughout the City.
- * Inspected Combined Sewer Overflow Structures.
- * Manhole checks performed in the Prairie Oaks subdivision area.
- * Cleaned catch basins throughout the City.
- * Completed Spring sewer flush list.
- * Installed rain garden at MatchBOX Coworking Studio.
- * Install manhole on storm sewer at S. 9th St. and Crestview Ct.
- * Televised S. 9th St. storm sewer from Teal Rd. to Durkees Ditch for investigational purposes.
- * Lateral for 2051 S. 9th St. moved from a City storm line to a City sanitary line.