



# Lafayette Renew Monthly Informational Report June 2022

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Daily Plant Capacity (peak)—66 MGD

Collection System Maintained—484.21 miles

Lift Stations—27

Storm Pumping Stations—3

**Precipitation Total: 1.73" inches\***  
\*Total taken from daily average of five rain gauges

- \* CSO LTCP Phase II-C: Certificate of Substantial Completion approved by BOW and site paving begins. \*
- \* Ortman Lane Drainage: pre-con meeting held. \*
- \* 40 & 8 Lift Station & Force Main Replacement: force main install complete. \*
- \* CSO LTCP Phase II-D: progress meeting held \*
- \* Service Area 11B: master plan complete. \*
- \* Gas-Blower Pilot & Solar Field @ WWTP: contract with Greeley & Hansen approved by BOW \*

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.
  - \* Dropped two primary clarifiers for cleaning and inspection.
  - \* Pumped down headworks wet-wells to remove grit from system.
  - \* Removed algae from primary and secondary clarifiers.
  - \* Empty and clean #1 digested sludge storage tank for inspection and complete re-sealing of all panels and flooring.
  - \* Maintenance performed on one of the digested sludge storage tanks.
  - \* Dropped and inspected both grit removal tanks.
  - \* 168,846 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

JUNE	2022	2021
Wastewater Treated (MG)	520.6	463.3
Average % Solids Removed	95.6%	97.4%
Biosolids Generated (MG)	2.00 MG	2.13 MG
BOD % Removed	94.9%	94.8%
Cubic Ft. of Methane Produced (Million cubic feet)	2.08 ft <sup>3</sup>	2.00 ft <sup>3</sup>
Phosphorus	78.8%	83.3%
Ammonia Overall Treatment	98.6%	99.7%

## Laboratory

3057 Tests Performed in June

- 593 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 1301 Total Suspended Solids and 480 Total Volatile Solids
- 180 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 102 Plant and River samples for Ammonia
- 38 Ecoli analysis on Plant and River samples
- 134 Total Solids and Volatile Solids tests on sludges
- 93 Industry and River samples for independent analysis
- 132 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)
  - \* 45 Nitrate
  - \* 5 Nitrite
  - \* 74 Total Nitrogen
- 120 Chlorine samples on plant effluent samples were checked
- 47 Waste hauler samples were collected and checked

## Maintenance

### Work Performed at Treatment Plant

- \* Install new sink and light for phosphorous meter in the tunnel.
- \* Hose repaired on primary tanks.
- \* Installed new rotorks for east and west wasting valves for gravity belt thickeners.
- \* Repaired thickened sludge pump #2 and repaired #2 polymer pump in thickener building.
- \* Repaired hose on the after-bisulfite pump in contact tank.
- \* Volute press repaired in headworks building.
- \* Repaired #2 primary sludge pump inlet rotork valve.
- \* Inspected #1 and #5 primary tanks and removed slack from chains.

### Work Performed at Lift Stations

- \* Preventative maintenance and grounds maintenance performed at all lift stations.
- \* Debris removed from #1 pump at McCarty Lane.
- \* Replaced blower at Cobblestone.

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## Stormwater

### STORMWATER MONTHLY NUMBERS

JUNE	2022	2021		2022	2021
Stormwater Calls	5	4	Catch Basin Repaired	10	10
Erosion Control Inspections	58	37	Ft. of Storm Sewer Jet Clean	170	330
Sweeper Debris Removal (tons)	231	232.3	Catch Basins Vac Cleaned	195	10
Catch Basin Calls	8	2	Sweeper Call	12	11

### 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: Sagamore Pkwy. To Golden Ln. & Union St. to Rome Dr. and Ferry St. to Alabama St. & 2nd St. to 4th St.
- \* Repair and tighten cable railings at Jeff Storm Park.
- \* Replace concrete washout at Renew turnaround area.
- \* Conducted Stormwater Pollution Prevention Plan (SWPPP) inspection at Water Works.
- \* Repaired roadside erosion washout in front of 1815 Sagamore Pkwy (Kirby Risk).
- \* Assisted Parks Dept. cutting back walking paths at McAllister Park.
- \* Prep for Wabash Riverfest: mapping, loading equipment, flagging park area, etc.
- \* Downtown cleanup before and after 4th of July events.
- \* IDEM Stormwater audit at Street Dept.

## Surveillance

### Performed Surveillance

**SIGNIFICANT:** Nanshan, Kelly Construction and Arconic

**GENERAL:** Foodliner (Lafayette Sani Wash) and Transport Service

### Annual Industrial Pretreatment Inspections

Arconic

### Grease Traps

Interior Insp. - 27	Plan Reviews - 8
Exterior Insp. - 77	Rough-in Insp. - 0
Oil/Grit Sep. Insp. - 52	Under Slab Insp. - 0
Business Compliance Meetings - 0	Final Insp. - 1

### Work Performed

- \* Industrial meters read for billing purposes.
- \* River sampling performed.
- \* Durkees Overflow data downloaded for monthly report.
- \* Sludge Analysis Report was submitted to IDEM.
- \* Local Limits testing performed at residential and commercial sites.
- \* Educational pamphlets distributed to Avalon Bluffs and Benjamin Crossing subdivisions regarding grease disposal.
- \* Field inspections performed on permitted ground for the Biosolids Land Application program.

### Biosolids Land Application Program

- ◆ Biosolids hauled - 3.96 MG w/ average % solids of 3.94%
- ◆ Volute press (landfilled) - 66.29 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

## Sewers

### SEWER MONTHLY NUMBERS

JUNE	2022	2021		2022	2021
Backup Calls	2	12	Manhole Frames Raised	1	0
City Blockages	0	2	Manholes Repaired	1	0
Sanitary Calls	12	12	Ft. of Sanitary Sewer Repaired	0	13
Odor Calls	2	3	Ft. of Sewer Jet Cleaned	367	145
Tap Inspections	38	50	Ft. of Sewer Jet Cleaned—PM	17,924	62,866
Sewer Locates	1,716	1,171	Ft. of Sewer Televised	1,489	1,609

### Work Performed

- \* Preventative maintenance performed throughout the City.
- \* Inspected Combined Sewer Overflow Structures.
- \* Manhole checks performed in the Prairie Oaks subdivision area.
- \* Completed hot spot checks, quarterly manhole checks, and root cut spring hot list.
- \* Performed sewer repairs at:
  - 2100 block of N 19th Street
  - 1600 block of Arlington Road
  - At Earl Street & South Street
  - Beck Lane between Teal Road and Old US 231 S
- \* Televised 604 N 26th Street and Tate North area for separate investigational purposes.
- \* Assist Operations with work on #1 final skimmer trough, mixer tube 4C #4, and #1 sludge tank.