

FILED
CITY CLERK
2024 MAY 28 A 8:42
CINDY MURRAY



- * WWTP/RRLS Solar Field: site work at WWTP, panels installed at Ross Road LS.
- * Vinton Woods Stormwater Conveyance: worked on punch list.
- * Raineybrook LS: lift station in service, site restoration.
- * Service Area 11B: project kick-off.
- * 2023 Sanitary Sewer Rehab: lining in Southlea SD completed.
- * Approved by BOW:
 - Vinton Woods Stormwater Conveyance: Change Order w/ Bowen and Contract Amendment w/ CBBE
 - PO Sanitary Sewer Rehab (Emergency): Change Order, Substantial Completion, and Final Completion w/ Inliner Solutions
 - GMAX for Three Packs project: Contract and Notice to Proceed w/ Bowen Eng.
- * Personnel assisted with the Wabash River Sampling Blitz.
- * Personnel attended Operator Certification training.

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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: 5.39 inches*
*Total taken from daily average of five rain gauges

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

Operations

- Work Performed
- * Algae removed from primary and final clarifier weirs.
 - * Debris removed from aeration basins.
 - * Began disinfection season.
 - * Pressure washed concrete structures and walkways.
 - * Dropped and flushed grit removal tanks.
 - * Metal fabrication project at headworks building completed by an outside contractor.
 - * Fine screen channels flushed and exercised the gates and cleaned conveyor of debris buildup.
 - * 1,051,240 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.

<u>APRIL</u>	<u>2024</u>	<u>2023</u>
Wastewater Treated (MG)	748.2	523.2
Average % Solids Removed	95.3%	96.6%
Biosolids Generated (MG)	1.95 MG	2.2 MG
BOD % Removed	91.3%	96.6%
Cubic Ft. of Methane Produced (Million cubic feet)	3.10 ft ³	2.96 ft ³
Phosphorus	77.6%	81.9%
Ammonia Overall Treatment	78.7%	93.9%

Laboratory

2289 Tests Performed in March

- 456 Biochemical Oxygen Demand (BOD) tests on Plant, River, and Industrial samples
- 838 Total Suspended Solids and 480 Total Volatile Solids
- 162 pH tests on wastewater and sludges
- 180 Settleable solids were conducted on the mixed liquors
- 121 Plant and River samples for Ammonia
- 44 E.coli analysis on Plant and River samples
- 137 Total Solids and Volatile Solids tests on sludges
- 28 Industry and River samples for independent analysis
- 154 Phosphorous tests on Plant, River, and Ditch samples
- 134 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)
 - * 16 Nitrate
 - * 9 Nitrite
- 69 Waste hauler samples were collected and checked

Maintenance

Work Performed at Treatment Plant

- * Replaced part of the discharge line of #1 grit pump.
- * Installed rebuilt #1 raw sewage pump.
- * Debris removed from primary scum pump.
- * Exhaust fan on #1 raw sewage pump replaced.
- * Removed debris from 2A recirculation pump in digester building.
- * In the tunnel, replaced #1 and #2 grit pump, and removed debris from check valve for #6 raw sludge pump.
- * Replaced emergency stop on #2 gravity belt thickener.
- * Repaired glycol leak in boiler room.

Work Performed at Lift Stations

- * Preventative maintenance and grounds maintenance performed at all lift stations.
- * Replaced #2 pump at Rome Drive
- * Debris removed from #2 pump at 9th & Beck.

Lafayette Renew
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Stormwater

STORMWATER MONTHLY NUMBERS

APRIL	2024	2023		2024	2023
Catch Basin Calls	3	5	Erosion Control Inspections	46	45
Sweeper Calls	16	11	Catch Basin Repaired	7	0
Sweeper Debris Removal (tons)	239.5	231	Catch Basins Cleaned	10	3
Stormwater Calls	7	4	Ft. of Storm Sewer Jet Clean	10	0

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 19 City-owned properties.
- * Storm sewer preventative maintenance performed in the area of: S. 24th St. to Earl Ave. and Warner St. to Rogers St.
- * Storm line repair in 900 block of Braxton Drive.
- * Replace native plant and soil in 100 block of Main Street.
- * Concrete washout replaced at the plant and reorganized castings and grates in fenced storage area.
- * Swale at City owned property on N. 9th Street mowed.

Surveillance

Performed Surveillance

SIGNIFICANT: Nanshan, Arconic, Rea Magnet, and DANA
GENERAL: none

Annual Industrial Pretreatment Inspections

Industrial Plating

GREASE TRAPS

Interior Inspection	20	Business Compliance Meeting	1
Exterior Inspection	94	Rough-in Inspection	2
Oil/Grit Separator Inspection	33	Under Slab Inspection	0
Plan Reviews	11	Final Inspection	1

Work Performed

- * Industrial meters read for billing purposes.
- * River sampling, and creek and ditch sampling, performed.
- * Durkees Overflow data downloaded for monthly report.
- * Quarterly Letter of Violation Summary sent to IDEM.
- * Semi-Annual WET Test sampling conducted, completed, and submitted to IDEM with passing results.
- * Two new waste hauler trucks were calibrated.
- * Maintenance performed on Ross Road rain gauge.
- * Site visit conducted at KAG Specialty Group.
- * River sampling performed for WREC Sampling Blitz.

Biosolids Land Application Program

- ◆ Volute press (landfilled) - 273.54 dry tons
- ◆ The monthly Land Application of Biosolids report was submitted to IDEM.

Sewers

SEWER MONTHLY NUMBERS

APRIL	2024	2023		2024	2023
Backup Calls	23	13	Manhole Frames Raised	0	0
City Blockages	3	0	Ft. of Sewer Jet Cleaned	3,020	3,406
Sanitary Calls	12	11	Ft. of Sewer Jet Cleaned—PM	27,782	44,135
Odor Calls	0	0	Total Manholes Cleaned	115	174
Tap Inspections	24	36	Ft. of Sewer Televised	1,614	500
Sewer Locates	1,314	1,994	Ft. of Sewer Root Cut	1,166	3,306

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.
- * Sewer repairs at:
 - N. 14th Street and Hartford Street
 - N. 13th Street and Cincinnati Street
- * Install storm sewer in 100 block S. Earl Avenue
- * Begin quarterly manhole checks.