



Water Pollution Control Department Monthly Informational Report

May 2014

Daily Plant Capacity—52 MGD
Collection System Maintained—470.99 miles

Lift Stations—26
Storm Pumping Stations—2

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

Work Performed

- * One of the primary clarifiers was dropped and cleaned for maintenance repair.
- * Algae cleaned and scraped from four of the 90' final clarifiers.
- * Sludge trucks loaded for our biosolids land application program.
- * Recirculation pumps, along with valves and piping, cleaned out as needed in the digester building and tunnel.

Necessary ground maintenance for the treatment plant was performed.

Daily equipment rotations continue.

Our record keeping and proper sampling procedures required by our NPDES permit continue.

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

OPERATIONS

May	2014	2013
Wastewater Treated (MG)	534.0	538.6
Average % Solids Removed	98.1%	97.6%
Biosolids Generated (MG)	1.7 MG	1.7 MG
BOD % Removed	95.7%	95.0%
Biosolids Applied to Sites (MG)	5.26	3.0
Average % Solids of Biosolids Applied	3.85%	3.82%
Cubic Ft. of Methane Produced (Million cubic feet)	2.4 ft ³	2.2 ft ³
Ammonia Overall Treatment	98.9%	98.9%

Work Performed at the Treatment Plant

- * Light bulbs and ballast replaced on the primary tanks
- * Started the rebuild of the #5 primary tank
- * Replaced the CPU on the #2 gravity belt thickener in the thickener building
- * New roto-strainer installed and chain on the grit dumpster vaylor replaced in the fine screen room
- * The digester sludge line from the digester building to the storage tanks was cleaned
- * Bypass the pumping of grit line in the headworks building for replacements

Work Performed at Lift Stations

- * Replaced the #1 pump at Ashton Woods
- * The speed reducer on the #1 grinder at Pearl River repaired



MAINTENANCE

Analyses Performed

- * 546 Biochemical Demand (BOD) tests were run which included Plant, River and Industrial samples
- * 510 Total Suspended Solids and 482 Total Volatile Solids tests were completed
- * 191 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- * 186 Settable solids and 12 respiration rate tests were run on the mixed liquors
- * 83 Plant and River samples were tested for Ammonia
- * 43 Ecoli analysis were performed on river samples
- * 120 Chlorine/Bisulfite tests were performed
- * 258 Total Solids and Total Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- * 70 industry and river samples were prepared for independent analysis
- * 30 Phosphorous tests conducted on Influent, Effluent, and river and ditch samples
- * 82 Waste hauler samples were collected and checked
- * DMRQA certification test results were submitted and one method validation protocol was executed.



LABORATORY

MONTHLY NUMBERS			<u>Work Performed</u>	
MAY	2014	2013	*	Debris was removed from ditches at Mary Hill Road and Valley Street
Erosion Control Inspections	183	247	*	Silt trap cleaned at Vinton Woods pond with assistance from Sewer Department personnel
Catch Basin Calls	6	16	*	Sediment removed from drainage ditch at old golf course
Catch Basin Repaired	3	11	*	Pre-construction meetings for erosion control measures attended by Stormwater personnel
Ft. of Storm Sewer Jet Clean	550	1,345	*	Maintenance performed on rain gardens at the County courthouse and North Street
Storm Manholes Raised	0	1	*	Street sweepers removed 225.5 tons of debris from roadways.
Ft. of Storm Sewer Installed	0	454	*	Cleaned and repaired catch basins throughout the city
Ft. of Storm Sewer Repaired	0	15	*	Installed native plants along Veterans Memorial Parkway and S 9th Street bioswales



STORMWATER

MONTHLY NUMBERS			<u>Work Performed</u>	
MAY	2014	2013	*	Concrete work on the #3 final tank
Backup Calls	35	16	*	Televised S. 24th Street storm sewer
City Blockages	3	2	*	Landscaped dig up area at Ottawa Drive and Summerfield Drive
Sanitary Calls	8	17	*	Sewer repair at 1406 S. 24th Street
Odor Calls	0	1	*	Cleaned out dumpster at headworks at the Tunnel
Tap Inspections	36	32	*	Install cleanout on line in alley at 400 S. 7th Street
Manhole Frames Raised	2	3	*	Cleaned spring/fall hot list
Manholes Repaired	1	0		
Ft. of Sanitary Sewer Repaired	32	0		
Ft. of Sewer Jet Cleaned	2,156	10,634		
Ft. of Sewer Jet Cleaned—PM	6,681	0		
Ft. of Sewer Televised	1,847	3,226		



SEWERS

Annual Industrial Pretreatment Inspections
Caterpillar

Submitted Reports to Indiana Department of Environmental Management
Land Application of Biosolids

Grease Traps Inspected
Interior—14
Exterior—70
Oil/Grit—13

Other Work Performed

- * Surveillance representative met with industrial contacts to go over reporting requirements
- * 2014 soil sampling continued of permitted land in our Biosolids Land Application Program
- * Phosphorus testing continues
- * Dye testing for confirmation connection purposes for the Utility Billing Office
- * River, creek, and ditch sampling was completed
- * Lafayette Sani Wash's permit updated for company review
- * Permitted industrial meters read for sewage billing
- * Site visits at commercial businesses for phosphorus sources
- * Waste hauler dumping procedures reviewed
- * Dye testing for sewer connection verification on S 7th Street residences

Performed Surveillance

Significant Industrial Contributors
Cargill
Ice Cream Specialties
Lafayette Instrument
TRW
Kelly Construction

General Industrial Contributors
Coleman Cable

SURVEILLANCE

