



Water Pollution Control Department Monthly Informational Report

November 2013

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

- * For the winter months, took the 70' clarifiers offline and put the 90' clarifiers online
- * Cleaned and inspected the chemical tanks, flushed chemical lines, and had maintenance blow out the system
- * Finished winterizing our outbuildings and turned outside water off
- * The #3 aeration tank was dropped to allow maintenance to repair broken air lines
- * The #3 aerator was reseeded and put back in service after repairs
- * Sludge storage tanks dewatered for the biosolids land application program

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

NOVEMBER	2013	2012
Wastewater Treated (MG)	418.5	396.2
Average % Solids Removed	97.9%	98.8%
Biosolids Generated (MG)	1.8 MG	1.9 MG
BOD % Removed	97.9%	97.8%
Biosolids Applied to Sites (MG)	--	3.0
Average % Solids of Biosolids Applied	--	4.14%
Cubic Ft. of Methane Produced (Million cubic feet)	2.2 ft ³	2.2 ft ³
Ammonia Overall Treatment	99.6%	99.6%

Work Performed at the Treatment Plant

- * The handle on the #1 primary tank was repaired and #3 primary tank cross collector chain repaired
- * The check ball and pump was replaced on the #20 Return Activated Sludge (RAS) pump for one of the clarifiers
- * Air leaks were repaired in the #3 aeration tank
- * The #1 boiler was cleaned and the primary gas valve was replaced on the #2 boiler
- * Installed the 1A recirculation pump in the digester building
- * New wire was installed for the final effluent sampler
- * Heat tapes were installed on the valves for the storage tank and sludge load station

Work Performed at Lift Stations

- * Installed the #1 pump at Prairie Oaks
- * New sump pumps installed at Pearl River
- * Installed new pump at 550



MAINTENANCE

Analyses Performed

- * 451 Biochemical Demand (BOD) tests were run which included Plant, River and Industrial samples
- * 525 Total Suspended Solids and 521 Total Volatile Solids tests were completed
- * 168 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- * 180 Settleable solids and 12 respiration rate tests were run on the mixed liquors
- * 75 Plant and River samples were tested for Ammonia
- * 10 Ecoli analysis were performed on river samples
- * 108 Total Solids and 108 Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- * 44 Industry and River samples were prepared for independent analysis
- * 30 Phosphorous tests conducted on Influent, Effluent, and River/Ditch samples
- * 64 Waste hauler samples were collected and checked



LABORATORY

MONTHLY NUMBERS			<u>Work Performed</u>
NOVEMBER	2013	2012	
Erosion Control Inspections	145	--	* Street sweepers removed 167 tons of debris from roadways.
Catch Basin Calls	5	3	* Pre-con meetings attended for erosion control measures
Catch Basin Repaired	0	6	* Bio-swale maintenance on Veteran's Memorial Parkway
Ft. of Storm Sewer Jet Clean	30	--	* Mary Hill Road and Valley Street ditch cleaned of debris
Storm Manholes Raised	1	1	* Performed line verifications for Durkees Run Phase 2 project
Ft. of Storm Sewer Installed	43	--	* Installed 43' of drainage pipe at 1916 Tanglewood Drive
Ft. of Storm Sewer Repaired	0	0	* Assisted Street Department with cleanup from storm damage
			* Personnel attended snow plow meeting to discuss routes and concerns
			* Worked on Illicit Discharge Detection and Elimination (IDDE) program



STORMWATER

	<u>Work Performed</u>			MONTHLY NUMBERS		
				NOVEMBER	2013	2012
	* Performed preventative maintenance and worked on the Fall hot list			Backup Calls	20	21
	* Cleaned catch basin areas			City Blockages	0	1
	* Performed sewer repair at 2201 Ottawa Drive			Sanitary Calls	1	10
	* Regulators were inspected			Odor Calls	2	13
	* Old castings from Union Street project were picked up			Tap Inspections	20	35
	* Performed holiday manhole inspections			Manhole Frames Raised	0	0
				Manholes Repaired	0	0
				Ft. of Sanitary Sewer Repaired	0	22
				Ft. of Sewer Jet Cleaned	5,701	120,151
				Ft. of Sewer Jet Cleaned—PM	3,005	--
				Ft. of Sewer Televised	1,301	2,676

SEWERS

Performed Surveillance

Significant Industrial Contributors

- Lafayette Instrument
- Kelly Construction
- Caterpillar
- TRW
- Rea Magnet
- Fairfield Mfg

General Industrial Contributors

- Coleman Cable

Annual Industrial Pretreatment Inspections

Lafayette Instrument

Submitted Reports to Indiana Department of

Environmental Management

- Land Application of Biosolids
- Total Toxic Organic Report
- Whole Effluent Toxicity (WET) Test Report

Grease Traps Inspected

- Interior—28
- Exterior—104
- Oil/Grit—40

Other Work Performed

- * Phosphorus testing continues
- * Fairfield Manufacturing's Preliminary Industrial User Permit sent for review and comments
- * Septic hauler truck for Ike's Sewer Service was calibrated
- * Industrial Fact Sheets for permitted industries were updated
- * Soil sampling performed on property permitted with our Biosolids Land Application Program
- * Industrial meters read for billing purposes
- * River sampling was performed

SURVEILLANCE

