



Water Pollution Control Department Monthly Informational Report

November 2014

Daily Plant Capacity—52 MGD
Collection System Maintained—473.11 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

- * Winterized the chemical building
- * Cleaned the sodium hypochlorite and sodium bisulfite tanks and inspected them for damage
- * All three levels of the boiler building was cleaned
- * The furnace rooms in the headworks building were cleaned
- * Cleaned the gravity belt thickener buildings
- * Both of the grit removal tanks were dropped and cleaned
- * Loaded sludge trucks for the biosolids land application program with assistance from the Maintenance, Stormwater, and Sewer Department personnel

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	2014	2013
Wastewater Treated (MG)	480.5	418.5
Average % Solids Removed	97.7%	97.9%
Biosolids Generated (MG)	1.7 MG	1.8 MG
BOD % Removed	98.1%	97.9%
Biosolids Applied to Sites (MG)	1.8	--
Average % Solids of Biosolids Applied	3.77%	--
Cubic Ft. of Methane Produced (Million cubic feet)	2.0 ft ³	2.2 ft ³
Ammonia Overall Treatment	99.5%	99.6%

Work Performed at the Treatment Plant

- * Replaced the high pressure pump motor in the digester building
- * Part of the 3-point hitch on the new Holland tractor was replaced
- * Replaced the adjustable frequency drive on the #4 raw sewage pump
- * Wire replaced from the secondary electric building to the #15 and #16 return activated sludge pumps
- * The 4C mixer was repaired and installed on the #4 digester
- * Replaced the mechanical seal on the #3 gravity belt thickener feed pumps
- * The #10 final tank scraper arm was repaired
- * Replaced the motor on the 3C mixer on the #3 mixer
- * The thickener building programmable logic controller light bulb was replaced

Work Performed at Lift Stations

- * The #1 pump was removed from service at Pearl River and sent in for repair
- * Replaced the block heaters on generators at Hickory Hills and Wabash Storm
- * The transducer on the #1 wet well was replaced at Prairie Oaks



MAINTENANCE

2395 Tests Performed in October

- 386 Biochemical Demand (BOD) tests on Plant, River, and Industrial samples
- 553 Total Suspended Solids and 355 Total Volatile Solids
- 182 pH tests on wastewater and sludges
- 180 Settleable solids and 18 respiration rate tests were run on the mixed liquors
- 81 Plant and River samples for Ammonia
- 17 E.coli analysis on Plant and River samples
- 8 Chlorine/Bisulfite tests
- 284 Total Solids and Volatile Solids tests on sludges
- 40 Industry and River samples for independent analysis
- 80 Phosphorous tests on Plant, River, and Ditch samples
- 70 Waste hauler samples were collected and checked
- 66 Plant phosphorous treatment tests performed for support



LABORATORY

MONTHLY NUMBERS			<u>Work Performed</u>
NOVEMBER	2014	2013	
Erosion Control Inspections	209	145	* Street sweepers assisted Street Department with leaf pick-up.
Catch Basin Calls	0	5	* Pre-construction meetings attended for erosion control measures
Catch Basin Repaired	0	0	* Bio-swale maintenance on Veteran's Memorial Parkway and Concord Road
Ft. of Storm Sewer Jet Clean	0	30	* Maintenance performed on Jeff High School Storm Park
Storm Manholes Raised	0	1	* Sewer repair on Midlex Court
Ft. of Storm Sewer Installed	0	43	* Personnel cleaned downtown for special events
Ft. of Storm Sewer Repaired	0	0	* Worked on audit preparation for Indiana Department of Environmental Management
			* Performed maintenance on rain gardens at the County courthouse and on North Street



STORMWATER

	<u>Work Performed</u>	MONTHLY NUMBERS		
		NOVEMBER	2014	2013
	* Cleaned catch basin areas	Backup Calls	14	20
	* Performed holiday manhole inspections	City Blockages	2	0
	* Two sewer repairs on Westridge Circle	Sanitary Calls	9	1
	* Repair salt boxes and install salt boxes and plows on trucks	Odor Calls	1	2
	* Inspected Combined Sewer Overflows (CSO's)	Tap Inspections	26	20
	* Repaired hose reel motor on truck #364	Manhole Frames Raised	1	0
		Manholes Repaired	0	0
		Ft. of Sanitary Sewer Repaired	17	0
		Ft. of Sewer Jet Cleaned	180	5,701
		Ft. of Sewer Jet Cleaned—PM	0	3,005
		Ft. of Sewer Televised	861	1,301

SEWERS

Performed Surveillance

Significant Industrial Contributors

- Lafayette Instrument
- Kelly Construction
- TRW
- Industrial Plating, Inc.
- Tate & Lyle North

General Industrial Contributors

None

Annual Industrial Pretreatment Inspections

- Lafayette Instrument
- Nanshan

Submitted Reports to Indiana Department of Environmental Management

Land Application of Biosolids

Grease Traps Inspected

- Interior—41
- Exterior—59
- Oil/Grit—10

Other Work Performed

- * Industrial Plating's Industrial User Permit was renewed by the Board of Public Works and Safety (BOW)
- * Sewer Use Ordinance for Total Phosphorus taken to BOW for first reading and sent to Indiana Department of Environmental Management (IDEM) and Environmental Protective Agency (EPA)
- * Whole Effluent Toxicity Testing results were received with passing status and reported to IDEM
- * Pretreatment Audit response letter sent to IDEM
- * Soil sampling and field checks were performed on property permitted with our Biosolids Land Application Program
- * Industrial meters read for billing purposes
- * Quarterly River sampling and creek and ditch sampling was performed

SURVEILLANCE

