



Water Pollution Control Department Monthly Informational Report

December 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

OPERATIONS

DECEMBER	2013	2012
Wastewater Treated (MG)	466.3	450.3
Average % Solids Removed	98.1%	97.9%
Biosolids Generated (MG)	1.7 MG	1.5 MG
BOD % Removed	97.6%	97.7%
Biosolids Applied to Sites (MG)	2.6	0.348
Average % Solids of Biosolids Applied	4.33%	4.14%
Cubic Ft. of Methane Produced (Million cubic feet)	2.1 ft ³	3.0 ft ³
Ammonia Overall Treatment	99.4%	99.4%

Work Performed

- * A revision of the Standard Operating Procedures for the Operations Department is currently underway, which includes new equipment startups.
- * Loaded sludge trucks for land application along with personnel from the Stormwater and Surveillance departments.
- * The primary clarifier weir boards were cleaned.
- * Sludge storage tanks were 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.

Work Performed at the Treatment Plant

- * A glycol leak was repaired in the Laboratory.
- * The motor on the #2 hot water supply pump replaced for the #2 boiler in the digester building.
- * The spider gear on the #1 thickened sludge pump in the thickener building was replaced.
- * In the headworks building, the mechanical seal on the #1 hot water supply pump for the #1 heating and ventilation unit was replaced and the roller bearing on the #2 course screen was replaced.
- * The pop-off valves on the variable airflow valves in the Administration building were replaced.
- * Bolts were replaced on three final clarifier tank drain valves.

Work Performed at Lift Stations

- * Replaced the #2 pump at 550.
- * The #1 grinder was removed and the #2 grinder was installed at Pearl River.
- * The Adjustable Frequency Drive for the pumps #1 and #4 were exchanged at Prairie Oaks.



MAINTENANCE

Analyses Performed

- * 482 Biochemical Demand (BOD) tests were run which included Plant, River and Industrial samples
- * 529 Total Suspended Solids and 525 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
- * 180 Settleable solids and 6 respiration rate tests were run on the mixed liquors
- * 77 Plant and River samples were tested for Ammonia
- * 10 Ecoli analysis were performed on river samples
- * 130 Total Solids and 130 Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- * 14 Industry and River samples were prepared for independent analysis
- * 29 Phosphorous tests conducted on Influent, Effluent, and River/Ditch samples
- * 145 Soluble Chemical Oxygen Command (COD) and Ammonia tests were conducted for Purdue Fermentation project
- * 56 Waste hauler samples were collected and checked



LABORATORY

MONTHLY NUMBERS			Work Performed	
DECEMBER	2013	2012	*	
Erosion Control Inspections	95	—	*	Street sweepers removed 129 tons of debris from roadways.
Catch Basin Calls	4	2	*	Pre-construction meetings attended for erosion control measures
Catch Basin Repaired	0	—	*	Bio-swale maintenance on Veteran's Memorial Parkway
Ft. of Storm Sewer Jet Clean	760	—	*	Personnel attended snow plow training
Storm Manholes Raised	0	0	*	Street sweepers were winterized
Ft. of Storm Sewer Installed	0	—	*	Performed annual inventory for State Board of Accounts along with personnel from the Collections department.
Ft. of Storm Sewer Repaired	0	0	*	Cleaned out concrete ditch line at US 52 and Greenbush Street
			*	Started Best Management Practice (BMP's) Inspections throughout the City
			*	Worked on Illicit Discharge Detection and Elimination (IDDE) program



STORMWATER

Work Performed		MONTHLY NUMBERS		
		DECEMBER	2013	2012
* Performed preventative maintenance and cleaned catch basin areas		Backup Calls	15	19
* Reference room cleanup after glycol leak in the Lab area		City Blockages	0	4
* Regulators were inspected		Sanitary Calls	5	34
* Salt box and snow plow repairs made and installed on trucks		Odor Calls	1	2
* Assisted The Long Center to seal basement wall due to water coming in from unknown source		Tap Inspections	29	19
* Manhole risers were made		Manhole Frames Raised	0	0
* Snow plowed Areas 8, 9, and 11 along with personnel from the Stormwater, Maintenance and Surveillance departments.		Manholes Repaired	0	0
		Ft. of Sanitary Sewer Repaired	0	0
		Ft. of Sewer Jet Cleaned	320	62,440
		Ft. of Sewer Jet Cleaned—PM	7,614	—
		Ft. of Sewer Televised	0	4,887



SEWERS

- Performed Surveillance
- Significant Industrial Contributors**
 Cargill
 Ice Cream Specialties
- General Industrial Contributors**
 Lafayette Sani Wash
 Carry Transit
 Transport Service

- Annual Industrial Pretreatment Inspections
 Lafayette Sani Wash and Cargill
- Submitted Reports to Indiana Department of Environmental Management
 Land Application of Biosolids
- Grease Traps Inspected
 Interior—29
 Exterior—29
 Oil/Grit—13

- Other Work Performed
- * Phosphorus testing continues
 - * Field checks were completed on fields that biosolids were applied
 - * Soil sampling performed on property permitted with our Biosolids Land Application Program
 - * Industrial meters read for quarterly billing purposes
 - * River sampling was performed
 - * Standard Operating Procedures (SOP's) were updated for rain gauge maintenance and dye testing for Utility Billing confirmation

SURVEILLANCE

