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Water Pollution Control Department

Monthly Informational Report

January 2014

Daily Plant Capacity—52 MGD

Lift Stations—26

Collection System Maintained—470.99 miles

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

- * The #4 primary clarifier dropped for maintenance repair
- * Worked with Gripp, Inc. on sampler issues
- * A blocked 6" digested sludge line was repaired with assistance from Sewers and Maintenance personnel
- * The Operations SOP Manual was revised and updated and Operations personnel studied and were quizzed on our NPDES permit
- * Performed snow removal around the plant

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

January	2014	2013
Wastewater Treated (MG)	483.4	450.3
Average % Solids Removed	97.8%	97.9%
Biosolids Generated (MG)	1.8 MG	1.5 MG
BOD % Removed	97.8%	97.7%
Biosolids Applied to Sites (MG)	1.52	.348
Average % Solids of Biosolids Applied	4.28%	4.14%
Cubic Ft. of Methane Produced (Million cubic feet)	3.2 ft ³	3.0 ft ³
Ammonia Overall Treatment	99.2%	99.4%

Work Performed at the Treatment Plant

- * The effluent flow meter at the contact tank cleaned
- * The incubator in the Lab was replaced
- * The #2 fine screen gate in the headworks building was replaced
- * Replaced the seals in the 4A recirculation pump in the digester building
- * The #3 thickener feed pump in the thickener building was replaced

Work Performed at Lift Stations

- * Replaced the Omni-Site alarm system at 40 & 8
- * The #1 pump at Prairie Oaks installed
- * Replaced the #2 pump motor started and breaker at Hickory Hills
- * Replaced the phase monitor at Cracker Barrel and Masons Ridge



MAINTENANCE

Analyses Performed

- * 417 Biochemical Demand (BOD) tests were run which included Plant, River and Industrial samples
- * 536 Total Suspended Solids and 532 Total Volatile Solids tests were completed
- * 187 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
- * 77 Plant and River samples were tested for Ammonia
- * 8 Ecoli analysis were performed on river samples
- * 126 Total Solids and 126 Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- * 52 industry and river samples were prepared for independent analysis
- * 30 Phosphorous tests were conducted on influent, effluent, and river/ditch samples
- * 48 Waste hauler samples were collected and checked



LABORATORY

MONTHLY NUMBERS			Work Performed	FILED 
JANUARY	2014	2013		
Erosion Control Inspections	42	41	* Bladder inspections performed	
Catch Basin Calls	0	6	* Worked on Illicit Discharge Detection and Elimination (IDDE) program, Best Management Practice (BMP's) Inspections throughout the City, and on the planting list and Standard Operating Procedures (SOP's) for Veterans Memorial Parkway	
Catch Basin Repaired	0	2		
Ft. of Storm Sewer Jet Clean	0	90	* Loaded sludge trucks with assistance from Operations personnel	
Storm Manholes Raised	0	0	* Vehicle maintenance performed after each snow event involving snow plows	
Ft. of Storm Sewer Installed	0	0	* Pre-construction meetings attended for erosion control measures	
Ft. of Storm Sewer Repaired	0	0		

 SEWERS	Work Performed	MONTHLY NUMBERS		
		JANUARY	2014	2013
	* Regulators were inspected.	Backup Calls	26	31
	* Snow plowing was performed in Areas 8, 9 and 11 with the assistance of other department personnel.	City Blockages	1	4
	* Repaired salt boxes and plows.	Sanitary Calls	11	4
	* Snow was cleaned from sidewalks and parking lot at the plant.	Odor Calls	0	3
	* Ross Road and Prairie Oaks lift stations were cleaned of snow.	Tap Inspections	5	27
	* Manhole and catch basin risers were made with the assistance of Stormwater personnel.	Manhole Frames Raised	0	0
		Manholes Repaired	0	0
		Ft. of Sanitary Sewer Repaired	0	0
		Ft. of Sewer Jet Cleaned	0	3,935
		Ft. of Sewer Jet Cleaned—PM	0	28,382
		Ft. of Sewer Televised	0	2,757

<p><u>Annual Industrial Pretreatment Inspections</u> Rea Magnet Wire</p> <p><u>Submitted Reports to Indiana Department of Environmental Management</u> Land Application of Biosolids Permitted Industrial Letter of Violation</p> <p><u>Grease Traps Inspected</u> Interior—51 Exterior—6 Oil/Grit—9</p>	<p><u>Performed Surveillance</u></p> <p>Significant Industrial Contributors Lafayette Instrument Kelly Construction Wabash National Tate & Lyle South</p> <p>General Industrial Contributors Transport Service Lafayette Sani Wash Carry Transit</p>
<p><u>Other Work Performed</u></p> <ul style="list-style-type: none"> * Phosphorus study continues * River sampling was performed * Miscellaneous inspections performed throughout the City regarding Phosphorus * Surveillance representative met with the City attorney regarding changes to the Sewer Use Ordinance changes * Monthly industrial meters read for billing purposes * List of industries in significant non-compliance published in the Journal and Courier * Electronic inspection records set up for inspections for the iPad for grease trap inspector * Standard Operating Procedures (SOP's) were updated for rain gauge maintenance and dye testing for Utility Billing confirmation 	<p style="text-align: center;">SURVEILLANCE</p> 