

Water Pollution Control Department Monthly Informational Report April 2012



Maintenance

The following is a list of items performed for April:

Treatment Plant

- Plant and lift station preventative maintenance
- In the thickener building, cleaned the jets on the two thickener belts, installed hot water for water system on the polymer pumps and replaced the seal on the #1 water booster pump
- Attended Omni-site training and Wastewater training
- Cleaned the digested sludge to storage tank in the tunnel
- Repaired the #2 cross collector on the primary tank
- Installed a new mixer in the SA slot on #5 aeration tank
- Replaced the #9 final tank control switch



The following is a list of analyses performed in April:

Laboratory



- 414 Biochemical Oxygen Demand (BOD) tests were run this month, which included Plant, River and Industrial samples
- 1009 Total Suspended Solids and Total Volatile Solids tests were also completed this month
- 182 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- 182 Settable solids and 72 respiration rate tests were run on the mixed liquor
- 73 Plant and River samples were tested for Ammonia
- 49 Ecoli analysis were performed
- 127 Chlorine/Bisulfite tests were performed
- 244 Total Solids and Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- 8 Alkalinity and 8 Volatile Acid tests were performed
- 49 samples were prepared for independent analysis
- 59 Waste hauler samples were collected and checked
- 38 Conductivity tests were completed

April	2012	2011
Wastewater Treated (MG)	446	760.9
Average % Solids Removed	97.4%	95.7%
Biosolids Generated (MG)	1.7 MG	1.8 MG
BOD's % Removed	95.6%	95.0%
Biosolids Applied to Sites (MG)	1.01	0
Average % Solids of Biosolids Applied	4.49%	0
Cubic Ft. of Methane Produced (Million cubic feet)	2.3 ft ³	2.4 ft ³
Ammonia Overall Treatment	98.8%	98.4%

Operations

The Operations Department submitted the following monthly reports to the Indiana Department of Environmental Management: Report of Operation, Discharge Monitoring Report and Combined Sewer Overflow Report.

Daily equipment rotations continue. Our record keeping and proper sampling procedures required by our NPDES permit continue. The following items were also completed by the Operations Department in April:

- Painted fire hydrants and yellow safety barriers through out the plant and the secondary office building floor
- Dropped and cleaned one of our primary clarifiers for maintenance repair
- Assisted maintenance and sewers in taking a plugged sludge line apart in tunnel B
- Pressure washed the fine screenings room along with the dumpster areas
- We had a 16 CEU Wastewater course with Brad Musick of Wastewater Solutions, Inc
- Assisting in loading sludge trucks for our land application program

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

The following is a list of items performed for April:

- Cleaned catch basin areas
- Cleaned scum pit at primary
- Sewer repair at 138 S 28th Street
- Raised manholes and repaired catch basins
- Removed bricks stuck in sewer on Main Street
- Training on bleach and blood-borne pathogens
- Cleared trees from railroad edge behind plant
- Cleaned struvite from railroad edge behind plant
- Landscaped 50 Orchard Place and 40 N Orchard Court
- Worked on preventative maintenance
- Cleaned behind sewers building



Sewers

MONTHLY NUMBERS

<u>APRIL</u>	<u>2012</u>	<u>2011</u>
Backup Calls	17	24
City Blockages	1	5
Sanitary Calls	13	35
Odor Calls	5	0
Tap Inspections	49	21
Sewer Locates		746
Manhole Frames Raised	10	0
Manholes Repaired	0	0
Ft. of Sanitary Sewer Repaired	5	0
Ft. of Sewer Jetted	3,757	29,298
Ft. of Sewer Televised	3,924	4,748



Stormwater

The following list of items performed for April:

- Instituted rain barrel program
- Ag-Day presentations for local 4th grade classes at the Tippecanoe County Fairgrounds
- Stormwater personnel attended Certified Operator training
- Street sweepers began reporting to Stormwater on April 30
- Monthly checks of drainage areas (problem areas)
- Assisted in catch basin cleaning
- Various drainage calls and enforcement letters
- Raised storm manholes
- Dirt work at 42 Imperial Court
- Veterans Memorial Parkway storm sewer work
- Coldbrook storm sewer illicit discharge investigation

MONTHLY NUMBERS

<u>APRIL</u>	<u>2012</u>	<u>2011</u>
Catch Basin Calls	6	26
Ft. of Storm Sewer Repaired	0	0
Storm Manholes Raised	14	—



Surveillance was performed at the following Significant Industrial Contributors: Cargill, Tate & Lyle North, Industrial Plating Co., Wabash National and TRW.

We completed an annual industrial inspection at Subaru of Indiana Automotive.

The surveillance area inspected 38 interior grease traps, 44 exterior grease traps and 26 oil and grit separators.

The following reports were submitted to the Indiana Department of Environmental Management: Land Application of Biosolids Report for March.

- Investigated odor complaint at Concord Road and Fairfield Court
- Participated in the Wabash River Sampling Blitz
- IDDE sampling and creek and ditch sampling continues
- Dye testing continues on the water-only accounts
- Dye tested and televised sewer for Coldbrook Drive/Coldbrook Court
- Surveillance personnel attended Certified Operator training
- Investigated illicit discharge on Wallace Avenue and a vegetable oil spill on Creasy Lane
- pH monitoring on industries
- River sampling was performed
- Started WET (Whole Effluent Toxicity) test
- Updated industrial fact sheets

Surveillance

Daily Plant Capacity—52 MGD

Storm Pumping Stations—2

Collection System Maintained—454 miles

Lift Stations—26