

Water Pollution Control Department Monthly Informational Report October 2012



Maintenance

The following is a list of items performed for October:

Treatment Plant

- Plant preventative maintenance
- Installed fence around old Soller-Baker Funeral Home
- Cleaned the #2 aeration tank and put back in service
- Replaced seals on the #2 primary skimmer troughs
- Replaced oil filters on the #4 blower in the blower building
- Replaced the impellers on the #9, #10, and #11 RAS pumps at secondary
- Repaired the #3 storage tank slip tube
- Replaced the gas booster motor in the digester building



Lift Station

- Lift station preventative maintenance
- Pulled the #1 pump at Cobblestone
- Replaced transfer switch for generator at Wabash Storm
- Repaired the speed on the AFDs at Ross Road
- Replaced the #1 pump at Waterstone
- Replaced the block heater on the generator at 550

The following is a list of analyses performed in October:

- 519 Biochemical Demand (BOD) tests were run this month, which included 335 Plant, River and 174 Industrial samples
- 450 Total Suspended Solids and 446 Total Volatile Solids tests were completed on Plant/River samples
- 172 pH tests were conducted on the Plant Influent and Effluent, and digester, raw and transported sludge samples
- 162 Settable solids and 21 respiration rate tests were conducted on the mixed liquor
- 83 Ammonia tests were conducted on Plant/River samples
- 76 Ecoli analyses were performed
- 149 Chlorine/Bisulfite tests were performed
- 116 Total Solids and 116 Volatile Solids tests were conducted on the Raw, Digester, Transported and Storage Tank sludges
- 12 Alkalinity or Volatile Acid tests were performed
- 41 industrial and 18 plant samples were prepared for independent analyses (TTO and local limits)
- 71 Waste hauler samples were collected and checked

Laboratory



October	2012	2011
Wastewater Treated (MG)	508.5	478.5
Average % Solids Removed	97.9%	95.1%
Biosolids Generated (MG)	1.6 MG	.75 MG
Bod's % Removed	96.6%	95.7%
Biosolids Applied to Sites (MG)	0	.950
Average % Solids of Biosolids Applied	—	4.05%
Cubic Ft. of Methane Produced (Million cubic feet)	2.6 ft ³	2.0 ft ³
Ammonia Overall Treatment	98.5%	99.0%

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 October:

- Assisted in dropping and cleaning our #2 aeration basin.
- Painted the sludge and methane gas lines on the #1 digester.
- Put the #1 digester back online after cleaning and repairs and took the #2 digester offline for the same cleaning and repairs.
- We continue to do the necessary ground maintenance such as mowing, weed whipping, weed spraying, etc.
- We have been dewatering our digested sludge storage tanks to allow for our biosolids 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 October:

- Cleaned catch basin areas
- Performed smoke testing
- Performed sewer preventative maintenance which included raising manholes
- Made cement pad for trailers and moved trailers
- Salt box and snow plow checks
- Truck and building clean-up
- Sewer dig-up to recover camera stuck in sewer line



Sewers

MONTHLY NUMBERS		
<u>OCTOBER</u>	<u>2012</u>	<u>2011</u>
Backup Calls	18	9
City Blockages	0	4
Sanitary Calls	17	13
Odor Calls	4	0
Tap Inspections	38	8
Sewer Locates	828	540
Manhole Frames Raised	23	5
Manholes Repaired	0	0
Ft. of Sanitary Sewer Repaired	2	0
Ft. of Sewer Jetted	115,011	10,254
Ft. of Sewer Televised	5,208	5,628

Stormwater

The following is a list of items performed for October:

- Street sweepers removed 416 tons of debris from city roads
- Worked on spill kits
- Checked cross connections
- Removed and redirected/installed catch basins at S 16th Street and Center Street
- Catch basin repair at S 26th Street and Wallace Avenue
- Cut up trees laying across ditch line at 3202 Cedar Lane
- Personnel attended sweeper school training
- Erosion control inspections performed
- Sweeper and jet combo trucks were demonstrated
- Catch basin preventative maintenance in Area 1
- Storm line reconnected for N 3rd Street and Brown Street
- Replaced storm line at NW corner of Wea Street and Owen Street



MONTHLY NUMBERS		
<u>OCTOBER</u>	<u>2012</u>	<u>2011</u>
Catch Basin Calls	19	10
Ft. of Storm Sewer Repaired	62	0
Storm Manholes Raised	0	16



Surveillance was performed at the following Significant Industrial Contributors: TRW, Apollos Water, Subaru of Indiana Automotive and Tate & Lyle South, Rea Magnet, and Fairfield. Surveillance was performed at the following General Industrial Contributors: Beutler Meats and Transport Service. We also completed an annual industrial inspection at Ice Cream Specialties, Apollos Water and Carry Transit.

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

The surveillance area inspected 24 interior grease traps, 43 exterior grease traps and 34 oil and grit separators.

Soil sampling of permitted ground in our Biosolids Land Application Program continues.

Surveillance personnel met regarding rain gauge relocation from McAllister Center.

Dye testing continues for IDDE, Quarterly River Sampling and our semi-annual Whole Effluent Toxicity Test was completed.

Hydrogen sulfide testing continues on the influent at the wastewater treatment plant.

Annual Plant TTO (Total Toxic Organic) sampling was completed.

Research continued regarding oily discharge that has been coming into the wastewater treatment plant.

Additional Industrial Local Limits testing was performed and work was done on new Industrial User Permits.

Interviewed and hired a new Surveillance Technician.

Surveillance

Daily Plant Capacity—52 MGD

Storm Pumping Stations—2

Collection System Maintained—454 miles

Lift Stations—26