

# Water Pollution Control Department Monthly Informational Report December 2012



## Maintenance

The following is a list of items performed for December:

### Treatment Plant

- Plant and lift station preventative maintenance
- Replaced the 30-watt transformer in the digester building PLC
- Put the #2 digester back together
- Replaced the motor and the modulating valve on the #2 boiler
- Replaced the 6" valve on the #2 grit tank drain line
- Regenerated the #2 gas scrubber in the digester building
- Removed debris from the primary scum pump



### Lift Stations

- Replaced the electric panel and installed two new pumps at Waterstone
- Removed a gallon of oil from the stator housing on the #3 pump at Ross Road
- Replaced the block heater and the battery on the generator at McCarty Lane

The following is a list of analyses performed in December:

## Laboratory



- 443 Biochemical Demand (BOD) tests were run this month, which included Plant, River and Industrial samples
- 478 Total Suspended Solids and 474 Total Volatile Solids tests were also completed this month
- 171 pH tests were run including the Influent and Effluent plant flow, digester samples, raw sludge and transported sludge
- 186 Settable solids and 24 respiration rate tests were run on the mixed liquors
- 87 Plant and River samples were tested for Ammonia
- 4 Ecoli analysis were performed on river samples
- 110 Total Solids and 110 Volatile Solids tests were run on the Raw Sludge, Digester samples, Transported Sludge and Storage Tank samples
- 1 sample of Evonik BFS was evaluated
- 39 industry and river samples were prepared for independent analysis
- 59 Waste hauler samples were collected and checked

December	2012	2011
Wastewater Treated (MG)	450.3	739.5
Average % Solids Removed	97.9%	96.5%
Biosolids Generated (MG)	1.5 MG	1.8 MG
BOD's % Removed	97.7%	95.6%
Biosolids Applied to Sites (MG)	.348	0
Average % Solids of Biosolids Applied	4.14%	0
Cubic Ft. of Methane Produced (Million cubic feet)	3.0 ft <sup>3</sup>	2.6 ft <sup>3</sup>
Ammonia Overall Treatment	99.4%	99.2%

## Operations

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 December:

- Assisted maintenance with the repair of one of our 8" Dezurk valves in the digester building
- Rotated our Lamson blowers for the aeration basins so Gardner Denver could do the annual maintenance needed
- Dropped both of our grit tanks for cleaning and valve replacement
- Put our #2 digester back in service after it was cleaned
- Dewatered our sludge storage tanks and assisted 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 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.

The following is a list of items performed for December:

- Spring/Fall hot list sewer cleaning
- Hand out preventative maintenance letters
- Check regulators
- Cleaned catch basin areas
- Installed salt boxes and plows on trucks
- Installed new storm sewer at N 3rd Street and North Street and at N 3rd Street and Cincinnati Street
- Plowed and salted Area 8, Area 9 and Area 11 performed preventative maintenance



MONTHLY NUMBERS		
<u>DECEMBER</u>	<u>2012</u>	<u>2011</u>
Backup Calls	19	23
City Blockages	4	4
Sanitary Calls	34	6
Odor Calls	2	2
Tap Inspections	19	56
Sewer Locates	351	645
Manhole Frames Raised	0	0
Manholes Repaired	0	0
Ft. of Sanitary Sewer Repaired	0	0
Ft. of Sewer Jetted	62,440	8,376
Ft. of Sewer Televised	4,887	5,667

## Stormwater



The following list of items performed for December:

- Performed holiday manhole checklist
- Prepared trucks for snow plowing
- Attended Good Housekeeping training at Ivy Tech
- Cleaned catch basin areas & performed blockage follow-ups
- Cleaned out ditch behind sewer garage for solar panels
- Storm line verification for Earl Avenue project
- Snowplowed
- Worked on IDDE
- Performed 72 erosion inspections
- Street sweepers assisted Street Dept. with leaf pick-up
- Assisted sewer dept. with Spring/Fall hotlist and handed out preventative maintenance letters and checked overflow manholes

MONTHLY NUMBERS		
<u>DECEMBER</u>	<u>2012</u>	<u>2011</u>
Catch Basin Calls	2	0
Ft. of Storm Sewer Repaired	0	0
Storm Manholes Raised	0	0



Surveillance was performed at the following Significant Industrial Contributors: Tate & Lyle Ingredients Americas, Inc. (North Plant), Industrial Plating, Inc., Ice Cream Specialties, Cargill, Wabash National and Lafayette Instrument. We also completed annual industrial inspections at Lafayette Sani-Wash and Cargill.

The surveillance area inspected 46 interior grease traps, 45 exterior grease traps and 19 oil and grit separators.

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

- Investigated odor calls in the Concord/Veteran's Memorial Parkway area
- Updated Standard Operating Procedures (SOP's) and Fact Sheets for industrial pretreatment set-ups
- Dye tested Coldbrook for IDDE
- Wabash River sampling was performed in December
- Continued additional Industrial Local Limits testing
- Worked on new Industrial User Permits

## Surveillance

Daily Plant Capacity—52 MGD

Storm Pumping Stations—2

Collection System Maintained—454 miles

Lift Stations—26