

PERFORMANCE REVIEW 2011

GENERAL INFORMATION:

FACILITY NAME: Town of Oakboro Wastewater Treatment Plant

RESPONSIBLE ENTITY: Town of Oakboro

OPERATOR IN RESPONSIBLE CHARGE: David Nichols

APPLICABLE PERMITS: NC0043532 Wastewater Plant, WQ0005387 Land Application, WQCS00190 Collection System

DESCRIPTION OF TREATMENT PROCESS:

The Town of Oakboro owns and operates a biological, aerobic treatment facility with a permitted flow capacity of 0.900 MGD or 900,000 gallons per day. Treatment units utilized at the wastewater plant are as follows:

MAIN PUMP STATION:

- Bar screens and step screens for solids removal
- Grit removal system
- Influent pumps to pump wastewater four miles to wastewater treatment plant

WASTEWATER TREATMENT PLANT:

- Two 600,000 gal. aeration basins where waste is treated with specialized bacteria
- Secondary clarifier where the bacteria are separated from the treated water and recycled to the aeration basins to treat more waste
- Disinfection/dechlorination contact chamber
- Effluent flow meter and sampler
- Aerobic biosolids digester
- Stabilized biosolids are land applied as fertilizer

YEAR IN REVIEW:

WASTEWATER TREATMENT PLANT:

January	0.356 MGD	Non-Compliant	July	0.301 MGD	Compliant
February	0.448 MGD	Non-Compliant	August	0.338 MGD	Compliant
March	0.562 MGD	Non-Compliant	September	0.344 MGD	Compliant
April	0.387 MGD	Non-Compliant	October	0.416 MGD	Compliant
May	0.413 MGD	Compliant	November	0.402 MGD	Compliant
June	0.344 MGD	Compliant	December	0.408 MGD	Non-Compliant

Effluent Ammonia concentrations were above permitted limits in January, February, March and April. Effluent BOD concentrations were above permitted limits in March. Effluent Suspended Solids concentrations were above permitted limits in March. Effluent Residual Chlorine concentration was above permitted limit in March. BOD analysis was unusable in December due to a laboratory error. The Town was initially assessed civil penalties of \$5596.96 for WWTP violations in 2011. The Division of Water Quality reduced the penalties to \$971.96 in consideration of the improvements that have been made at the WWTP in 2011 to prevent further noncompliance.

SANITARY SEWER OVERFLOWS:

Date	Spill	Due To	Date	Spill	Due To
03/30/11	7,400 gal	Heavy Rain	07/13/11	60,000 gal	Power Outage
04/22/11	4,900 gal	Mechanical	09/29/11	1,000 gal	Line Break
05/17/11	15,750 gal	Heavy Rain	10/10/11	2,000 gal	Line Break

During 2011, the Town of Oakboro rehabilitated the Main Pump Station significantly reducing the frequency and magnitude of sewer overflows at this location.

All SSO's are reported to the State of North Carolina (DENR) Division of Water Quality, Mooresville Regional Office as required in "The Clean Water Act". The Town was assessed civil penalties of \$694.87 for SSO violations in 2011.

For Further Information Contact:

David Nichols

704-485-3351