

**City of Claremont**  
**Annual Wastewater Quality Report**  
**July 1, 2014 to June 30, 2015**

**Mission Statement:** *To promote and protect the environment, health and natural resources of our customers through responsible stewardship in the treatment of wastewater returned to our streams and lakes.*

The City of Claremont is pleased to present you, our customers, with this year's Annual System Performance Report. This report is required by House Bill 1160, the Clean Water Act of 1999. The purpose of this report is to display the past year's wastewater treatment performance. The following data includes average concentrations discharged into streams and any events of permit noncompliance.

The City of Claremont owns two (2) Wastewater Treatment Facilities and one (1) Collection System in the City of Claremont. The North Wastewater Treatment Facility and the McLin Creek Wastewater Treatment Facility are staffed with State Certified Operators. These Facilities and the Collection System were designed and constructed to properly transport wastewater and then treat the wastewater to meet stringent discharge requirements. The effluent discharge from all Facilities is disinfected prior to entering the receiving streams. As this report indicates we are committed to protecting our most valuable resources, water and people.



**Noncompliance Violations**

<b>Date</b>	<b>Violation</b>	<b>Actual</b>	<b>Reason</b>	<b>Environmental Impact</b>
7/1/2014	BOD	14 mg/l	Industrial Discharge	None
7/10/2014	BOD	16 mg/l	Industrial Discharge	None
7/15/2014	BOD	15 mg/l	Industrial Discharge	None
July 2014	BOD	12 mg/l	Industrial Discharge	None
8/12/2014	BOD	13 mg/l	Recovery from Heavy Rain	None
12/15/2014	BOD	28 mg/l	Industrial Discharge	None
January 2015	BOD	18 mg/l	High organic loadings	None
February 2015	NH3	9.1 mg/l	Unknown	None
3/23/2015	NH3	13.8 mg/l	Unknown Slug loadings	None
3/30/2015	NH3	22.3 mg/l	Unknown Slug loadings	None
March 2015	NH3	9.33 mg/l	Unknown Slug loadings	None
March 2015	BOD	18 mg/l	Unknown Slug loadings	None
4/6/2015	BOD	16 mg/l	Increased Surfactant loadings	None
4/13/2015	BOD	23 mg/l	Increased Surfactant loadings	None
4/20/2015	BOD	23 mg/l	Increased Surfactant loadings	None
April 2015	BOD	17.5mg/l	Increased Surfactant loadings	None
4/6/2015	NH3	17.5mg/l	Increased Surfactant loadings	None
4/13/2015	NH3	16.4 mg/l	Increased Surfactant loadings	None
April 2015	NH3	8.9 mg/l	Increased Surfactant loadings	None
5/4/2015	BOD	18 mg/l	Recovery from Plant upset	None
5/11/2015	BOD	19 mg/l	Recovery from Plant upset	None
5/18/2015	BOD	19mg/l	Recovery from Plant upset	None
5/26/2015	BOD	18mg/l	Recovery from Plant upset	None
May 2015	BOD	18.5mg/l	Recovery from Plant upset	None
6/13/2015	BOD	17mg/l	Replacing Sand in Sand Filters	None
June 2015	BOD	10mg/l	Replacing Sand in Sand Filters	None

# NORTH WASTEWATER TREATMENT FACILITY

City of Claremont  
 North Wastewater Treatment Facility  
 Centennial Boulevard, Claremont NC 28610

NPDES Permit Number: NC0032662  
 Operator in Responsible Charge: Jody Ledford, WWT-4  
 Telephone Number: (828) 459-1092

The North Wastewater Treatment Facility is a 0.100 MGD Wastewater Treatment System that accepts and treats wastewater from locations in the City of Claremont.

The Facility is a conventional activated sludge facility, which utilizes microorganisms to treat the wastewater. The effluent is chlorinated to remove pathogenic bacteria that might be present and then dechlorinated to remove the chlorine residual before it is discharged into the receiving stream. The Bio-solids residuals removed as part of the treatment process are transported to the Hickory Regional Compost Facility for processing into Class A-EQ compost.

Permit Parameters	Limits			Actual Monthly Average July 1, 2014 to June 30, 2015											
	Monthly	Weekly	Daily	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
Flow (MGD)	0.100	-	-	0.068	0.076	0.070	0.065	0.068	0.063	0.072	0.065	0.076	0.091	0.067	0.073
BOD	30.0 mg/l	45.0 mg/l	-	15	10	11	7.5	8	13	26	39	18	16	16	14
TSS (solids)	30.0 mg/l	45.0 mg/l	-	14.8	11.4	13.7	10.3	8.5	14.7	28.2	35.0	15.6	15.1	21.5	7.9
Fecal Coliform	200/100 ml	400/100 ml	-	5	3	2	2	2	3	3	4	1	3	2	12
Total Chlorine	-	-	28 ug/l	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
DO	-	-	Over 5	7.4	6.4	7.3	8.6	6.8	7.8	8.4	8.4	7.9	8.3	8.2	7.8

### Noncompliance Violations

Date	Violation	Actual	Reason	Environmental Impact
October 2014	Failed to pass first Toxicity test		Unknown	None, the next consecutive two month tests were passed.
1/20/2015	BOD	>68mg/l	Heavy Organic loading	None
1/20/2015	TSS	50mg/l	Heavy Organic loading	None
2/9/2015	BOD	70mg/l	Industrial Discharge	None
February 2015	TSS	35.0mg/l	Industrial Discharge	None

# CITY OF CLAREMONT COLLECTION SYSTEM

City of Claremont  
City of Claremont Collection System  
PO Box 446  
Claremont NC, 28610

NPDES Permit Number: WQCS00221  
Operator in Responsible Charge: M. Shawn Pennell, CS-4  
Telephone Number: (828) 466-7255

The City of Claremont Collection System generally consists of 25.5 miles of utility lines; 23 miles of gravity sewers and 2.5 miles of pressurized or force mains. 5 Duplex pumping stations ensure that service is available to the low points in the system. The City of Claremont Collection System serves what is inside the City of Claremont's City Limits.

## Reportable Collection System Failures

Date	Location	Spill	Cause	Date	Location	Spill	Cause
	NONE						

In the preceding tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we have provided the following definitions:

- ❖ **mg/L** – Milligrams per liter or parts per million
- ❖ **ug/L** – Micrograms per liter or parts per billion
- ❖ **DO** – Dissolved Oxygen. DO is the molecular (atmospheric) oxygen dissolved in water or wastewater.
- ❖ **BOD** – The rate at which organisms use the oxygen in wastewater while stabilizing decomposable organic matter under aerobic conditions. In decomposition, organic matter serves as food for the bacteria and energy results from its oxidation. BOD measurements are used as a measure of the organic strength of wastes in water.
- ❖ **TSS** – Total suspended residue in wastewater
- ❖ **MGD** – Million gallons per day
- ❖ **NH<sub>3</sub> as N** – Ammonia
- ❖ **Fecal Coliform** – Indicator organisms used to measure the effectiveness of the disinfection process
- ❖ **Summer Months** – April 1<sup>st</sup> to October 31<sup>st</sup>
- ❖ **Winter Months** – November 1<sup>st</sup> to March 31<sup>st</sup>