



Onslow Water & Sewer Authority

www.onwasa.com

**ONWASA Wastewater
Facilities Annual Report
2012**

Based on requirements set forth by the North Carolina Clean Water act of 1999, the Onslow Water and Sewer Authority (ONWASA) is required to produce this annual report on the performance of each Publicly Operated Treatment Works (POTW) and Collection System operated and maintained by ONWASA. This report is available for public review via Internet, the ONWASA Office and local Town Halls.

ONWASA is pleased to present to you this year's Wastewater Facilities Annual Report. This report is a summary of last year's wastewater facilities performance. Included are monthly descriptions of each facility's activity. Our constant goal through wastewater treatment is to protect public health and safety by minimizing the risk of further contamination to surface and ground waters, to protect the quality of surface and ground waters so they will continue to be available as a drinking water source for future generations and to prevent and abate public health hazards. We want you to understand the effort we make to continually improve the wastewater treatment process and protect our water resources. We are committed to providing you with this information, because informed customers provide support in our continuing efforts.

ONWASA managed 7 treatment facilities and 9 collection systems during 2012. Springdale WWTP was decommissioned in September 2012 and ONWASA took over operation of the Webb Apartment's WWTP in June 2012. The other facilities operated by ONWASA are as follows: the Richlands Facility, the Holly Ridge Facility, the Kenwood Facility, the Swansboro Facility and the Hickory Grove Facility are utilized for collection and treatment; the Piney Green Facility and the Summerhouse Facility are collection systems only. This report contains a description and snap shot of the monthly activities of each plant listed as well as the collection systems operated by ONWASA.

Should you have any questions regarding this report you may contact ONWASA at:

ONWASA
228 Georgetown Rd.
Jacksonville, NC 28540
www.onwasa.com

Swansboro: Summary

Swansboro Wastewater Treatment Facility is located at 199 Williams Street and currently has three employees. The plant is designed to treat 0.6 Million Gallons per Day (mgd) and is rated a Grade 3 facility. The average daily flow received at the plant in **2012** was 0.273 mgd, which is 45.5 % (a 1.4% increase) of the design flow at the wastewater plant. The facility treated a total of 99,746,000 gallons during the year, which is approximately 8,303,833 average gallons per month. There was a violation for exceeding a daily fecal coliform limit in February and exceeded daily flow limits to infiltration ponds in September.

The Swansboro Infrastructure has 116,130 feet of various sizes of piping material and 22 sewage-pumping stations. A total of 16,670 feet of gravity pipe was cleaned in 2012, which is 14% of the total gravity pipe. There were no violations of the Swansboro Collection System during 2012.

General Information

Facility Name: Swansboro Wastewater Treatment Plant

Facility Type/ Operation: Activated Sludge Extended Air

Responsible Entity: ONWASA

Facility Address: 199 Williams Road Swansboro, NC 28584

Facility Phone: 910-326-4819

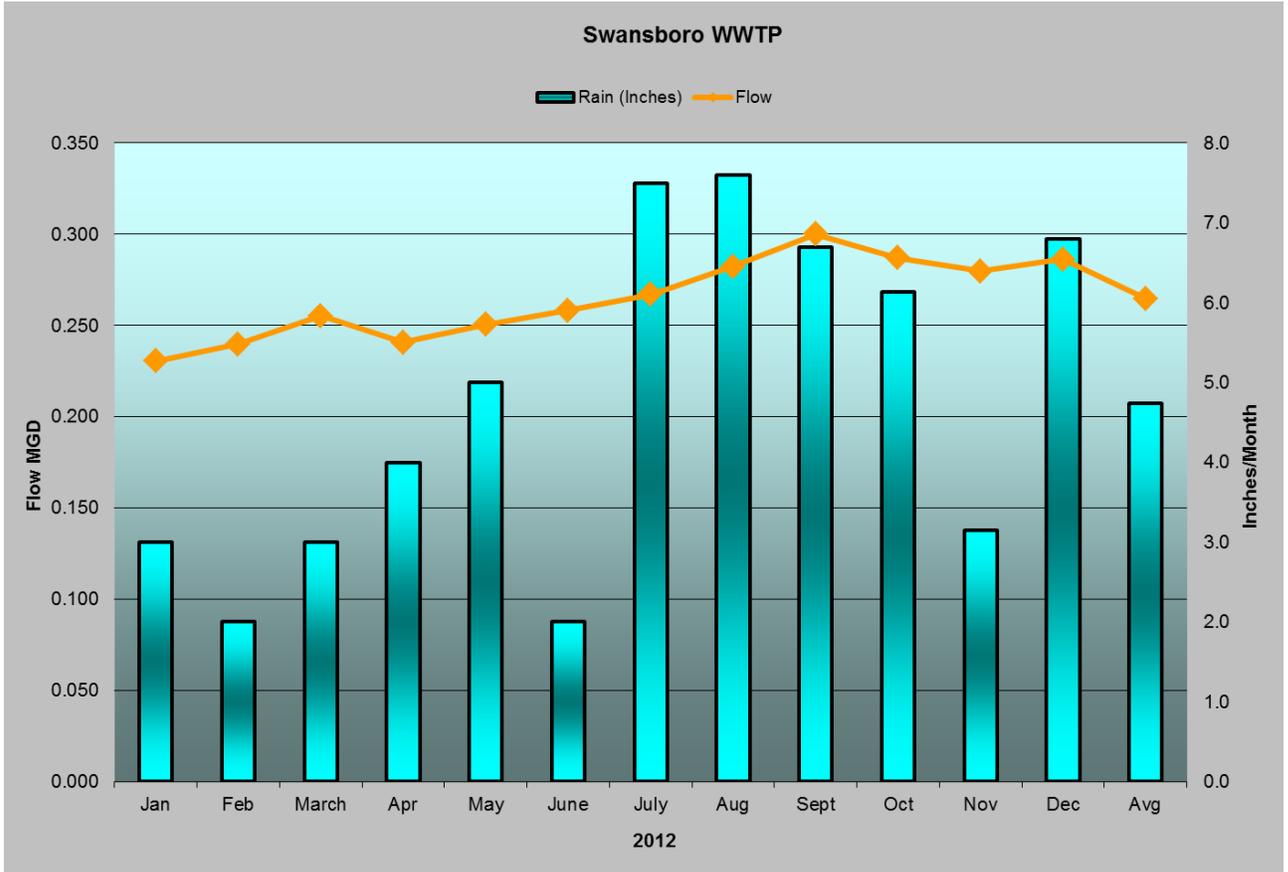
Operator in Responsible Charge (ORC): Mark C. Young

ORC Type / Grade License: WW3, CS2, SI, SS

Applicable Facility Permit Numbers: WQ0023261

Description of Facility: The Wastewater Facility is located in Swansboro on Williams Road where it was constructed in 1979. A Plant upgrade was completed in July of 2007 and the capacity was increased to .6 MGD. The current plant is equipped with (1) aerated equalization basin, Automatic bar screen and grit removal system, (2) Oxidation ditches, (3) secondary clarifiers, (1) aerobic digester, (1) fine bubble sludge holding tank, (1) return sludge pump station, (1) sludge transfer station, (3) Motor control centers, (2) tertiary filters, (1) triple bank UV light system, (1) effluent pump station, (1) upset pond, and (4) low rate infiltration basins.

Swansboro Performance:



January, 2012

Total Flow: 7,370,000 gallons

Average Daily Flow: .238 MGD

Total Rainfall: 2.5 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

February, 2012

Total Flow: 7,173,000 gallons

Average Daily Flow: .247 MGD

Total Rainfall: 2.58 inches

Did the facility have any monitoring violations? YES

Exceeded daily Fecal Coliform Limit.

Did the facility have any overflows? NO

March, 2012

Total Flow: 8,178,000 gallons

Average Daily Flow: .264 MGD

Total Rainfall: 3.16 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

April, 2012

Total Flow: 7,544,000 gallons

Average Daily Flow: .251 MGD

Total Rainfall: 3.75 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

May, 2012

Total Flow: 7,752,000 gallons

Average Daily Flow: .250 MGD

Total Rainfall: 5.31 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

June, 2012

Total Flow: 7,746,000 gallons

Average Daily Flow: .258 MGD

Total Rainfall: 2.02 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

July, 2012

Total Flow: 8,542,000 gallons

Average Daily Flow: .276 MGD

Total Rainfall: 7.51 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

August, 2012

Total Flow: 9,151,000 gallons

Average Daily Flow: .295 MGD

Total Rainfall: 7.68 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

September, 2012

Total Flow: 9,222,000 gallons

Average Daily Flow: .307 MGD

Total Rainfall: 4.03 inches

Did the facility have any monitoring violations? YES

Exceeded the daily flow limit to Infiltration Ponds.

Did the facility have any overflows? NO

October, 2012

Total Flow: 9,187,000 gallons

Average Daily Flow: .296 MGD

Total Rainfall: 6.13 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

November, 2012

Total Flow: 8,654,000 gallons

Average Daily Flow: .288 MGD

Total Rainfall: 3.15 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

December, 2012

Total Flow: 9,227,000 gallons

Average Daily Flow: .298 MGD

Total Rainfall: 6.78 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

Swansboro Collection System

Collection System Name: Town of Swansboro Wastewater Collection System
Collection System Grade/ Type Operation: Grade 2/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: Town of Swansboro located in the eastern part of Onslow County
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consist of one hundred and sixteen thousand one hundred and thirty feet (116, 130') of gravity sewer ranging from sizes from eight inch (8") to eighteen inch (12"), and sixty-two thousand three hundred and eighty feet (62,380') of sewer force mains ranging from six inch (6") to twelve inch (12").

Total Linier feet of pipe: 178,510'
Total number of pump stations: 22
Total Linier feet of pipe cleaned: 16,670'
Total Linier feet of pipe Videoed: 9,170'

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO

Richlands: Summary

Richlands Wastewater Treatment Facility is located at 203 Jimmy Powell Lane and is staffed by one full-time plant operator. The plant is permitted to treat 0.250 million gallons per day (mgd). The average flow at the plant in 2012 was 0.196 mgd, which is 79 % of the permitted design flow of the wastewater plant. The facility treated a total of 71,901,660 gallons during the past year. There was no permit violations for excessive average daily effluent flow however there were several other violations. In March, there was a violation of the effluent BOD limit suspected to be caused by the startup of the new sewer line from Albert J. Ellis Airport. On, July 19th the effluent BOD was high due to fouled sampling equipment and also caused the monthly BOD average for July to be above the allowable limit.

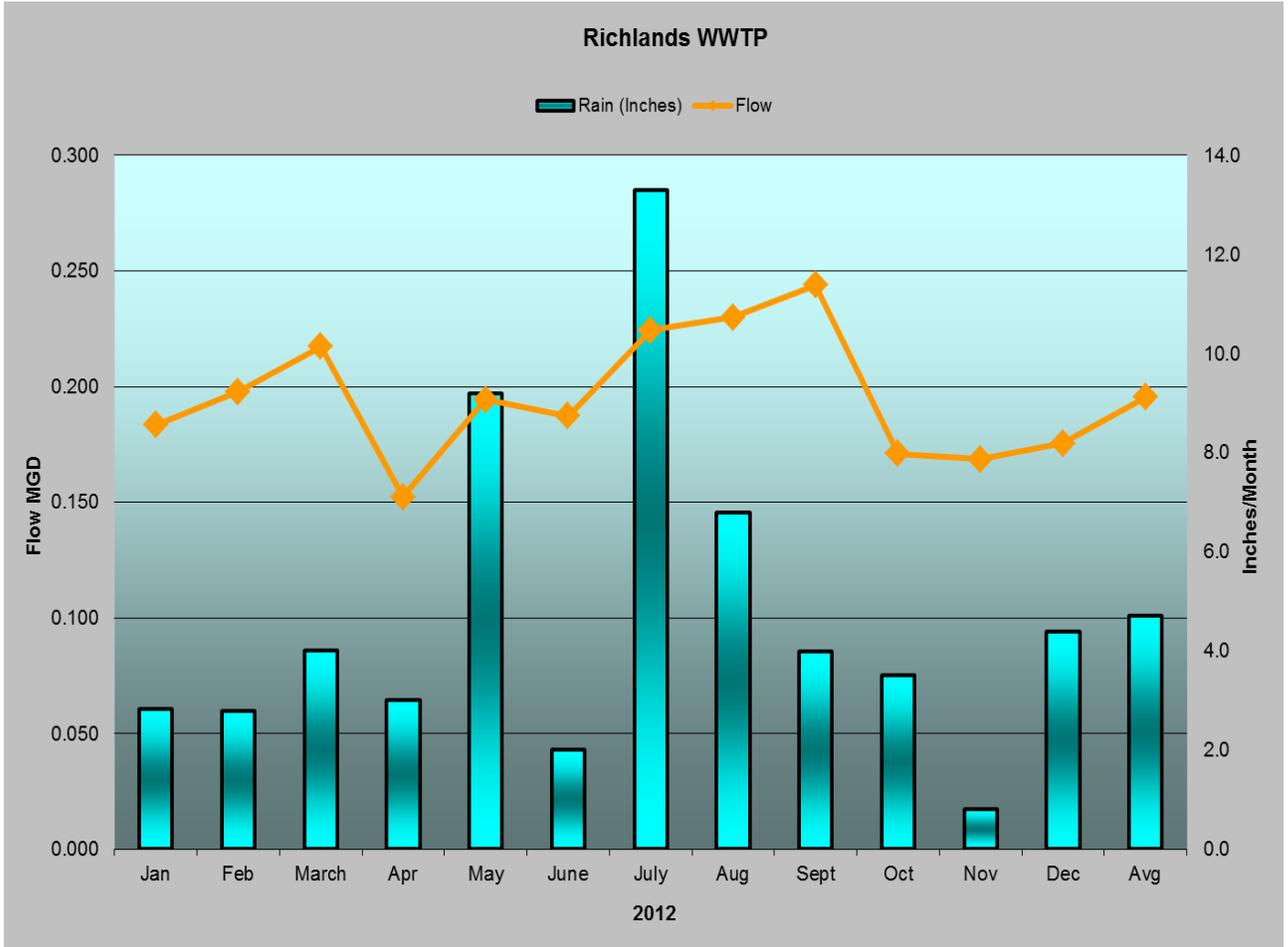
The Richlands Infrastructure has 80, 749 feet of various sizes of piping material and 13 sewage-pumping stations. A total of 14,200 feet of gravity pipe was cleaned in 2012, which is 18% of the total gravity pipe. There were 2 spills noted in the Richlands Collection System during 2012.

Richlands: General Information

Facility Name: Richlands WWTP
Facility Type/ Operation: Wastewater
Responsible Entity: Onslow Water and Sewer Authority
Facility Address: 203 Jimmy Powell Lane
Richlands, NC 28574
Facility Phone: (910) 937-7572
Operator in Responsible Charge (ORC): Daniel Straub
ORC Type / Grade License: WW4 996562
Applicable Facility Permit Numbers: NC0023230

Description of Facility: The Richlands Wastewater Treatment Plant is a 0.25 mgd activated sludge treatment facility. The plant treats wastewater utilizing preliminary screening and grit removal, secondary treatment using an oxidation ditch and secondary clarifiers, tertiary effluent filtration, followed by chlorine disinfection, de-chlorination and post aeration prior to discharging effluent to Squires Run Creek.

Richlands: Performance



January, 2012

Total Flow: 5,683,029 gallons
 Average Daily Flow: 0.183 MGD
 Total Rainfall: 2.82 inches

Did the facility have any monitoring violations? NO

Did the facility have any sewage overflows? NO

February, 2012

Total Flow: 5,737,033 gallons
 Average Daily Flow: 0.197 MGD
 Total Rainfall: 2.79 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

March, 2012

Total Flow: 6,733,669 gallons

Average Daily Flow: 0.217 MGD

Total Rainfall: 4.02 inches

Did the facility have any monitoring violations? YES

The effluent BOD sample taken on March 20th was higher than the allowable limits due to start-up of the sewer line from the Albert J. Ellis Airport.

Did the facility have any overflows? NO

April, 2012

Total Flow: 4,570,682 gallons

Average Daily Flow: 0.152 MGD

Total Rainfall: 3.0 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

May, 2012

Total Flow: 6,023,588 gallons

Average Daily Flow: 0.194 MGD

Total Rainfall: 9.22 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

June, 2012

Total Flow: 5,620,004 gallons

Average Daily Flow: 0.187 MGD

Total Rainfall: 2.04 inches

Did the facility have any monitoring violations? YES

The effluent BOD sample taken on June 19th resulted in a higher than allowable level due to fouled sampling equipment.

Did the facility have any overflows? NO

July, 2012

Total Flow: 6,952,732 gallons

Average Daily Flow: 0.224 MGD

Total Rainfall: 13.25 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

August, 2012

Total Flow: 7,463,145 gallons

Average Daily Flow: 0.241 MGD

Total Rainfall: 6.79 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

September, 2012

Total Flow: 7,317,763 gallons

Average Daily Flow: 0.244 MGD

Total Rainfall: 3.95 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

October, 2012

Total Flow: 5,301,993 gallons

Average Daily Flow: 0.171 MGD

Total Rainfall: 3.48 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

November, 2012

Total Flow: 5,055,216 gallons

Average Daily Flow: 0.169 MGD

Total Rainfall: 0.76 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

December, 2012

Total Flow: 5,442,806 gallons

Average Daily Flow: 0.175 MGD

Total Rainfall: 4.38 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

Richlands: Collection System

Collection System Name: Town of Richlands Wastewater Collection System
Collection System Grade/ Type Operation: Grade 2/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: Town of Richlands located in the northwest part of Onslow County
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consist of eighty thousand seven hundred and forty-nine feet (80,749') of gravity sewer ranging from eight inch (8") to twelve inch (12"), also ninety two thousand five hundred and eighty-two feet (92,582') of force mains ranging from four inch (4") to six inch (12")

Total Linear feet (LF) of pipe: 174,675'

Total number of pump stations: 13

Total LF of pipe cleaned: 14,200'

Total LF of pipe televised: 0

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? Yes

On 12-2-12 a break in the force main from the Albert J. Ellis Airport occurred. The line was repaired and a Vac-truck and lime was used to remediate the site.

On 12-11-12 a clean-out on the Albert J. Ellis Airport force main was hit by a tractor. The clean-out was repaired and lime was used to remediate the site.

Holly Ridge: Summary

Holly Ridge Wastewater Treatment Plant (WWTP) is located at 286 N. Jenkins Street and is currently staffed by three plant operators. The plant has a design capacity of 0.260 million gallons per day (mgd). The average flow at the plant in 2012 was 0.159 mgd, which is 61 % of the permitted design flow of the wastewater plant. The facility treated a total of 58,283,310 gallons during the past year. The facility sprayed a total of 42,542,055 gals. The facility was in non-compliance for the months of Nov. and Dec. due to the two (2) foot freeboard was not maintained. This was due to excessive rainfall and not being able to spray on the fields. No loss of water at facility.

The Holly Ridge Infrastructure has 80,421 feet of various sizes of piping material and 9 sewage-pumping stations. A total of 9,321 feet of gravity pipe was cleaned in 2012, which is 12% of the total gravity pipe. There were no violations of the Holly Ridge Collection System during 2012.

General Information

Facility Name: Holly Ridge WWTP and Wastewater Surface Irrigation

Facility Type/ Operation: Grade 2 WWTP and Surface Irrigation Facility

Responsible Entity: ONWASA

Facility Address: 286 N. Jenkins St. Holly Ridge, N.C. 28445 (WWTP)

220 Dolph Everett Rd. Holly Ridge, N.C. 28445 (Surface Irrigation Facility)

Facility Phone: 910 329-0951

Operator in Responsible Charge (ORC): Allen W. Rhue

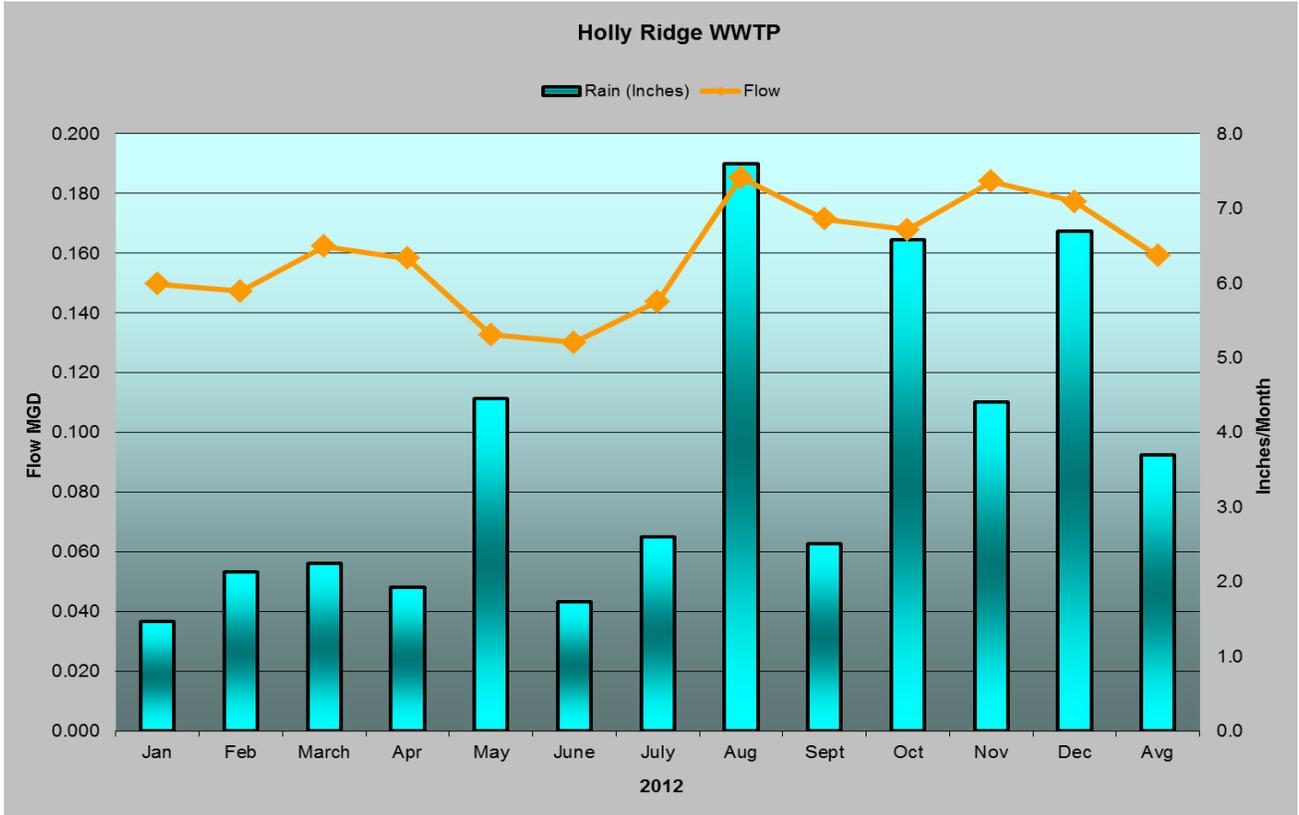
ORC Type / Grade License: WW4: 991815, SI: 987930, CS2: 985635,

SS: 989660, PC1: 990469

Applicable Facility Permit Numbers: WQ0019907

Description of Facility: The Holly Ridge WWTP is a 260,626 GPD Wastewater treatment facility consisting of headworks with manual bar screen and grit chamber, influent flow measurement with ultrasonic flow meter; a 1.82 (MG) treatment lagoon with three (3) aeration cells (cells 1&2 each have 2-25 HP aerators with anti-erosion baffles, cell 3 has 2-25 HP mixers with anti-erosion baffles), a 0.49 MG settling cell; an ultraviolet (UV) disinfection system; a 22,400 gallon aerobic sludge digester with a 2 HP aerator and 3 HP discharge pump; an effluent pump station with duplex 450 GPM pumps; and 17,900 ft. of 8 in. force main to Surface Irrigation Facility. The Surface Irrigation is a 240,179 GPD facility consisting of a 13.30 MG storage lagoon (51 days storage); ten(10) spray fields consisting of 93.42 wetted acres (789 total sprayheads); and an irrigation pump station with dual 700 GPM pumps and an effluent flow meter. The Holly Ridge WWTP and Surface Irrigation Facility is a Non-Discharge facility.

Holly Ridge Performance:



January, 2012

Total Flow: 4,640,550 gals.
 Total Sprayed: 3,245,175 gals.
 Average Daily Flow: 0.150 MGD
 Total Rainfall: 1.47 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

February, 2012

Total Flow: 4,272,650 gals.
 Total Sprayed: 3,518,990 gals.
 Average Daily Flow: 0.147 MGD
 Total Rainfall: 2.13 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

March, 2012

Total Flow: 5,033,050 gals.
Total Sprayed: 5,095,155 gals.
Average Daily Flow: 0.162 MGD
Total Rainfall: 2.25 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

April, 2012

Total Flow: 4,748,610 gals.
Total Sprayed: 4,001,380 gals.
Average Daily Flow: 0.158 MGD
Total Rainfall: 1.73 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

May, 2012

Total Flow: 4,114,600 gals.
Total Sprayed: 2,848,565 gals.
Average Daily Flow: 0.133 MGD
Total Rainfall: 4.45 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

June, 2012

Total Flow: 3,904,050 gals.
Total Sprayed: 2,841,580 gals.
Average Daily Flow: 0.130 MGD
Total Rainfall: 1.73 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

July, 2012

Total Flow: 4,460,500 gals.
Total Sprayed: 2,780,420 gals.
Average Daily Flow: 0.144 MGD
Total Rainfall: 2.60 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

August, 2012

Total Flow: 5,744,900 gals.

Total Sprayed: 1,861,605 gals.

Average Daily Flow: 0.185 MGD

Total Rainfall: 10.48 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

September, 2012

Total Flow: 5,141,700 gals.

Total Sprayed: 3,987,200 gals.

Average Daily Flow: 0.171 MGD

Total Rainfall: 2.51 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

October, 2012

Total Flow: 5,205,300 gals.

Total Sprayed: 4,147,145 gals.

Average Daily Flow: 0.168 MGD

Total Rainfall: 6.58 in.

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

November 2012

Total Flow: 5,520,800 gals.

Total Sprayed: 4,036,250 gals.

Average Daily Flow: 0.184 MGD

Total Rainfall: 4.41 in.

Did the facility have any monitoring violations? YES

Facility was in Non-Compliance due to the Two (2) foot freeboard was not maintained. This was due to excessive rainfalls and not being able to spray on wet fields. DWQ was notified of situation. No loss of any water.

Did the facility have any overflows? NO

December, 2012

Total Flow: 5,496,600 gals.
Total Sprayed: 4,178,590 gals.
Average Daily Flow: 0.177 MGD
Total Rainfall: 6.70 in.

Did the facility have any monitoring violations? YES

Facility was in Non-Compliance due to the Two (2) foot freeboard was not maintained. This was due to excessive rainfalls and not being able to spray on wet fields. No loss of any water.

Did the facility have any overflows? NO

Holly Ridge Collection System

Collection System Name: Town of Holly Ridge Wastewater Collection System
Collection System Grade/ Type Operation: Grade 1/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: Town of Holly Ridge located in the southeast part of Onslow County
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consist of eight thousand four hundred and twenty-one feet (80,421') of gravity sewer ranging from eight inch (8") to twelve inch (12"), also twenty five thousand eight hundred and fifty feet (25,850') of force mains ranging from four inch (4") to eight inch (8")

Total Linear feet (LF) of pipe: 106,271'
Total number of pump stations: 9
Total LF of pipe cleaned: 9,321'
Total LF of pipe televised: 500'

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO

Kenwood: Summary

Kenwood Wastewater Treatment Facility is located at 507 OCI Drive in Kenwood Subdivision off Blue Creek Road. The plant currently has two employees. The plant has a design capacity of 0.049 mgd. The average flow for 2012 was .026 mgd, which is 79.5 % of the design flow of the wastewater plant. The facility treated a total of 9,943,696 gallons during the year. The plant discharges into Southwest Creek on Blue Creek Road.

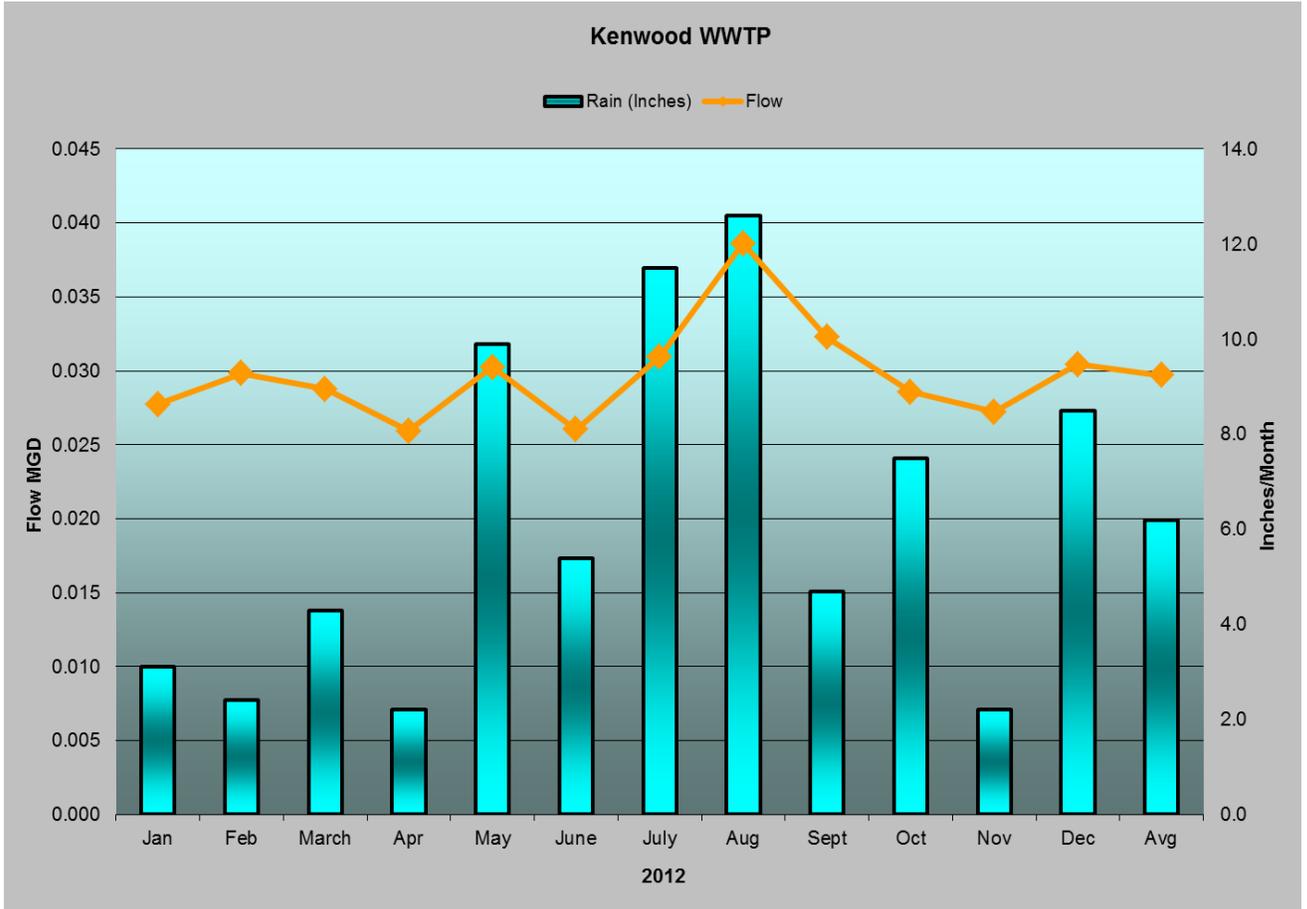
The Kenwood Infrastructure has 9,351 feet of various sizes of piping material and two pump stations. A total of 1,500 feet of pipe was cleaned in 2012, which is 16 % of total pipe. There were no violations of the Kenwood Subdivision Collection System during 2012.

Kenwood: General Information

Facility Name: Kenwood Wastewater Treatment Plant
Facility Type/ Operation: Activated Sludge Extend Air
Responsible Entity: Onslow Water and Sewer Authority
Facility Address: 501 OCI Dr.
Jacksonville, NC. 28540
Facility Phone: 910-455-0722
Operator in Responsible Charge (ORC): Daniel Straub
ORC Type / Grade License: WW4 996562
Applicable Facility Permit Numbers: NC 0030813

Description of Facility: Wastewater Facility is located in the southwest area of Onslow County where it was constructed in 1976. The current plant is a .049 gallons per day, Treatment Facility. The Treatment process consist of, bar screens, flow equalization basin, 2 clarifiers, 2 sand filters, clearwell, effluent with gaseous chlorine and sodium bisulfite de-chlorination system. The plant effluent is discharged to the Southwest Creek on HWY 53.

Kenwood: Performance



January, 2012

Total Flow: 859,371 gallons

Average Daily Flow: 0.028 MGD

Total Rainfall: 3.2 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

February, 2012

Total Flow: 853,803 gallons

Average Daily Flow: 0.029 MGD

Total Rainfall: 2.4 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

March, 2012

Total Flow: 892,145 gallons

Average Daily Flow: 0.029 MGD

Total Rainfall: 4.3 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

April, 2012

Total Flow 778,016 gallons

Average Daily Flow: 0.026 MGD

Total Rainfall: 2.2 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

May, 2012

Total Flow: 940,047 gallons

Average Daily Flow: 0.030 MGD

Total Rainfall: 9.9 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

June, 2012

Total Flow: 780,703 gallons

Average Daily Flow: 0.026 MGD

Total Rainfall: 5.4 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

July, 2012

Total Flow: 959,407 gallons

Average Daily Flow: 0.031 MGD

Total Rainfall: 11.5 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

August, 2012

Total Flow: 1,212,892 gallons

Average Daily Flow: 0.039 MGD

Total Rainfall: 10.1 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

September, 2012

Total Flow: 968,321 gallons

Average Daily Flow: 0.032 MGD

Total Rainfall: 4.7 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

October, 2012

Total Flow: 885,387 gallons

Average Daily Flow: 0.029 MGD

Total Rainfall: 7.5 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

November, 2012

Total Flow: 816,193 gallons

Average Daily Flow: 0.027 MGD

Total Rainfall: 2.2 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

December, 2012

Total Flow: 943,823 gallons

Average Daily Flow: 0.030 MGD

Total Rainfall: 8.5 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

Kenwood: Collection System

Collection System Name: Kenwood Subdivision
Collection System Grade/ Type Operation: Grade 1/ Domestic
Responsible Entity: Onslow Water and sewer Authority ONWASA
Facility Address: Southwest area of Onslow County
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consists of nine thousand three hundred and fifty-one feet (9,351') of eight inch (8") gravity sewer and fifteen thousand nine hundred and forty-two feet (15,942') of four inch (4") force main, and two pump stations.

Total Linier feet of pipe: 25,293'
Total number of pump stations: 2
Total Linier feet of pipe cleaned: 1,500'
Total Linier feet of pipe Videoed: 0

Did the Collection System have any monitoring violations? NO
Did the Collection System have any overflows? NO

Webb Apartments: Summary

The Webb Apartments Wastewater Treatment Facility is located at 1906 Piney Green Road, Northeast of Jacksonville in Onslow County. The plant does not have a full time employee. The system was acquired by ONWASA from the previous owner and operations under ONWASA management began in June 2012. The plant is designed to treat 0.025 Million Gallons per Day (mgd) and is rated a Grade 2 facility. The average daily flow received at the plant in **2012 (seven months data)** was 0.007 mgd, which is 30.9% of the design flow at the wastewater plant. The facility treated a total of 1,655,430 gallons during the year, which is approximately 183,936 average gallons per month. The facility discharges treated effluent into the Little Northeast Creek, a Sub-basin of the White Oak River. The plant had no monitoring violations for the year.

The Webb Apartments Infrastructure has 1,400 feet of 8” gravity sewer line. A total of 600 feet of gravity pipe was cleaned in 2012, which is 43% of the total gravity pipe. There were no violations of the Webb Apartments Collection System during 2012.

Webb Apartments: General Information

Facility Name: Webb Apartments Wastewater Treatment Plant

Facility Type/ Operation: Activated Sludge Extended Air

Responsible Entity: ONWASA

Facility Address: 1906 Piney Green Road, Jacksonville, NC

Facility Phone: 910-937-7539 or 7574

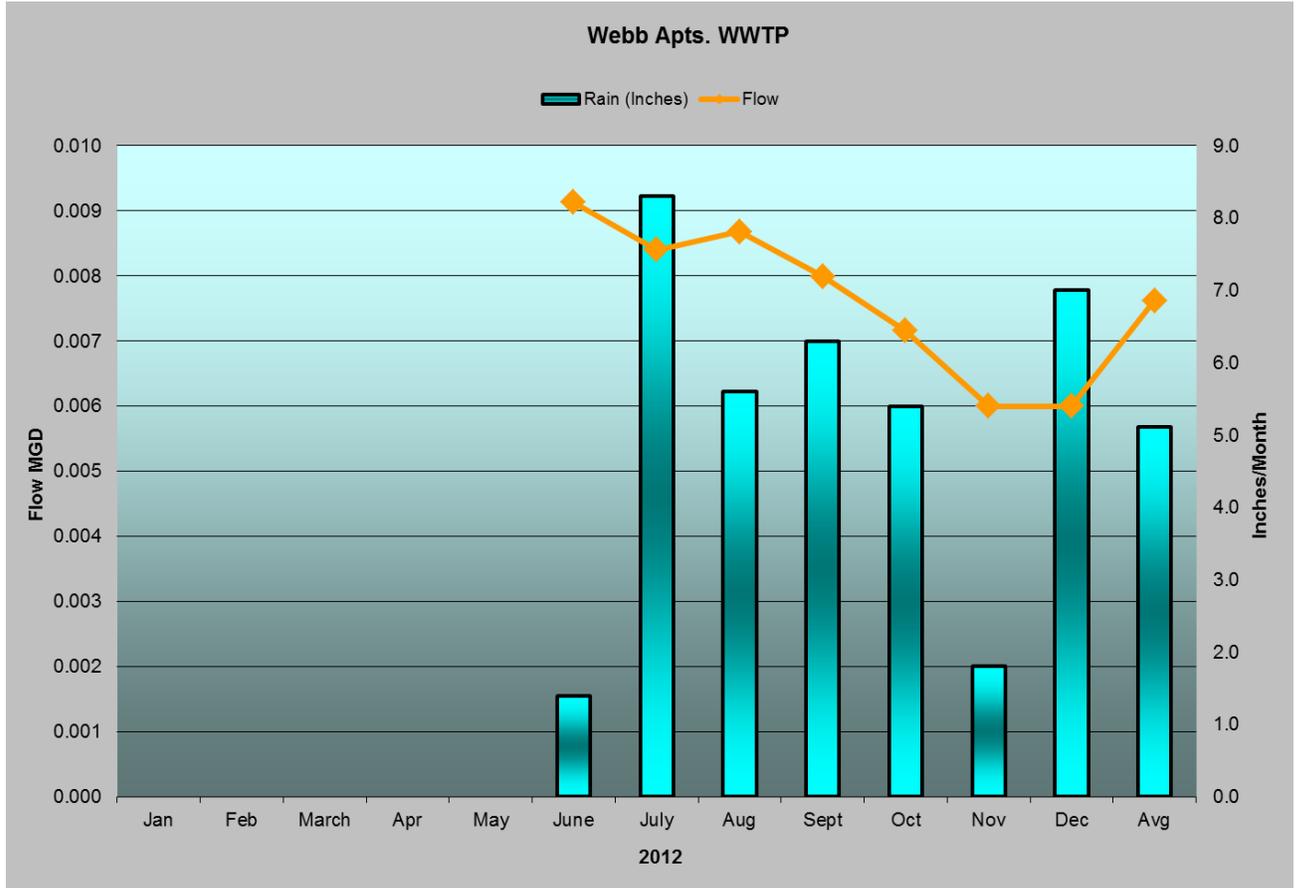
Operator in Responsible Charge (ORC): Mark C. Young

ORC Type / Grade License: WW3, CS2, SI, SS

Applicable Facility Permit Numbers: NC0023825

Description of Facility: The Wastewater Facility is located northeast of Jacksonville on Piney Green Road. The plant is equipped with (1) Influent Pump Station, (1) Flow Equalization Basin, (1) Manual Bar Screen, (2) Aeration Basins, (1) Secondary Clarifier, (2) High Rate Filters, (1) Post Aeration Basin, (1) Aerobic Digester, (2) Duel Sludge Drying Beds, (1) Gaseous Chlorine System, and (1) Liquid De-chlorination System.

Webb Apartments: Performance



Note: Data from previous Management not required, January – May 2012

June, 2012

Total Flow: 287,730 gallons

Average Daily Flow: .009 MGD

Total Rainfall: 1.4 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

July, 2012

Total Flow: 260,360 gallons

Average Daily Flow: .008 MGD

Total Rainfall: 8.3 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

August, 2012

Total Flow: 269,050 gallons

Average Daily Flow: .009 MGD

Total Rainfall: 5.6 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

September, 2012

Total Flow: 239,740 gallons

Average Daily Flow: .008 MGD

Total Rainfall: 6.3 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

October, 2012

Total Flow: 221,820 gallons

Average Daily Flow: .007 MGD

Total Rainfall: 5.4 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

November, 2012

Total Flow: 182,760 gallons

Average Daily Flow: .006 MGD

Total Rainfall: 1.8 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

December, 2012

Total Flow: 193,970 gallons

Average Daily Flow: .006 MGD

Total Rainfall: 6.8 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

Webb Apartments: Collection System

Collection System Name: Webb Apartments Wastewater Collection System
Collection System Grade/ Type Operation: Grade 1/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: Webb Apartments Subdivision east of the City of Jacksonville
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consists of one thousand four hundred feet (1,400') of eight inch (8") gravity sewer.

Total Linier feet of pipe: 1,400'

Total number of pump stations: 0

Total Linier feet of pipe cleaned: 600

Total Linier feet of pipe Videoed: 0

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO

Hickory Grove: Summary

The Hickory Grove Wastewater Treatment Plant (WWTP) is located off Easy Street in the Hickory Grove Subdivision and is serviced regularly by an ONWASA wastewater operator. The plant does not have a full-time employee. The plant is designed to treat 22,500 gallons per day (GPD). The average flow at the plant in 2012 was 0.009 million gallons per day (MGD), which is 4 % of the design flow at the wastewater plant. The facility treated a total of 331,870 gallons (Gals.) during the year. The Plant had sampling violations in the months of May, November, and December.

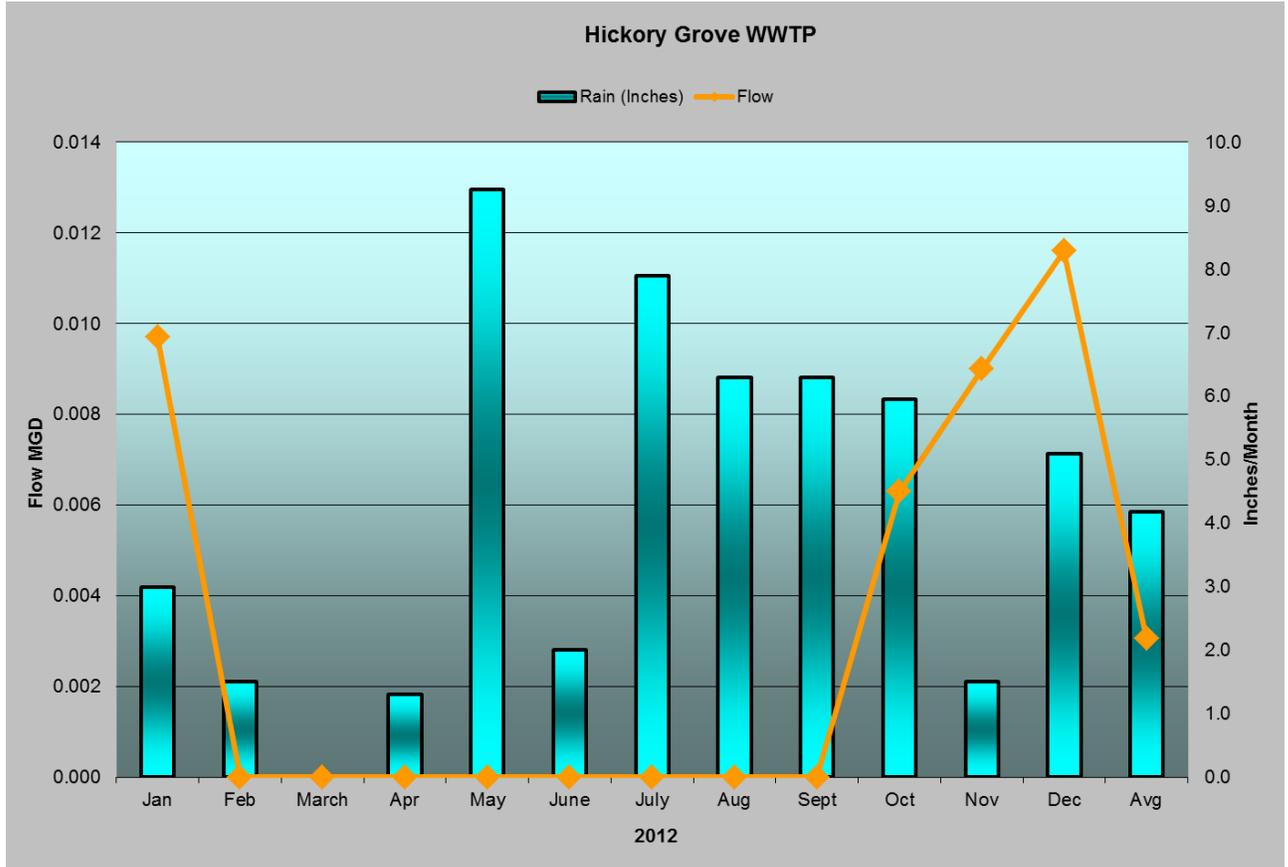
The Hickory Grove Infrastructure has 1,960 feet of various sizes of piping material. A total of 658 feet of gravity pipe was cleaned in 2012, which is 34% of the total gravity pipe. There were no violations of the Hickory Grove Collection System during 2012.

Hickory Grove: General Information

Facility Name: Hickory Grove WWTP
Facility Type/ Operation: Facultative Lagoon
Responsible Entity: ONWASA
Facility Address: Hickory Grove Subdivision
Facility Phone: 910-455-0722
Operator in Responsible Charge (ORC): Mark C. Young
ORC Type / Grade License: WW3, CS2, SI, SS
Applicable Facility Permit Numbers: NC0034991

Description of Facility: The facility is located off NCSR 1406 east of Jacksonville at the Hickory Grove Subdivision. The facility is rated to treat 0.0225 MGD or 22,500 gallons per day of wastewater. The system is comprised of a 2.9 acre lagoon, a tablet chlorine system and a chlorine contact chamber with de-chlorination. The plant discharges to the Little Northeast Creek, classified C-NSW waters in the White Oak River Basin.

Hickory Grove: Performance



January, 2012

Total Flow: 970 gallons

Average Daily Flow: .0097 MGD

Total Rainfall: 3.0 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

February, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 1.5 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

March, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 0 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

April, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 1.3 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

May, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 9.25 inches

Did the facility have any monitoring violations? YES

Fecal Coliform

Did the facility have any overflows? NO

June, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 2.0 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

July, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 7.9 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

August, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 6.35 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

September, 2012

Total Flow: 0 gallons

Average Daily Flow: 0 MGD

Total Rainfall: 6.35 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

October, 2012

Total Flow: 1,800 gallons

Average Daily Flow: .006 MGD

Total Rainfall: 5.95 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

November, 2012

Total Flow: 2,700 gallons

Average Daily Flow: .009 MGD

Total Rainfall: 1.5 inches

Did the facility have any monitoring violations? YES

BOD and Fecal Coliform

Did the facility have any overflows? NO

December, 2012

Total Flow: 326,400 gallons

Average Daily Flow: .0116 MGD

Total Rainfall: 5.1 inches

Did the facility have any monitoring violations? YES

Fecal coliform, TSS, and BOD

Did the facility have any overflows? NO

Hickory Grove: Collection System

Collection System Name: Hickory Grove Collection System

Collection System Grade/ Type Operation Grade 1/ Domestic

Responsible Entity: Onslow Water and sewer Authority ONWASA

Facility Address: Hickory Grove Subdivision

Contact Phone: 910-937-7509

Operator in Responsible Charge (ORC): Timothy V. Webb

ORC Type / Grade License: CS Grade 4 License # 987495

Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consists of one thousand nine hundred and sixty feet (1,960') of gravity sewer.

Total L.F. of pipe: 1,960

Total number of pump stations: 0

Total L.F. of pipe cleaned: 658

Total L.F. of pipe televised: 0

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO

Springdale: Summary

The plant is designed to treat 0.050 mgd. There is a Special Order of Consent (SOC) in effect that allows the plant to process 0.115 mgd. The average flow at the plant in 2011 was 0.0 MGD, which is % of the design flow of the wastewater plant

Springdale: General Information

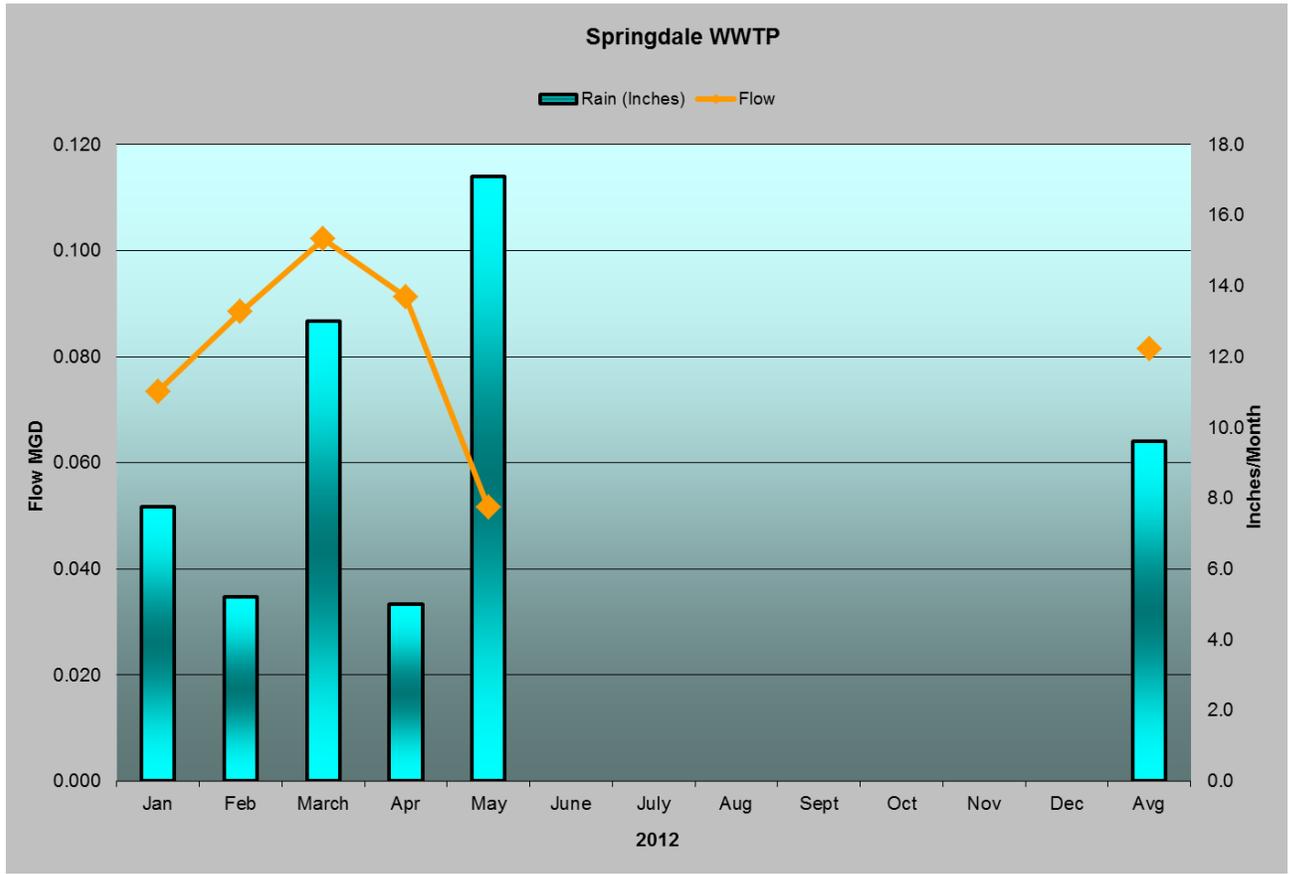
Facility Name: Springdale Wastewater Treatment Plant
Facility Type/ Operation: Activated Sludge Extend Air
Responsible Entity: Onslow Water and Sewer Authority
Facility Address: 165 Surrey Dr.
Jacksonville, NC. 28540
Facility Phone: N/A
Operator in Responsible Charge (ORC): Daniel Straub
ORC Type / Grade License: WW4 996562
Applicable Facility Permit Numbers: NC 0030813

Description of Facility:

The Springdale Acres Wastewater Treatment Plant was a 0.050 MGD activated sludge treatment facility. The plant treated wastewater utilizing preliminary screening, secondary treatment using an aeration basin and Secondary clarifier, tertiary effluent filtration followed by chlorine disinfection and post aeration prior to discharging effluent to Brinson Creek. Flow to the plant ceased in May of 2012 and the permit was rescinded in September of 2012.

The Springdale Infrastructure has 18,677 feet of various sizes of piping material. A total of 3,930 feet of gravity pipe was cleaned in 2012, which is 21% of the total gravity pipe. There were no violations of the Hickory Grove Collection System during 2012.

Springdale: Performance



January, 2012

Total Flow: 2,227,243 gallons

Average Daily Flow: 0.073 MGD

Total Rainfall: 7.8 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

February, 2012

Total Flow: 2,564,803 gallons

Average Daily Flow: 0.088 MGD

Total Rainfall: 5.2 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

March, 2012

Total Flow: 3,166,574 gallons

Average Daily Flow: 0.102 MGD

Total Rainfall: 13.0 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

April, 2012

Total Flow 2,739,949 gallons

Average Daily Flow: 0.091 MGD

Total Rainfall: 5.0 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

May, 2012

Total Flow: 1,597,865 gallons

Average Daily Flow: 0.051 MGD

Total Rainfall: 17.1 inches

Did the facility have any monitoring violations? NO

Did the facility have any overflows? NO

Springdale: Collection System

Collection System Name: Springdale Wastewater Collection System

Collection System Grade/ Type Operation: Grade 1/ Domestic

Responsible Entity: Onslow Water and Sewer Authority (ONWASA)

Facility Address: Southwest area of Onslow County

Contact Phone: 910-937-7509

Operator in Responsible Charge (ORC): Timothy V. Webb

ORC Type / Grade License: CS Grade 4 License # 987495

Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consist of eighteen thousand six hundred and seventy seven feet (18,677') of gravity sewer ranging from eight inch (8") to twelve inch (12"), ten thousand four hundred and twenty-four feet (10,424) of force mains ranging from four inch (4") to six inch (6")

Total Linear feet of pipe: 18,677'

Total number of pump stations: 3

Total Linear feet of pipe cleaned: 9,753'

Total Linear feet of pipe Videoed: 0'

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO

Summerhouse: Collection System

Collection System Name: Summerhouse Wastewater Collection System
Collection System Grade/ Type Operation: Grade 1/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: Stump Sound area of Onslow County Summerhouse Subdivision
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consist of thirty seven thousand and twenty-eight (37,028') 8" gravity sewer, nineteen thousand eight hundred and forty-two feet (19,842') of force mains ranging from four inch (4") to six inch (8")

Total Linear feet of pipe: 48,668'
Total number of pump stations: 5
Total Linear feet of pipe cleaned: 0'
Total Linear feet of pipe Videoed: 0'

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO

Piney Green: Collection System

Collection System Name: Piney Green Wastewater Collection System
Collection System Grade/ Type Operation: Grade 1/ Domestic
Responsible Entity: Onslow Water and Sewer Authority (ONWASA)
Facility Address: East of the City of Jacksonville along Piney Green Corridor
Contact Phone: 910-937-7509
Operator in Responsible Charge (ORC): Timothy V. Webb
ORC Type / Grade License: CS Grade 4 License # 987495
Applicable Collection System Permit Numbers: WQCS00249

Description of Facility: This system consist of fifty one thousand four hundred and forty nine feet (51,449') of gravity sewer ranging from eight inch (8") to fifteen inch (15"), sixty thousand three hundred and fifty-five feet (60,355') of force mains ranging from four inch (4") to six inch (24")

Total Linear feet of pipe: 111,804'
Total number of pump stations: 6
Total Linear feet of pipe cleaned: 6,989'
Total Linear feet of pipe Videoed: 0'

Did the Collection System have any monitoring violations? NO

Did the Collection System have any overflows? NO