

GENERAL INFORMATION

The Town of Waynesville operates a conventional activated sludge secondary treatment plant. Its permitted capacity (NPDES permit NC 0025321) is 6.0 million gallons per day (MGD). During the past year the Waynesville WWTP treated an average daily flow of 3.05 MGD. In addition to the Town's wastewater collection system (WQ CS 00039), the WWTP treated flow from the tributary systems of the Junaluska Sanitary District, Lake Junaluska Assembly, Town of Clyde and a small (one mile) line from the Town of Maggie Valley. The Town of Waynesville's wastewater collection system consists of approximately 69 miles of pipeline ranging in diameter from six inches to thirty inches. The system functions by gravity flow. The Town has no sewage pump stations.

PERFORMANCE

For the fiscal year July 1, 2009 to June 30, 2010, the sanitary sewer system experienced three spill events. On January 18, 2010 at Waynesville Country Club near a golf course pond on Farmer Branch an estimated sanitary sewer overflow (SSO) of 750 gallons reached surface waters. A buried manhole had to be located and excavated to gain access to the blockage which was attributed to roots from trees planted on the line by the golf course. Root treatments were performed after the line was washed and flow restored.

On March 3, 2010 on Farley Street less than 100 gallons overflowed from a manhole during sewer washing to a tributary of Shelton Branch. Residents in the neighborhood received door hangers regarding the discharge of fats, oils & grease (FOG) to the sanitary sewers.

On May 6, 2010 at a bar screen facility on Richland Creek adjacent to Howell Mill Road, evidence of a wet weather SSO was reported by the Town. It was suspected that intense rainfall and bankful stream flows earlier in the week on May 3 resulted in significant I/I entering the sewer system and exceeding downstream trunk sewer capacity. Cleanup was performed. Cleaning of bar screen and inspections have been increased at this location. Actions to reduce I/I to the Town's collection system are ongoing.

The Town continued work to rehabilitate the sanitary sewer collection system with 5,441 LF of line replacement, all 8 inch PVC. The Town routinely inspects sewer line not in the public view, aerial creek crossings, and high priority lines. Inspection footage totaled 177,250 LF for the year. Preventive line washing with the sewer jet truck totaled 473,300 LF. Cameras are used for internal line inspection where problem areas need further investigation. A list of locations is attached.

For the year the Waynesville WWTP had no concentration based NPDES permit violations. There were no pH, D.O., residual chlorine, bioassay, heavy metals, reporting or monitoring violations. Due to seasonally low influent BOD and TSS concentration and wet weather I / I the WWTP did not consistently achieve 85% removal. The noncompliance occurred November 2009 (83% BOD removal), January 2010 (73% BOD, 74% TSS removal), February 2010 (80% BOD and TSS) and March 2010 (81% BOD removal).

CUSTOMER RESPONSIBILITIES

The Town needs the help of each sewer user to reduce the number of overflows by collecting grease fats and oils from cooking in a container and dispose of it in the garbage instead of pouring it down the drain. Place a wastebasket in each bathroom for the disposal of solid waste, disposable diapers, condoms and personal hygiene products that DO NOT belong in the sewer system. Place food scraps in the garbage for disposal with household solid waste or start a compost pile using food scraps instead of disposing of them down the kitchen sink.

Please report sanitary sewer overflows (SSOs) and water main breaks by calling Public Works at 828-456-3706 during normal business hours (Monday - Friday, 7:30 AM - 4:00 PM). For after hours call the police dispatch at 828-456-5363.

Be aware of whether you are vulnerable to a back-up of sewage into your premises. A serious risk of back-up could exist if any points of entry into the plumbing system such as floor drains, toilets, sinks or fixtures are lower than the elevation of the next upstream manhole. This problem can be addressed with the proper installation and maintenance of a sewer back flow valve. It is the builder, homeowner or property owner's responsibility to determine whether this situation exists and to install a valve and/or maintain adequate home insurance.

Property owners are responsible for the care and maintenance of service lines from their homes to the sewer mains in the street. A cleanout should be located in this service line near the right of way line or sidewalk. Most sewer blockages occur between the house and the sewer main. The property owner is responsible for correcting this problem.

Please do not cover up manholes, erect fences or structures on sewer lines or easements or damage sewer lines in any manner. SSOs may not be directly caused by these conflicts but access and response time to sewer backups will be hindered.

Annual Sewer Report

**July 1, 2009
Thru
June 30, 2010**

SEWER DEPARTMENT

Sewer Spill Log

July 1, 2009 -----June 30, 2010

January 18, 2010

Waynesville Country Club near the pond – manhole buried, root blockage

March 3, 2010

Farley Street – manhole overflow

May 3, 2010

Howell Mill Road – Little Champion at bar screen

Sewer Department

Line Replacements 07/01/2009----06/30/2010

Camelot Drive

8" – 1712 LF SDR 35

Replaced main line and installed 8 new manholes

Rolling Drive

8" – 807 LF SDR 35

Replaced main line and installed 4 new manholes

Camelot Drive / Belle Meade Drive

8" – 821 LF SDR 35

4" - 4 LF SDR 35

Replaced main line and installed 4 new manholes

Poplar Street

8"- 767 LF SDR 35

Replaced main line and installed 2 new manholes

Love Lane/Dolan Road/Chestnut Park Drive

8" - 1330 LF SDR 35

Replaced main line and installed 4 new manholes

Total LF replaced = 5441

Sewer Inspection Report
07/01/2009----06/30/2010

July 2009

6" – 13,000 ft.

August 2009

6" – 17,500 ft.

September 2009

6" – 20,000 ft.

October 2009

6" – 11,900 ft.

November 2009

6" – 13,800 ft.

December 2009

6" – 12,500 ft.

December 2009

Aerial Creek Crossing

Richland Creek

- 1) 16" Golf Course Road collector at US19 bridge
- 2) 24" South Lakeshore trunk at US19
- 3) 12" Raccoon Creek interceptor at Blue Ridge Paper
- 4) 24" South Lakeshore trunk at Blue Ridge Paper
- 5) 30" trunk at Blue Ridge Paper
- 6) 18" trunk at Lea Industries
- 7) 8" Dayco control manhole

Raccoon Creek

- 8) 10" Industrial Park collector at Blue Ridge paper
- 9) 10" Raccoon Creek interceptor at Howell Mill Road
- 10) 10" Health Department collector at Junaluska Elementary
- 11) 10" Raccoon Creek interceptor at Francis Farm Road

Sewer Inspection Report continued...

Factory Branch

- 12) 12" Dellwood interceptor at Lake Junaluska entrance
- 13) 12" Dellwood interceptor at US19

Shelton Branch

- 14) 18" Shelton Branch interceptor at US276, Pigeon Street
- 15) 10" Shelton Branch interceptor at Conley Street near Broad Street
- 16) 10" Shelton Branch interceptor at Jarvis Street near Broad Street
- 17) 6" collector, end of Ross Street (aerial)
- 18) 6" collector, end of Prevost Street (aerial)
- 19) 8" collector, between Prevost and Oakdale Road
- 20) 18" Shelton Branch interceptor, Vance Street and Parkview Drive

Eagle Nest Creek

- 21) Corner of Eagle Nest Road/Sulphur Springs Road at BP Station

Browning Branch

- 22) Allens Creek Road at Gas Light Mobile Home Park (ditch crossing)
- 23) SR 1140, Lickstone Road at Hunters Crossing
- 24) Riverbend Street behind Cline-Bradley's

Chestnut Park

- 25) Chestnut Park Drive, above rest home, 6" collector from Dolan Road

- Raccoon Road Line—(Hillside Terrace Junction to US276 at Crymes Cove Road)
- Little Blue Ridge—(Howell Mill Road to US19 bridge at Junaluska Assembly)
- Raccoon Creek—(Hillside Terrace past Junaluska School on to Waynesville Industrial Park)
- Howell Mill Road—(Little Blue Ridge thru Schulhofers, Recreation Center, Abel's etc. to Russ Avenue)
- Richland Creek—(209 area, Junaluska dam thru Fairgrounds to Sewer Plant)
- Dellwood Road (us190—((From Junaluska Assembly Junction thru Dayton Drive, Ivey Hill etc., to Queens Farm)
- Fitzgerald field—(Oakdale Road bridge to Country Club Drive)
- Richland Creek—(End of Tarheel Street to Hyatt Creek Road)
- Chestnut Walk—(Browning Branch Road at Pump House to end)
- Will Hyatt Road—(Eagles Nest Road to Will Hyatt Road thru Sand Trap Drive on to Cardinal Drive and Wren Way)

Sewer Inspection Report continued...

January 2010

6" – 13,400 ft.

February 2010

6" – 16,600 ft.

March 2010

6" – 13,800 ft.

March 2010

Priority Line/Aerial Creek Crossing

Aerial Creek Crossing

Richland Creek

- 25) 16" Golf Course Road collector at US19 bridge
- 26) 24" South Lakeshore trunk at US19
- 27) 12" Raccoon Creek interceptor at Blue Ridge Paper
- 28) 24" South Lakeshore trunk at Blue Ridge Paper
- 29) 30" trunk at Blue Ridge Paper
- 30) 18" trunk at Lea Industries
- 31) 8" Dayco control manhole

Raccoon Creek

- 32) 10" Industrial Park collector at Blue Ridge paper
- 33) 10" Raccoon Creek interceptor at Howell Mill Road
- 34) 10" Health Department collector at Junaluska Elementary
- 35) 10" Raccoon Creek interceptor at Francis Farm Road

Sewer Inspection Report continued...

Factory Branch

- 36) 12" Dellwood interceptor at Lake Junaluska entrance
- 37) 12" Dellwood interceptor at US19

Shelton Branch

- 38) 18" Shelton Branch interceptor at US276, Pigeon Street
- 39) 10" Shelton Branch interceptor at Conley Street near Broad Street
- 40) 10" Shelton Branch interceptor at Jarvis Street near Broad Street
- 41) 6" collector, end of Ross Street (aerial)
- 42) 6" collector, end of Prevost Street (aerial)
- 43) 8" collector, between Prevost and Oakdale Road
- 44) 18" Shelton Branch interceptor, Vance Street and Parkview Drive

Eagle Nest Creek

- 45) Corner of Eagle Nest Road/Sulphur Springs Road at BP Station

Browning Branch

- 46) Allens Creek Road at Gas Light Mobile Home Park (ditch crossing)
- 47) SR 1140, Lickstone Road at Hunters Crossing
- 48) Riverbend Street behind Cline-Bradley's

Chestnut Park

- 25) Chestnut Park Drive, above rest home, 6" collector from Dolan Road
- Raccoon Road Line—(Hillside Terrace Junction to US276 at Crymes Cove Road)
- Little Blue Ridge—(Howell Mill Road to US19 bridge at Junaluska Assembly)
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Sewer Inspection Report continued...

April 2010

6" – 16,000 ft.

May 2010

6" – 13,650 ft.

June 2010

6" – 15,100 ft.

Total Year by Line Size:

6" – 177,250 ft.

Total Footage Inspected for Year: 177,250 ft.

**Sewer Preventative Maintenance Report
07/01/2009----06/30/2010**

Non-Breakdown Line Washing By Month

July 2009

6" – 42,000 ft.

August 2009

6" – 48,400 ft.

September 2009

6" – 36,800 ft.

October 2009

6" – 40,000 ft.

November 2009

6" – 38,600 ft.

December 2009

6" – 40,500 ft.

January 2010

6" – 30,300 ft.

February 2010

6" – 27,200 ft.

March 2010

6" – 41,950 ft.

Sewer Maintenance Report continued...

April 2010

6" - 45,200 ft.

May 2010

6" - 46,300 ft.

June 2010

6" - 36,050 ft.

Total Year by Line Size:

6" - 473,300 ft.

Total Footage Washed for Year: 473,300 ft.

CAMERA ----- LINE INSPECTION

JULY 2009 – JUNE 2010

JULY 2009 – Duckett Cove Road

NOVEMBER 2009 – South Main Street to Brook Street

DECEMBER 2009 – North Main Street (Garrett Funeral Home)

JANUARY 2010 – Waynesville Country Club (off of Willow Street)

MARCH 2010 – Conley Street

APRIL 2010 - Oakdale Road