



**CHARLOTTE**<sup>SM</sup>

CHARLOTTE-MECKLENBURG  
UTILITIES

# Wastewater Performance Report

**July 1, 2006 – June 30, 2007**

**Charlotte-Mecklenburg Utilities**

5100 Brookshire Blvd.

Charlotte, NC 28216

Phone: (704) 399-2221 Fax: (704) 393-2219

[www.cmutilities.com](http://www.cmutilities.com)

## **I. General Information**

### **Name of Regulated Entity and Responsible Person:**

City of Charlotte  
Barry Gullet, Deputy Director  
Charlotte-Mecklenburg Utilities  
Administration Division  
5100 Brookshire Blvd.  
Charlotte, NC 28216  
(704) 399-2221

### **Applicable Permits:**

There are five wastewater treatment facilities owned and operated by Charlotte-Mecklenburg Utilities. Charlotte-Mecklenburg Utilities also operates one facility that is owned by Mecklenburg County. Below is a list of these facilities and their applicable NPDES (National Pollutant Discharge Elimination System) permit number. Included with the list of facilities is the name of the Operator in Responsible Charge (ORC) at the facilities and the site telephone numbers.

<b><u>WWTF</u></b>	<b><u>NPDES Permit Number</u></b>	<b><u>ORC</u></b>	<b><u>Phone</u></b>
Irwin Creek WWTP	NC0024945	Roy E. Purgason, Jr.	704-357-1344
Mallard Creek WRF	NC0030210	Darrell DeWitt	704-547-0680
McAlpine Creek WWMF	NC0024970	Sandy Kim Neely	704-542-0736
McDowell Creek WWTP	NC0036277	Elliott E. Goins, Jr.	704-875-6443
Sugar Creek WWTP	NC0024937	Roy E. Purgason, Jr.	704-553-2124

<b><u>WW COLLECTION</u></b>	<b><u>NCDWQ Permit Number</u></b>	<b><u>ORC</u></b>	<b><u>Phone</u></b>
4100 W. Tyvola Road	WQCS00001	Tony Dubois	704-432-3779
<i>Please note the 704-357-6064 number is no longer in use. Customers are encouraged to call 311 if they suspect a wastewater overflow.</i>			

The wastewater treatment facility that is owned by Mecklenburg County and operated by Charlotte-Mecklenburg Utilities is:

<b><u>WWTF</u></b>	<b><u>Permit Number</u></b>	<b><u>ORC</u></b>	<b><u>Phone</u></b>
McDowell Park WWTP	NC0029220	Robert P. Norris	704-537-1344

### **Description of collection and treatment systems:**

Charlotte-Mecklenburg Utilities collects wastewater from an estimated 219,268 connections to households and businesses throughout the county. Wastewater is collected and directed (via gravity flow supported by sewage lift stations) to one of five wastewater treatment plants where it is treated. An average of 86 million gallons of wastewater is treated and discharged each day.

More than 150 employees work to maintain 3,865 miles of collection pipelines and 74 sewage lift stations throughout the county. The gravity sewer pipes in this system range in size from 8 inches in diameter to 78 inches in diameter.

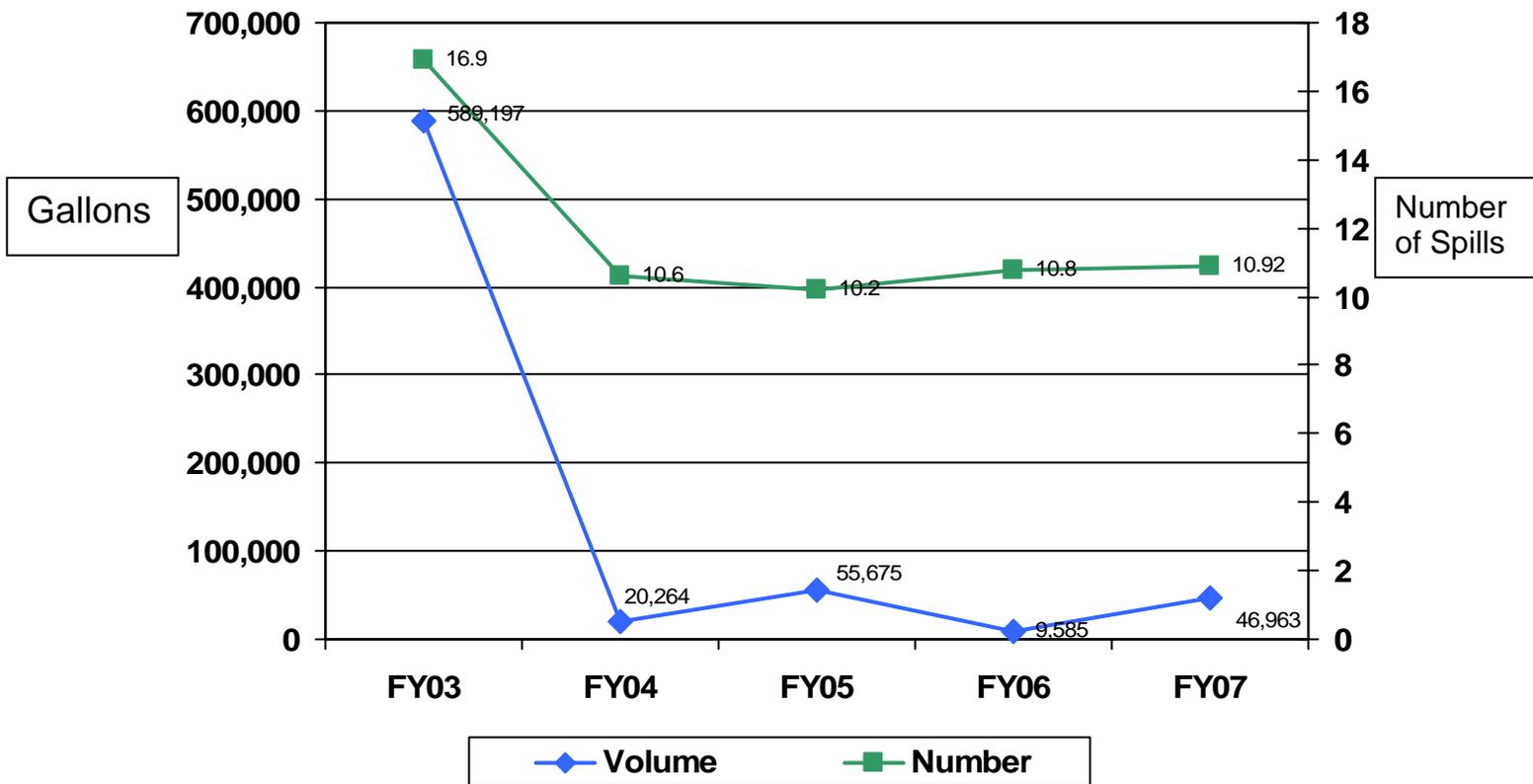
Each of the wastewater treatment plants provides primary, secondary and advanced treatment to the waste stream. Large solid particles and inorganic materials are removed by screening and settling. The wastewater is treated biologically to remove dissolved pollutants. Disinfection reduces bacterial and pathogenic materials. Finally, the waste stream passes through sand filters to remove very small particles that may not have been removed through the settling process.

## II. Summary of System Performance

### How did we do?

Utilities had 421 sanitary sewer overflows (419 in collection system and 2 at a wastewater plant) this year which by number is 51 more than last year. The volume of wastewater that overflowed increased by 85 percent, from 329,038 gallons in fiscal year 2006 to 1,638,445 gallons this year. Prior to the past two years, the fiscal year of 2005 and 2004 had 2,296,207 and 736,967 gallons spill respectively. Stated another way, approximately 11 spills per 100 miles of pipe in the ground overflowed from the collection system this year as illustrated by the table below.

### Annual Overflows Per 100 Miles of Pipe



While overflows remain our major focus, it is important to note that this amount represents 0.00518 % of the total flow transported, and that the Charlotte-Mecklenburg

wastewater collection system successfully delivered more than 99.9948 percent of this community's 31.5 *billion* gallons of wastewater for treatment last year.

Utilities works 24 hours a day, 365 days per year to prevent and respond to overflows. Crews prevent overflows by clearing pipes of tree roots and grease, as well as replacing broken and aging pipes. Utilities has also increased its efforts to educate customers about properly disposing of oils and grease.

### **Highlights**

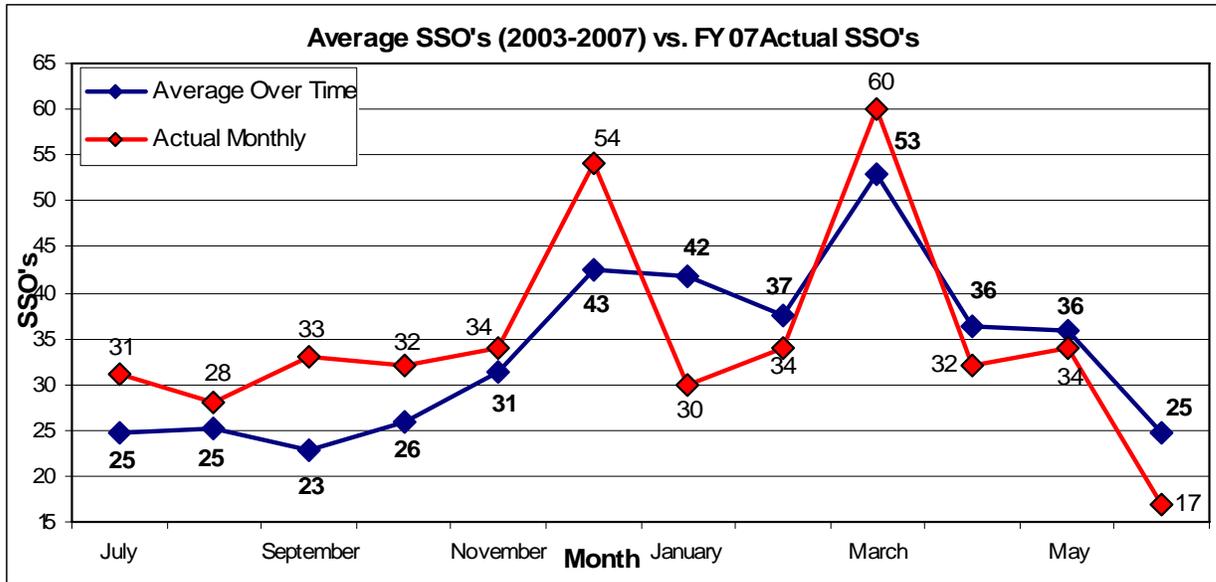
Charlotte-Mecklenburg Utilities celebrated some important milestones even as it took numerous actions to prevent overflows and protect water quality through effective wastewater treatment.

- Our wastewater treatment plants met 99.9 percent of all permitted discharge limits.
- 950 miles of sewer lines were cleaned (including repeated cleanings).
- 4.2 miles of sewer pipe and 1,839 manholes were restored or replaced.
- Mallard, McDowell and McAlpine Creek Wastewater Treatment Plants received Peak Performance Gold Awards from the National Association of Clean Water Agencies (NACWA) for the calendar year ending 2006. Each plant had 100 percent perfect compliance with their permit requirements. Sugar Creek Wastewater Treatment Plant earned NACWA Silver Award for outstanding compliance.
- The Mallard Creek Water Reclamation Facility earned ISO 14001:2004 certification. The international certification focuses on minimizing negative impacts on the environment and was a collaborative effort among many employees from Environmental Management and System Protection. This is the first City of Charlotte government facility to earn this prestigious certification and serves as a model as we seek future certification at other wastewater plants.
- Utilities successfully restarted its reclaimed water program. Reclaimed water is highly treated wastewater effluent that is land applied, rather than being discharged into the creek. The Tradition Golf Course is the first customer to switch to reclaimed water for irrigation instead of using drinking water. The Tradition is using up to 500,000 gallons a day during summer time.
- City staff inspected grease-handling facilities at 4,079 restaurants (not including follow-up inspections) to ensure compliance with the City sewer use ordinance and protect the sewer system from improper grease disposal. The City continued its Grease Free education program to teach proper disposal of a pipe-blocking menace. Inspectors mailed information to more than 6,443 customers and gave 106 presentations. Billboards were also used to remind customers not to put grease down the drain.



Sample of billboard

- There were 74 Wastewater Lift Stations serving our low-lying areas. Staff performed 52 preventative maintenance tasks for a total of 769 work hours. This does not include twice weekly station checks, wet well cleaning, emergency generator testing, or emergency/routine repairs.
- McDowell Wastewater Treatment Plant expanded from 6 mgd to 9 mgd. The plant will complete its expansion to 12 mgd in early fiscal year 2008.
- Phase 2 of the Irwin Creek Relief Sewer project is complete.
- Briar Creek and McAlpine Creek Relief Sewer projects will begin construction in fiscal year 2008.
- Sugar Creek Pump Station project is 50% complete.
- Major improvements continue at McAlpine Creek Wastewater Treatment Plant including construction of the consolidated influent pumping facilities project (95 percent complete) and primary treatment improvements and effluent filter rehabilitation project (97 percent complete).
- On a positive note, last year's frequency of sewer spills was actually below the monthly average during five of the last six months of the reporting year. This may suggest that our additional sewer line cleaning, pipe rehabilitation/replacement efforts, capital improvements, root control, grease disposal education and enforcement and other operational enhancements have begun having a positive impact. *See next page for graph.*



**Continuing Challenges**

***Wastewater Collection Challenges***

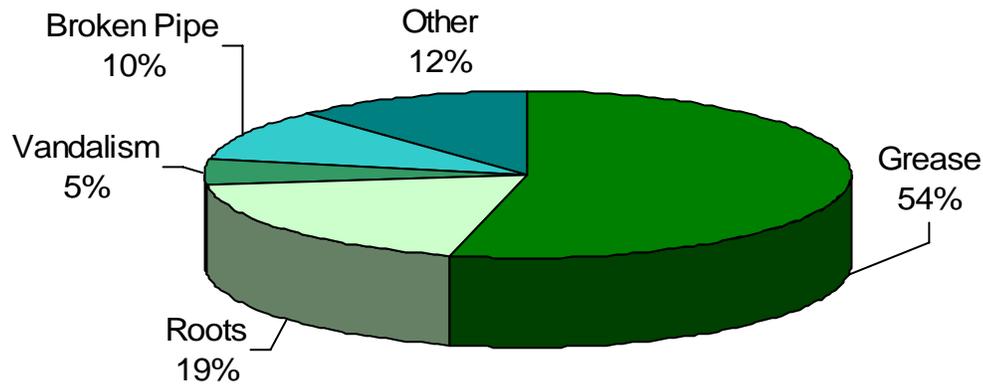
The greatest continuing wastewater challenge in this community – and in others across the U.S. – is sewage spills and overflows. During the fiscal year ending June 30, 2007, Utilities reported 419 sewage spills from the collection system totaling 1,638,445 gallons spilled (1,595,219 gallons reached surface waters).

Utilities had two very large spills this year. In August 2006, there was a spill on Riverbirch Drive. A pipe that crosses over Little Sugar Creek was broken by a downed tree. The spill was 621,000 gallons. In January, a sewage lift station malfunctioned and caused 654,856 gallons to spill into Neal Branch Creek.

These two spills lead to 1,275,856 gallons spilled or **77 percent** of the year’s total gallons spilled (1,638,445 gallons).

Most spills were due to grease buildup and the presence of tree roots in pipes. Other factors contributed to overflows, including vandalism, old and/or broken pipes and general debris blockage.

## Fiscal Year 2007 Overflows by Cause



While spills are an ongoing challenge, its important to note the Charlotte-Mecklenburg Utilities wastewater collection system successfully delivered 99.9948 percent of this community's 31.5 *billion* gallons of wastewater last year. Our crews work 24 hours a day, 365 days per year to prevent and respond to overflows.

Grease and other blockages that lead to sewer overflows are cleared by Utilities crews, using metal rods and/or truck-mounted water jets. If damaged pipe or other infrastructure is discovered it is repaired. The spilled sewage can sometimes be captured and pumped back into the sewer system.

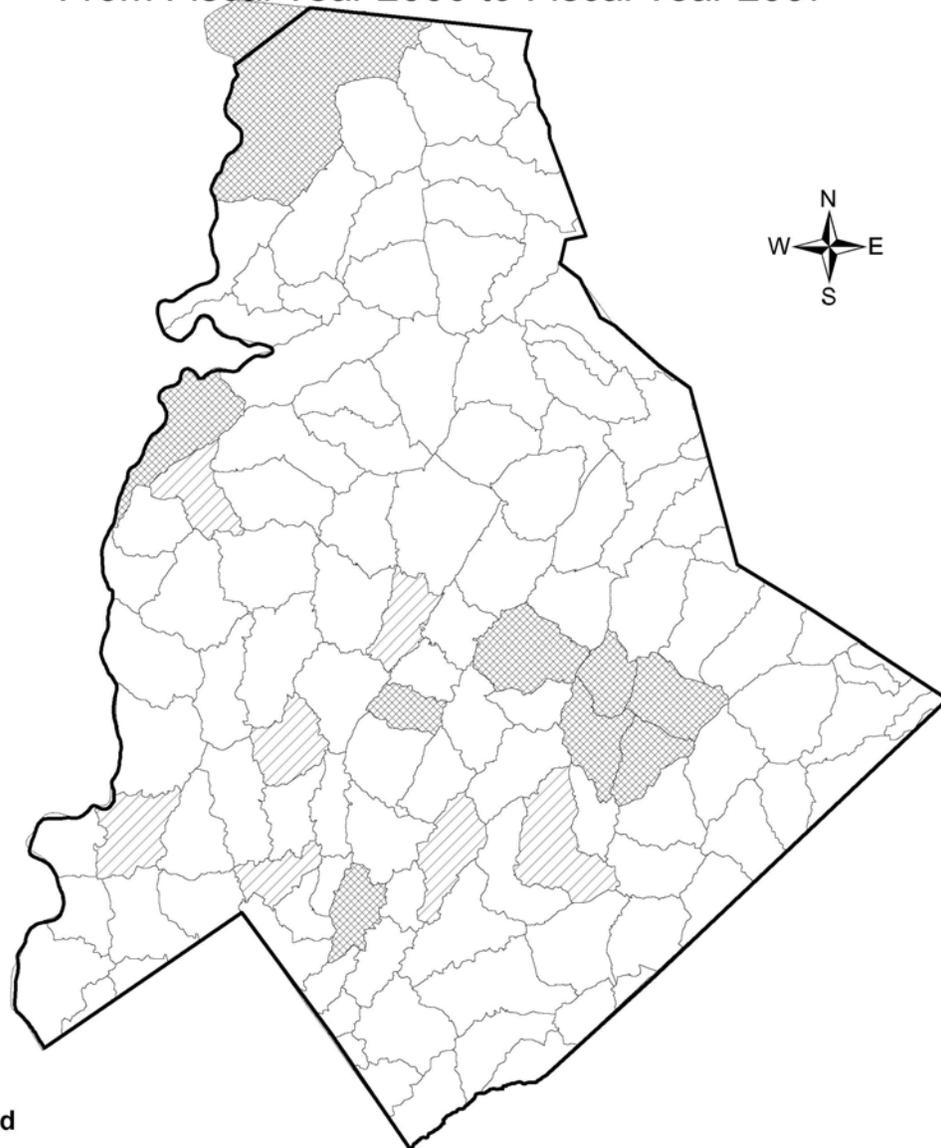
Inspection crews and our customers find overflows. Reports of overflows where 1,000 or more gallons reach surface waters are distributed to the media in an effort to notify the public. A legal notice is posted when overflows of 15,000 gallons or more reach surface waters. Crews also use door hangers to notify customers when appropriate.

Charlotte-Mecklenburg Utilities continues its excellent sewage spill response record. Our wastewater collection staff response time averaged 31 minutes to all overflows as of June 30, 2007. Staff responded to over 92.1 percent of the spills in fewer than 60 minutes. This compares to a state response standard of 120 minutes or less.

The five-year moving average now stands at 402 collection system spills per year (from fiscal year 2003 to present- fiscal year 2007).

Utilities continues to identify and correct grease, tree root and rain related overflows. Odor issues in the collection system are improving but challenges remain.

## Change in Overflow Incidents by Subbasin From Fiscal Year 2006 to Fiscal Year 2007



### Legend

#### Change in Overflow Incidents by Subbasin

##### CgFY06to07

-  SSO incidents decreased by 4 or more from Fiscal Year 2006 to Fiscal Year 2007
-  SSO incidents changed by less than 4 from Fiscal Year 2006 to Fiscal Year 2007
-  SSO incidents increased by 4 or more from Fiscal Year 2006 to Fiscal Year 2007

The above graph shows which areas saw an increase or a decrease in wastewater overflows compared to last fiscal year. Most of the county saw no significant change.

### ***U.S. Environmental Protection Agency (EPA) Administrative Order Update***

Charlotte-Mecklenburg Utilities performed a voluntary sewer system audit in 1999-2000 at the EPA's request. During 2003, frequent heavy rains contributed to Charlotte's worst year of

wastewater overflows. At that point the EPA and Utilities met several times to review the audit and actions taken since 2000. Utilities also worked with North Carolina Department of Environment and Natural Resources (NCDENR) to receive a state collection system permit.

In March 2007, the U.S. EPA issued a formal Administrative Order for Charlotte-Mecklenburg Utilities. This Administrative Order is a regulatory enforcement action that includes a series of steps Utilities must take to reduce overflows in our community. These steps included paying a fine for past spills and assuring that certain construction projects would be completed on time. The enforcement action will help guide our ongoing efforts to address a community problem we've been working on for many years. Utilities will continue to update the EPA on its progress.

Charlotte is the first major city in the Carolinas to face EPA enforcement as it relates to overflows. Quite a few other communities in the southeast, including Atlanta, Mobile and Knoxville have already received a much more severe EPA enforcement action known as a judicial Consent Decree.

Preventing sewer spills has been a high priority in Charlotte-Mecklenburg for many years now. The administrative order will help further guide our ongoing efforts to address a community problem. We have increased preventative line maintenance, capital improvements and other programs.

The EPA's and our goal for overflows is zero. Reality is that a system our size will always have some overflows, but we agree even one spill is too many. Zero spills continues to be our standard and goal in Charlotte-Mecklenburg.

### ***Wastewater Treatment Plant Challenges***

Charlotte-Mecklenburg Utilities five wastewater treatment plants met 99.9 percent of all discharge limit tests set forth by our NPDES permits but our commitment is 100 percent compliance. Staff continues to improve maintenance capabilities and overall performance. Major rehabilitation and improvement projects help maintain compliance. Future upgrades and expansions are being added.

During this fiscal year there were 7 permit limit violations out of a potential of 6,975 compliance tests.

Our pretreatment program has identified, permitted and is regulating large industrial users to keep unsuitable discharges out of the wastewater system. While industrial compliance is extremely high in Charlotte-Mecklenburg, identifying other potentially hazardous discharge sources is an ongoing challenge. In fiscal year 2007 expansion of the trunkline monitoring program continued, enabling Utilities pretreatment staff to closely observe what industrial and commercial customers discharge into the sewer network and to identify potential problem areas to protect the collection system and plants.

*The sections following this page – Sections IIA and IIB -- detail all spills from the collection system and plants, along with plant permit limit violations and monitoring and reporting violations. Section IIA includes spills for the fiscal year ending June 30, 2006 and is separated by month. These include size of spills, their cause and descriptions of any known environmental impact.*

*The second section, Section IIB, represents NPDES reporting and monitoring violations and is separated by plant.*

### **III. Notification**

This report is available to the users or customers of this system by clicking on the ‘publications’ link of the Charlotte-Mecklenburg Utilities homepage at [www.cmutilities.com](http://www.cmutilities.com). There are also printed copies available at the Charlotte-Mecklenburg Utilities Administration Building at 5100 Brookshire Blvd., Charlotte, NC 28216, and at the City/County Customer Service and Information Center at 600 East Fourth Street, Charlotte, NC 28202. The users or customers of this system will receive a summary version of this report and will be notified of the availability of this comprehensive version via a bill insert in the September 2006 water/sewer bill. A news release will be issued before September 1 about this report. In addition, the summary version will be translated into Spanish and advertised during the month of September in a regional Spanish-speaking newspaper. We will also make this Spanish version available via our website.

### **IV. Certification**

I certify under penalty of law that this report is complete and accurate to the best of my knowledge. I further certify that this report has been made available to the users or customers of the named system and that those users have been notified of its availability.

  
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Barry Gullet, Deputy Director  
Charlotte – Mecklenburg Utilities

8-16-07  
Date

**IIA. Listing of Sewer Spills by Month**

The following is a list of spills (in gallons) from the public wastewater system that occurred between July 1, 2005 and June 30, 2006. Most occurred from the wastewater collection system. Spills that occurred at wastewater plants are noted in the address.

July	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
07/01/2006	300	300	Mallard Creek	0	6400	Prosperity Church Rd.	Tree Roots
07/02/2006	1,320	1,320	McAlpine Creek	0	5827	Amity Spring Dr.	Grease
07/03/2006	376	188	Mallard Creek tributary	0	12731	Wetherburn Ln.	Tree Roots
07/03/2006	3,000	3,000	Mallard Creek tributary	0	11000	Diploma Dr.	Grease
07/04/2006	300	50	McMullen Creek	0	2909	Rustic Ln.	Grease
07/07/2006	51	26	Idlewild Brooke tributary	0	5600	Lawrence Orr Rd.	Tree Roots
07/07/2006	3,250	1,625	Campbell Creek tributary	0	4700	Topsail Ct.	Grease
07/08/2006	970	0	Lake Norman	0	19530	Bustle Rd.	Broken Pipe
07/10/2006	500	0	Lake Norman	0	19439	Laurel Glen Ave.	Broken Pipe
07/15/2006	180	180	Dixon Branch tributary	0	4838	Palustris Ct.	Debris
07/16/2006	680	360	Stewart Creek tributary	0	1000	Thomasboro Rd.	Grease

07/17/2006	550	550	Sugar Creek tributary	0	406	Edgegreen Dr.	Grease
07/17/2006	20	20	McMullen Creek	0	3800	Litchfield Rd.	Tree Roots
07/18/2006	591	591	Irwin Creek tributary	0	4112	Red Shed Ln.	Grease
07/18/2006	420	420	Sugar Creek Little tributary	0	800	Hawthorne Ln.	Debris
07/19/2006	900	900	Irwin Creek	0	625	Cameron Walk Ct.	Grease
07/20/2006	115	115	McMullen Creek	0	1339	Rutledge Ave.	Vandalism
07/22/2006	250	0	Stewart Creek	0	1701	Morehead St. (West)	Debris
07/23/2006	500	500	Briar Creek tributary	0	3220	East Ford Rd.	Grease
07/25/2006	120	0	McAlpine Creek	0	5309	Idlewild Rd.	Tree Roots
07/25/2006	6,800	6,800	Irwin Creek	0	2425	Barringer Dr.	Broken Pipe
07/25/2006	30	0	Campbell Creek	0	6708	Nutcracker Pl.	Tree Roots
07/25/2006	50	0	McAlpine Creek	0	7034	Morganford Rd.	Grease
07/26/2006	1,800	1,800	Coffey Creek	0	2900	Westinghouse Blvd.	Grease

07/26/2006	450	450	Briar Creek	0	3838	Frontenac Ave.	Grease
07/26/2006	4,800	4,800	Briar Creek	0	1501	Tippah Park Ct.	Grease
07/27/2006	200	200	Irwin Creek	0	214	Church St. (North)	Grease
07/29/2006	1,095	1,095	Briar Creek tributary	0	5906	Ferndale Pl.	Tree Roots
07/29/2006	350	0	McMullen Creek tributary	0	1518	Pierson Dr.	Grease
07/30/2006	2,420	0	Irwin Creek	0	4152	Blenhein Rd.	Grease
07/31/2006	26	0	Stewart Creek tributary	0	1001	McQuay St.	Grease
<b>TOTAL SPILLS 31</b>	<b>32,414</b>	<b>25,290</b>					

August	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
08/01/2006	621,000	621,000	Sugar Creek Little	0	8315	Riverbirch Dr.	Broken Pipe
08/01/2006	7,800	7,800	Sugar Creek	0	8910	Pioneer Ave.	Tree Roots
08/03/2006	600	600	McAlpine Creek	0	10918	Tradewind Ln.	Tree Roots
08/04/2006	360	360	Sugar Creek	0	1600	Geneva Ct.	Broken Pipe

08/04/2006	3,900	3,900	Mallard Creek tributary	0	11844	Tryon Street (North)	Vandalism
08/04/2006	5,600	5,600	Sugar Creek Little tributary	0	5009	Greenbrook Dr.	Grease
08/05/2006	85	0	Briar Creek tributary	0	611	Fortune St.	Debris
08/06/2006	76	76	Briar Creek tributary	0	3020	Enfield Rd.	Grease
08/06/2006	124	0	Sugar Creek Little	0	1010	Lakeview Dr.	Grease
08/07/2006	450	450	Torrence Creek	0	11725	Verhoeff Dr.	Heavy Rains
08/10/2006	75	19	Steele Creek	0	2911	Nevada Blvd.	Tree Roots
08/11/2006	3,000	3,000	Twelve Mile Creek	0	2932	Savannah Hill Dr.	Debris
08/13/2006	180	180	McAlpine Creek	0	10200	Kilmory Trl.	Grease
08/15/2006	12	12	Sugar Creek Little	0	5311	Baker Dr.	Broken Pipe
08/16/2006	36,000	36,000	Sugar Creek Little	0	2707	Burnt Mill Rd.	Broken Pipe
08/17/2006	600	0	McDowell Creek	0	19204	Meridian St.	Grease
08/18/2006	4,940	4,940	Irwin Creek	0	1600	West Blvd.	Broken Pipe

08/19/2006	16	16	Campbell Creek	0	2900	Sharon Amity Rd. (North)	Tree Roots
08/19/2006	550	550	McAlpine Creek	0	7443	Pirates Cove Ct.	Grease
08/21/2006	165	165	Irwin Creek tributary	0	2624	Montreat St.	Grease
08/22/2006	32	0	Sugar Creek Little Lower	0	223	Eden Cir.	Tree Roots
08/22/2006	60	60	Briar Creek tributary	0	5801	Aqua Ct.	Grease
08/22/2006	100	100	Briar Creek tributary	0	4700	Hartland Cir.	Broken Pipe
08/27/2006	100	0	Campbell Creek	0	6345	Lake Fill Dr.	Grease
08/27/2006	300	30	Briar Creek	0	6206	Cross Creek Ln.	Grease
08/28/2006	600	600	Little Sugar Creek tributary	0	5225	Glenham Dr.	Broken Pipe
08/29/2006	100	100	Four Creek Mile	0	6350	Shining Rock Ct.	Vandalism
08/31/2006	240	240	McAlpine Creek	0	5509	Sunstar Ct.	Grease
<b>TOTAL SPILLS 28</b>	<b>687,065</b>	<b>685,798</b>					

<b>September</b>	<b>Total Estimate</b>	<b>Volume Reaching Surface Water</b>	<b>Surface Water Name</b>	<b>Fish Killed</b>	<b>Block</b>	<b>Street Name</b>	<b>Cause of Spill / Bypass</b>
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09/03/2006	300	300	McAlpine Creek tributary	0	6510	Randy Dr.	Grease
09/07/2006	1,200	1,200	Clarks Creek	0	9900	Liberty Bell Ct.	Grease
09/09/2006	48	0	Upper Little Sugar Creek	0	500	Webster Pl.	Vandalism
09/09/2006	1,400	1,400	McAlpine Creek	0	6101	Lake Forest Rd. (East)	Grease
09/09/2006	740	740	McAlpine Creek tributary	0	4101	St Timms Ct.	Grease
09/10/2006	146	146	Upper Little Sugar Creek	0	518	Greystone Rd.	Tree Roots
09/11/2006	275	220	Mallard Creek tributary	0	10125	Berkeley Place Dr.	Tree Roots
09/11/2006	340	340	Sugar Creek tributary	0	3616	Rodwell Rd.	Grease
09/12/2006	80	80	Kennedy Branch	0	1950	Bishop Madison Ln.	Tree Roots
09/12/2006	300	0	Gum Branch	0	221	Fielding Rd.	Grease
09/12/2006	450	360	Mallard Creek tributary	0	10125	Berkeley Place Dr.	Vandalism
09/12/2006	150	150	McMullen Creek tributary	0	4516	Randolph Rd.	Grease
09/12/2006	50	50	Little Sugar Creek	0	1516	Princeton Ave.	Tree Roots

09/14/2006	750	750	Briar Creek tributary	0	2009	Milton Rd.	Grease
09/14/2006	6,000	6,000	Big Sugar Creek	0	0	Ramblewood Park At Nations Ford Rd.	Heavy Rains
09/14/2006	600	300	South Prong	0	626	South St.	Vandalism
09/14/2006	900	900	McMullen Creek	0	1300	Kingscross Dr.	Debris
09/15/2006	1,800	1,800	Kings Branch	0	455	Sharview Cir.	Grease
09/18/2006	550	550	Briar Creek tributary	0	3615	Shamrock Dr.	Debris
09/18/2006	540	540	Little Sugar Creek	0	500	25 <sup>th</sup> St. (East)	Broken Pipe
09/19/2006	40	0	Kings Branch	0	1007	Archdale Dr.	Grease
09/20/2006	210	0	Stewart Creek	0	1010	Northwood Dr.	Grease
09/22/2006	650	162	Little Sugar Creek	0	345	Hawthorne Ln.	Debris
09/22/2006	4,950	3,712	Campbell Creek tributary	25	7800	Ridingtrail Rd.	Grease
09/26/2006	50	50	McDowell Creek	0	102	Forest Ct.	Broken Pipe
09/26/2006	240	240	Lower Little Sugar Creek	0	4100	Tyndale Ave.	Tree Roots

09/26/2006	255	255	Taggart Creek	0	2806	Reid Meadows Dr.	Debris
09/27/2006	600	600	Sugar Creek	0	218	Glenrock Dr.	Grease
09/28/2006	225	225	Dolby Creek tributary	0	6341	Derryfield Dr.	Grease
09/29/2006	600	600	Mt Island/Catawba Lake	0	12656	Overlook Mountain Dr.	Debris
09/29/2006	1,200	1,200	Sugar Creek	0	6902	Culloden More Ct.	Grease
09/29/2006	235	235	Little Sugar Creek	0	1000	Alexander St. (North)	Broken Pipe
09/29/2006	190	95	Stoney Creek tributary	0	12725	Candle Leaf Ct.	Grease
<b>TOTAL SPILLS 33</b>	<b>26,064</b>	<b>23,200</b>					

<b>October</b>	<b>Total Estimate</b>	<b>Volume Reaching Surface Water</b>	<b>Surface Water Name</b>	<b>Fish Killed</b>	<b>Block</b>	<b>Street Name</b>	<b>Cause of Spill / Bypass</b>
10/01/2006	300	300	Briar Creek	0	4132	Larkspur Ln.	Grease
10/02/2006	450	450	Irwin Creek tributary	0	3600	Nevin Rd.	Debris
10/02/2006	216	0	Little Sugar Creek tributary	0	6033	Colchester Pl.	Grease
10/03/2006	2,750	1,375	Paw Creek	0	5235	Windy Valley Dr.	Tree Roots

10/04/2006	66	66	McAlpine Creek	0	8500	Idlewild Rd.	Vandalism
10/04/2006	176	176	Sugar Creek	0	544	Woodlawn Rd. (East)	Broken Pipe
10/05/2006	62	31	McAlpine Creek	0	747	Charter Pl.	Tree Roots
10/05/2006	400	400	Sugar Creek	0	900	Sugar Creek Rd.	Grease
10/05/2006	1,200	1,200	Irwin Creek	0	128	Mattoon St.	Grease
10/07/2006	1,200	1,200	Sugar Creek tributary	0	2505	Massey Ct.	Grease
10/10/2006	1,000	1,000	McAlpine Creek	0	9508	Gregory Pl.	Grease
10/11/2006	600	600	Kennedy Branch	0	1916	Gilbert St.	Grease
10/11/2006	2,700	2,700	Coffey Creek	0	9401	Arrowpoint Blvd.	Broken Pipe
10/11/2006	152	152	McAlpine	0	7221	Albemarle Rd.	Grease
10/12/2006	165	165	Little Sugar Creek	0	1735	Academy St.	Broken Pipe
10/12/2006	240	120	Edward Branch	0	3416	Tealpoint Dr.	Tree Roots
10/12/2006	40	40	Idlewild tributary	0	5417	Biederbeck Dr.	Grease

10/13/2006	2	2	Lower Sugar Creek	0	5040	Milford Rd.	Broken Pipe
10/13/2006	219	219	Briar Creek tributary	0	3409	Eastwood Dr.	Grease
10/15/2006	600	600	McAlpine Creek	0	7500	Sardis Rd.	Grease
10/16/2006	300	300	Little Sugar Creek	0	7525	Quail Meadows Ln.	Grease
10/16/2006	600	600	Briar Creek	0	5406	Great Wagon Rd.	Grease
10/16/2006	30	15	Swan Run Branch	0	5201	Gorham Dr.	Tree Roots
10/17/2006	400	0	Edwards Branch	0	3401	Driftwood Dr.	Heavy Rains
10/24/2006	600	600	Mt. Island Lake	0	4029	Nicole Eileen	Debris
10/24/2006	900	675	Lake Norman	0	17605	John Connor Rd.	Broken Pipe
10/25/2006	124	0	Briar Creek	0	1900	Finchley Dr.	Grease
10/27/2006	2,000	2,000	Briar Creek tributary	0	2032	Sablewood Dr.	Debris
10/28/2006	420	0	Four Mile Creek	0	3932	Rounding Run Rd.	Tree Roots
10/28/2006	1,100	1,100	Briar Creek	0	3540	Enfield Rd.	Grease

10/29/2006	340	0	Paw Creek	0	4500	Sam Wilson Rd.	Grease
10/30/2006	900	900	Catawba River	0	11624	Carrington Hill Dr.	Broken Pipe
<b>TOTAL SPILLS 32</b>	<b>20,252</b>	<b>16,986</b>					

November	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
11/01/2006	348	348	Erwin Creek tributary	0	129	Mattoon St.	Grease
11/02/2006	375	375	Paw Creek	0	906	Claremont Rd.	Vandalism
11/04/2006	2,835	2,835	Little Sugar Creek tributary	0	1528	Edgewater Dr.	Grease
11/04/2006	120	0	Lower Little Sugar Creek	0	5912	Colchester Pl.	Grease
11/07/2006	200	200	Briar Creek tributary	0	3222	Dunaire Dr.	Vandalism
11/08/2006	150	150	Briar Creek	0	2250	Colony Rd.	Grease
11/12/2006	265	265	Lower Little Sugar Creek	0	3232	Landerwood Dr.	Tree Roots
11/13/2006	470	470	Briar Creek	0	1001	Palmer Plaza Ln.	Grease
11/17/2006	100	0	Studman Branch tributary	0	15033	Wiltshire Manor Dr.	Debris

11/17/2006	92	0	Briar Creek	0	5004	Glenview Ct.	Tree Roots
11/18/2006	450	225	Back Creek	0	8420	University City Blvd.	Grease
11/18/2006	60	60	Long Creek	0	1608	Hartland St.	Grease
11/19/2006	730	0	South Prong Rocky River	0	400	Avinger Ln.	Grease
11/20/2006	240	72	Toby Creek	0	8500	University City Blvd.	Grease
11/22/2006	7,000	7,000	McAlpine Creek	0	8206	Lawyers Rd.	Heavy Rains
11/22/2006	900	900	McAlpine	0	5142	Red Cedar Ln.	Tree Roots
11/22/2006	600	600	Little Sugar Creek	0	1909	Charlotte Dr.	Grease
11/22/2006	160	160	Little Hope Creek	0	2501	Tower Ct.	Tree Roots
11/23/2006	90	45	Irwin Creek	0	1600	Brooksvale Ave.	Grease
11/24/2006	500	500	Briar Creek	0	718	Harwyn Dr.	Tree Roots
11/24/2006	120	120	Little Sugar Creek	0	7133	Starvalley Dr.	Debris
11/25/2006	66	66	McMullen Creek tributary	0	1037	Greentree Dr.	Tree Roots

11/25/2006	530	530	Mallard Creek tributary	0	8419	Tryon Street (North)	Tree Roots
11/26/2006	1,440	1,440	Briar Creek	0	1418	Carolyn Dr.	Grease
11/26/2006	99	99	Little Sugar Creek tributary	0	7133	Starvalley Dr.	Grease
11/26/2006	75	75	Big Sugar Creek tributary	0	7237	Hopeton Rd.	Tree Roots
11/27/2006	94	94	Sugar Creek	0	10345	Nations Ford Rd.	Broken Pipe
11/27/2006	3,550	3,550	Briar Creek tributary	0	2141	Chatham Ave.	Debris
11/28/2006	167	167	Six Mile Creek	0	10121	Zackery Ave.	Grease
11/29/2006	30	30	Long Creek tributary	0	9711	Trinity Rd.	Grease
11/29/2006	900	900	Briar Creek tributary	0	1145	Bolting Rd.	Broken Pipe
11/30/2006	2,700	2,700	Stewart Creek	0	4400	Stuart Andrew Blvd.	Broken Pipe
11/30/2006	70	70	Briar Creek tributary	0	526	Frank Dr.	Tree Roots
11/30/2006	600	600	Irwin Creek	0	5024	Hoover Dr.	Debris
<b>TOTAL SPILLS 34</b>	<b>26,126</b>	<b>24,646</b>					

<b>December</b>	<b>Total Estimate</b>	<b>Volume Reaching Surface Water</b>	<b>Surface Water Name</b>	<b>Fish Killed</b>	<b>Block</b>	<b>Street Name</b>	<b>Cause of Spill / Bypass</b>
12/02/2006	30	15	Upper Little Sugar Creek	0	3524	Bernard Ave.	Grease
12/03/2006	120	60	Briar Creek	0	1000	Richland Ave.	Grease
12/04/2006	500	500	Little Hope Creek	0	4718	Longwood Dr.	Broken Pipe
12/05/2006	1,800	1,800	Gum Branch	0	11630	Northwoods Forest Dr.	Grease
12/05/2006	62	0	Irwin Creek	0	2828	Oneida Rd.	Tree Roots
12/05/2006	26	26	Little Sugar Creek	0	412	Davidson Street (North)	Grease
12/05/2006	180	180	Briar Creek tributary	0	2032	Sablewood Dr.	Debris
12/07/2006	2,025	2,025	Little Sugar Creek	0	1000	Blythe Blvd.	Grease
12/08/2006	2,920	2,920	Four Mile Creek tributary	0	2807	Glen Summit Dr.	Grease
12/08/2006	4,800	1,200	Sugar Creek	0	101	Reid Ln.	Vandalism
12/08/2006	15	0	Deer Creek	0	441	Freemont Street (South)	Grease
12/09/2006	600	600	Taggart Creek	0	1712	Brooksvale St.	Grease

12/09/2006	2,400	2,400	Briar Creek	0	3301	Latrobe	Grease
12/09/2006	3,000	3,000	Irvins Creek	0	6601	Paul Schadt Ln.	Grease
12/10/2006	350	350	Little Sugar Creek	0	3124	Champaigne St.	Grease
12/10/2006	625	0	Little Sugar Creek	0	4700	Fairheath Rd.	Grease
12/11/2006	65	0	McMullen	0	4700	Fairheath Rd.	Debris
12/12/2006	70	0	Irwin Creek tributary	0	3200	Dalecrest Dr.	Tree Roots
12/14/2006	150	150	Irwin Creek tributary	0	4632	Trillium Fields Dr.	Broken Pipe
12/14/2006	1,485	1,485	Four Mile Creek	0	3401	Windbluff Dr.	Grease
12/14/2006	252	252	Little Sugar Creek	0	1118	Squirrel Hill Rd.	Grease
12/14/2006	3,770	1,885	McAlpine	0	9701	Independence Blvd (East)	Grease
12/14/2006	65	0	Stewart Creek tributary	0	1700	Rosa Parks Pl.	Grease
12/15/2006	960	0	Taggart Creek	0	2425	Westhampton Dr.	Grease
12/16/2006	250	125	Lower Little Sugar Creek	0	1349	Allegiance St.	Grease

12/16/2006	270	135	McMullen Creek	0	5813	Rimerton Dr.	Grease
12/17/2006	120	120	Lower Little Sugar Creek	0	9530	South Blvd.	Grease
12/17/2006	205	0	Gum Branch	0	7115	Bellhaven Blvd.	Grease
12/18/2006	1,320	1,190	Irwin Creek tributary	0	3200	Banbury Dr.	Grease
12/18/2006	186	148	Four Mile Creek tributary	0	1335	Somersby Ln.	Debris
12/18/2006	75	75	Irwin Creek tributary	0	1816	North Brook Dr.	Grease
12/19/2006	18	0	Irwin Creek	0	5200	Nevin Rd.	Grease
12/20/2006	390	0	Mountain Isle Lake	0	4513	Inlet Pointe Cir.	Broken Pipe
12/21/2006	236	236	Stewart Creek	0	2116	Abelwood Rd.	Grease
12/21/2006	120	120	Paw Creek tributary	0	1100	Claremont Rd.	Debris
12/21/2006	1,200	1,200	McMullen Creek	0	8300	Mcmullen Creek Parkway	Grease
12/21/2006	480	240	Irwin Creek	0	9200	Monroe Rd.	Tree Roots
12/22/2006	35	0	Mallard Creek	0	6428	Rockwell Blvd.	Tree Roots

12/22/2006	1,600	1,600	Briar Creek	0	3543	Enfield Rd.	Debris
12/22/2006	450	450	Diary Branch	0	2525	South Blvd	Grease
12/24/2006	550	550	King Branch	0	631	Braxfield Dr.	Tree Roots
12/25/2006	17	0	Sugar Creek	0	9333	Windsong Dr.	Grease
12/26/2006	60	0	Little Sugar Creek	0	7000	Rockledge Dr.	Grease
12/26/2006	38	0	Briar Creek	0	2616	5 <sup>th</sup> Street (East)	Grease
12/26/2006	790	395	Idlewild Brook tributary	0	5727	Cedars Ct.	Vandalism
12/26/2006	385	192	Little Sugar Creek	0	5115	Reagan Dr.	Grease
12/26/2006	120	60	Little Sugar Creek	0	2505	Pine Street (North)	Grease
12/27/2006	200	200	Idlewild Brooke	0	6601	Barcliff Dr.	Grease
12/28/2006	110	100	Briar Creek tributary	0	4604	Kavanaugh Dr.	Grease
12/29/2006	450	450	Little Sugar Creek	0	1909	Charlotte Dr.	Debris
12/29/2006	390	390	Little Sugar Creek tributary	0	6319	Hazelton Dr.	Grease

12/29/2006	3,540	3,540	Campbell Creek	0	7523	Idlewild Rd.	Broken Pipe
12/30/2006	621	0	Little Sugar Creek	0	4034	Rutgers Ave.	Grease
12/31/2006	240	0	Lake Norman	0	21310	Bethel Church Rd.	Broken Pipe
<b>TOTAL SPILLS 54</b>	<b>40,736</b>	<b>30,364</b>					

January	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
1/2/2007	600	600	Paw Creek	0	9200	Old Dowd Rd.	Grease
1/4/2007	39	39	Little Sugar Creek	0	1350	Kings Dr.	Grease
1/4/2007	125	125	Stewart Creek	0	2315	Abelwood Rd.	Grease
1/5/2007	775	775	Paw Creek	0	4839	Freedom Dr.	Tree Roots
1/6/2007	3,150	2,520	Campbell Creek tributary	0	5827	Amity Springs Dr.	Grease
1/6/2007	1,500	1,500	McIntyre Creek	0	6217	McIntyre Ridge Dr.	Grease
1/8/2007	300	300	McMullen Creek	0	5400	Monroe Rd.	Grease
1/8/2007	102	102	Little Sugar Creek tributary	0	832	Dobson Dr.	Vandalism

1/9/2007	200	200	Six Mile Creek	0	12545	Abbotsbury Ct.	Grease
1/12/2007	180	0	McAlpine Creek	0	7300	Palmetto Ct.	Grease
1/13/2007	1,200	1,200	McDowell Creek	0	16510	Grapperhall Dr.	Tree Roots
1/13/2007	46	0	Briar Creek	0	3343	Davidson St.	Grease
1/15/2007	288	288	McAlpine Creek	0	1210	Foxrun Dr.	Tree Roots
1/16/2007	1,500	0	McAlpine Creek	0	7435	Windyrush Rd.	Debris
1/16/2007	190	190	McIntyre Creek	0	6217	McIntyre Ridge Dr.	Grease
1/16/2007	840	0	Back Creek	0	9507	Marsena Ct.	Grease
1/16/2007	270	270	Four Mile Creek	0	10122	Thomas Payne Cir.	Tree Roots
1/17/2007	250	250	Campbell Creek	0	7523	Idlewild Rd.	Grease
1/17/2007	600	600	Sugar Creek	0	7807	Andoverwoods Dr.	Grease
1/18/2007	1,900	1,900	Coffee Creek	0	2208	Yager Creek Dr.	Grease
1/19/2007	260	130	McAlpine Creek	0	8227	Baldrige Dr.	Grease
1/23/2007	108	0	Little Sugar Creek tributary	0	621	Dawn Cir.	Grease

1/24/2007	43	43	Briar Creek	0	1218	Green Oaks Ln.	Broken Pipe
1/27/2007	654,856	654,856	Neal Branch Creek	0	11495	Shopton Rd. ( Lift Stations)	Debris
1/28/2007	225	225	Sugar Creek tributary	0	7523	Wood Knoll Dr.	Grease
1/30/2007	225	169	McAlpine Creek	0	8700	Idlewild & Wiseman Rd.	Grease
1/30/2007	133	133	Irwin Creek tributary	0	1600	Remount Rd.	Tree Roots
1/30/2007	45	22	Four Mile Creek	0	8300	Raintree Ln.	Tree Roots
1/31/2007	1,200	1,200	Coffey Creek	0	2900	Horse Shoe Ln.	Tree Roots
1/31/2007	1,725	1,725	Briar Creek tributary	0	2465	Mecklenburg Ave.	Tree Roots
<b>TOTAL SPILLS 30</b>	<b>672,875</b>	<b>669,362</b>					

February	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
2/2/2007	65	0	McMullen Creek	0	3910	Windwood Cir.	Tree Roots
2/3/2007	200	200	Kings Branch	0	400	Archdale Dr.	Grease
2/3/2007	1,200	1,200	Irwin Creek	0	300	Centre St.	Grease
2/5/2007	1,200	1,200	Briar Creek tributary	0	2465	Mecklenburg Ave.	Debris

2/5/2007	1,665	1,665	Campbell Creek	0	6565	Louglen Cir.	Grease
2/5/2007	575	288	Taggart Creek	0	306	Cromer St.	Grease
2/7/2007	2,100	2,100	Four Mile Creek	0	10207	Rougemont Ln.	Tree Roots
2/7/2007	35	35	Stewart Creek tributary	0	724	Montana Dr.	Grease
2/8/2007	425	425	Briar Creek	0	943	Norland Rd.	Tree Roots
2/8/2007	600	600	Swan Run Branch	0	1312	Barden Rd.	Grease
2/8/2007	1,200	1,200	Irwin Creek	0	1520	Clanton Rd.	Grease
2/10/2007	480	480	McMullen Creek	0	8400	Brandon Forest Dr.	Grease
2/12/2007	150	150	Briar Creek	0	1923	Shamrock Dr.	Grease
2/12/2007	760	760	Doby Creek	0	8700	Research Dr.	Tree Roots
2/14/2007	60	30	McMullen Creek	0	3400	Tinkerbelle Ln.	Tree Roots
2/14/2007	50	50	McAlpine Creek	0	6440	Woodthrush Dr.	Grease
2/15/2007	500	0	Irwin Creek	0	4000	Westmont Drive, Irwin Creek WWTP	A valve was not closed properly
2/16/2007	240	0	Irvines Creek	0	10230	Lawyers Rd.	Grease

2/16/2007	125	125	Campbell Creek	0	5800	Amity Pl.	Debris
2/19/2007	56	56	McAlpine Creek	0	6748	Windyrush Rd.	Grease
2/19/2007	350	350	Briar Creek	0	1700	Eastcrest Dr.	Grease
2/19/2007	1,200	1,200	Irwin Creek	0	300	Orchard Cir.	Debris
2/20/2007	990	990	McAlpine Creek	0	5620	Central Ave.	Grease
2/21/2007	11,250	11,250	Irwin Creek tributary	0	2700	Beechnut Rd.	Broken Pipe
2/21/2007	30	30	Briar Creek tributary	0	4034	Redwood Ave.	Tree Roots
2/21/2007	1,000	1,000	Little Hope Creek	0	626	Hartford Ave.	Debris
2/21/2007	122	61	McAlpine Creek	0	2214	Dion Ave.	Debris
2/22/2007	26	26	Long Creek	0	507	Old Statesville Rd.	Debris
2/23/2007	440	440	Briar Creek tributary	0	4351	Central Ave.	Grease
2/23/2007	4	4	Edwards Branch Creek	0	800	Briar Creek Rd.	Tree Roots
2/26/2007	19	0	Upper Little Sugar Creek	0	1128	Davidson St.	Grease
2/28/2007	270	270	Torrence Creek tributary	0	9622	St Barts Ln.	Grease

2/28/2007	45	45	Briar Creek	0	4313	Castleton Rd.	Tree Roots
2/28/2007	375	375	McMullen Creek	0	1017	Wendover Rd.	Grease
2/28/2007	15	15	Little Sugar Creek	0	4200	Hondures Dr.	Grease
<b>TOTAL SPILLS 34</b>	<b>27,822</b>	<b>26,620</b>					

March	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
3/1/2007	60	60	Irwin Creek	0	2424	Statesville Ave.	Grease
3/1/2007	60	60	Four Mile Creek	0	308	McLeod St.	Heavy Rains
3/2/2007	4,020	4,020	Briar Creek tributary	0	3700	Sedgewood Cir.	Grease
3/2/2007	4,800	4,800	McAlpine Creek	0	8711	Monroe Rd.	Heavy Rains
3/2/2007	600	600	Irwin Creek	0	365	Dalton Ave.	Broken Pipe
3/2/2007	965	965	Briar Creek tributary	0	2311	Club Rd.	Tree Roots
3/2/2007	310	310	Little Sugar Creek tributary	0	406	Hilo Dr.	Grease
3/2/2007	990	792	Briar Creek	0	818	Villa Ct.	Grease
3/2/2007	900	900	Sugar Creek	0	5301	Park Rd.	Broken Pipe

3/2/2007	2,094	2,094	Paw Creek	0	8924	Old Dowd Rd. (Lift Stations)	Heavy Rains
3/2/2007	850	850	Long Creek	0	800	Hawfield Rd. (Lift Stations)	Heavy Rains
3/2/2007	4,800	3,600	McAlpine Creek	0	4735	Carmel Rd.	Heavy Rains
3/4/2007	1,200	1,200	Four Mile Creek	0	10400	Haddonshire Ln.	Grease
3/4/2007	300	150	Stewart Creek	0	3224	Banbury Dr.	Debris
3/5/2007	180	0	Taggart Creek	0	3441	Jason Ave.	Tree Roots
3/5/2007	60	60	Lake Norman	0	16521	Belle Isle	Broken Pipe
3/5/2007	450	225	Irwin Creek	0	200	Church St.	Grease
3/6/2007	104	104	Stewart Creek	0	2012	Freedom Dr.	Debris
3/6/2007	350	350	Clark Creek tributary	0	3813	Beavista Dr.	Grease
3/7/2007	214	214	Little Sugar Creek tributary	0	1919	Shoreham Dr.	Tree Roots
3/7/2007	1,500	1,500	Briar Creek tributary	0	2311	Club Rd.	Broken Pipe
3/7/2007	420	210	Little Sugar Creek	0	4430	Rolling Hill Dr.	Debris
3/7/2007	255	255	Briar Creek	0	1000	Palmer Plaza Ln.	Grease

3/8/2007	150	0	Stewarts Creek	0	2700	Zebulon Ave.	Tree Roots
3/9/2007	500	0	Irwin Creek	0	4000	Westmont Drive, Irwin Creek WWTP	A hole formed in concrete caused by aged material
3/12/2007	660	66	McAlpine Creek	0	1800	Pineville Matthews Rd.	Vandalism
3/13/2007	360	180	Swan Run Branch	0	1801	Carmel Ridge Rd.	Debris
3/13/2007	5,100	5,100	Long Creek tributary	0	5900	St Frances Dr.	Vandalism
3/14/2007	600	450	McMullen Creek tributary	0	5400	Monroe Rd.	Grease
3/15/2007	120	120	Briar Creek Basin	0	718	Harwyn Dr.	Debris
3/15/2007	415	208	Briar Creek	0	307	Meadow Brook Dr.	Grease
3/16/2007	15	15	Briar Creek	0	818	Villa Ct.	Vandalism
3/17/2007	98	0	McMullen Creek	0	11719	Park Rd.	Tree Roots
3/18/2007	405	405	Four Mile Creek	0	2817	High Ridge Rd.	Broken Pipe
3/18/2007	30	30	McMullen Creek	0	9825	Chatham Oaks Trl.	Grease
3/19/2007	450	450	Sugar Creek	0	2905	Queen City Dr.	Grease
3/19/2007	292	292	Irwin Creek tributary	0	3915	Stuart Andrew Blvd.	Broken Pipe

3/19/2007	250	250	Kings Branch	0	10022	Woodyridge Rd.	Grease & Tree Roots
3/20/2007	68	68	Campbell Creek	0	8001	Briardale Dr.	Grease & Tree Roots
3/21/2007	79	0	McDowell Creek	0	20224	Floral Ln.	Debris
3/22/2007	900	0	Coffey Creek	0	1770	Shopton Rd.	Tree Roots
3/23/2007	220	220	McAlpine Creek tributary	0	4806	Spicewood Rd.	Tree Roots
3/23/2007	200	200	Briar Creek	0	3933	Foxford Pl.	Grease
3/24/2007	1,800	1,800	Campbell Creek	0	3309	Boston Ave.	Grease
3/24/2007	300	300	Irwin Creek	0	1817	Russell Ave.	Grease
3/26/2007	125	125	McAlpine Creek	0	4806	Spicewood Dr.	Grease
3/26/2007	50	0	Davidson Creek	0	905	Northeast Dr.	Debris
3/26/2007	67	67	Paw Creek	0	1300	Interurban Ave.	Debris
3/27/2007	30	15	Briar Creek	0	4604	Central Ave.	Grease
3/28/2007	145	0	McAlpine Creek	0	6012	Trotters Ridge Rd.	Tree Roots
3/29/2007	214	0	McAlpine Creek	0	3520	Rea Rd.	Tree Roots

3/29/2007	30	0	Gum Branch Creek	0	221	Fielding Rd.	Tree Roots
3/30/2007	2	2	Stuart Creek	0	1237	Fordham Rd.	Broken Pipe
3/30/2007	1,000	1,000	Lower Little Sugar Creek	0	9141	Covey Hollow Ct.	Tree Roots
3/30/2007	2,700	2,530	Gum Branch	0	6610	Sunman Rd.	Debris
3/30/2007	34	34	Kings Branch	0	905	Pineville Point Ave.	Grease
3/30/2007	150	75	Kings Branch	0	400	Arrowood Rd.	Grease
3/30/2007	630	630	Little Sugar Creek	0	2321	Wensley Dr.	Debris
3/30/2007	750	563	Briar Creek tributary	0	2311	Club Rd.	Debris
3/31/2007	50	5	Sugar Creek	0	4526	Bradbury Dr.	Grease
3/31/2007	110	110	Briar Creek	0	618	Museum Dr.	Grease
<b>TOTAL SPILLS 60</b>	<b>44,581</b>	<b>38,629</b>					

April	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
4/2/2007	120	60	Lake Norman	0	19817	Church St.	Broken Pipe
4/4/2007	120	96	Little Sugar Creek tributary	0	331	Scaleybark Rd.	Grease

4/4/2007	315	315	Campbell Creek	0	5435	W.T. Harris Blvd.	Grease & Tree Roots
4/10/2007	60	0	Briar Creek	0	200	Emerson St.	Vandalism
4/10/2007	90	0	Four Mile Creek	0	821	John St.	Tree Roots
4/12/2007	234	234	McMullen Creek	0	1308	Kingscross Dr.	Grease
4/12/2007	90	90	Irwin Creek tributary	0	823	Justice Ave.	Grease
4/13/2007	62	31	Lake Norman tributary	0	19903	Scanmar Ln.	Tree Roots
4/14/2007	610	305	Little Sugar Creek	0	7807	Andover Woods Dr.	Grease
4/14/2007	45	0	Four Mile Creek	0	4345	Rosecliff Dr.	Grease
4/15/2007	134	134	McAlpine Creek	0	1220	Robinhood Cir.	Grease
4/16/2007	124	124	Idlewild Brooke tributary	0	5917	Albemarle Rd.	Grease
4/18/2007	840	840	Irwin Creek tributary	0	300	Poplar St.	Grease
4/18/2007	3,300	3,300	Irwin Creek	0	2834	McComb St.	Grease
4/20/2007	70	70	Toby Creek tributary	0	1015	Chancellor Park Dr.	Grease
4/20/2007	675	675	Little Sugar Creek	0	3200	Park Rd.	Grease

4/20/2007	104	0	McAlpine Creek	0	4914	Chestnut Lake Dr.	Tree Roots
4/21/2007	910	455	Catawba Creek tributary	0	10220	Rozzelles Ferry Rd.	Debris
4/21/2007	315	315	Little Sugar Creek	0	8018	Prince George Rd.	Grease
4/21/2007	290	145	McAlpine Creek tributary	0	5210	McAlpine Farm Rd.	Tree Roots
4/23/2007	158	158	Dairy Branch	0	225	Poindexter Dr.	Broken Pipe
4/23/2007	1,800	1,800	Campbell Creek	0	7205	Barrington Dr.	Grease
4/24/2007	185	185	Briar Creek	0	1418	Green Oaks Ln.	Grease
4/24/2007	55	55	Toby Creek tributary	0	1124	Owen Blvd.	Grease
4/25/2007	90	45	McAlpine	0	8016	Walnut Creek Ln.	Tree Roots
4/25/2007	155	155	Little Sugar Creek	0	4500	Cinderella Rd.	Grease
4/25/2007	800	800	Long Creek	0	1609	Sugar Hollow Dr.	Grease
4/25/2007	1,320	1,320	Little Sugar Creek	0	501	College St.	Grease
4/25/2007	50	10	Briar Creek	0	2823	Colony Rd.	Grease
4/25/2007	60	60	Four Mile Creek	0	200	McDowell St.	Grease

4/26/2007	600	300	McAlpine Creek	0	8105	Lawyers Rd.	Grease
4/28/2007	110	110	Clarks Creek tributary	0	10942	White Stag Dr.	Broken Pipe
<b>TOTAL SPILLS 32</b>	<b>13,891</b>	<b>12,187</b>					

May	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
5/1/2007	4,500	4,500	Paw Creek	0	919	Exchange St.	Grease & Tree Roots
5/1/2007	450	450	Coffey Creek	0	8848	Red Oak Blvd.	Broken Pipe
5/1/2007	75	0	Sugar Creek	0	2919	Interstate	Grease
5/3/2007	8,400	8,400	Upper Little Sugar Creek	0	539	Drury Dr.	Debris
5/7/2007	2,400	2,400	Stoney Creek tributary	0	2739	Highland Park Dr.	Debris
5/7/2007	25	25	Idlewild Brooke tributary	0	6811	Reddman Rd.	Grease
5/8/2007	900	675	Four Mile Creek	0	2400	Honey Creek Ln.	Debris
5/9/2007	132	132	Idlewild Brooke tributary	0	5352	Mock Robin Ln.	Tree Roots
5/9/2007	1,840	1,840	Dixon Branch Creek	0	12202	Hambright Rd.	Grease
5/9/2007	85	85	Campbell Creek	0	6529	Dana Ct.	Grease

5/9/2007	600	0	Irwin Creek	0	523	Pine St.	Grease
5/10/2007	232	232	Meadow Creek	0	11331	Treebark Dr.	Grease
5/12/2007	180	180	Long Creek	0	10924	Preservations Park Dr.	Broken Pipe
5/13/2007	1,200	1,200	McAlpine Creek	5	6837	Ronda Ave.	Grease
5/14/2007	60	0	Long Creek	0	2413	Winding River Dr.	Debris
5/14/2007	1,125	900	Kings Branch	0	825	Silver Ct.	Grease
5/15/2007	180	180	Idlewild Brooke	0	5811	Farm Pond Ln.	Grease
5/15/2007	210	210	Sugar Creek	0	712	Edgegreen Dr.	Tree Roots
5/16/2007	900	450	Irwin Creek	0	2408	Kendrick Ave.	Grease
5/18/2007	120	120	McAlpine	0	1000	Pinafore Dr.	Grease
5/18/2007	50	50	Campbell Creek	0	7148	Idlewild Rd.	Grease
5/18/2007	1,350	675	Briar Creek	0	6800	Barrington Dr.	Grease
5/20/2007	20	0	Four Mile Creek	0	10425	Sundance Ct.	Grease
5/23/2007	900	0	McAlpine Creek	0	6101	Dwightware Blvd.	Broken Pipe

5/23/2007	825	660	Sugar Creek	0	1000	Arrowood Rd.	Grease
5/24/2007	50	50	Briar Creek tributary	0	2311	Club Rd.	Debris
5/24/2007	2,640	2,640	Briar Creek	0	2965	Dunlavin Way	Broken Pipe
5/24/2007	56	56	Little Sugar Creek	0	301	30 <sup>th</sup> St.	Grease
5/24/2007	198	0	Reedy Creek tributary	0	8214	Deodora Cedar Ln.	Grease
5/25/2007	32	0	Walnut Creek	0	7324	Ricewell Rd.	Tree Roots
5/25/2007	146	146	Lake Norman	0	18424	Harbor Light Blvd.	Broken Pipe
5/28/2007	5,750	5,750	McAlpine Creek	0	6101	Dwightware Blvd.	Vandalism
5/29/2007	1,100	1,100	Briar Creek tributary	0	6534	Covecreek Dr.	Grease & Vandalism
5/30/2007	10	0	Derita Branch	0	4409	Northaven Dr.	Grease
<b>TOTAL SPILLS 34</b>	<b>36,741</b>	<b>33,106</b>					

June	Total Estimate	Volume Reaching Surface Water	Surface Water Name	Fish Killed	Block	Street Name	Cause of Spill / Bypass
6/2/2007	600	600	Reedy Creek tributary	0	7915	Paper Birch Dr.	Debris

6/2/2007	1,320	1,320	Campbell Creek	0	3309	Boston Ave.	Grease & Tree Roots
6/2/2007	36	36	Stewart Creek tributary	0	429	Jones St.	Tree Roots
6/2/2007	110	110	Long Creek tributary	0	5200	Henderson Cir.	Grease
6/3/2007	314	314	Steele Creek tributary	0	2817	O'Hara Dr.	Tree Roots
6/4/2007	216	216	Irvin Creek	0	4782	Old Lantern Way	Grease
6/5/2007	250	250	Irwin Creek	0	700	Milan Rd.	Grease
6/6/2007	225	225	Briar Creek tributary	0	3300	Eastway Dr.	Grease
6/6/2007	1,530	1,530	Little Sugar Creek	0	7135	Woodstream Dr.	Broken Pipe
6/14/2007	54	0	Campbell Creek	0	6205	Four Seasons Ln.	Grease
6/14/2007	930	837	McMullen Creek	0	4625	Montclair Ave.	Grease
6/16/2007	255	255	Little Sugar Creek	0	2112	Starbrook Dr.	Grease
6/19/2007	255	255	Taggart Creek	0	4620	Denver Ave.	Tree Roots
6/20/2007	225	225	Lower Little Sugar Creek	0	6626	Candlewood Dr.	Vandalism
6/24/2007	148	0	McAlpine Creek tributary	0	3900	River Ridge Rd.	Tree Roots

6/25/2007	650	650	McMullen Creek	0	11423	Spreading Oak Ln.	Debris
6/27/2007	2,760	2,208	Little Sugar Creek	0	8632	Kirchenbaum Dr.	Grease
<b>TOTAL SPILLS 17</b>	<b>9,878</b>	<b>9,031</b>					

**TOTAL # OF FY07 COLLECTION SYSTEM SPILLS: 419**  
**TOTAL # OF FY07 PLANT SPILLS: 2**

**VOLUME SAFELY COLLECTED, TREATED & DISCHARGED: 31,576,130,000 GALLONS**  
**TOTAL VOLUME OF FY06 SPILLED: 1,638,445 GALLONS**  
**TOTAL VOLUME OF FY07 THAT REACHED SURFACE WATERS: 1,595,219 GALLONS**

**PERCENTAGE OF WASTEWATER SAFELY COLLECTED, TREATED AND RELEASED DURING**

**FY07: more than 99.9948%**  
**FY06: more than 99.9988%**  
**FY05: more than 99.993%**  
**FY04: more than 99.997%**  
**FY03: more than 99.932%**

**SECTION IIB. Permit Compliance and Reporting Violations, by plant**

**Irwin Creek WWTP -- NPDES Permit #NC0024945**

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2006	The plant exceeded the daily fecal coliform limit on July 18, 2006 with a count of 1,300, the daily maximum limit is 1,000 cfu/100 ml. The level controller in the Ultra Violet (UV) disinfection unit failed causing the chamber to exceed the maximum acceptable level. We have modified the controller for this to prevent the problem from reoccurring. The weekly geometric mean and the monthly geometric mean limits for fecal coliform were in compliance with permitted limits.	None
August, 2006	None	None
September, 2006	The weekly average ammonia limit was violated the week of 9/24/06 through 9/30/06. The average limit is 3.6 mg/l and this limit was exceeded with a weekly average of 3.8 mg/l. The monthly average limit for ammonia was in compliance. This violation was caused by the discharge of a chloroamine that inhibited the nitrification process used to reduce the ammonia in the treatment system. The System Protection System investigated this illegal discharge and issued a Cease and Desist to discharge to an industrial discharger that was suspected to have discharged this chemical to the Irwin Creek WWTP	None
October, 2006	None	None
November, 2006	None	None
December, 2006	None	None
January, 2007	None	None
February, 2007	On February 20, 2007 the daily maximum limit for fecal coliform was exceeded. The cause is unknown. To prevent further violations the UV dosage set points were increased. The fecal coliform counts were well within compliance for the rest of the month. The weekly and monthly limits were in compliance with permit limits.	None
March, 2007	None	None
April, 2007	The Fecal Coliform Daily Maximum was exceeded on 4/5/07 due to an electrical wiring problem in the Ultra Violet (UV) control system that caused the unit to turn off for 3 minutes. The problem was identified and repaired and no further incidents occurred this month.	None
May, 2007	None	None

June, 2007	The Fecal Coliform Daily Maximum was exceeded on 6/18/07 due to the repair and testing of the UV system. The fecal coliform result was 2,400 cfu/100ml. The repair technician believed that the system would synchronize with Duke Power and there would not be an interruption of power to the UV. The system did not synchronize and there was a loss of power to the UV, which coincided with the daily sampling. This resulted in a 5-7 minute loss of UV disinfection, during which the effluent sample was collected, resulting in the Daily Maximum Fecal Coliform violation.	None
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**Mallard Creek WRF -- NPDES Permit #NC0030210**

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2006	None	None
August, 2006	None	None
September, 2006	None	None
October, 2006	None	None
November, 2006	None	None
December, 2006	None	None
January, 2007	None	None
February, 2007	None	None
March, 2007	None	None
April, 2007	None	None
May, 2007	None	None
June, 2007	None	None

**McAlpine Creek WWTF -- NPDES Permit #NC0024970**

MONTH	PERMIT LIMIT COMPLIANCE	REPORTING REQUIREMENT COMPLIANCE
July, 2006	None	None
August, 2006	None	None
September, 2006	None	None

October, 2006	None	None
November, 2006	None	None
December, 2006	None	None
January, 2007	None	None
February, 2007	None	None
March, 2007	None	None
April, 2007	None	None
May, 2007	None	None
June, 2007	None	None

**McDowell Creek WWTP -- NPDES Permit #NC0036277**

<b>MONTH</b>	<b>PERMIT LIMIT COMPLIANCE</b>	<b>REPORTING REQUIREMENT COMPLIANCE</b>
July, 2006	None	None
August, 2006	None	None
September, 2006	None	None
October, 2006	None	None
November, 2006	None	None
December, 2006	None	None
January, 2007	None	None
February, 2007	None	None
March, 2007	None	None
April, 2007	None	None
May, 2007	None	None
June, 2007	None	None

**Sugar Creek WWTP -- NPDES Permit #NC0024937**

<b>MONTH</b>	<b>PERMIT LIMIT COMPLIANCE</b>	<b>REPORTING REQUIREMENT COMPLIANCE</b>
July, 2006	None	None

August, 2006	None	None
September, 2006	None	None
October, 2006	None	None
November, 2006	The Fecal Coliform Daily Maximum was exceeded on 11/22/06 due to a very high flow rate through the plant. All treatment systems were operational and the Ultra Violet (UV) disinfection unit was at 100%. There are no obvious reasons for this violation, other than the high flows, which the UV system should have been able to treat. The weekly geometric mean and the daily geometric mean limits for fecal coliform were in compliance.	None
December, 2006	None	None
January, 2007	The weekly average nickel limit is in violation for the week of 1/28/07 through 2/3/07. The cause of this nickel violation was investigated by the System Protection Section and the source was not found. The daily maximum limit was in compliance. No further instances of high nickel have been detected coming into the treatment facility since this time.	None
February, 2007	None	None
March, 2007	None	None
April, 2007	None	None
May, 2007	None	None
June, 2007	None	None