



September 9, 2008

Mr. Tom Fransen  
N.C. Division of Water Resources  
1611 Mail Service Center  
Raleigh, North Carolina 27699-1611

Subject: IBT Report for 2007

Dear Tom:

We are sending our calendar year 2007 IBT Annual Report. We are also transmitting this report to you electronically. The report follows the format of earlier reports and includes a narrative section with background and program progress reports along with spreadsheets detailing the IBT amount calculation.

For calendar year 2007, we experienced an actual maximum day IBT of 17.22 mgd based on September billing data and as of December 31, 2007, had additional outstanding IBT commitments of 3.56 mgd. The summation of these amounts would indicate a 2007 IBT amount of 20.78 mgd which is less than 63% of our authorized amount.

Please let me know if you have any questions.

Sincerely,

CHARLOTTE-MECKLENBURG UTILITIES

Barry M. Gullet, PE  
Deputy Director



*Charlotte-Mecklenburg Utilities  
Annual Report on Interbasin Transfer  
Calendar Year 2007*

Charlotte Mecklenburg Utilities (Utilities) operates the water and wastewater systems that serve Charlotte, Cornelius, Davidson, Huntersville, Mint Hill, Matthews, Pineville, and much of the unincorporated areas of Mecklenburg County. This system is divided between two river basins designated by NC General Statutes for regulation of interbasin transfer (IBT) of water. The western portion of the system is within the Catawba River basin and the eastern portion is within the Rocky River basin. Water transferred from the Catawba River basin to the Rocky River basin that is not returned to the Catawba is regulated IBT.

The North Carolina Environmental Management Commission (EMC) approved Charlotte Mecklenburg Utilities' petition to increase the amount of water transferred from the Catawba basin to the Rocky River basin and an IBT Certificate was issued on March 14, 2002. The Certificate authorizes Utilities to transfer up to 33 million gallons per day (mgd) from the Catawba River basin to the Rocky River basin.

Water for distribution to Utilities' customers is withdrawn from the Catawba River basin at two locations. An intake at Lake Norman sends water to the Lee S. Dukes Water Treatment Plant. A second intake at Mountain Island Lake sends water to the Walter M. Franklin Water Treatment Plant and to the Vest Water Treatment Plant. Potable water from these three plants is delivered through an interconnected distribution system to retail customers throughout Utilities' service area in Mecklenburg County, in small areas of Iredell, Cabarrus, and Union Counties, and to other municipal systems including York County, S.C. Lancaster County (S.C.) Water and Sewer District, and Union County.

Utilities treats wastewater at five advanced wastewater treatment plants (WWTP's) which discharge into small streams in Mecklenburg County. Four of the streams are tributary to the Catawba River basin and one (Mallard Creek) is tributary to the Rocky River basin. Utilities also conveys wastewater generated in portions of Mecklenburg to the Rocky River Regional Wastewater Treatment Plant (RRRWWTP) operated by the Water and Sewer Authority of Cabarrus County (WSACC). The RRRWWTP discharges treated effluent to the Rocky River.

Utilities can transfer treated potable water to the City of Concord through three metered connections to their water system. All of Concord's service area is within the Rocky River basin, so any water purchased by them becomes an IBT. Water service is only provided as an emergency back-up to Concord's routine supply which is Lake Howell and several smaller reservoirs. All of these reservoirs are within the Rocky River basin. Wastewater from Concord is treated at the RRRWWTP. Utilities' agreement with Concord is that water will be supplied to them subject to availability and subject to regulatory constraints including IBT and Federal Energy Regulatory Commission (FERC) limitations.



Concord received an IBT Certificate in January 2007, for the transfer of up to 10 mgd from the Catawba River basin to the Rocky River basin. NC DWR advised Utilities that water sold to Concord should not be applied to Utilities' IBT amount. Concord did not purchase any potable water from Utilities in calendar year 2007, so the IBT amounts reported do not include sales to Concord.

The IBT Certificate requires Utilities to report maximum daily IBT amounts annually to the North Carolina Division of Water Resources until such time as the transfer amount exceeds 80% of the authorized amount. Once that amount is exceeded, Utilities is required to report monthly. To date, Charlotte-Mecklenburg Utilities has not exceeded 80% of the authorized IBT amount.

Table 1 below summarizes actual IBT amounts for calendar years 2002 through 2007 (all calculated using the new methodology approved by N.C. DWR in June of 2006). The table considers the daily amounts of water transferred from the Catawba basin to customers within the Rocky River basin that is not returned to the Catawba basin.

The data indicates that the maximum amount of IBT for year 2007 occurred in September, and was 17.22 mgd, or 52% of the authorized maximum day value of 33 mgd. The average IBT for 2007 was 9.96 mgd, which is about 30% of the authorized maximum day value. In addition to the amount of actual IBT reported in Table 1, Utilities has committed to provide additional IBT to development that has been proposed but not yet activated in the Rocky River basin. As of December 31, 2007, 1.39 mgd was committed to permitted donated projects (subdivisions) that had not been activated and 2.17 mgd was committed to master meter connections (generally commercial or multi-family developments) that had not been activated, both based on maximum day estimates. This brings the total of the actual and outstanding IBT in 2007 to 20.78 mgd, or 63% of the authorized maximum day value.

***Table 1. Actual IBT Summary***

<b>Calendar Year</b>	<b>Avg. Annual IBT (mgd)</b>	<b>Max. Day IBT (mgd)</b>
2002	6.74	11.97
2003	6.91	9.82
2004	7.79	12.56
2005	8.66	13.79
2006	9.56	14.35
2007	9.96	17.22

Condition 1 of Utilities' IBT certificate requires Mecklenburg County to summarize progress in implementation of watershed management approaches of the Surface Water Improvement and Management Program (S.W.I.M. program). This summary follows:

*The watershed management approaches of the Surface Water Improvement and Management (SWIM) Program continued to be implemented during calendar year 2007.*



*Efforts focused on McDowell Creek in the north and Goose Creek in the south, which were the 2 watersheds identified for restoration as a result of the prioritization completed for the 22 watersheds in Mecklenburg County during 2006. McDowell Creek drains to Mountain Island Lake, which is the primary drinking water supply for Charlotte-Mecklenburg. Significant land development in this watershed has resulted in an increase in non-point source pollutant loads. Therefore, this watershed has been assigned a high priority for restoration. Goose Creek is home to a federally listed endangered species of freshwater mussel called the Carolina Heelsplitter. The primary threat to the survival of the Heelsplitter is storm water runoff from land development activities; therefore, this watershed has been given a high priority for restoration.*

*During calendar year 2007, the following work was completed in the McDowell Creek watershed:*

- 1. Continued to update and refine the McDowell Creek Watershed Management Plan for the purpose of restoring degraded water quality conditions.*
- 2. Grant application for \$750,000 submitted to the N.C. Clean Water Management Trust Fund for a planned stream restoration project in the McDowell Creek Watershed in an area that is ranked as a high priority in the Watershed Management Plan. Mecklenburg County will provide \$2,550,000 toward this project, which will include the construction of a greenway along the creek. The total project cost is \$3,300,000.*
- 3. Mecklenburg County partnered with the Sierra Club and over 100 volunteers to plant 900 trees along the banks of McDowell Creek over approximately 3 acres. This area was targeted in the Watershed Management Plan as a high priority for restoration of the buffer corridor.*
- 4. Mecklenburg County established a partnership with the Town of Cornelius to conduct two stream restoration projects in the Town's jurisdiction in the headwaters of McDowell Creek. These stream sections are among the most highly degraded in the watershed and have the highest priority for restoration in the Watershed Management Plan. Preliminary designs for the stream restoration projects are underway.*
- 5. During 2007, design work was completed for the installation of 10 rain gardens into a 60 acre parking lot in the Northcross Shopping Center in Huntersville, which is located in the headwaters of McDowell Creek in a high priority area for the generation of non-point source pollutants. The project was completed in May 2008. In addition to the Northcross Shopping Center project, Mecklenburg County partnered with other private businesses in Huntersville to add a total of 16 rain gardens and wetlands at Carolinas Medical Center-Northcross, Northcross Commons, NorthPointe Executive Business Park, and in the Monteith Park residential subdivision. Known as the McDowell Best Management Practices project, the five sites are all located in the same general location in the headwaters of McDowell Creek. The cost of building the rain gardens and*



wetlands at the five locations was \$1.9 million dollars. Nearly \$800,000 of this money came from Storm Water fees paid by Mecklenburg County residents. The remaining \$1.1 million was funded through grants from the North Carolina Clean Water Management Trust Fund and North Carolina Division of Environment and Natural Resources. Land was donated by American Asset Corporation, Carolinas HealthCare Systems, Northcross Properties LLC, NorthPointe Realty Corporation, Saussy Burbank, and Sentinel Real Estate Corporation, thanks to partnerships with Harris Teeter, Kohl's, and Lowe's. This is the first of many very large projects planned in the McDowell Creek Watershed.

6. Mecklenburg County is in the planning process for a partnership with the Sierra Club for a Water Quality Summit to be held in 2008 in the headwaters of the McDowell Creek Watershed. The summit will target residents in the area and will focus on buffer plantings, stream cleanups and other activities for restoring water quality conditions in McDowell Creek through the implementation of the Watershed Management Plan.

*During calendar year 2007, the following work was completed in the Goose Creek watershed:*

1. *Extensive water quality monitoring was completed and a Water Quality Recovery Program for reducing fecal coliform bacteria levels was developed based off the results of this monitoring. This Water Quality Recovery Program is being rolled into a more comprehensive Watershed Management Plan that focuses on restoring overall water quality conditions in the creek.*

Condition 2 of Utilities' IBT certificate requires a report on the stakeholder process to investigate water quantity control from single-family development and water quality control for all development until that process is completed. The condition suggests that the feasibility of single-family detention should be considered along with any needed ordinance revisions. This report follows:

*In June 2007, post-construction storm water ordinances went into effect in Mecklenburg County and the Towns of Cornelius, Davidson, Huntersville, Matthews, Mint Hill and Pineville. Extensive effort went into training staff and the development community regarding the actions necessary to ensure compliance with these ordinances. In addition, an Administrative Manual, a BMP Design Manual and website were developed to assist in compliance. The ordinances were adopted by the jurisdictions following the completion of a stakeholders' process that ran from April 2004 through September 2005. The ordinances include a requirement to remove 85% Total Suspended Solids from the first inch of runoff for commercial and residential projects, and an additional 70% Total Phosphorus removal from the first inch of runoff if the project is located in either the Yadkin or Upper Catawba USGS 8-digit hydrologic unit code watersheds. Water quantity elements include controlling*



*the entire post development volume generated by the 1-year 24-hour storm and releasing between 48 and 120 hours, for both residential and commercial developments. In addition all projects must provide peak control for the 10-year 6-hour and 25-year 6-hour storm events, although peak control may be waived for certain projects if a downstream analysis shows no adverse impacts from the development. Implementation of the ordinances has gone very well since their adoption.*

The adoption and implementation of the post-construction storm water ordinances concludes the processes described in Condition 2. Future annual IBT reports will refer to Condition 2 as having been completed in 2007.

Condition 3 of the IBT Certificate removes the Goose Creek subbasin from the area to be served by the IBT, and imposes a moratorium on the installation of new IBT water lines (water lines crossing the ridgeline) into Goose Creek subbasin until the impacts of additional growth on the endangered species are fully evaluated. In 2005, the Southern Environmental Law Center (SELC) requested a Declaratory Ruling from the N.C. Environmental Management Commission relative to Utilities' compliance with this condition. While the EMC declined to issue a Declaratory Ruling, it did direct DWR staff to develop recommendations about IBT measurement and interpretation of Condition 3. Staff's response (issued June 29, 2006) concluded that Utilities has complied with Condition 3, but confirmed NC DWR's January 20, 2006, direction to Utilities to impose a moratorium on new water services in the Goose Creek subbasin when total IBT allocations (actual plus committed) to the Rocky River basin reached the grandfathered amount. Utilities suspended acceptance of applications for new water services in the Goose Creek subbasin until the committed IBT amount could be determined.

In 2006 and 2007, after the committed IBT amount was determined, interested third parties in the Goose Creek basin requested that NC DWR reconsider the interpretation of the new water services moratorium. The request was for NC DWR to allow the portion of the grandfathered IBT amount that was unused and uncommitted at the time the moratorium was imposed to be used within the Goose Creek basin. NC DWR agreed to the request. As a result, a relatively small amount of water was made available in the Goose Creek basin. With concurrence from NC DWR, Utilities used previous requests to allow proposed developments access to this water in the order the requests had been received.

Regarding resolution of the impacts of additional growth on the endangered species, NC Division of Water Quality (DWQ) has proposed a site specific management plan for the Goose Creek basin. The plan proposes to use buffers and other techniques to protect the endangered species from the impacts of growth. It is anticipated that the site specific plan will be approved by the NC EMC in 2008. In anticipation that Mint Hill's adoption of a post construction stormwater control ordinance and DWQ's proposed site specific management plan would resolve the issues related to this condition, NC DWR informed the NC EMC on September 12, 2007, that DWR planned to develop an environmental assessment (EA) document to provide a basis for the EMC to consider a modification of condition 3 of Utilities' IBT Certificate. Utilities and DWR staff developed a plan for how the EA would be developed and processed. As of December 31, 2007, Utilities was preparing to initiate development of the EA according to that



plan. As of December 31, 2007, the moratorium on installation of new water mains into the Goose Creek subbasin remained in place.

Condition 4 of the IBT Certificate provides that the Environmental Management Commission may reopen the Certificate under certain circumstances. This did not occur in 2007.

Condition 5 of the IBT Certificate requires Utilities to develop a compliance and monitoring plan for reporting maximum daily transfer amounts, compliance with certificate conditions, progress on mitigation measures, and drought management activities. Utilities' monitoring plan and reporting format were approved in June of 2006 by NCDWR and continued to be used for 2007.

Due to below average rainfall and above average temperatures, weather conditions in 2007 required the implementation of drought management activities. Based on triggers established in the Low Inflow Protocol (LIP) document adopted by the members of the Catawba-Wateree Drought Management Advisory Group, Utilities (along with other water users required to comply with the LIP) followed water conservation measures outlined in the LIP document. In early August 2007, Utilities' water customers were asked to voluntarily reduce their water consumption. After several additional weeks with minimal rainfall and above average water consumption, on August 28th the Catawba-Wateree River Basin went into mandatory water restrictions under Stage 2 of the LIP (limiting outdoor water use to 2 days per week). Following another month of hot, dry days, Charlotte-Mecklenburg customers entered into Stage 3 water restrictions on September 26, 2007, (restricting almost all outdoor water use); Stage 3 restrictions continued to be enforced throughout the rest of 2007. Recent calculations show that these water conservation measures were successful in reducing water consumption; residential customers reduced their water use more than 30 percent as compared to their average unrestricted use spanning 2000-2006.

In summary, Utilities is in full compliance with IBT authorizations and compliance conditions. The amount of water transferred from the Catawba River basin to the Rocky River basin in 2007 is significantly less than the authorized amount.

## 2007 IBT Summary

	Amount	Comment
Max. Actual IBT - Calendar Year 2007	17.22 mgd	
Outstanding, Committed IBT from Permitted Projects	1.39 mgd	See Donated Projects tab
Outstanding, Committed IBT from Master meter commitments	<u>2.17</u> mgd	See Flow Accept Letters tab
<b>Total Actual + Outstanding IBT</b>	<b>20.78 mgd</b>	
% of Grandfathered IBT Amount	129.07 %	Grandfathered amount is 16.1 mgd
% of Authorized IBT Amount	62.97 %	Authorized amount is 33 mgd

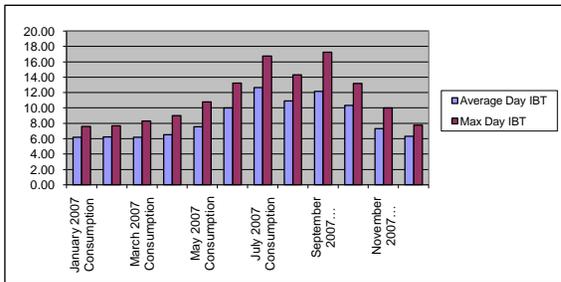
Sub Basin	January 2007 Consumption	February 2007 Consumption	March 2007 Consumption	April 2007 Consumption	May 2007 Consumption	June 2007 Consumption	July 2007 Consumption	August 2007 Consumption	September 2007 Consumption	October 2007 Consumption	November 2007 Consumption	December 2007 Consumption	Average 2007 Consumption
Back	22570	23598	22810	23537	26196	33220	42548	36230	41909	31977	22472	22569	29,136
Clarke	21525	19486	19305	22589	29985	38551	53954	43896	49278	46730	35093	21276	33,472
Clear	5726	5427	5203	6437	7592	10578	12859	11837	14122	9914	6787	5294	8,481
Crooked Creek	7445	6799	6759	9391	9549	14501	11811	12708	13425	9798	7521	6841	9,712
Duck Branch	73	191	135	150	736	364	2012	784	1026	729	568	386	596
Goose Creek	4075	3816	3774	5605	6011	10171	10769	10181	11062	8510	4709	4141	6,902
Mallard	147028	144151	143311	150983	167410	225747	269863	235838	261789	222450	160507	147828	189,742
McKee	444	611	548	648	590	576	724	641	752	698	610	834	640
Reedy	22349	24606	24468	25085	30173	35110	44951	36773	43066	40807	29375	28145	32,076
Rocky River	15798	15797	15166	15472	23268	28726	49925	42736	45168	44430	25536	17056	28,257
Rocky River Trib	26412	30033	32263	31488	35002	45994	61179	47273	56107	46396	30538	26699	39,115
Rocky River Basin Total (CCF)	273,445	274,515	273,742	291,385	336,512	443,538	560,595	478,897	537,704	462,439	323,716	281,069	378,130
Rocky River Ave Day (GPD)	6,817,895	6,844,574	6,825,301	7,265,199	8,390,366	11,058,881	13,977,502	11,940,499	13,406,753	11,530,146	8,071,319	7,007,987	9,428,035
Ave Day Return to Catawba (GPD)	647,643	647,544	663,875	764,082	852,321	1,083,328	1,332,662	1,053,932	1,256,839	1,219,813	780,463	726,956	919,122
Ave Day Unadjusted IBT (MGD)	6.17	6.20	6.16	6.50	7.54	9.98	12.64	10.89	12.15	10.31	7.29	6.28	9
Max Day Unadjusted IBT (MGD)	6.48	6.56	7.09	7.67	9.20	11.27	14.29	12.19	14.70	11.24	8.53	6.60	10
Total System Consumption (CCF)	3,164,982	3,024,546	3,165,196	3,218,851	4,074,163	4,753,216	4,432,338	4,887,020	4,224,145	4,020,219	3,756,474	2,966,818	3,807,331
Total System Consumption (GPD)	78,913,551	75,412,014	78,918,887	80,256,685	101,582,464	118,513,519	110,512,961	121,849,699	105,322,015	100,237,460	93,661,418	73,972,662	94,929,445
IBT (MGD) w/ Unbilled Adjustment	7.59	7.68	8.30	8.98	10.77	13.20	16.73	14.28	17.22	13.16	9.99	7.72	17.11%

Unbilled Water Ratio

Sub Basin	January 2007 Accounts	February 2007 Accounts	March 2007 Accounts	April 2007 Accounts	May 2007 Accounts	June 2007 Accounts	July 2007 Accounts	August 2007 Accounts	September 2007 Accounts	October 2007 Accounts	Nov 2007 Accounts	Dec 2007 Accounts
Back	3545	3644	3651	3677	3692	3694	3744	3828	3911	3997	4008	4023
Clarke	2967	2991	3019	3060	3084	3112	3137	3195	3250	3257	3276	3305
Clear	709	709	724	733	739	748	752	766	767	772	777	782
Crooked Creek	1027	1037	1037	1043	1043	1044	1045	1050	1058	1062	1064	1062
Duck Branch	17	21	21	25	25	25	26	26	29	32	36	42
Goose Creek	530	539	554	558	562	566	573	576	578	580	583	584
Mallard	17718	17867	17948	18037	18104	18097	18253	18432	18517	18582	18620	18676
McKee	96	99	98	99	104	103	104	105	105	106	107	108
Reedy	3450	3530	3548	3596	3615	3625	3684	3760	3829	3900	3911	3926
Rocky River	2057	2050	2062	2072	2075	2074	2107	2130	2146	2150	2159	2171
Rocky River Trib	4223	4286	4313	4322	4330	4360	4402	4458	4505	4538	4561	4583
Total Accounts	36,339	36,773	36,975	37,216	37,373	37,448	37,827	38,326	38,695	38,976	39,102	39,262

Pump Station	January 2007 Amount	February 2007 Amount	March 2007 Amount	April 2007 Amount	May 2007 Amount	June 2007 Amount	July 2007 Amount	August 2007 Amount	September 2007 Amount	October 2007 Amount	November 2007 Amount	December 2007 Amount
Clark's Creek	8087	7311	7932	9750	11895	16143	24253	16755	21164	18315	8236	7085
Davidson	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line
Davidson College	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line
Griffith Street	11	9	8	9	19	13	18	18	16	18	13	12
Heathers	3205	2967	3231	4475	4427	6642	4975	4755	5711	4324	3127	2932
Huntersville	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line
McConnell	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line	Off-line
Oxfordshire	1906	1876	1716	2506	3000	4287	5121	3681	5323	3650	1867	1878
Plot Road	9288	10610	10781	10088	11153	10827	14579	11559	13361	18493	14494	13993
Stallings Road	3478	3198	2958	3817	3690	5537	4503	5502	4833	4123	3565	3256
Total (CCF)	25,975	25,971	26,626	30,645	34,184	43,449	53,449	42,270	50,408	48,923	31,302	29,156
Average Day (GPD)	647,643	647,544	663,875	764,082	852,321	1,083,328	1,332,662	1,053,932	1,256,839	1,219,813	780,463	726,956

Treatment Plant	January 2007 Ratio	February 2007 Ratio	March 2007 Ratio	April 2007 Ratio	May 2007 Ratio	June 2007 Ratio	July 2007 Ratio	August 2007 Ratio	September 2007 Ratio	October 2007 Ratio	November 2007 Ratio	December 2007 Ratio	Average
Avg to Peak Pumping Ratio	1.05	1.06	1.15	1.18	1.22	1.13	1.13	1.12	1.21	1.09	1.17	1.05	1.13
Average Day Pumping (MGD)	92.03	95.245	102.233	110.379	137.112	141.298	135.577	150.884	125.026	99.324	94.938	90.278	115



**SUMMARY - 2007**  
 Authorized Max IBT 33 mgd  
 Max Day IBT (adjusted) 17.22 mgd  
 % of Authorized 52.17%  
 IBT/Account (gpd/account) 449  
 Avg Day IBT (adjusted) 9.96 mgd  
 Adjusted values include unbilled water

Sub Basin	Percent Area
Back	3.71
Clarke	18.28
Clear	12.28
Crooked Creek	2.74
Duck Branch	3.05
Goose Creek	2.85
Mallard	32.98
McKee	4.99
Reedy	11.02
Rocky River	3.26
Rocky River Trib	4.84



Permitted Donated Projects 2003 - December 2007, Rocky River Basin														Estimated Committed, Inactive IBT (GPD)	Project Listed on Permitted Projects SDE
Map ID	Water Project Number	Wastewater Project Number	Project Name	Water Permit	Water Permit Date	Wastewater Permit	Wastewater Permit Date	Wastewater GPD	Total Lots Permitted	Lots Without Service (Dec 07)	Lots w/ Service (Dec 07)				
1	100-06-030	100-06-529	Amber Leigh	406-117	10/9/2006	406-644	10/9/2006	17480	92	83	11	35,690	Yes		
4	100-03-046	100-03-550	Arbor Hills	303-127	9/4/2003	303-640	9/4/2003	72770	383	0	383	0	No		
5	100-06-062	100-06-565	Ayrley Townhomes	406-137	11/24/2006	406-678	11/24/2006	35910	189	189	0	81,270	Yes		
6	100-04-120	100-04-633	Back Creek Downs	305-102	7/13/2005	305-595	7/13/2005	12540	66	22	44	9,460	Yes		
7	100-05-104	100-05-618	Bailey Springs Subdivision	206-059	5/11/2006	206-573	5/11/2006	24130	127	120	7	51,600	Yes		
100-05-05	100-05-055	NA	Bain Farm Subdivision	106-044	3/27/2006	NA	NA	NA	95	93	2	39,990	Yes		
9	100-04-105	100-04-620	Ballyshannon Subdivision	404-211	12/20/2004	404-722	12/20/2004	4370	23	13	10	5,590	Yes		
10	100-06-055	100-06-558	Briar Cliff	306-113	9/28/2006	306-640	9/28/2006	9/28/2006	59	48	11	20,640	Yes		
11	100-05-086	100-05-598	Caldwell Commons	306-086	7/12/2006	306-606	7/12/2006	29450	155	118	37	50,740	Yes		
12	100-03-105	100-03-616	Centennial	304-131	7/26/2004	304-638	7/26/2004	46170	243	45	198	19,350	Yes		
13	100-03-009	100-03-509	Christenbury Hills	303-119	8/15/2003	303-629	8/15/2003	30020	158	0	158	0	Yes		
14	100-05-012	100-05-517	Clear Creek Business Park Phase 1	206-058	5/11/2006	206-572	5/11/2006	164250	0	NA	0	216,810	wastewater flow x peaking factor		
15	100-03-017	100-03-518	COVENTRY 3	203-092	6/19/2003	203-600	6/19/2003	53390	281	61	220	26,230	Yes		
16	100-06-033	100-06-533	Creekside at Wyndham Place	306-110	9/22/2007	306-637	9/22/2007	25650	135	112	23	48,160	Yes		
17	100-03-100	100-03-611	Cypress Ridge	304-139	7/29/2004	304-647	7/29/2004	3040	16	16	0	6,880	Yes		
18	100-06-037	100-06-537	Davidson Commons	406-140	12/7/2006	406-681	12/7/2006	6210	6	0	6	0	Yes		
20	100-06-053	100-06-557	Davis Meadows Subdivision Ph 1	406-141	12/11/2006	406-682	12/11/2006	7220	38	38	0	16,340	Yes		
21	100-04-054	NA	Davis Run	404-196	11/9/2004	NA	NA	NA	15	11	4	4,730	Yes		
22	100-03-012	100-03-512	DELTA GROVE PHASE 2	203-086	6/11/2003	NA	203-596	NA	38	11	27	4,730	Yes		
23	100-06-032	100-06-532	Dogwood Pines	406-133	11/14/2006	406-672	11/14/2006	3800	20	17	3	7,310	Yes		
24	100-05-017	100-05-523	Dominion Crest at Highland Creek	106-025	2/6/2006	106-527	2/6/2006	12350	65	3	62	1,290	Yes		
25	100-03-029	100-03-530	EASTFIELD	403-161	10/28/2003	403-674	10/28/2003	27780	146	0	146	0	Yes		
26	100-05-005	100-05-506	EASTFIELD VILLAGE PH III	405-159	10/19/2005	405-655	10/19/2005	8740	46	8	38	3,440	Yes		
27	100-06-049	NA	Fairington Oaks Phase 2	107-035	2/16/2007	NA	NA	NA	86	30	56	12,900	Yes		
100-06-04	100-06-042	NA	Gateway on Park	406-115	10/5/2006	NA	NA	NA	7	7	0	3,010	Yes		
29	100-06-059	100-06-563	Gilead Ridge - Phase 2	306-102	9/15/2006	306-635	9/15/2006	28310	149	74	75	31,820	Yes		
30	100-05-009	100-05-512	HAMPTON PLACE PH IV	305-123	8/17/2005	305-614	8/17/2005	11020	58	17	41	7,310	Yes		
31	100-06-024	100-06-521	Hampton Place Sub. Ph 5	406-145	12/15/2006	406-686	12/15/2006	3420	18	9	9	3,870	Yes		
32	100-03-006	100-03-506	SkybrookPh6 (was HIGHLAND CRK PH 6)	303-120	8/19/2003	303-630	8/19/2003	14440	76	8	68	3,440	Not		
33	100-04-063	100-04-570	Highland Creek Phase 7	404-189	10/27/2004	404-702	10/27/2004	11780	62	2	60	860	Yes		
34	100-04-109	100-04-623	HUDSON PLACE	305-121	8/16/2005	305-613	8/16/2005	6460	34	34	0	14,620	Yes		
35	100-05-102	100-05-616	Huntersville Business Park West	406-134	11/15/2006	406-673	11/15/2006	38000	1	1	0	430	Yes		
36	100-05-037	100-06-545	Iverness	406-124	10/18/2006	406-656	10/18/2006	11210	59	54	5	23,220	Yes		
37	100-06-020	100-06-517	Joy's Serenity Point	406-146	12/15/2006	WQ0030665	11/30/2006	3800	20	14	6	6,020	Yes		
38	100-06-010	100-06-511	Kelly Woods	406-129	11/6/2006	406-662	11/6/2006	7600	40	39	1	16,770	Yes		
39	100-06-048	100-06-554	Kings Parade Blvd	406-143	12/13/2006	406-685	12/13/2006	25070	1	0	1	0	Yes		
40	100-06-023	100-06-520	Latta Springs Phase 2	406-139	12/1/2006	406-680	12/1/2006	6460	34	30	4	12,900	Yes		
41	100-03-053	100-03-560	MALLARD WOODS 2	104-001	1/6/2004	104-503	1/6/2004	9690	51	4	47	1,720	Yes		
42	100-05-104	100-03-555	MILLSTREAM RIDGE DRIVE	303-124	9/2/2003	303-636	9/2/2003	11400	60	30	30	12,900	No		
43	100-05-068	100-05-580	Mint Hill Village	406-122	10/16/2006	406-653	10/16/2006	16800	1	0	1	0	Yes		
100-06-03	100-06-039	100-06-543	Morningside	406-114	10/2/2006	406-642	10/2/2006	13490	71	71	0	30,530	Yes		
45	100-06-061	100-06-564	Nevin Glen Phase 2	406-136	11/20/2006	406-676	11/20/2006	21090	111	109	2	46,870	Yes		
46	100-05-066	100-05-578	NORTH MECKLENBURG INDUSTRIAL PK	405-195	12/30/2005	405-687	12/30/2005	28917	5	0	5	38,170	wastewater flow x peaking factor		
47	100-05-011	100-05-516	OAKBROOKE PH 3	305-125	8/17/2005	305-616	8/17/2005	26600	140	42	98	18,060	Yes		
48	100-05-057	100-05-568	Oakbrooke Ph 4	206-047	4/17/2006	206-559	4/17/2006	24890	131	51	80	21,930	Yes		
49	100-05-037	100-05-546	Old Stone Crossing Ph. 6, 7, 8	405-174	12/1/2005	405-678	12/1/2005	15960	84	84	0	36,120	Yes		
54	100-03-047	100-03-551	Old Stone Crossing Phase 3C	104-014	1/23/2004	104-517	1/23/2004	23940	126	10	116	4,300	Yes		
55	100-04-091	100-04-602	Old Stone Crossing Phase 5B	105-036	3/1/2005	105-540	3/1/2005	14440	76	61	15	26,230	Yes		
57	100-03-019	100-03-542	Park Place At Davidson	304-146	8/11/2004	304-653	8/11/2004	4940	14	10	4	4,300	Yes		



Flow Acceptance Letters Written (8/15/05 - 12/31/07)												
All Flow Acceptance Letters valid for 12 months if not constructed												
Projects in Rocky River Basin receiving water from Catawba basin												
Project ID	Project Name	Plant Name	Drainage Basin	Permitted Wastewater Flow Acceptance (Avg. day)	River Basin	Estimated Max Day IBT (GPD)	NCDENR Permit Number	Tax Parcel Number	Meter Set (Yes/No)	Units	Type	Basis of IBT Estimate
600-05-514	Davidson Day School	Rocky River WWTP	Rocky River	7,500	Rocky River	7,500			No	500	Students	Wastewater flow x peaking factor (15 gpd/student)
600-05-525	Northeast Quadrant of Griffith St. and I-77	Rocky River WWTP	Rocky River	48,000	Rocky River	36,364	WQ0031906	322101	No	400,000	SF Office	120 gpd/1000 sf retail space x peaking factor of 1.32
600-05-525	Northeast Quadrant of Griffith St. and I-77	Rocky River WWTP	Rocky River	1,200	Rocky River	5,676	WQ0031906	322101	No	10,000	SF Retail	120 gpd/1000 sf retail space x peaking factor of 1.32
600-05-525	Northeast Quadrant of Griffith St. and I-77	Rocky River WWTP	Rocky River	16,910	Rocky River	38,270	WQ0031906	322101	No	89	Apartments	Avg IBT/connection from 2005 (430 gpd/connection)
600-05-554	Davidson Elox Site	Rocky River WWTP	Rocky River	16,091	Rocky River	21,240		323120	No	92,844	SF Office/Industrial	
600-05-565	The Villas at Olde Concord Place, Tax	Mallard WWTP	Mallard Creek	23,760	Rocky River	75,690	WQ0030495	04927118, 049271	No	176	Apartments	Avg IBT/connection from 2005 (430 gpd/connection)
600-05-566	Park @ Davidson Townhomes	Rocky River WWTP	Rocky River	10,690	Rocky River	22,360		323122 (NO PAR)	No	52	Townhomes	Avg IBT/connection from 2005 (430 gpd/connection)
600-05-569	Heather Ridge, Phase II, Tax Parcel #049-412-05	Mallard WWTP	Mallard Creek	15,120	Rocky River	48,160		4941205	No	112	Apparment	Avg IBT/connection from 2005 (430 gpd/connection)
600-05-581	3024 Prosperity Church Road, Tax ID # 029-361-05	Mallard WWTP	Mallard Creek	11,550	Rocky River	15,246		2936105	Yes	96,250	SF Office/Retail	
600-05-585	5101 Prosperity Church Road/ Tax ID # 027-062-06	Mallard WWTP	Mallard Creek	16,200	Rocky River	18,600		2706206	No	155	Retirement Residence	
600-06-527	4219 Hucks Rd	Mallard WWTP	Mallard Creek	38,950	Rocky River	88,150		2763101	No	205	Single Family Residential	Avg IBT/connection from 2005 (430 gpd/connection)
600-06-528	The Pines @ Davidson, 400 Avinger Ln.	Rocky River WWTP	Rocky River	6,960	Rocky River	10,320	06-00963-R2	701327 (NO PAR)	No	24	Townhomes	Avg IBT/connection from 2005 (430 gpd/connection)
600-06-529	300 North Harbor Place	Rocky River WWTP	Rocky River	3,555	Rocky River	2,995		118393	No	30	Retail	
600-06-541	Villages at Back Creek, Phase II - Tax Parcel #051-122-25	Mallard WWTP	Back Creek	37,240	Rocky River	84,280	WQ0031095	5112205	No	196	Townhomes	Actual data from comparable restaurants x 2005 peaking factor
600-06-545	K & W Cafeteria, Tax Parcel #047-181-07	Mallard WWTP	Mallard Creek	14,107	Rocky River	23,762	WQ0030615	4718107	No	238	Restaurant Seats	Actual data from comparable restaurants x 2005 peaking factor
600-06-546	University Village @ UNCC, Tax Parcel #051-011-14, -25, 051-332-10	Mallard WWTP	Mallard Creek	24,795	Rocky River	57,190	06-01197	05101114, 051011	No		Apartments	
600-06-551	Stor-All	Mallard WWTP	Mallard Creek	9,598	Rocky River	12,669	06-01468	4940110	No	79,980	SF Office/Retail	Wastewater flow x peaking factor
600-06-579	Mallard Creek Apartments, Tax Parcel #02903117	Mallard WWTP	Mallard Creek	44,280	Rocky River	141,900		2903117	No	330	Apartments	Avg IBT/connection from 2005 (430 gpd/connection)
600-06-581	540 Ridgewood Ave Lot # 1, Davidson	Rocky River WWTP	Rocky River	190	Rocky River	430	WQ0031047	702368	No	1	Residential	430 gpd/connection
600-06-582	540 Ridgewood Ave, Lot # 2, Davidson	Rocky River WWTP	Rocky River	190	Rocky River	430	WQ0031048	702304	No	1	Residential	430 gpd/connection
600-06-583	1914 JN Pease Place	Mallard WWTP	Mallard Creek	1,711	Rocky River	2,258			No	14,258	SF Office/Retail	120 gpd/1000 sf retail space x peaking factor of 1.32
600-06-590	Mill Pond @ Carolina Lily Lane Tax	Rocky River WWTP	Rocky River	9,720	Rocky River	30,960	WQ0031382	2919106	No	72	Apartments	Avg IBT/connection from 2005 (430 gpd/connection)
600-06-594	12421 McCord Road, Stonegate Estates	Rocky River WWTP	Clarke Creek	1,140	Rocky River	2,580		1105108	No	6	Single Family Residential	Avg IBT/connection from 2005 (430 gpd/connection)
600-06-613	Harbour Place - Brownstones	Rocky River WWTP	Rocky River	5,890	Rocky River	13,330		330150	No	31	Townhomes	Avg IBT/connection from 2005 (430 gpd/connection)
600-07-624	Davidson Equus Subdivision	Rocky River WWTP	Rocky River	3240	Rocky River	7,740	WQ0032109	717114	No	18	Residential	430 gpd/connection
600-07-666	The Pinnacle at Davidson Gateway	Rocky River WWTP	Lake Norman	12920	Rocky River	29,240		321120	No	68	Residential	430 gpd/connection
600-06-581	Hoke Property Lot # 1, Davidson	Rocky River WWTP	Rocky River	190	Rocky River	430	WQ0031047	702368	No	1	Residential	430 gpd/connection
600-07-501	Carlisle Apartments - 701 McCullough	Mallard WWTP	Mallard Creek	50220	Rocky River	159,960		4721205	No	372	Apartments	430 gpd/connection
600-07-530	Rocky River Shopping Center	Mallard WWTP	Back Creek	36350	Rocky River	22,176		10515402	No	140,000	ShoppinCenter/Restaurant	
600-07-538	Belmont Apartments	Mallard WWTP	Mallard Creek	46710	Rocky River	148,780		2906492	Yes	346	Apartments	430 gpd/connection
600-07-549	5333 Prosperity Crossing - Parcel C	Mallard WWTP	Mallard Creek	9455	Rocky River	3,366		2707216	Yes	21,250	Office/Retail	
600-07-551	Villages at Back Creek, Phase 3	Mallard WWTP	Back Creek	38950	Rocky River	88,150	WQ0032451, 07-0	5112225	No	205	Townhomes	430 gpd/connection
600-07-552	Wal-Mart, North Tryon Street	Mallard WWTP	Mallard Creek	21125	Rocky River	27,884	WQ0031972	4722214	No	176,038	Retail / Walmart	120 gpd/1000 sf retail space x peaking factor of 1.32
600-07-564	Townhomes at Skybrook	Rocky River WWTP	Clarke Creek	35530	Rocky River	80,410		4670567602	No	187	Residential/Townhouse/Condo	430 gpd/connection
600-07-565	The Cascades @ Skybrook	Rocky River WWTP	Clarke Creek	14440	Rocky River	32,680		4670457728	No	76	Residential/Townhouse/Condo	430 gpd/connection
600-07-587	UNC-Charlotte, New Main Entrance	Mallard WWTP	Mallard Creek	0	Rocky River	0		4931102	No	0	New Main Entrance / UNC	
600-07-590	Leslie Apartments (Senior) 2312 Penninger Ct	Mallard WWTP	Mallard Creek	6750	Rocky River	21,500		04705203, 047052	No	50	Residential	430 gpd/connection
600-07-592	Glenmere @ Mallard Creek	Mallard WWTP	Mallard Creek	12160	Rocky River	27,520	WQ0031968, 07-0	2901127	No	64	Townhomes/Condo	430 gpd/connection
600-07-593	Abbington Place at Pinnacle Point - Phase 3	Mallard WWTP	Mallard Creek	35640	Rocky River	113,520		4718123	No	264	Apartment	430 gpd/connection
600-07-595	Hucks Road Elementary School 4911 Hucks	Mallard WWTP	Mallard Creek	9600	Rocky River	15,840		2715318	No	800 students	School Addition	Wastewater flow x peaking factor (15 gpd/student)
600-07-596	Proposed Apartments for Charter Properties	Mallard WWTP	Mallard Creek	36450	Rocky River	116,100	WQ0031900	2931131	No	270	Residential/Apartments	430 gpd/connection
600-07-597	Fairfield, 1001 University City Bv. (The Exchange)	Mallard WWTP	Mallard Creek	31860	Rocky River	140,180	WQ0032608	5101118	No	326	Apartment	430 gpd/connection
600-07-629	Kirk Property	Mallard WWTP	Mallard Creek	39520	Rocky River	89,440	WQ0032109	00717114,	No	208	Residential	430 gpd/connection
600-07-644	Gateway - Highway 29	Mallard WWTP	Mallard Creek	79970	Rocky River	239,826		4941201	No	550 Apt./21,000	Apartment1Retail/Restaurant	120 gpd/1000 sf retail space x peaking factor of 1.32 and 430 gpd/connection
600-07-673	UNC - Charlotte, Back Entrance	Mallard WWTP	Mallard Creek	0	Rocky River	0		02937198,	No	0	New Back Entrance / UNC	
600-07-690	Preserve at Prosperity Church	Rocky River WWTP	Rocky River Tri	18810	Rocky River	42,570		07-01170	No	99	Townhomes	430 gpd/connection
				Total		2,167,663		4309104				