

August 2009

North Carolina Division of Water Resources Environmental Management Commission

# Central Coastal Plain Capacity Use Area Status Report

# **Introduction**

Rule 15A NCAC 02E .0506 requires that the Division of Water Resources (DWR) publish a status report on the Central Coastal Plain Capacity Use Area (CCPCUA) two years after the effective date of the CCPCUA rules, August 1, 2004, and at five year intervals thereafter. This document is the second CCPCUA status report. Its purpose is to inform interested persons about how the CCPCUA is bringing about the use of more sustainable water sources. Figure 1 and the cover page illustrates the CCPCUA which includes the following 15 counties: Beaufort, Carteret, Craven, Duplin, Edgecombe, Greene, Jones, Lenoir, Martin, Onslow, Pamlico, Pitt, Washington, Wayne and Wilson.

The main objective of the CCPCUA rules is to force reduction of withdrawals from endangered aquifers and make large users invest in sustainable, alternative sources of water. The overused aquifers (Black Creek and Upper Cape Fear) are still being overdrawn by the many water users in the fifteen county area. <u>All</u> ground water sources in the 15 county area are regulated by permit so that the over-pumping problem is not shifted to other aquifers.

Effects of the over-pumping include dewatering, declining water levels, and salt water encroachment. These effects and the proposed capacity use designation were discussed at length in the Division's *Central Coastal Plain Capacity Use Investigation Report*, November 1998 downloadable off the Division's website at the following link: <u>http://www.ncwater.org/</u> <u>Reports and Publications/Ground Water Branch/cuainvestigation121598.pdf</u>. The recent September 2008 Central Coastal Plain Capacity Use Area Assessment Report discussed the latest condition of the CCP aquifers in detail. The DWR concluded after reviewing the aquifer situation that the Environmental Management Commission (EMC) should not take action to alter CCPCUA rule language or reduction zone boundaries. This report can be downloaded from the Division's website at the following link: <u>http://www.ncwater.org/Reports and Publications/</u> <u>GWMS Reports/CCPAssessment 090308.pdf</u>

# Permitting and Registration

One important result of the CCPCUA rules was the formation of the water use permitting process which establishes water withdrawal requirements for users of more than 100,000 gallons of ground water a day (any day of the year). Permits are issued with maximum withdrawal per day requirements for those facilities using non-endangered aquifers – ground water sources outside the limits of the Cretaceous Aquifer Zones.

Users that withdraw ground water from the endangered aquifers – the aquifers described by the CCPCUA Cretaceous Aquifer Zones map (see figure 2) and DWR's hydrogeologic database – are issued permits with maximum withdrawal per <u>year</u> requirements.

Permit holders with yearly withdrawals limits will be reduced from each of their Approved Base Rates (ABR) according to schedules set up in rule 15A NCAC 02E .0503.

Phased reductions toward the required 75% or 30% cutback occur over a 16 year period (2002 through 2018). Reductions vary depending upon location (which Cretaceous Aquifer Zone applies). A typical example is illustrated in figure 3. ABRs were determined from historical annual usage in 1997 or August 1, 1999 through July 31, 2000, whichever was greater. All 57 annual limit permits have been issued that require an Approved Base Rate calculation and setting of reduction schedules.

The permitting process achieves a schedule for each permittee toward withdrawal requirements, a better understanding of their ground water situation, plans for future water supplies, water conservation methods and plans, and reporting demands which place a heavier burden on each permittee to monitor the condition of their water supplies. Table 1 lists current permit holders.

Registrations are required for those surface and ground water withdrawers of more than 10,000 gallons per day. Registration information received by the Division is available on the CCPCUA website (Table 2 shows the results of registration for 2008). The Department of Agriculture and Consumer Services, Agricultural Statistics Division has completed CCP water use surveys for 2002 through 2007 and plans to continue similar <u>state-wide</u> surveys annually, beginning in 2008. Their previous reports are available as PDF files at the Division's website (<u>www.ncwater.org</u>), at the link to the CCPCUA.

### Compliance and Enforcement

In the CCPCUA, compliance means that water users apply for and receive a permit to use water and that they record and report their daily withdrawals, monthly water levels, and, in some cases, annual chloride sampling results. Each permit is awarded for a time period of between five and ten years and is required to be renewed at the end of that period. When compliance to these requirements is not met then our understanding of where and how ground water is being withdrawn is not as complete and our ability to track the status of the CCP aquifer system suffers. Strict accounting of withdrawals in combination with the measurements of aquifer response from the network of DWR monitoring wells and CCPCUA production wells will allow a complete understanding of the CCP aquifer capabilities and will document areas in the CCP where equilibrium between ground water withdrawals and natural ground water recharge is achieved.

When compliance is incomplete the Division employs enforcement measures including contacting and visiting permit holders, issuing of Notices of Violation, and Assessment penalties as needed to hold ground water users in the CCPCUA accountable. Over the last five years the enforcement capability of the Division has grown to meet this task. Table 3 summarizes the enforcement proceedings to date.

Permit #	First Notice of Violation Permit # Permit Holder issued Outcome		Outcome	Second Notice of Violation issued	Outcome
CU1044	Dannenberg Farms	2/7/02	Received renewal application 3/23/02		
CU1102	Harrison Aquafarm	11/14/02	Permit Rescinded-no longer in operation		
CU1111	Peace and Plenty	1/7/04	Permit Rescinded 1/13/04-no longer in operation		
CU1027	Fairfield Harbor	3/19/04	Rescinded permit 05/25/04		
CU1094	David W Waters	5/25/04	Received renewal application 8/25/04		
CU1117	Pungo Fisheries	10/12/05	Received renewal application 10/19/05		
CU1123	Country Club of Plymouth	4/3/06	Received renewal application 04/18/06		
CU1128	Cypress Landing Golf Course	4/24/06	Received renewal application 07/17/06		
CU3138	Bell Pit	7/24/06	Received renewal application 07/26/06		
CU1081	Bernard Kornegay	9/7/06	Received renewal application 9/14/06		
CU1101	Cypress Swamp Aquafarm	9/7/06	Received renewal application 10/09/06		
CU3126	Village of Walnut Creek	9/22/06	Received monthly reporting forms		
CU1028	Parson Mine	10/17/06	Received renewal application 11/27/06		
CU3121	Winterville	4/25/07	Civil penalty after remission: \$10,800		
CU3002	Richlands	4/26/07	Rescinded permit - joined w/ ONWASA		
CU3088	Stokes	4/30/07	Civil penalty paid \$3,238.38	3/26/09	Civil penalty paid \$702.08
CU3074	DSM Pharmaceuticals	11/8/07	January 2008 confirmed DSM's measurement of meter reading 150% of actual usage dropped NOV		
CU1090	White Rock Fish Farm	11/4/08	Received renewal application 12/1/08		
CU1104	Selvie James	11/14/08	Received renewal application 12/01/08		
CU3038	Great Pit	11/14/08	Civil penalty assessment of \$5,523.78		
CU3067	Town of Elm City	5/18/09	Received renewal application 6/9/09		
CU3087	Spotted Dog Fish Farm	7/20/09	NOV was returned undelivered. Have not been able to contact him through mail or phone. Need to make a site visit.		

The 2009 legislative session introduced a change to CCPCUA enforcement by adjusting language in the Water Use Act of 1967 to state that fines can be levied up to \$1,000 per day. This is a change from the preexisting \$250 per day limit.

## Water Use

Registration information and permitting requirements have allowed the Division to compile water use information in various ways. Examples of water use data can be found on the Division's web site and in several tables and plots in this report. Use the links provided under the *Query the Data* portion of the Division's CCPCUA web page to access the information on-line (http://www.ncwater.org/Permits and Registration/Capacity Use/Central Coastal Plain/). Table 4 shows county and CCPCUA average daily water use totals for 2007 which is the latest year that includes Department of Agriculture and Consumer Services survey results. It is important to notice the relatively high component of use by permitted users (those withdrawing more than 100,000 gallons per day) compared to registered or surveyed ground water users. Ground water use by permitted users equals over 96% of reported ground water use. Table 4 also shows CCPCUA average daily water use in 2007 aggregated by types of use and aquifer.

Water users are spread throughout the CCPCUA and often have several wells associated with their withdrawals. Figure 4 illustrates the geographic distribution of water users' wells thematically mapped by type of use.

An important goal for the CCPCUA rules is the reduction of Cretaceous aquifer use and increased use of other sources of water. Figure 5 illustrates how current projections produce a reduction by about 67% from the combined ABRs by 2018. The Division will require that permit holders bridge the gap between their demands and their Cretaceous allocation by using alternative water supplies.

## Evaluation of Water Resources

Each permit requires reporting of withdrawals, ground water levels, and in some cases chloride sampling results so that water users will track that information and then DWR makes it available to the public through the Division's website. To access this data, use the links provided under the *Query the Data* area of the CCPCUA web page. Beyond that source of data, DWR is responsible for improving, operating, and maintaining a monitoring well network to gain knowledge of the hydrogeologic framework and to evaluate aquifer use. DWR gives the public access to our understanding of the three-dimensional distribution of aquifers and confining units as well as other information on the Division's website (www.ncwater.org), at the link to the Ground Water Data. Potentiometric surface maps of each major aquifer are available as well as water level data through time for each of the Division's monitoring wells. The September 2008 Central Coastal Plain Capacity Use Area Assessment Report, mentioned previously in this document, also contains a good deal of information about the aquifers.

As one might expect, since water users are still making plans to move to alternative water sources (see section below), water level decline trends documented in 1998 are still prevalent now. As illustrated in the 2008 assessment document, the same areas of dewatering and threats of dewatering documented in 1998 still exist today. Several water systems either have brought on new sources of water or will in the coming months, so progress toward ground water level rebounding is likely.

Salt water encroachment or the threat of encroachment is still a serious issue. In September and October of 2004 and 2007, DWR collected rounds of samples from more than 150 wells in the coastal plain to compare to a similar set of samples analyzed in 1999. Those comparisons along with data from our Time-Domain Electromagnetic (TDEM) soundings, continue to help us map out current fresh water – salt water transition zones in the major aquifers. TDEM is a surface geophysical method of measuring subsurface resistivity described on the Division's website (www.ncwater.org), at the link to Ground Water under Educational & Technical Assistance area.

## Updates to Hydrogeologic Framework

Water level data and new boreholes and geophysical logs help DWR improve our understanding of the hydrogeological framework. Also, many CCPCUA water users provide DWR with information from wells they have installed. This framework establishes the elevations and thicknesses of all the aquifers in the coastal plain. Like the water use information, the DWR hydrogeologic database is available on the Division's website (<u>www.ncwater.org</u>), at the link to the Ground Water Data. In addition, the September 2008 Central Coastal Plain Capacity Use Area Assessment Report documents the Division's hydrogeologic framework knowledge and discusses suggested modifications to the Cretaceous reduction zone boundaries made by permit holders.

## Summary of Alternative Water Sources by Region

There are significant alternative water sources available to water users in the CCPCUA. Some involve considerable investment such as surface water treatment plants. Others are more financially practical, yet involve water treatment beyond the disinfection-only requirements of the Black Creek and Upper Cape Fear aquifers. The *North Carolina Central Coastal Plain Capacity Use Area: Regional Water Resource Study*, written by Golder Associates in 2002, provides helpful information on this subject. Also, the Division publishes a PDF document on the CCPCUA web page that describes the latest plans and projects associated with CCP water users (http://www.ncwater.org/Permits\_and\_Registration/Capacity\_Use/Central\_Coastal\_Plain/stataltsupply\_061908.pdf).

On average, from 2002 to 2009 Cretaceous aquifers supplied 51% of reported public supply needs in the CCPCUA and about 22% of all reported ground water needs. So, even though the Cretaceous aquifers provide a large portion of public supply water, overall, it is a modest amount of the total ground water use. Hence, other ground water sources are available to meet demands with proper planning and water treatment.

The Castle Hayne aquifer is available to water providers where it exists or it becomes part of the surficial aquifer. Figure 6 illustrates the current understanding of the Castle Hayne aquifer's limits. Significant portions of withdrawals from the Cretaceous aquifers can be shifted to the Castle Hayne without harming existing users.

Surface water supplies are available from the Neuse, Tar, and Roanoke Rivers. Regional cooperation by many participants are needed to afford this type of solution. Within the CCP the

Tar River is currently being tapped by Greenville, Tarboro and Rocky Mount. The Neuse River is used by Goldsboro, and in Fall 2008, Kinston and other water providers associated with the Neuse Regional Water and Sewer Authority (NRWASA) brought a surface water intake and treatment plant on-line. Interestingly, ground water levels in a few monitoring well stations near the NRWASA service area are beginning to show improvement due to use of Neuse River water. No water provider is using the Roanoke River within the CCP.

Bedrock wells are a supply option for some of the western portion of the CCP, including Wayne, Wilson and Edgecombe counties.

The Peedee aquifer is available as shown in figure 7, however, significant testing of sands in this aquifer will be required. There are portions of this aquifer that contain isolated sand units. These sands have very limited connection to the rest of the aquifer and thus only offer <u>small</u> users a source of water.

Although the Division has limited information about Yorktown aquifer water availability in the CCP, it may be an alternative water source in Martin, Pitt, Edgecombe, Wilson and Greene Counties.

The surficial aquifer in portions of Wayne, Wilson, Greene, Duplin, and Edgecombe Counties may offer significant yields, especially where it contains sand units that become the confined Black Creek or Upper Cape Fear closer to the coast.

## Actions to Develop Alternative Water Supplies

The following is a list of those alternatives being developed:

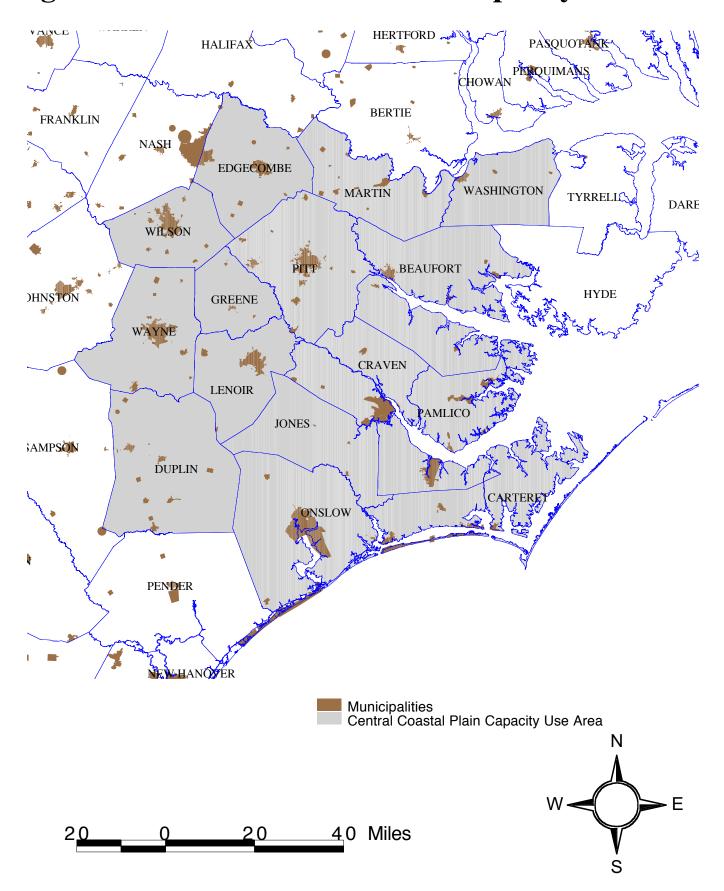
- Neuse Regional Water and Sewer Authority serves Lenoir County, and part of Pitt County with treated Neuse River water. This project became operational in Fall 2008.
- Greenville Utilities will supply treated Tar River water to several new customers including Greene County and the Town of Farmville. Pipelines to these two customers should be complete in late 2009. They also are actively testing the use of aquifer storage and recovery (ASR) to allow them to store vast amounts of treated surface water in confined aquifers. The ASR wellhead and pumps should be complete and in use in late 2009, also.
- Onslow County has constructed well fields in the Castle Hayne and surficial aquifers to augment their water supply. They have plans to expand those well fields.
- New Bern is constructing a Castle Hayne well field and treatment plant.
- Wayne Water Districts have developed bedrock and surficial aquifer well fields.
- City of Jacksonville added Castle Hayne and surficial aquifer well fields and a water treatment plant that will become operational in Fall 2010.
- Several agricultural users plan to construct surface water impoundments.
- Martin County and the Town of Williamston water systems are planning a water treatment plant and intake on the Roanoke River.
- Craven County has constructed new Peedee aquifer wells and is planning a Castle Hayne well field and treatment plant.

- Several water users plan to purchase water from other systems.
- Water reuse and conservation have been proposed by several industries.
- Three permit holders are purchasing water allocations from others to allow for alternative water sources planning and implementation.
- Coastal Clean Power of Duplin County is proposing to construct Peedee aquifer wells

The Division will maintain a PDF document (as described earlier) which has more complete descriptions and costs of the alternative water supplies planned and achieved.

# **Conclusions**

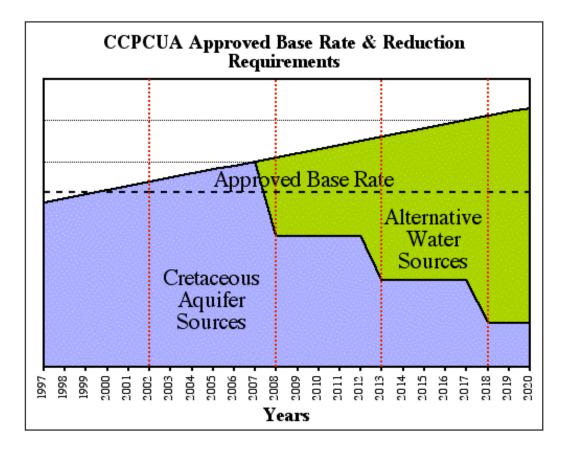
Although the threats of declining water levels, dewatering, and salt water encroachment to the ground water situation in the CCPCUA have not diminished since 2004, <u>significant</u> progress is being made by water users to plan and construct sustainable, alternative water supplies. Whether alternative water supplies are obtained by individual systems using different aquifers, or brought about by groups of users forming alliances to allow for planning and operation of a surface water treatment system, the results will lead to measurable improvements in ground water conditions. The Division will continue to record use of alternative water supplies, carefully track water withdrawals, and measure ground water level improvements using our expanding network of monitoring wells.



# Figure 1. Central Coastal Plain Capacity Use Area

# VANCE HERTFORD PASQUOTANK HALIFAX PERQUIMAN CHOWAN BERTIE FRANKLIN NASH EDGECOMBE WASHINGTON MARTIN TYRRELL DARE WILSON BEAUFORT PITT )HNSTON HYDE GREENE WAYNE VEN CR. LENOIR AMLICO **JONES** AMPSON DUPLIN CARTERET 1 PENDER Cretaceous/Castle Hayne Aquifer Dividing Line Declining Water Level Zone Salt Water Encroachment Zone Dewatering Zone NEW-HANOYER Municipalities Central Coastal Plain Capacity Use Area Ν W-Ε 40 Miles 20 20 S

# **Figure 2. CCPCUA Cretaceous Aquifer Zones**



In this illustration, the applicant has established their approved base rate (ABR) as their August 1, 1999 through July 31, 2000 annual water use and is located in the Dewatering Zone. In 2008, the first 25% reduction is phased in and demand is met by a combination of 75% of the ABR from the Cretaceous aquifer wells and alternative supplies. Further reductions and changes in the levels of use of alternative supplies occur in 2013 and in 2018. In 2018, the permittee has shifted most of their demand to alternative supplies and withdraws a sustainable 25% of the ABR from their Cretaceous wells.

North Carolina Department of Environment and Natural Resources
Division of Water Resources

About DWR - Contact Us - Jobs - News - Staff

Search

## Table 1. Permit Holders in the Central Coastal Plain Capacity Use Area

			Permitted Ground Water Withdrawal	Approved Base Rate		
# Permittee	Permit #		(in MGD)	(IN MGY)	Type of Use	Aquifer
1 AgResource (Grace Farm) 2 Albemarle Beach Farm		Washington Washington	0.504		Irrigation, Agricultural	
3 Alston Spruill Farms	CU3146	0	1.520		Irrigation, Agricultural Irrigation, Agricultural	
American Materials Co., LLC						
4 (Pinner Pit)	CU3117	Pitt	1.400		Mine Dewatering	S
5 American Turf Grass Corporation	CU1122	Washington	3.456		Irrigation, Agricultural	Ту
6 Anderson & Co., Inc Anderson Sand Pit	CU3135	Edgecombe	2.880		Mine Dewatering	S
7 Atlantic Veneer Corporation	CU3127	Carteret	0.432		Industrial, Public Supply	Tch
8 Aurora Fisheries & Hatchery	CU3116	Beaufort	1.080		Aquaculture	Tch
9 Austin Bros. Fisheries, Inc.	CU1103	Beaufort	3.600		Aquaculture	Tch
10 Barnhill Contracting Co. (Boseman Pit)	CU3110	Edgecombe	0.801		Mine Dewatering	s
11 Barry Keats Farm	CU1004	Beaufort	2.160		Aquaculture	Tch
12 Beaufort Co. H2O Districts VI & VII	CU1119	Beaufort	2.520		Public Supply	Tch
13 Belfast-Patetown Sanitary District	CU3082	Wayne	0.191	315.666	Public Supply	Kucf, Br
14 Bell Arthur Water Corporation	CU3077	Pitt		514.461	Public Supply	Kucf
15 Bernard F. Kornegay - Declar. of Trust	CU1081	Washington	0.504		Irrigation, Agricultural	Tch
16 Blue Treasure, LLC	CU3151	Carteret	1.488		Public Supply	Tch
17 Bogue Banks Water Corporation	CU3076	Carteret	5.760		Public Supply	S, Tch, Ty
18 Butterball, LLC	CU3019	Duplin	2.700		Industrial	Kucf
19 Carolina Classics Catfish, Inc.	CU3054	Pitt	0.684		Aquaculture	Kpd, Kbc
20 Carolina Creek LLC	CU3140	Craven	0.720		Irrigation, Golf Course	S, Tch
21 Carolina Fisheries	CU1058	Beaufort	5.160		Aquaculture	Tch
22 Carolina H2O Service - Brandywine Bay	CU3043	Carteret	0.468		Public Supply	Ту
23 Carolina Stone, LLC (Ft.Barnwell Mine)	CU3152	Craven	1.440		Mine Dewatering	S, Tch
24 Carolina Stone, LLC (Grifton Mine)	CU1024	Craven	3.000		Mine Dewatering	S
25 Carolina Water Service - Pine Knoll Shores	CU3105	Carteret	1.200		Public Supply	Tch
26 Casey Nursery, Inc.	CU3062	Wayne	0.310		Irrigation, Agricultural	S
27 Castle Hayne Fisheries, Inc.	CU1073	Beaufort	2.780		Aquaculture	Tch
28 Chinquapin Water Assoc. Inc.	CU3014	Duplin	0.727	57.450	Public Supply	Kbc, Kpd
29 Cieszko Const. Co. (White Hall Pit)	CU3143	Craven	1.440		Mine Dewatering	S
30 City of Havelock	CU1029	Craven	2.800		Public Supply	Tch
31 City of Jacksonville	CU3073	Onslow	6.577	1,481.894	Public Supply	Kpd, Kbc,

							Tch
32	City of Kinston	CU3024	Lenoir		2,545.027	Public Supply	Kbc, Kucf
33	City of New Bern	CU3071	Craven	5.500	1,549.841	Public Supply	Kbc, Kucf, Tch
34	City of Washington	CU1009	Beaufort	6.200		Public Supply	Tch
35	Coastal Carolina Clean Power	CU3160	Duplin	0.065	141.978	Industrial	Kbc, Kpd
	Coastal Plains Catfish	CU1108	Craven	0.518		Aquaculture	Tch
37	Coastal USA Fish Company	CU1096	Carteret	0.280		Aquaculture	S
	Colton Wells Limestone	CU3112	Duplin	0.480		Mine Dewatering	S
	Conetoe Community Water Assoc., Inc.	CU3089	Edgecombe		36.500	Public Supply	Kbc, Kucf
40	Country Club of Plymouth, Inc.	CU1123	Washington	0.200		Irrigation, Golf Course	Tch
41	Craven County Water	CU3108	Craven	0.734	952.791	Public Supply	Kbc, Kucf, Kpd
42	Craven County Wood Energy, L.P.	CU3055	Craven	1.800		Industrial	Tch
43	Craven Pond Inc.	CU1112	Craven	1.008		Aquaculture	Tch
	CWS Systems, Inc Fairfield Harbour	CU1087	Craven	1.050		Public Supply	Tch
45	Cypress Landing Golf Club	CU1128	Beaufort	0.520		Irrigation, Golf Course	Tch
	Cypress Swamp Aquafarm, LLC	CU1101	Beaufort	2.000		Aquaculture	Tch
47	David Waters Farm	CU1094	Beaufort	0.864		Irrigation, Agricultural	Tch
48	Deep Run Water Corporation	CU3050	Lenoir	0.580	562.755	Public Supply	Kpd, Kbc
49	Domtar Paper Company, LLC	CU1120	Martin	3.000		Industrial	S, Ty, Tch
	Don Lee Farms, Inc.	CU3154	Pamlico	1.440		Irrigation, Agricultural	Tch
51	DSM Pharmaceuticals, Inc.	CU3074	Pitt		52.053	Industrial	Kbc, Kucf
	Duplin County Regional Water System	CU3114	Duplin	2.279	454.264	Public Supply	Kbc, Kucf
53	E.I. Dupont de Nemours	CU3022	Lenoir		805.216	Industrial, Public Supply	Kbc, Kucf
	E.R. Lewis Const. (Joyner Mine No. 1)	CU3136	Pitt	0.864		Mine Dewatering	S
	E.R. Lewis Construction (Gaylord Mine)	CU3097	Pitt	1.728		Mine Dewatering	S
	E.R. Lewis Construction (Rosewood Mine)	CU3118		0.864		Mine Dewatering	S
	Eagle Water LLC	CU1130	Beaufort	58.000		Public Water Supplier	
	East Carolina University - Health Sciences Campus	CU3132	Pitt	0.105	58.604	Other	Kucf, Kpd
	East Carolina University - Main Campus	CU3133	Pitt	0.994	39.420	Other	Kbc, Kucf, Kpd
	Eastern Pines Water Corporation	CU3102	Pitt	0.720	742.045	Public Supply	Kpd, Kbc, Kucf
	Eastern Wayne Sanitary District	CU3081	,	0.904		Public Supply	Kbc, Kucf, S
	ECU - North Recreational Complex	CU3147	Pitt	0.360		Other	Ту

63 Emerald Golf Course	CU3155		0.750		Irrigation, Golf Course	
64 Eubanks Pit		Carteret	2.160		Mine Dewatering	S
65 First Craven Sanitary Distri	ct CU1105	Craven	1.476		Public Supply	Tch
66 Fish and Chicks, Inc.	CU3063	Craven	0.360		Aquaculture	Kpd
67 Fork Township Sanitary Dis	trict CU3001	Wayne	1.120	294.826	Public Supply	Kucf, Br
68 GHW Weyerhaeuser Nurse	ry CU1006	Beaufort	2.000		Irrigation, Agricultural	Tch
69 Great Pit-Pretty Good Sand	CU3038	Edgecombe	1.200		Mine Dewatering	S
70 Greene County Regional W System	CU3092	Greene		809.869	Public Supply	Kucf
71 Greenville Country Club	CU3104	Pitt	0.200	36.500	Irrigation, Golf Course	Kucf, Kpd, Ty
72 Greenville Utilities Commiss	sion CU3004	Pitt		439.664	Public Supply	Kbc, Kucf
73 Guilford Mills Inc., Guilford Plant	East CU3094	Duplin		368.932	Industrial	Kbc
74 H L Respass Farms	CU1093	Washington	0.406		Irrigation, Agricultural	Tch
75 Hanson Agg. SE (Elm City	Quarry) CU3078	Wilson	2.160		Mine Dewatering	Br
76 Hanson Aggregates Southe (Neverson Quarry)	CU3029	Wilson	1.653		Mine Dewatering	Br
77 Hanson Aggregates Southe (Rocky Mount Quarry)	cU3030	Edgecombe	2.160		Mine Dewatering	Br
78 Harkers Island Sanitary Dis	trict CU3130	Carteret	0.504		Public Supply	Tch
79 Harris Farms, Inc.	CU3141	Washington	1.008		Mine Dewatering	S
80 Harvey Farms	CU3040	Jones	2.225		Irrigation, Agricultural	Kpd
81 Haugen Co. (Catherine Lak Dirt)	CU3060	Onslow	1.728		Mine Dewatering	S
82 House of Raeford - Wallace	Division CU3093	Duplin	2.000		Industrial	Kbc
83 Howard Pit - Bogue Sound Grade	Septic CU3139	Onslow	1.440		Mine Dewatering	S
84 Island Fisheries	CU1091	Pamlico	2.592		Aquaculture	Tch
85 Jimmie L. Morris & Sons, Ir (Morris Mine)	c. CU1118	Pamlico	0.450		Mine Dewatering	S
86 Jones County Regional Wa System	ter CU3023	Jones	0.396	247.938	Public Supply	Kbc, Kpd
87 Kinston Country Club	CU3018	Lenoir		31.240	Irrigation, Golf Course	Kbc
88 L.B. Page Landscaping, Inc Pit)	CU3138	Onslow	1.440		Mine Dewatering	s
89 Landscape Design of Golds Inc. (Jericho Farms)	sboro, CU3098	Wayne	0.263		Irrigation, Agricultural	S, Br
90 Lawn Pro, Inc.	CU3124	Onslow	0.230		Irrigation, Agricultural	S
91 Lowland Impoundment	CU3153	Pamlico	0.432		Waterfowl Impoundments	Tch
92 Magnolia Golf Course	CU3115	Duplin	0.280		Irrigation, Golf Course	Kbc
93 Manning Farms Inc.	CU1085	Washington	1.296		Irrigation, Agricultural	Tch
94 Marina Village - Snug Harb Sys	or H20 CU3162	Carteret	0.180		Public Supply	Ту
95 Marine Corps Base, Camp	Lejeune CU3080	Onslow	20.500		Public Supply	S, Tch
96 Martin Co. Water and Sewe				260.610	Public Supply	Kucf
97 Martin Co. Water and Sewe	er Dist. CU1129	Martin		183.960	Public Supply	Kbc, Kucf
98 Martin Marietta (Belgrade G	Quarry) CU3031	Jones	11.808		Mine Dewatering	S
99 Martin Marietta (Clarks Qua		Craven	16.000		Mine Dewatering	S, Tch
					5	

100	Martin Marietta (Exploratory)	CU3148	Beaufort	1.400		Mine Dewatering	Tch
101	Martin Marietta (Fountain Quarry)	CU3034	Pitt	2.304		Mine Dewatering	Br
102	Martin Marietta (Onslow Quarry)	CU3032	Onslow	12.770		Mine Dewatering	S, Tch
103	Martin Marietta (Pollocksville Quarry)	CU3036	Jones	20.000		Mine Dewatering	S, Tch
104	Martin Marietta (Wilson Quarry)	CU3035	Wilson	2.304		Mine Dewatering	Br, S
105	McCotter Farms	CU1099	Pamlico	5.500		Irrigation, Agricultural	Tch
	Minnesott Golf and Country Club	CU1023	Pamlico	0.300		Irrigation, Golf Course	Tch
107	Monrovia Growers	CU3061	Lenoir		267.900	Irrigation, Agricultural	Kucf
	Morehead City Country Club	CU3156	Carteret	0.144		Irrigation, Golf Course	Tch
109	Morris Fish Farm, LLC	CU3009	Craven	0.763		Aquaculture	Tch
	Mt. Olive Pickle Company	CU3107	Wayne	0.864		Industrial	Kucf
111	National Spinning CoBeulaville Plant	CU3100	Duplin		25.706	Industrial, Public Supply	Kpd, Kbc
112	NC DOT (R-2510A)	CU4015	Beaufort	0.274		Mine Dewatering	S
113	NCDA Tidewater Research Station	CU1016	Washington	2.412		Irrigation, Agricultural, Aquaculture, Livestock	Ty, Tch
114	NCDOT R-2301A	CU4016	Beaufort			Mine Dewatering	S
	NCDOT R-2554BA	CU4017	Wayne			Mine Dewatering	
	NCDOT R-2719A	CU4018				Mine Dewatering	S
	NCDOT R-3403 A	CU4019				Mine Dewatering	S
	NCDOT U-2928AB	CU4020				Mine Dewatering	S
119	NCDOT U-3826	CU4021	Edgecombe			Mine Dewatering	S
120	NCSU Pamlico Aquaculture Field Lab	CU1031	Beaufort	1.008		Aquaculture	Tch
121	North Lenoir Water Corporation	CU3025	Lenoir		813.550	Public Supply	Kbc, Kucf
122	North River Club G.C.	CU3158	Carteret	0.122		Irrigation, Golf Course	Tch
123	North River Community	CU1109	Carteret	0.677		Public Supply	Tch
124	Northwest Onslow Water Association	CU3005	Onslow	0.454		Public Supply	Kpd
125	Northwestern Wayne Sanitary District	CU3083	Wayne	1.062	90.966	Public Supply	Kucf, Bi
126	One Fish, Two Fish Catfish LLC	CU1114	Beaufort	1.440		Aquaculture	Tch
127	Onslow Water and Sewer Authority	CU3027	Onslow	11.461	2,111.583	Public Supply	Kbc, Kpd, S, Tch
128	Pamlico County Water System	CU1125	Pamlico	3.456		Public Supply	Tch
129	Pamlico Packing Co Inc	CU1034	Pamlico	0.517		Industrial	Tch
	Parson Mine	CU1028	Craven	1.260		Mine Dewatering	S
131	Paul Farms, Inc	CU1057	Pamlico	1.584		Irrigation, Agricultural	Tch
132	PCS Phosphate Co	CU1003	Beaufort	78.000		Mine Dewatering	Tch
	PCS Phosphate Co	CU1007		8.000		Mine Dewatering	S, Tu
134	Penco Products, Inc.	CU3149	Martin		84.145	Industrial	Kucf
135	Perfect Turf Inc.	CU3045	Martin		14.904	Irrigation, Agricultural	Kbc, Kucf
	Pitt County Memorial Hospital	CU3159	Pitt	0.385		Other	Kbc
137	Plymouth Farms, LLC	CU1018	Washington	2.880		Aquaculture	Tch
	Pocosin Lakes Wildlife Refuge	CU1131	Washington	2.160		Waterfowl Impoundments	Tch
139	Pungo Fisheries	CU1117	Beaufort	2.000		Aquaculture	Tch

1	140	R.B.J. Associates (Newport Mine)	CU3122	Carteret	1.440		Mine Dewatering	S
	141	Riverside Sand Co., Inc. (Riverside Sand Pit 3)	CU3068	Duplin	0.120		Mine Dewatering	S
	142	RJ Bushhogging-Mine No.2	CU3131	Craven	2.880		Mine Dewatering	S
		Roanoke Country Club	CU3044			13.824	Irrigation, Golf Course	
		Rogers Nursery & Landscaping, Inc.			0.720		Mine Dewatering	S
		S.T. Wooten Corporation (Briley Pit)			6.200		Mine Dewatering	S
		Sawyer Catfish Farm		Washington	0.504		Aquaculture	Tch
		Selvie James Farm		Washington	0.504		Irrigation, Agricultural	Ту
		Sexton Farm		Washington	1.080		9 . 9	Tch
	149	Smith Farm of Vanceboro LLC	CU3008	Craven	0.792		Aquaculture	Tch
		Southeastern Wayne Sanitary District	CU3006	Wayne	1.901	168.290	Public Supply	Kucf, Kbc
	151	Southern Wayne Sanitary District	CU3106	Wayne	1.499		Public Supply	Kbc, Kucf
	152	Southwestern Wayne Sanitary District	CU3084		0.919		Public Supply	Kucf, Br
		Spencer Farms, Inc.	CU3109		1.692		Irrigation, Agricultural	Tch
		Spotted Dog Fish Farm	CU3087		0.360		Aquaculture	Tch
			CU3088			70.389	Public Supply	Kucf
		Sullivan Fish Farm		Beaufort	0.540		Aquaculture	Tch
	157	Swindell Fish Farms		Beaufort	0.576		Aquaculture	Tch
		T. L. Harris Jr Town of Atlantic Beach		Washington	1.872		J	Tch
		Town of Aurora		Carteret Beaufort	2.500 0.200		Public Supply	Tch Tch
		Town of Ayden	CU3026		0.200	207.636	Public Supply	Kbc,
		Town of Beaufort	0114045	Carteret	4 000		,	Kucf
		Town of Belhaven		Beaufort	1.600		Public Supply	Tch
					1.000		Public Supply	Ty Kbc.
	164	Town of Bethel	CU3070	Pitt		58.333	Public Supply	Kucf
		Town of Beulaville	CU3086		0.180	106.951	Public Supply	Kpd, Kbc
		Town of Black Creek	CU3059	Wilson	1.058		Public Supply	Br
		Town of Calypso	CU3142	•	0.250		Public Supply	Kucf
		Town of Chocowinity		Beaufort	0.702		Public Supply	Tch
		Town of Creswell		Washington	0.288		Public Supply	Ту
		Town of Elm City	CU3067	Wilson	0.536		Public Supply	Br
	171	Town of Faison	CU3058	Duplin	1.674		Public Supply	Kbc, Kucf
	172	Town of Farmville	CU3096	Pitt		574.139	Public Supply	Kbc, Kucf
	173	Town of Greenevers	CU3099	Duplin		36.500	Public Supply	Kbc
	174	Town of Grifton	CU3049	Pitt		103.348	Public Supply	Kbc, Kucf
	175	Town of Hookerton	CU3137	Greene		36.500	Public Supply	Kucf
	176	Town of Kenansville	CU3091	Duplin	0.538		Public Supply	Kbc
	177	Town of La Grange	CU3003	Lenoir		141.355	Public Supply	Kbc, Kucf
	178	Town of Lucama	CU3041	Wilson	0.274		Public Supply	Br
	179	Town of Macclesfield	CU3128	Edgecombe		24.118	Public Supply	Kucf, Klcf

180	Town of Magnolia	CU3012	Duplin	0.270		Public Supply	Kbc
181	Town of Maysville	CU3051		0.173		Public Supply	Tch
	Town of Morehead City		Carteret	3.000		Public Supply	Tch
183		CU3020		2.448		Public Supply	Kucf
184	Town of Newport		Carteret	1.069		Public Supply	Ту
185	Town of Oriental	CU1022	Pamlico	0.360		Public Supply	Tch
186	Town of Pinetops	CU3053	Edgecombe		119.609	Public Supply	Kucf
187	Town of Pink Hill	CU3021	0			Public Supply	Kbc
188	Town of Plymouth	CU1001	Washington	1.200		Public Supply	Tch
189	Town of Pollocksville	CU3125	Jones	0.216		Public Supply	Tch
190	Town of River Bend	CU3052	Craven	1.000		Public Supply	Tch
191	Town of Robersonville	CU3016	Martin		469.059	Public Supply	Kucf
192	Town of Roper	CU1086	Washington	0.350		Public Supply	Tch
193	Town of Rose Hill	CU3010	Duplin	1.440		Public Supply	Kbc, Kucf
194	Town of Snow Hill	CU3072	Greene		233.372	Public Supply	Kucf
195	Town of Stantonsburg	CU3101	Wilson		203.992	Public Supply	Kucf
196	Town of Vanceboro	CU1097	Craven	0.412		Public Supply	Tch
197	Town of Wallace	CU3013	Duplin	2.524		Public Supply	Kbc
198	Town of Warsaw	CU3085	Duplin	1.152		Public Supply	Kbc, Kucf
199	Town of Williamston	CU3066	Martin		393.744	Public Supply	Kbc, Kucf
	Town of Winterville	CU3121			180.709	Public Supply	Kbc
	US Marine Corps Cherry Point	CU1060		8.000		Public Supply	Tch
	Vanguard Farms Inc.	CU1106		3.000		Aquaculture	Tch
	Village of Walnut Creek	CU3126	,		53.124	Public Supply	Kucf
	W.O. White Mine	CU3017		5.184		Mine Dewatering	S
	W.O. White, LLC (J.C. Holton Pit)	CU3129		2.880		Mine Dewatering	S
	Warner's Aquafarm		Beaufort	0.288		Aquaculture	Tch
	Washington County Water System	CU1113	Washington	1.000		Public Supply	Tch
208	West Carteret Water Corporation	CU3090	Carteret	2.606		Public Supply	Tch
209	Weyerhaeuser NR Company	CU1013	Craven	3.000		Industrial, Public Supply	Tch
210	White Rock Fish Farm Inc.	CU1090	Craven	0.448		Aquaculture	Tch
211	Williams Mine	CU3157	Carteret	2.160		Mine Dewatering	S
212	Worthington Farms, Inc.	CU3064	Pitt		117.022	Irrigation, Agricultural	Kbc, Kucf
213	Zelenka Caro-Green Nursery	CU3103		0.700		Irrigation, Agricultural	Br
	al Permitted Ground Water With 0503:	drawals	not subject	477.994			
Tota	al Approved Base Rates:				20,418.636		Legend
Tota	al number of active permits:	213					

NC Division of Water Resources, DENR - 1611 Mail Service Center - Raleigh, NC 27699-1611 Phone: (919)733-4064 - Fax: (919)733-3558

North Carolina Depa	intment of Environ	ment and Natural F	About DWR = Contact Us = Jobs = News = Staff				
Division o	f Water	Resource	s			Search	
Choose a year							
2002	2003	2004	2005	2006	2007	2008	
return to CCPCUA	page						

# Table 2. Registered Facilities in the Central Coastal Plain CapacityUse Area for 2008

Links to Plots of Monthly Average and Maximum Day Water Withdrawals by Registered Facilities for 2008 Beaufort Carteret Craven Duplin Edgecombe Greene Jones Lenoir Martin Onslow Pamlico Pitt Washington Wayne Wilson All plots through 2007 include agricultural registration data from Department of Agriculture CCPCUA surveys

			Number of Days	Use (in	Maximum Daily Use	or Ground	
Registration	ID	County	Used	,	(in MGD)		Type of Use
Barnett Mine 7-56	CUR0113		14		0.090		Mining
Brinn Mine	CUR0108		0	0.000			Mining
Davis Mine	CUR0059		38	0.070			Mining
National Spinning	CUR0109	Beaufort	237	0.013	0.098	G	Industrial
NCSU Pamlico Aquaculture Field Lab	CUR0060		366		0.000		Aquaculture
Southern States-Sasnett Facility	CUR0107	Beaufort	366	0.025	0.040	G	Aquaculture
Atlantic MHP	CUR0104	Carteret	362	0.004	0.027	G	Public Water System
Atlantic MHP II	CUR0078	Carteret	366	0.007	0.023	G	Public Water System
Atlantic Village MHP (Formerly Mann Village MHP)	CUR0032	Carteret	366	0.013	0.037	G	Public Water System
Ballou MHP	CUR0105	Carteret	366	0.010	0.037	G	Public Water System
Coastal USA Fish Company	CUR0061	Carteret	176	1.463	2.016	S	Aquaculture
Dixon Pit	CUR0069	Carteret	363	0.086	0.086	G	Mining
Goose Creek Resort	CUR0031	Carteret	366	0.016	0.053	G	Public Water System
Hunting Estates MHP	CUR0057	Carteret	366	0.005	0.018	G	Public Water System
Merrimon Community	CUR0083	Carteret	366	0.009	0.017	G	Public Water System
Newport Ridge MHP	CUR0033	Carteret	366	0.005	0.017	G	Public Water System
Ocean Spray	CUR0030	Carteret	338	0.011	0.040	G	Public Water System
Snug Harbor on Nelson Bay	CUR0008	Carteret	366	0.016	0.026	G	Public Water System
Star Hill Golf Club	CUR0099	Carteret	125	0.350	0.600	В	Golf Course Irrigation
Carolina Pines Golf Club	CUR0044	Craven	52	0.038	0.038	G	Golf Course Irrigation
							Colf Course

Marris Street Ferry Road Pit         CUR0101         Craven         0         0.000         0.000         G         Demapting, Mining Defaulting, Mining           NCASI Southeastern Aquatic Biology Facility         CUR0000         Craven         0         0.000         0.000         SP coductivity           River Bend Country Club         CUR0000         Craven         214         0.066         0.091         G         Goff Course Irrigation           R1 BUSHHOGGING INC         CUR0086         Craven         362         15.765         22.186         S         Industrial, Public Water System           Weyerhaeuser         CUR0052         Craven         362         15.765         22.186         S         Industrial, Public Water System           Warsaw Feed Mill         CUR0070         Duplin         447         0.002         0.010         G         from a PVS(04-31- 403) to fin a PVS(04-3								
Morins Street Ferry Koad PritCUR0101Claven00.0000.000CDescriptionNCASI Southeastern Aquatic Biology FacilityCUR0002Craven00.0000.000SProductivity ResearchRiver Bend Country ClubCUR0006Craven2140.0660.091GGolf Course IrrigationTaberna Country ClubCUR0066Craven00.0000.000Golf Course IrrigationTaberna Country ClubCUR0052Craven36215.76522.186SMining Other, Changed from a PWS(04-31. 463) to fite protectionWeyerhaeuserCUR0052Craven3660.0300.042GIndustrial, Mining Alta StressNational Spinning Co. LLC - WarsawCUR0012Duplin470.0020.010Gfrom a PWS(04-31. 463) to fite protectionWarsaw Feed MillCUR0012Duplin3660.0300.042GIndustrial, Mining Alta StressA.T. Thompson FarmsCUR0014Edgecombe562.240SAgricultural IrrigatioSilas Smith FarmsCUR0015Edgecombe3660.0120.031GPublic WaterPlant Winstead Mobile TerraceCUR0026Edgecombe3660.0120.031GSystemJason Water CorporationCUR017Greene3660.0520.066GSystemShine Water CorporationCUR013Greene960.0240.032GAgricultural Irrigatio <td>Links at Plantation Harbor</td> <td>CUR0097</td> <td>Craven</td> <td>134</td> <td>0.010</td> <td>0.041</td> <td>В</td> <td></td>	Links at Plantation Harbor	CUR0097	Craven	134	0.010	0.041	В	
National Solumesterin Fulloality         CUR0002         Craven         0         0.000         0.000         S         Productivity Research           River Bend Country Club         CUR0090         Craven         214         0.066         0.091         G         Giff Course Irrigation           RJ BUSHHOGGING INC         CUR0086         Craven         0         0.000         0.000         G         Mining           Taberna Country Club         CUR0114         Craven         199         0.100         0.380         B         Giff Course Irrigation           Weyerhaeuser         CUR0022         Craven         362         15.765         22.186         S         Industrial, Public           Warsaw Feed Mill         CUR0070         Duplin         366         0.030         0.042         G         Industrial, Mining           A.T. Thompson Farms         CUR0071         Edgecombe         36         1.250         2.40         S         Agricultural Irrigatio           Town of Tarboro Water Treatment Plant         CUR0014         Edgecombe         366         2.649         3.675         S         Public Water           Shine Water Corporation         CUR107         Greene         96         0.012         0.032         G         Agricultu	Morris Street Ferry Road Pit	CUR0101	Craven	0	0.000	0.000	G	
River Bend Country Club         CUR0090         Claven         214         0.066         0.091         G         Irrigation           RJ BUSHHOGGING INC         CUR0086         Craven         0         0.000         0.080         Golf Course           Taberna Country Club         CUR0052         Craven         362         15.765         22.186         S         Industrial, Public Water System           National Spinning Co. LLC - Warsaw         CUR0071         Duplin         47         0.002         0.010         G         from a PWS(04-31- 483) to fire protection           Warsaw Feed Mill         CUR0070         Duplin         366         0.030         0.042         G         Industrial, Mining Act. Thompson Farms         CUR0071         Edgecombe         57         2.738         4.176         S         Agricultural Irrigatio           Ninstead Mobile Terrace         CUR0015         Edgecombe         366         0.012         0.031         G         Public Water           Plain         CUR0012         Greene         96         0.024         0.032         G         Agricultural Irrigatio           Ninstead Mobile Terrace         CUR0027         Greene         96         0.024         0.032         G         Agricultural Irrigatio	NCASI Southeastern Aquatic Biology Facility	CUR0002	Craven	0	0.000	0.000	S	Productivity
CalculationConcess <td>River Bend Country Club</td> <td>CUR0090</td> <td>Craven</td> <td>214</td> <td>0.066</td> <td>0.091</td> <td>G</td> <td></td>	River Bend Country Club	CUR0090	Craven	214	0.066	0.091	G	
Taberrial Country ClubCUROT14Claverin1990.1000.380BIrrigationWeyerhaeuserCUR0052Craven36215.76522.186SWater SystemNational Spinning Co. LLC - WarsavCUR0070Duplin470.0020.010Gfrom a PWS(04-31: 463) to fire protectionWarsaw Feed MillCUR0070Duplin3660.0300.042GIndustrial, MiningAT. Thompson FarmsCUR0014Edgecombe361.2502.240SAgricultural IrrigatioSias Smith FarmsCUR0014Edgecombe572.7364.176SAgricultural IrrigatioTown of Tarboro Water TreatmentCUR0015Edgecombe3662.6493.675SPublic WaterPlantCUR0102Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0112Greene3660.0160.022GPublic WaterShine Water CorporationCUR0102Greene960.0240.032GAgricultural IrrigatioYanderford FarmCUR0103Greene960.0220.066GPublic WaterShine Water CorporationCUR0111Greene960.0280.038GAgricultural IrrigatioPubler ShineCUR0103Greene960.0280.038GGold CoursePubler ShineCUR0103Greene960.0280.058GGold Course <tr< td=""><td>RJ BUSHHOGGING INC</td><td>CUR0086</td><td>Craven</td><td>0</td><td>0.000</td><td>0.000</td><td>G</td><td>Mining</td></tr<>	RJ BUSHHOGGING INC	CUR0086	Craven	0	0.000	0.000	G	Mining
WeyernaeuserCUR0032CUR0032Cure36215,76322,166SWater SystemNational Spinning Co. LLC - WarsawCUR0021Duplin470.0020.010Gfrom a PWS(04-31-453)Warsaw Feed MillCUR0070Duplin3660.0300.042GIndustrial, MiningA.T. Thompson FarmsCUR0010Edgecombe361.2502.240SAgricultural IrrigatioSiles Smith FarmsCUR0014Edgecombe661.2154.320SAgricultural IrrigatioTown of Tarboro Water TreatmentCUR0015Edgecombe3662.6493.675SPublic WaterSystemCUR0016Edgecombe3660.0120.031GPublic WaterSystemCUR0012Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0027Greene3660.0620.066GPublic WaterSystemCUR0010Greene960.0240.038GAgricultural IrrigatioJason Water CorporationCUR0027Greene1110.0080.099GMiningVanderford FarmCUR0013Greene910.0580.058GGolf CourseIrrigationCUR0024CuR0034Lenoir910.0580.058GGolf CoursePablic WaterSystem3660.0310.058GPublic WaterSystemSystemCUR0039Martin	Taberna Country Club	CUR0114	Craven	199	0.100	0.380	В	
National Spinning Co. LLC - WarsawCUR0021Duplin470.0020.010Cfrom a PWS(04-31-463) to fire protectionWarsaw Feed MillCUR0070Duplin3660.0300.042CIndustrial, MiningA.T. Thompson FarmsCUR0071Edgecombe561.2502.240SAgricultural IrrigatioSilas Smith FarmsCUR0011Edgecombe572.7364.176SAgricultural IrrigatioSilas Smith FarmsCUR0015Edgecombe661.2154.320SAgricultural IrrigatioTown of Tarboro Water TreatmentPublic WaterSystemSystemSystemSystemPlantCUR0102Greene960.0240.032CPublic WaterSystemCUR0117Greene3660.0160.022GPublic WaterJason Water CorporationCUR0127Greene3660.0520.066GPublic WaterShine Water CorporationCUR0087Greene910.0580.058GGolf CourseYanderford FarmCUR0103Greene910.0580.058GGolf CourseFalling Creek Country ClubCUR0028Martin3660.03210.058GGolf CourseDomtar Paper Company LLCCUR0038Martin3660.0320.060GPublic WaterTown of JamesvilleCUR0040Onslow3660.0310.058GGolf CourseBeacham Apartments #1CUR0	Weyerhaeuser	CUR0052	Craven	362	15.765	22.186	S	
A.T. Thompson FarmsCUR0080Edgecombe361.2502.240SAgricultural IrrigatioLinwood Allen Webb FarmsCUR0071Edgecombe572.7364.176SAgricultural IrrigatioSilas Smith FarmsCUR0014Edgecombe661.2154.320SAgricultural IrrigatioTown of Tarboro Water TreatmentCUR0015Edgecombe3662.6493.675SPublic WaterPlantCUR0026Edgecombe3660.0120.031GPublic WaterSystemCUR0102Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0117Greene3660.0160.022GPublic WaterSystemSystem3660.0160.022GSystemSystemShine Water CorporationCUR0027Greene3660.0160.022GMiningVanderford FarmCUR0087Greene910.0580.058GGolf CourseFalling Creek Country ClubCUR0094Lenoir910.0580.058GGolf CoursePathorityCUR0111Lenoir1236.29913.729SPublic WaterSystemCUR0128Martin3660.0380.069GPublic WaterDomtar Paper Company LLCCUR0039Martin3660.0310.058GPublic WaterBeacham Apartments #1CUR0040Onslow3660.031 <td>National Spinning Co. LLC - Warsaw</td> <td>CUR0021</td> <td>Duplin</td> <td>47</td> <td>0.002</td> <td>0.010</td> <td>G</td> <td>from a PWS(04-31- 463) to fire</td>	National Spinning Co. LLC - Warsaw	CUR0021	Duplin	47	0.002	0.010	G	from a PWS(04-31- 463) to fire
Linwood Allen Webb FarmsCUR0071Edgecombe572.7364.176SAgricultural IrrigatioSilas Smith FarmsCUR0014Edgecombe661.2154.320SAgricultural IrrigatioTown of Tarboro Water TreatmentCUR0015Edgecombe3662.6493.675SPublic WaterPlantCUR0026Edgecombe3660.0120.031GPublic WaterSystemCUR0102Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0117Greene3660.0160.022GPublic WaterSystemCUR0027Greene3660.0520.066GPublic WaterSystemCUR0103Greene960.0280.038GAgricultural IrrigatioTripp Brothers No. 1 MineCUR0087Greene1110.0080.009GMiningVanderford FarmCUR0113Greene960.0280.038GAgricultural IrrigatioNeuse Regional Water and SewerCUR0111Lenoir1236.29913.729SPublic WaterSystemCUR028Martin3660.0350.060GPublic WaterDomtar Paper Company LLCCUR0028Martin3660.0350.060GPublic WaterTown of JamesvilleCUR0040Onslow3660.0350.060GPublic WaterBeacham Apartments #1CUR0040Onslow23	Warsaw Feed Mill	CUR0070	Duplin	366	0.030	0.042	G	Industrial, Mining
Sites Smith FarmsCUR0014Edgecombe661.2154.320SAgricultural IrrigatioTown of Tarboro Water TreatmentCUR0015Edgecombe3662.6493.675SPublic Water SystemWinstead Mobile TerraceCUR0026Edgecombe3660.0120.031GPublic Water SystemHolloman FarmCUR0102Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR017Greene3660.0160.022GSystemShine Water CorporationCUR0027Greene3660.0520.066GPublic Water SystemShine Water CorporationCUR0087Greene3660.0520.066GPublic Water SystemShine Water CorporationCUR0094Lenoir910.0580.038GAgricultural IrrigatioYandeford FarmCUR0094Lenoir910.0580.058GGolf Course IrrigationVandeford FarmCUR0094Lenoir1236.29913.729SSystemDomtar Paper Company LLCCUR0053Martin3660.0350.060GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0310.058GSystemBeacham Apartments #2CUR0039Onslow3660.0310.058Golf Course IrrigationNeth Shore Country ClubCUR0102Onslow2350.0720.900G<	A.T. Thompson Farms	CUR0080	Edgecombe	36	1.250	2.240	S	Agricultural Irrigation
Town of Tarboro Water Treatment PlantCUR0015Edgecombe3662.6493.675SPublic Water SystemWinstead Mobile TerraceCUR0026Edgecombe3660.0120.031GPublic Water SystemHolloman FarmCUR0102Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0117Greene3660.0160.022GPublic Water SystemShine Water CorporationCUR0027Greene3660.0520.066GPublic Water SystemShine Water CorporationCUR0027Greene3660.0520.066GPublic Water SystemTripp Brothers No. 1 MineCUR0087Greene1110.0080.009GMiningVandeford FarmCUR0113Greene960.0280.038GAgricultural Irrigatio furgationFalling Creek Country ClubCUR0111Lenoir1236.29913.729SPublic Water SystemDomtar Paper Company LLCCUR0028Martin3660.0350.060GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0310.58GPublic Water SystemBeacham Apartments #2CUR0010Onslow3660.0310.58GPublic Water SystemM&M Land DevelopmentCUR0102Onslow3660.0300.553GGolf Course IrrigationNorth Shore Country Club	Linwood Allen Webb Farms	CUR0071	Edgecombe	57	2.736	4.176	S	Agricultural Irrigation
PlantCUROUTS EdgeConfibe3662.6493.673SSystemWinstead Mobile TerraceCUR0026Edgecombe3660.0120.031GPublic Water SystemHolloman FarmCUR0102Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0127Greene3660.0160.022GPublic Water SystemShine Water CorporationCUR0027Greene3660.0520.066GPublic Water SystemTripp Brothers No. 1 MineCUR0087Greene960.0280.038GAgricultural IrrigatioVanderford FarmCUR0103Greene960.0280.038GAgricultural IrrigatioPathorityCuR0111Lenoir910.0580.058GGolf Course IrrigationNeuse Regional Water and Sewer AthorityCUR0111Lenoir1236.29913.729SPublic Water SystemDomtar Paper Company LLCCUR0053Martin3660.0380.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0310.058GPublic Water SystemM&M Land DevelopmentCUR0120Onslow2360.0720.090GOther, filling pond SystemNorth Shore Country ClubCUR012Onslow3660.0310.059GPublic Water SystemM&M Land DevelopmentCUR012Onslow2400.	Silas Smith Farms	CUR0014	Edgecombe	66	1.215	4.320	S	Agricultural Irrigation
Winstead Mobile TerraceCUR0026 Edgecombe3660.0120.031GSystemHolloman FarmCUR0102 Greene960.0240.032GAgricultural IrrigatioJason Water CorporationCUR0117Greene3660.0160.022GPublic WaterShine Water CorporationCUR0027Greene3660.0520.066GPublic WaterShine Water CorporationCUR0027Greene1110.0080.009GMiningVanderford FarmCUR0087Greene960.0280.038GAgricultural IrrigatioVanderford FarmCUR0094Lenoir910.0580.058GGolf CourseFalling Creek Country ClubCUR0094Lenoir1236.29913.729SPublic WaterNeuse Regional Water and Sewer AthorityCUR0111Lenoir1236.29913.729SPublic WaterTown of JamesvilleCUR0028Martin3660.0380.069GPublic WaterBeacham Apartments #1CUR0040Onslow3660.0310.058GPublic WaterNorth Shore Country ClubCUR012Onslow2350.0720.900GOther, filling pondNorth Shore Country ClubCUR012Onslow3660.0310.059GPublic WaterSystemCUR0102Onslow3660.0300.059GOther, filling pondNorth Shore Country ClubCUR012	Town of Tarboro Water Treatment Plant	CUR0015	Edgecombe	366	2.649	3.675	S	
Jason Water CorporationCUR0117Greene3660.0160.022GPublic Water SystemShine Water CorporationCUR0027Greene3660.0520.066GPublic Water SystemTripp Brothers No. 1 MineCUR0087Greene1110.0080.009GMiningVanderford FarmCUR0103Greene960.0280.038GAgricultural IrrigatioFalling Creek Country ClubCUR0094Lenoir910.0580.058GGolf Course IrrigationNeuse Regional Water and Sever 	Winstead Mobile Terrace	CUR0026	Edgecombe	366	0.012	0.031	G	
Jason Water CorporationCUR0117 Greene3660.0160.022GSystemShine Water CorporationCUR0027 Greene3660.0520.066GPublic Water SystemTripp Brothers No. 1 MineCUR0087 Greene1110.0080.009GMiningVanderford FarmCUR0103 Greene960.0280.038GAgricultural IrrigatioFalling Creek Country ClubCUR0111Lenoir1236.29913.729SSystemNeuse Regional Water and Sever AthorityCUR0111Lenoir1236.29913.729SSystemDomtar Paper Company LLCCUR0053 Martin36663.792102.640SIndustrialTown of JamesvilleCUR0028Martin3660.0350.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemNorth Shore Country ClubCUR0092Onslow2400.0530.053GGolf Course IrrigationSherwood MHPCUR0112Onslow1440.0680.068GMiningWillis PitCUR0100Pamlico1020.0090.010GMiningRichard G. Stilley MineCUR0108Pitt880.3870.800SGolf Course IrrigationWillis PitCuroutry Club <td>Holloman Farm</td> <td>CUR0102</td> <td>Greene</td> <td>96</td> <td>0.024</td> <td>0.032</td> <td>G</td> <td>Agricultural Irrigation</td>	Holloman Farm	CUR0102	Greene	96	0.024	0.032	G	Agricultural Irrigation
Shine water CorporationCUR0027Greene3660.0520.066GSystemTripp Brothers No. 1 MineCUR0087Greene1110.0080.009GMiningVanderford FarmCUR0103Greene960.0280.038GAgricultural IrrigatioFalling Creek Country ClubCUR0094Lenoir910.0580.058GGolf CourseNeuse Regional Water and Sewer AthorityCUR0111Lenoir1236.29913.729SPublic Water SystemDomtar Paper Company LLCCUR0053Martin36663.792102.640SIndustrialTown of JamesvilleCUR0028Martin3660.0380.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0039Onslow2350.0720.900GOther, filling pond IrrigationNorth Shore Country ClubCUR012Onslow2400.0530.053GGolf Course IrrigationSherwood MHPCUR0115Onslow1440.0680.068GMiningWillis PitCUR0109Punlico1020.0090.010GMiningBrook Valley Country ClubCUR0085Pit880.3870.800SGolf Course Irrigation	Jason Water Corporation	CUR0117	Greene	366	0.016	0.022	G	
Vanderford FarmCUR0103Greene960.0280.038GAgricultural IrrigatioFalling Creek Country ClubCUR0094Lenoir910.0580.058GGolf CourseNeuse Regional Water and Sewer AthorityCUR0111Lenoir1236.29913.729SSystemDomtar Paper Company LLCCUR0053Martin36663.792102.640SIndustrialTown of JamesvilleCUR0028Martin3660.0350.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0350.060GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0092Onslow2350.0720.090GOther, filling pond North Shore Country ClubCUR0012Onslow2400.0530.053GGolf Course IrrigationSherwood MHPCUR0112Onslow3660.0300.059GPublic Water SystemWillis PitCUR0100Pamlico1020.0090.010GMiningRichard G. Stilley MineCUR0085Pitt880.3870.800SGolf Course Irrigation	Shine Water Corporation	CUR0027	Greene	366	0.052	0.066	G	
Falling Creek Country ClubCUR0094Lenoir910.0580.058GGolf Course IrrigationNeuse Regional Water and Sewer AthorityCUR0111Lenoir1236.29913.729SPublic Water SystemDomtar Paper Company LLCCUR0053Martin36663.792102.640SIndustrialTown of JamesvilleCUR0028Martin3660.0380.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0350.060GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GOther, filling pondNorth Shore Country ClubCUR0012Onslow2400.0530.059GPublic Water SystemSherwood MHPCUR0115Onslow1440.0680.068GMiningWillis PitCUR0109Publico1020.0090.010GMiningRichard G. Stilley MineCUR0085Pitt880.3870.800SGolf Course IrrigationBrook Valley Country ClubCUR0085Pitt880.3870.800SGolf Course Irrigation	Tripp Brothers No. 1 Mine	CUR0087	Greene	111	0.008	0.009		Mining
Failing Creek Country ClubCUROUS4Lenoir910.0580.058CIrrigationNeuse Regional Water and Sewer AthorityCUR0111Lenoir1236.29913.729SPublic Water SystemDomtar Paper Company LLCCUR0053Martin36663.792102.640SIndustrialTown of JamesvilleCUR0028Martin3660.0380.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0350.060GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0106Onslow2350.0720.090GOther, filling pondNorth Shore Country ClubCUR0012Onslow2400.0530.053GGolf Course IrrigationSherwood MHPCUR0115Onslow1440.0680.068GMiningWillis PitCUR0100Pamlico1020.090.010GMiningBrook Valley Country ClubCUR085Pit880.3870.800SGolf Course Irrigation	Vanderford Farm	CUR0103	Greene	96	0.028	0.038	G	Agricultural Irrigation
AthorityCUROTTI Lenoir1236.29913.729SSystemDomtar Paper Company LLCCUR0053 Martin36663.792102.640SIndustrialTown of JamesvilleCUR0028 Martin3660.0380.069GPublic Water SystemBeacham Apartments #1CUR0040 Onslow3660.0350.060GPublic Water SystemBeacham Apartments #2CUR0039 Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0039 Onslow3660.0310.058GPublic Water SystemM&M Land DevelopmentCUR0106 Onslow2350.0720.090GOther, filling pond North Shore Country ClubCUR0092 Onslow2400.0530.053GGolf Course IrrigationSherwood MHPCUR0112 Onslow3660.0300.059GPublic Water SystemWillis PitCUR0115 Onslow1440.0680.068GMiningRichard G. Stilley MineCUR0085Pitt880.3870.800SGolf Course IrrigationBrook Valley Country ClubCUR085Pitt880.3870.800SGolf Course Irrigation	Falling Creek Country Club	CUR0094	Lenoir	91	0.058	0.058	G	Irrigation
Town of JamesvilleCUR0028Martin3660.0380.069GPublic Water SystemBeacham Apartments #1CUR0040Onslow3660.0350.060GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemM&M Land DevelopmentCUR0106Onslow2350.0720.090GOther, filling pondNorth Shore Country ClubCUR0092Onslow2400.0530.053GGolf Course IrrigationSherwood MHPCUR0112Onslow3660.0300.059GPublic Water SystemWillis PitCUR0115Onslow1440.0680.068GMiningBrook Valley Country ClubCUR0085Pitt880.3870.800SGolf Course Irrigation	Neuse Regional Water and Sewer Athority	CUR0111	Lenoir		6.299			
Town of JamesvilleCUR0028 Martin3660.0380.089CSystemBeacham Apartments #1CUR0040Onslow3660.0350.060GPublic Water SystemBeacham Apartments #2CUR0039Onslow3660.0310.058GPublic Water SystemM&M Land DevelopmentCUR0106Onslow2350.0720.090GOther, filling pondNorth Shore Country ClubCUR0092Onslow2400.0530.053GGlof Course IrrigationSherwood MHPCUR0112Onslow3660.0300.059GPublic Water 	Domtar Paper Company LLC	CUR0053	Martin	366	63.792	102.640	S	
Beacham Apartments #1       CUR0040 Onslow       366       0.035       0.060       G       System         Beacham Apartments #2       CUR0039       Onslow       366       0.031       0.058       G       Public Water System         M&M Land Development       CUR0106       Onslow       235       0.072       0.090       G       Other, filling pond         North Shore Country Club       CUR0092       Onslow       240       0.053       0.053       G       Golf Course Irrigation         Sherwood MHP       CUR0112       Onslow       366       0.030       0.059       G       Public Water System         Willis Pit       CUR0115       Onslow       144       0.068       0.068       G       Mining         Richard G. Stilley Mine       CUR0085       Pitt       88       0.387       0.800       S       Golf Course Irrigation         Brook Valley Country Club       CUR085       Pitt       88       0.387       0.800       S       Golf Course Irrigation	Town of Jamesville	CUR0028	Martin	366	0.038	0.069	G	System
Beacham Apartments #2       CUR0039 Onslow       366       0.031       0.058       G       System         M&M Land Development       CUR0106       Onslow       235       0.072       0.090       G       Other, filling pond         North Shore Country Club       CUR092       Onslow       240       0.053       0.053       G       Golf Course Irrigation         Sherwood MHP       CUR012       Onslow       366       0.030       0.059       G       Public Water System         Willis Pit       CUR0115       Onslow       144       0.068       0.068       G       Mining         Richard G. Stilley Mine       CUR0085       Pitt       88       0.387       0.800       S       Golf Course Irrigation	Beacham Apartments #1	CUR0040	Onslow	366	0.035	0.060	G	System
North Shore Country Club       CUR0092 Onslow       240       0.053       0.053       G       Golf Course Irrigation         Sherwood MHP       CUR0012 Onslow       366       0.030       0.059       G       Public Water System         Willis Pit       CUR0115 Onslow       144       0.068       0.068       G       Mining         Richard G. Stilley Mine       CUR0100       Pamlico       102       0.009       0.110       G       Mining         Brook Valley Country Club       CUR085       Pitt       88       0.387       0.800       S       Golf Course Irrigation	Beacham Apartments #2						-	System
Norm shore Country Club     CUR0052 Onside     240     0.053     0.053     0.053     0.053     Irrigation       Sherwood MHP     CUR0012 Onslow     366     0.030     0.059     G     Public Water System       Willis Pit     CUR0115 Onslow     144     0.068     0.068     G     Mining       Richard G. Stilley Mine     CUR0100     Pamlico     102     0.009     0.010     G     Mining       Brook Valley Country Club     CUR085     Pitt     88     0.387     0.800     S     Golf Course Irrigation	M&M Land Development	CUR0106	Onslow	235	0.072	0.090	G	• •
Sherwood MHP     CUR0012 Onslow     366     0.030     0.059     G     System       Willis Pit     CUR0115 Onslow     144     0.068     0.068     G     Mining       Richard G. Stilley Mine     CUR0100 Pamlico     102     0.009     0.010     G     Mining       Brook Valley Country Club     CUR0085     Pitt     88     0.387     0.800     S     Golf Course Irrigation	North Shore Country Club	CUR0092	Onslow	240	0.053	0.053	G	Irrigation
Richard G. Stilley Mine         CUR0100         Pamlico         102         0.009         0.010         G         Mining           Brook Valley Country Club         CUR085         Pitt         88         0.387         0.800         S         Golf Course Irrigation	Sherwood MHP	CUR0012	Onslow	366	0.030	0.059		
Brook Valley Country Club CUR0085 Pitt 88 0.387 0.800 S Golf Course Irrigation	Willis Pit							Ũ
Brook Valley Country Club CUR0085 Pitt 88 0.387 0.800 S Irrigation	Richard G. Stilley Mine	CUR0100	Pamlico	102	0.009	0.010	G	Ũ
Greenville Utilities Commission CLIDODEA Diff 366 13 143 20 152 C Public Water	Brook Valley Country Club	CUR0085	Pitt	88	0.387	0.800	S	Irrigation
	Greenville Utilities Commission		Ditt	366	13 1/3	20 152	c	Public Water

Water Treatment Plant	00110004	гш	500	13.143	20.152	3	System
JP Davenport & Son	CUR0018	Pitt	9	2.282	2.282	S	Agricultural Irrigation
Laughinghouse Farms, Inc.	CUR0020	Pitt	60	0.041	0.061	В	Agricultural Irrigation
Town of Grimesland	CUR0003	Pitt	366	0.039	0.088	G	Public Water System
Weyerhaeuser Greenville Lumber Facility	CUR0019	Pitt	366	0.041	0.041	G	Industrial
Town of Creswell	CUR0058	Washington	366	0.038	0.156	В	Public Water System, Other, Flood Control
Claridge State Forest Nursery	CUR0048	Wayne	172	0.468	0.720	S	Other, Forest Tree Seedling Nursery
Goldsboro Water Treatment Plant	CUR0062	Wayne	366	4.645	6.223	S	Public Water System
H. F. Lee Steam Electric Plant	CUR0001	Wayne	147	17.570	17.570	s	Industrial, Other, Thermal Electric Power
Lane Tree Golf Club	CUR0098	Wayne	176	0.243	0.435	S	Golf Course Irrigation
Walnut Creek Country Club	CUR0050	Wayne	0	0.000	0.000	S	Golf Course Irrigation
City of Wilson Water Treatment Plant	CUR0063	Wilson	366	8.923	13.479	S	Public Water System
Fairview Nursery, Inc.	CUR0079	Wilson	201	0.947	31.900	S	Agricultural Irrigation
Happy Valley Country Club	CUR0096	Wilson	72	0.016	0.016	В	Golf Course Irrigation
Old Saratoga, Inc.	CUR0022	Wilson	293	0.033	0.088	G	Industrial
Sharp Farms, Inc.	CUR0043	Wilson	409	0.086	0.272	В	Agricultural Irrigation, Livestock, Other, spraying crops
Town of Saratoga	CUR0036	Wilson	368	0.015	0.057	G	Public Water System
Wilson Country Club	CUR0095	Wilson	70	0.156	0.592	S	Golf Course Irrigation
Zelenka Nursery LLC - Farm A	CUR0065	Wilson	341	1.262	3.222	S	Agricultural Irrigation
Zelenka Nursery LLC - Farm B	CUR0066	Wilson	233	0.114	0.200	S	Agricultural Irrigation
Zelenka Nursery LLC - Farm C	CUR0067	Wilson	298	0.175	0.430	S	Agricultural Irrigation
Total Average Daily Registered	Water Wit	hdrawals:		123.252			
Total Average Daily Registered	awals:	0.779					
Total Average Daily Registered	Surface W	ater Withdra	awals:	122.474			
Total number of active registra	tions:	72					

NC Division of Water Resources, DENR - 1611 Mail Service Center - Raleigh, NC 27699-1611 Phone: (919)733-4064 - Fax: (919)733-3558 Last Modified: 06.03.2009

# Table 4. Central Coastal Plain Capacity Use Area 2007 Water Withdrawal Summary Tables (compiled 06-15-2009, units are gallons per day)

### **County Table**

	Permitted		Reported for 2007			
	Current Pe	ermit Limits	Grour	Surface Water		
County	max daily	yearly (ABRs)	by permit	by registration	by registration	
Beaufort	131,231,600		71,698,975	23,031	273,600	
Carteret	27,790,600		5,062,564	176,735	989,118	
Craven	70,392,940	6,856,525	24,630,876	485,641	17,407,267	
Duplin	16,678,800	3,265,156	8,387,454	1,599,855		
Edgecombe	7,040,640	493,773	388,866	11,589	3,648,995	
Greene	864,000	2,958,195	1,783,074	269,937	370,098	
Jones	34,817,600	679,282	8,743,170	181,984		
Lenoir	580,320	14,256,285	8,485,484	293,587	575,093	
Martin	3,000,000	3,991,086	2,453,258	79,507	64,429,507	
Onslow	56,600,320	9,845,143	23,670,438	259,529		
Pamlico	19,763,000		1,643,297	1,945		
Pitt	10,000,040	8,751,573	6,380,804	270,721	14,845,767	
Washington	23,144,080		1,778,556	63,146		
Wayne	11,479,600	4,385,570	5,289,263	701,562	15,723,963	
Wilson	8,684,800	558,883	1,161,488	150,905	13,241,021	
Totals:	422,068,340	56,041,470	171,557,569	5,471,599*	140,199,848*	

\*Totals may include additional water use not reported in county totals because of Department of Agriculture nondisclosure policy.

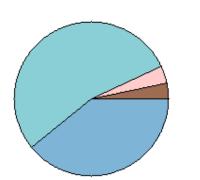
#### **Aquifer Table**

	Permitted	Reported for 2007		
	Current Pe	Ground Water		
Aquifer	max daily	yearly (ABRs)	by permit	by registration
Bedrock	14,960,100		1,932,573	261,606
Black Creek	12,019,420	26,041,584	25,695,644	285,162
Peedee	15,089,873	3,999,919	2,178,945	91,556
Upper Cape Fear	11,693,800	25,966,928	19,345,368	450,633
Lower Cape Fear		33,038	15,867	
Surficial	107,539,233		25,843,198	1,278,798
Castle Hayne	243,694,913		95,422,940	1,198,714
Beaufort			4,630	117,076
Upper Tertiary	4,000,000		172,380	
Yorktown	13,071,000		946,023	111,932
Totals:	422,068,340	56,041,470	171,557,569	5,471,599

### Type of Use Table

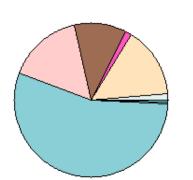
Pe	Reported for 2007				
	Current Permit Limits		Groun	Surface Water	
Type of Use	max daily	yearly (ABRs)	by permit	by registration	by registration
Agricultural	68,623,520	1,095,414	5,701,357	4,042,890	15,665,308
Golf Course Irrigation	3,870,720	223,464	167,049	550,377	1,892,843
Industrial	14,377,800	4,049,398	6,180,503	106,766	81,836,774
Mine Dewatering	207,439,480		92,210,294	243,589	
Other	4,435,720	268,560	108,697	1,337	
Public Water Supply	123,321,100	50,404,633	67,189,669	526,640	31,514,484
Thermal Electric Power					9,290,438
Totals:	422,068,340	56,041,470	171,557,569	5,471,599	140,199,848

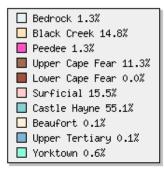
#### CCPCUA Reported Ground Water Withdrawals by Type of Use



🔲 Agricultural 3.3%
📕 Golf Course Irrigation 0.1%
🔲 Industrial 3.6%
🔲 Mine Dewatering 53.7%
🗌 Other 0.1%
🔲 Public Water Supply 39.2%
Thermal Electric Power 0.0%

### CCPCUA Reported Ground Water Withdrawals by Aquifer





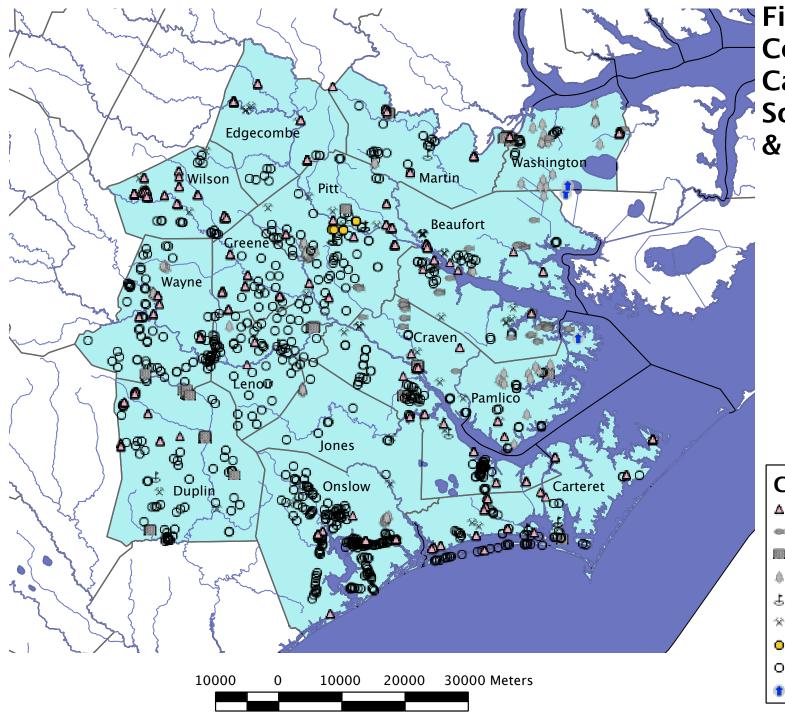


Figure 4. Central Coastal Plain Capacity Use Area Source Locations & Types of Use

CCPCUA Types of Use

- Registrations
- Aquaculture
- 🔳 Industrial
- Irrigation, Agricultural
- 🕹 Irrigation, Golf Course
- \* Mine Dewatering
- Other
- O Public Supply
- Waterfowl Impoundments

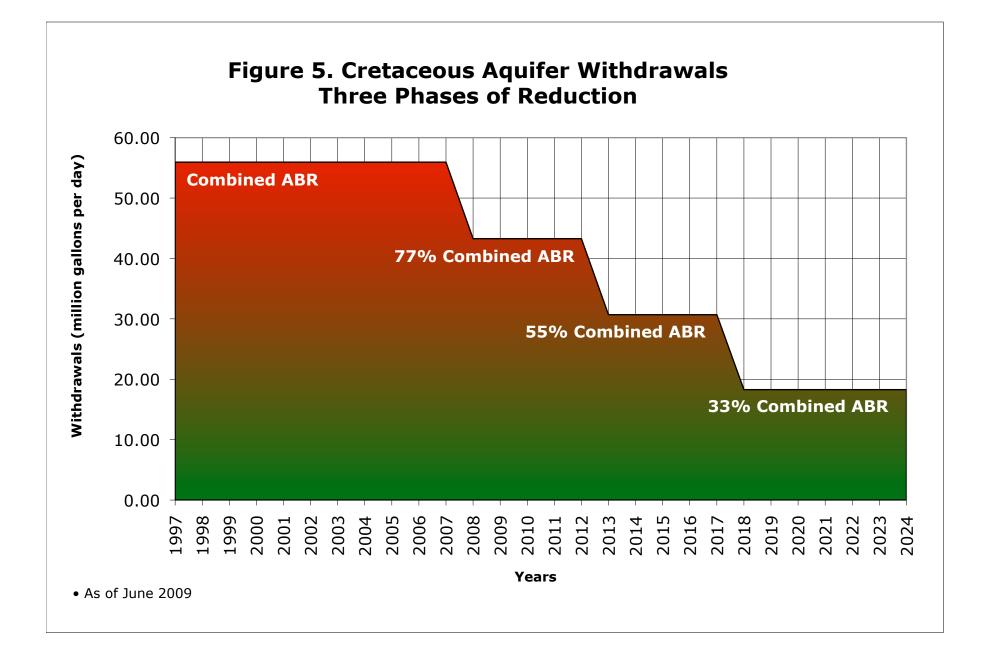


Figure 6. Castle Hayne Aquifer Map (contour elevations in feet above and below mean sea level)

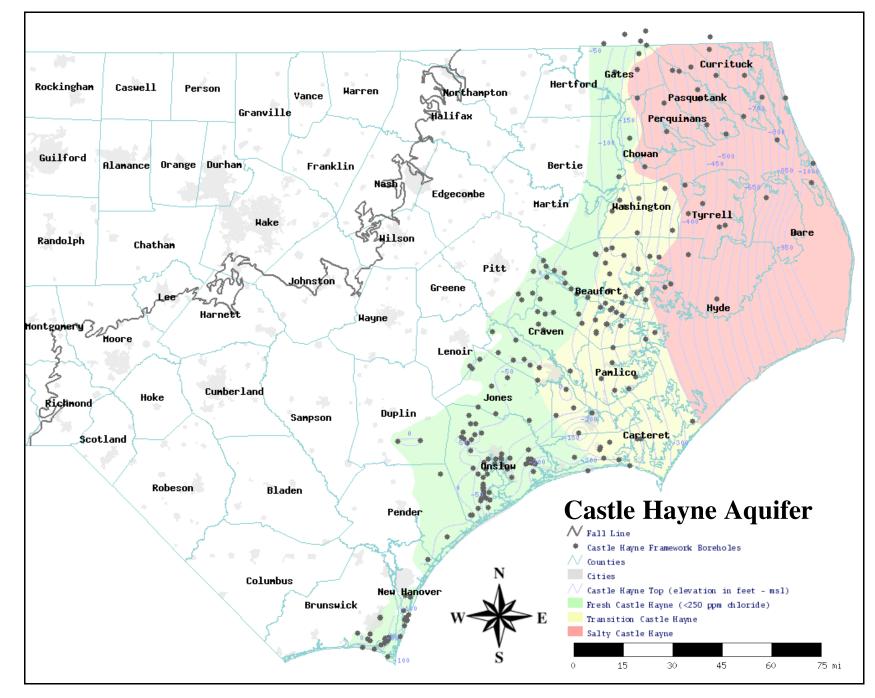


Figure 7. Peedee Aquifer Map (contour elevations in feet above and below mean sea level)

