North Carolina



WELLHEAD PROTECTION PLAN

CARTERET COUNTY, NORTH CAROLINA PWS ID# 04-16-020



Mr. Scotty Rollins, ORC Town of Newport P.O. Box 1869 200 Howard Blvd. Newport, NC 28570 (252) 223-4749 APRIL 13, 2017 REVISION 2



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Date: May 11, 2017

Mr. Gale Johnson, P.G. Public Water Supply Section 1634 Mail Service Center Raleigh, North Carolina 27699-1634

Dear Mr. Johnson:

Subject: Town of Newport Wellhead Protection Plan Update

Please find attached a copy of the Wellhead Protection Plan update for the Town of Newport (PWS ID: 04-16-020) and evidence of the public notice published in *The Carteret County News-Times* on April 23, 2017. Data, formatting, and current operations were updated as necessary. The Wellhead Protection Committee has reviewed and accepted this version of the plan. The Utilities Director, Deputy Utilities Director, or the Director's appointee has the authority to implement the plan and to approve any revisions that may be necessary to obtain approval and may seek assistance from NC Rural Water Association as necessary.

As Town Manager and a member of the wellhead protection committee, I have the authority from the Mayor to submit this plan for approval. Thank you in advance for your review of the plan.

angels Christian

Angela Christian Town of Newport

Cc: Alicia Melton, NCRWA

Attachment: Copy of Public Notice

Wellhead Protection Plan Update for the Town of Newport

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BACKGROUND

In 1986, Safe Water Drinking Act (SWDA) amendments added Section 1428, "State Programs to Establish Wellhead Protection Areas", which requires each state to develop a program to "protect wellhead areas within their jurisdiction from contaminants which may have any adverse effects on the health of persons." The term wellhead protection area is defined in the law as "the surface and subsurface area surrounding a water well or well field, supplying a public water system, through which contaminants are reasonably likely to move toward and reach such water well or well field." North Carolina's Environmental Protection Agency (EPA) approved Wellhead Protection Program (WHPP) provides technical support to local governments and public water supply systems in their endeavors to develop and implement their own Wellhead Protection Plans.

North Carolina's objective in developing a protection plan is to provide a process for public water system operators to learn more about their groundwater systems and how to protect them. Wellhead Protection Plans allow communities to take charge of protecting the quality of their drinking water by identifying and carefully managing areas that supply groundwater to their public wells.

Regulations of the **Division of Water Resources (DWR), under the Department of Environment Quality** require wellhead protection measures for any public water supply wells to be used as a community or non-transient, non-community water system to meet the following requirements:

- (1) The well shall be located on a lot so that the area within 100 feet of the well shall be owned or controlled by the person supplying the water. The supplier of water shall be able to protect the well lot from potential sources of pollution and to construct landscape features for drainage and diversion of pollution.
- (2) The minimum horizontal separation between the well and known potential sources of pollution shall be as follows:
 - (a) 100 feet from any sanitary sewage disposal system, sewer, or a sewer pipe unless the sewer is constructed of water main materials and joints, in which case the sewer pipe shall be at least 50 feet from the well;
 - (b) 200 feet from a subsurface sanitary sewage treatment and disposal system designed for 3000 or more gallons of wastewater a day flows, unless it is determined that the well water source utilizes a confined aquifer:
 - (c) 500 feet from a septage disposal site;
 - (d) 100 feet from buildings, mobile homes, permanent structures, animal houses or lots, or cultivated areas to which chemicals are applied;
 - (e) 100 feet from surface water;
 - (f) 100 feet from a chemical or petroleum fuel underground storage tank with secondary containment;

- (g) 500 feet from a chemical or petroleum fuel underground storage tank without secondary containment;
- (h) 500 feet from the boundary of a ground water contamination area;
- 500 feet from a sanitary landfill or non-permitted non-hazardous solid waste disposal site;
- (j) 1000 feet from a hazardous waste disposal site or in any location which conflicts with the North Carolina Hazardous Waste Management Rules cited as 15A NCAC 13A;
- (k) 300 feet from a cemetery or burial ground; and
- (l) 100 feet from any other potential source of pollution.
- (3) The Department may require greater separation distances or impose other protective measures then necessary to protect the well from pollution; the Department shall consider as follows:
 - (a) The hazard or health risk associated with the source of pollution;
 - (b) The proximity of the potential source to the well;
 - The type of material, facility or circumstance that poses the source or potential source of pollution;
 - (d) The volume or size of the source or potential source of pollution;
 - (e) Hydrogeological features of the site which could affect the movement of contaminants to the source water:
 - (f) The effect which well operation might have on the movement of contamination:
 - (g) The feasibility of providing additional separation distances or protective measures.
- (4) The lot shall be graded or sloped so that surface water is diverted away from the wellhead. The lot shall not be subject to flooding.
- (5) When the supplier of water is unable to locate water from any other approved source and when an existing well can no longer provide water that meets the requirement of this Subchapter, a representative of the Division may approve a smaller well lot and reduced separation distances for temporary use.

In addition, communities are encouraged to establish wellhead protection plans, which include the following:

- (1) The formation of a wellhead protection committee to establish and implement the wellhead protection program whose role it is to conduct a potential contaminant source inventory, provide options for the management of the WHP area, seek public input into the creation of the WHP plan, seek approval of the WHP program and to implement the WHP program;
- (2) Delineation of the contributing areas of the water sources;
- (3) Identification of potential contamination sources within the wellhead protection area;

- (4) Develop and implement wellhead protection area management actions to protect the water sources;
- (5) Develop an emergency contingency plan for alternative water supply sources in the event the groundwater supply becomes contaminated and emergency response planning for incidents that may impact water quality;
- (6) Development of a public education program;
- (7) Conduct new water source planning to insure the protection of new water source locations and to augment current supplies.

Wellhead protection for public water supply wells is a voluntary program, but water systems across the state are encouraged to take the above steps in protecting all groundwater sources.

The Public Water Supply Section (PWSS) provides the final approval for WHP Programs. The NC Wellhead Protection Program Coordinator is:

M. Gale Johnson, L.G. Public Water Supply Section 1634 Mail Service Center Raleigh, North Carolina 27699-1634

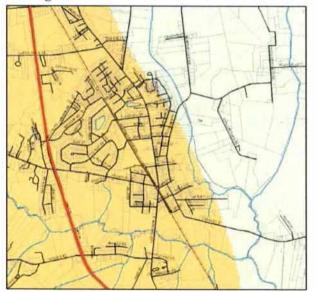
Phone: 919-707-9083 Fax: 919-715-4374

INTRODUCTION

The Town of Newport is located in west-central Carteret County, in the central coastal plain of North Carolina, between Havelock and Morehead City. Newport was officially chartered in 1866. Although the crossroads community on the Newport River was known by that name decades earlier, the area was also known as Bell's Corner and Shepardsville in earlier years. It was the location of the Newport Barracks, a Union camp during the American Civil War. Today, Newport is a close-knit community that maintains it small town charm with a population of approximately 4,150 residents (2010 census). Many of the residents are military families connected to the Cherry Point Marine Corps Air Station just 7 miles away in



Havelock. Since Newport is a mere 5 mile drive to Morehead City along Highway 70, it is an attractive destination for those wanting and seeking a family friendly community with easy driving distance to the beach. Residents and visitors enjoy the annual Pig Cooking



1985 Geologic Map of NC, Newport Area

celebration in the spring and they can discover how soldiers lived during the Civil War at the Newport Historical Association.

The Town is approximately 20 feet above the mean sea level and the terrain consists of gently sloping land with several natural and manmade ponds. The 1985 Geologic Map of North Carolina (excerpt of Newport area to the left) shows that the near surface sediments consist of the Yorktown Formation and Duplin Formation, Undivided to the west, and Surficial Deposits, Undivided to the east. These formations are described below:

Formation	Description
Yorktown Formation and Duplin Formation, Undivided	Yorktown Formation: Fossiliferous clay with varying amounts of fine-grained sand, bluish gray, shell material commonly concentrated in lenses; mainly in area north of Neuse River
	Duplin Formation: Shelly, medium-to coarse-grained sand, sandy mari, and limestone, bluish gray; mainly in area south of Neuse River
Surficial Deposits, Undivided	Sand, clay, gravel, and peat deposited in marine, fluvial, eolian, and lacustrine environments. Quaternary deposits not shown at altitudes greater than approximately 25 feet above mean sea level (Suffolk Scarp, in part)

The Town of Newport operates three (3) public water supply wells. Well 3 and 5 are screened in the Yorktown Aquifer while Well 4 is screened in both the Yorktown and Castle Hayne aquifers. The wells are inspected daily and can be controlled by a Ztron 1700 radio system which allows for operations to be controlled from a remote location. Water drawn from each well travels to a centralized water treatment facility where it is blended, aerated, screened through green sand filters for iron removal, softened with salt, injected with chlorine, an F35 inhibitor, polyphosphate, and ammonia. Table 1 summarizes the data for Newport's wells, from well records, permit data, literature searches, and from plans for future development of a new well site. The water system uses a 125,000 gallon ground storage tank and a 750,000 gallon elevated storage tank to pressurize the system. The average daily water use, in 2016, was 508,000 gallons per day with a maximum daily use of 1,174,000 gallons per day.

Well	Location	Yield (gpm)	Depth	Intermittent Screened Depth (ft)	Total Screened ft.	Latitude	Longitude
Well #3	3325 Chatham St.	400	123	104 ft - 122 ft	18	34.794032	-76.865457
Well #4	1237 Hargett St.	450	162	66 ft 162 ft.	96	34.785167	-76.847778
Well #5	219 Foxhall Rd.	400	180	73 ft 93 ft. 110 ft 125 ft.	35	34.799713	-76.872427
		100	F	Proposed Well			
Well #6	Parcel #: 63481395	700				34.787239	-76.866829

Table 1. Newport Well Data

Well #3 was reconstructed in 2008. Well #4 was constructed in 1983 with a new pump being installed in 2000. Well #5 was constructed in 2005 and has had multiple problems with sand intrusion. The permitted yield is no longer valid due to the integrity of the well. There are plans to reduce the pump size in this well to allow a maximum pump capacity of 200 gpm in the near future. Due to the condition of Newport's wells and the projected sufficient capacity necessary to maintain the system, there are plans to construct a new well (Well #6) on a 20 acre tract of land owned by the Town in the next three (3) to five (5) years. This well is intended to have an approximate yield of 700 gpm. The projected

wellhead protection area for this well has been included in the plan to prevent any additional contaminant sources from being constructed in the area. Once the construction of the well is complete, the wellhead protection area and wellhead protection plan will be revised to reflect data based on construction and permitted yields. The Town of Newport manages the WHPA's through enforcement of regulations in a Wellhead Protection Overlay District. Well records and data for the wells are located in the appendix. Each well is pumped less than 12 hours per day as required by state rules. Well #1, the original well to supply Newport, collapsed in approx. 2002 and has been properly abandoned. Well #2 was contaminated by Veneer Technologies and has since been filled in and properly abandoned.

Newport's wells are located in the Central Coastal Plain Capacity Use Area (CCPCUA) and holds Division of Water Resources permit number CU1012. The town is authorized to withdraw 923,000 gallons of water daily from the Castle Hayne Aquifer for public water supply. The CCPCUA rule forces water withdrawal reductions from Cretaceous-age aquifers over a 15-county area of the coastal plain. These aquifers are being overused such that they may fail to meet the area's water supply needs in the near future, and this forced reduction will expand the need to locate alternative water sources. The permit requires that the town report monthly to the Division of Water Resources all water withdrawals, along with both static and pumping water levels. Specific capacity is the pumping rate in gallons per minute, divided by the draw down in feet. Draw down, or pumping water level is measured after the water has stabilized sometime after pumping. This information is provided to the state on an annual basis to insure groundwater levels are not being depleted to rapidly. See the appendix for details on the explanation of aquifer source determinations.

Newport's water supply system has nineteen (19) miles of distribution line and approximately 2,150 customers. The system has a twelve inch (12 in.) interconnection to Morehead City for the purchase or sell of water in case of emergency. The Town owns and operates a municipal sewage system supplying services to 1,959 customers. Sewage is treated at a newly constructed Wastewater Treatment Facility, completed in 2015, with a permitted capacity of 1.2 million gallons per day.

The Town of Newport is full of southern hospitality that captures the young, preserves the past and looks toward a bright future. This wellhead protection plan is a review and update of the plan approved on November 30, 2010.

I. THE PLANNING TEAM

A planning team was originally formed to develop a Wellhead Protection Plan for Newport. Due to staff changes and circumstances, the current members of the Wellhead Protection Committee (WPC) are as follows:

- Mr. Tim White, Interim Utilities Director, Town of Newport
- Mr. Bernard Hall, IV, Deputy Utilities Director, Town of Newport

- · Mr. Scotty Rollins, ORC, Assistant Utilities Director, Town of Newport
- · Ms. Angela Christian, Town Manager, Town of Newport
- Mr. Robert Chambers, Planning & Zoning Director, Town of Newport
- · Newport Planning Board
- · Mrs. Alicia Melton, North Carolina Rural Water Association

The positions responsible for implementing the program are the Town of Newport Town Council. They have accepted the recommendations made in the program by the WPC and the Council has granted their Utilities Director, Deputy Utilities Director, or the Director's appointee, the authority to implement the plan and to approve any revisions that may be necessary to obtain approval from the Public Water Supply Section (PWSS). The Town of Newport will begin implementation of the plan immediately following its approval by the PWSS of the North Carolina Department of Environment and Natural Resources (NCDENR) and will complete implementation within ninety (90) days.

Upon completion of the implementation phase of the WHP Plan, the individual responsible for implementation will submit notification to the Public Water Supply Section in accordance with the schedule set forth in the approved WHP Plan.

Purpose of the Wellhead Protection Plan

- Maintain an adequate supply of drinking water
- Protect Newport's groundwater source by conducting a thorough survey of potential contamination sources
- Educate the served population of stakeholders in how to prevent groundwater contamination
- Review and update of the WHP plan on a regular basis

II. DELINEATING THE WELLHEAD PROTECTION AREA

Simply stated, the WHPA is the part of the landscape – above or below ground – which contributes water that will eventually reach the pumping well. If a contaminant reaches groundwater within the well system's contribution area, the contaminant can move with the groundwater into the well. If the contributing area for the well is identified and management strategies are set in place to manage certain activities, the possibility that the well might become contaminated can be significantly reduced. This is the area where your wellhead protection (WHP) plan will apply.

The estimated average recharge rate is typically used to estimate the size of the WHPA for wells withdrawing water from unconfined surficial aquifers. However, the average recharge rate to confined and semi-confined aquifers of the coastal plain are, in general, small in comparison to the average recharge rate to unconfined surficial aquifers. WHPAs for

wells withdrawing water from confined/semi-confined aquifers could potentially be unmanageably large if based on the recharge rate to these aquifers. Also, because the land area, in which recharge to a confined aquifer is derived, may be located many miles from the pumping well, accurate determination and management of WHPAs based on recharge presents numerous technical and jurisdictional difficulties in these types of aquifers. As a result, WHPAs for wells withdrawing water from confined/semi-confined coastal plain aquifers are often based on time of travel calculations. A time of travel calculation uses the rate of groundwater movement to estimate how long water or a contaminant will take to reach a well from a point within the aquifer.

In North Carolina, the WHPA for wells withdrawing water from certain confined aquifers encompasses the area surrounding the well for which the time of travel from the outer edge of the area to the well is 10 years. A 10-year period was selected to provide time to assess the potential impact of any groundwater contamination discovered within the WHPAs and for developing appropriate remediation and groundwater protection strategies for the water supply. A WHPA based on a longer time of travel may provide a greater degree of protection to the well and allow more advance warning to respond to a contamination incident within the WHPA, but it will also expand the area to manage under the WHP Plan.

WHPAs based on a 10 year time of travel from their outer edge to the pumping well can be estimated by using the groundwater velocity or by estimating the volume of the aquifer required to supply 10 years of withdrawals (i.e., the Aquifer Source Volume method). In the past, Newport chose to use the Aquifer Source Volume (ASV) method to delineate the WHPAs for its water supply wells due to the lack of site-specific information necessary to calculate the groundwater velocity. In this update to the 2010 approved plan, the wellhead protection areas for Newport's wells were delineated using values from table 1 (pg. 15) of the *Proposed Revisions to the North Carolina Wellhead Protection Program* guidebook, shown below, based on well yields provided by Newport.

Well Yield (Q ¹) (gpm)	Maximum Permitted Withdrawal (Q _{MFW} ²) (gallons)	Aquifer Thickness ³ (ft)	Radius of WHPA (ft) (rounded)
50	36,000	25	1000
100	72,000	50	1000
200	144,000	50	1500
500	360,000	75	2000
1000	720,000	75	3000
2000	1,440,000	100	3500

Recommended radii of WHPAs for wells withdrawing from semi-confined and highly-confined aquifers.

Table 2. Table 1 from Proposed Revisions to the NC Wellhead Protection Program Guidebook

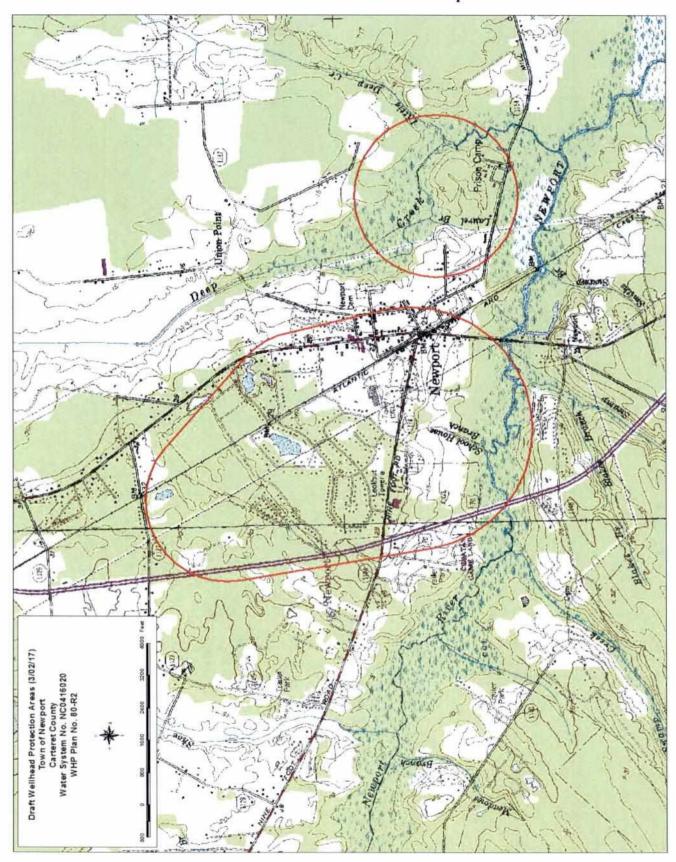
The well yields for Newport's wells resulted in radii of 2,000 and 3,000 feet, based on the pumping rate (yield) of each well as shown in Table 1. The radius for each well WHPA is shown in Table 3. Once individual protection radii were determined, overlapping areas were combined and smoothed to form one WHPA. Well #4 has a WHPA independent of the other wells. As a result of the delineation, the Town of Newport has two WHPAs to manage for potential contamination.

Well	Q (gal/min)	Radius of WHPA (ft.)
Well #3	400	2,000
Well #4	450	2,000
Well #5	400	2,000
	Proposed Well	
Well #6	700	3,000

Table 3. Newport Delineation Data

Well #6, which is expected to be constructed in the next three (3) to five (5) years, was included in the combined WHPA. This well is intended to have an approximate yield of 700 gpm. The projected WHPA for Well #6 was delineated based on the approximate yield necessary to provide the capacity desired in the system. It is beneficial for the Town of Newport to begin managing the property located within that area to prevent contamination prior to well construction. The following maps show the delineated wellhead protection areas for the Town of Newport.

Draft Wellhead Protection Area Map



III. INVENTORY OF POTENTIAL CONTAMINANT SOURCES

A **Potential Contaminant Source** (PCS) is any substance or activity that could adversely affect the quality of your drinking water supply. The PCS inventory is a complete listing, including mapped locations, of past and present land use activities within the wellhead protection areas (WHPAs) that threaten groundwater quality. Each of the potential contaminant sources that were identified was assigned a code according to the category into which it falls. The potential contaminant categories and corresponding codes are listed in Table 4.

PCS Categories	Map Code		
PIRF	A		
Tier II Site	В		
Communications Tower	С		
UST	D		
NPDES	Е		
Recreational Facility	F		
Carwash	G		
Medical Facility	Н		
WWTP	I		
Maintenance Shop	J		
Water Treatment	К		
Retail/Parts Store	L		
Automobile Repair/Sales	M		
AST	N		
Machine Shop/Repair	0		
Liftstation	P		
Storage	Q		
Manufacturing	R		
Animal Operation	S		
NDP	Т		
Laundromat	U		
Print/Sign Shop	V		
Electrical Substation	W		
Private Well	X		

Table 4. Potential Contaminant Source Categories

The inventory process begins by looking at the Source Water Assessment Program Report for the Town of Newport. Information from sixteen (16) State and Federal Databases is combined into that report, and this information is used as a starting point to research files at the various state agencies. A description of each of the regulatory databases researched can be found in the appendix.

Source Name	Susceptibility Rating
Well #3	Moderate
Well #4	Moderate
Well #5	Moderate

Table 5. SWAP Susceptibility Rating

NC SWAP Reports (Source Water Assessment and Protection) - The Source Water Assessment Program (SWAP) information is compiled by the Public Water Supply (PWS) Section from available electronics PCS databases with statewide coverage obtained from various State agencies. The SWAP information is an extremely valuable starting point for conducting a PCS inventory. However, it is not a comprehensive database of all PCSs. Because it includes only those databases with statewide coverage that are available to the PWS Section in an electronic format, PCS information specific to the area of interest may not be included. Databases (both hardcopy and electronic) maintained by local, county, state, and federal agencies may contain information about known PCSs occurring within the WHPA (e.g., areas of pesticide or fertilizer application, pesticide storage areas, landfills or dumps, inactive hazardous waste sites, underground storage tanks, above ground storage tanks, areas with septic systems, improperly constructed/abandoned wells, etc.) The NC SWAP Report was reviewed by the WPC and the Susceptibility for the town's wells was ranked by the NC PWS Section as "Moderate" as shown in Table 5 above. Susceptibility is an indication of a water supply's potential to become contaminated by the identified PCSs within the assessment area. All relevant information found in the SWAP report is reflected in the PCS Inventory Results. The Town of Newport's most recent (2015) SWAP Report can be accessed at the following website:

http://www.ncwater.org/files/swap/SWAP Reports/0416020 7 4 2015 85 11.pdf

The WPC conducted a **windshield survey** of the WHPAs and identified each potential contamination source (PCS) facility or activity that might exist within each WHPA. Onsite visits were made and additional information was obtained regarding quantity and types of contaminants kept on site. The PCS Data Charts show the sources identified during the inventory along with quantities and types of contaminants found at the site. The PCS Inventory Maps show the location of each of the identified potential contaminant sources within the WHPAs. A list of example potential contamination sources by risk category is included in the appendix.

Septic Tanks/Municipal Sewer – The Town of Newport utilizes a sanitary sewer collection system, owned and operated by Newport, to dispose of waste. Some of the customers located in the ETJ of the town utilize septic systems. Carteret County Health Department is responsible for the inspection of all septic tanks in the county.

Abandoned Wells – The WPC has no knowledge of wells that exist within the WHPA that are no longer being used, and that have not been properly abandoned.

Lift Stations – There are two liftstations, owned and operated by the Town of Newport, located within the WHPAs. Information on each is located in the appendix on the PCS Data Charts.

Several local, state and federal databases were searched. Information describing these databases and types of contaminants located in each are provided in the appendix. A summary of the findings of this research is shown below.

Database	Results
Animal Operations	None
CERCLIS Sites	None
National Priority List Sites	None
Non-Discharge Permits	One (1)
NPDES Permits	Twelve (12)
Old Landfill Sites	None
PCB Sites	None
Pollution Incidents	One (1)
RCRA Hazardous Waste Generators/Transporters	None
RCRA TSD Sites	None
Septage Disposal Sites	None
Soil Remediation Sites	None
Solid Waste Facilities	None
Γier II Sites	Three (3)
UIC Permits	None
UST Permits	None

Table 6. Regulatory Agency Database PCSs per Type

Current Pollution Incidents (UST Releases)

#7040 Conner Corporation – Former Conner Corporation is now the site of Veneer Technologies located at 38 Chatham St. In March of 1999 the owners were informed by NCDENR, the Division of Waste Management that this site met the requirements and was eligible for multiple deductibles for the Commercial Trust Fund under the provisions of NCGS-143-215.94B(bl). Based upon the information provided in the file

there are four (4) occurrences (i.e. separate contamination plumes) at the site of diesel and gas. As of June 23, 2016, the contamination is not moving. No further action was cited in the files at the Wilmington Regional Office. (Map Code: A-1)

Closed/Historic Pollution Incidents (UST Releases)

(Further information on the incidents below is located in the appendix under Historic UST Releases Maps and Documentation. The following events do not appear on the current Potential Contaminant Sources Inventory or inventory maps as potential threats. Map codes are related to the Historic UST Releases Map in the appendix.)

#22739 Cross Creek Apparel – 413 Howard Blvd. – On July 7, 2000, EnviroAssessments, PLLC notified NC DENR of the discovery of evidence of a petroleum discharge to ground water. An assessment was conducted as a result of a real estate transaction. Boreholes were dug at the location of a 280 gallon heating oil tank that was removed in 1989. Results indicated an exceedance of state action levels for soil samples. The release at this site was classified as "low risk". A soil assessment and cleanup was completed. A May 14, 2001 Notice of No Further Action from NCDENR was issued stating that results of a soil assessment shows that soil contamination does not exceed the soil-to-groundwater maximum soil contaminant concentrations. A copy of the Notice of No Further Action can be found in the appendix. (Map Code: HR-1)

#32099 Broman Rest Home – 453 Howard Blvd. – Soil investigation during a May 1994 Phase II real estate assessment indicated soils with elevated TPH concentrations in the vicinity of each of two heating oil underground storage tanks. Diversicare Assisted Living Services retained the services of Clark Environmental Services in October 2003 in order to assist Diversicare in achieving a status of regulatory compliance at the facility. On Ocober 17, 2003, a brief letter describing the previous findings and a copy of the previous real estate report were forwarded to NCDENR. During the November 2003 UST closure and removal of the heating oil tanks, groundwater contamination was detected in one of the two UST basins. 1994 sampling revealed that, other than a detection of C9-C22 aromatics, no other target compounds were detected in excess of state standards. On July 20, 2004, NCDENR issued a Notice of No Further Action stating that soil contamination does not exceed the residential maximum soil contamination concentrations and groundwater contamination meets the cleanup requirements for a low risk site. A copy of the Notice of No Further Action can be found in the appendix. (Map Code: HR-2)

#32226 Redmann Residence (Cardell) – 2007 Thompson Dr. – On April 7, 2005, one 280 gallon heating oil underground storage tank was removed from the property. 210 gallons of liquid product was pumped from the UST prior to excavation. One closure sample (CSI) was collected at 4.5 ft. below surface with results showing levels of petroleum hydrocarbons. A Limited Site Assessment report was submitted to NCDENR. On October 13, 2005, a Notice of No Further Action from NCDENR was

issued stating that the limited site assessment report review indicated that soil contamination does not exceed the residential maximum soil contamination concentrations and that groundwater contamination does not exceed the groundwater quality standards. A copy of the Notice of Further Action can be found in the appendix. (Map Code: HR-3)

#11288 B&B Equipment Co. - 228 Chatham St. - On July 13, 1992, Clyde Watts, Jr. requested to DENR to remove three (3) UST's from the property, two (2) 1,000 gallon tanks that held unleaded gasoline and one (1) 550 gallon tank that held premium unleaded gasoline. Approval for removal was issued on July 23, 1992 along with the procedures required for removal. On July 8, 1993, DENR followed up with the owner of the property after never receiving a site investigation report and concerns of contamination. Notes of cleanup efforts and timeline of this incident between July 8, 1993 and June 28, 2013 are located in the appendix. On June 2, 2014, a Notice of Residual Petroleum was placed on the property restricting both the use of the soil and groundwater. On June 11, 2014, NC DENR issued a Notice of No Further Action for this property noting that the responsible party, Mr. Clyde Watts is deceased. A copy of the Notice of No Further Action can be found in the appendix. Soil testing in 2014 detected several petroleum constituents with naphthalene (most often found in diesel) being the only one detected above groundwater standards. (Map Code: HR-4)

#24043 Atlantic & East Carolina Railway – Chatham St. – An Underground Storage Tank Closure Report dated April 19, 2002 describes the process of removing three (3) UST's at this location and abandoning one in place at the request of Newport's Building Inspector due to several utilities located near the tank. It was also requested by the Building Inspector to perform no over excavation at the site. Soil sample laboratory results reported several targeted parameters above the "Soil-to-Water" Maximum Contaminant Concentration levels. All soil analytical results were below the "Residential" and "Industrial/Commercial" MCLs except for Lead. Parameters included benzene, ethylbenzene, chloroform, xylenes, and C5-C8 aliphatics. On September 6, 2002, a total of 666 tons of soil was excavated and transported from this site to a proper disposal facility. On June 27, 2003, NC DENR issued a Notice of No Further Action after receiving a Soil Cleanup Report with Site Closure Request and a Notice of Residual Petroleum. A copy of the Notice of No Further Action can be found in the appendix. The monitoring well onsite was properly abandoned on August 29, 2003. (Map Code: HR-5)

#13369 NCDOT Maintenance Facility (Currently Carteret Correctional Center)

- The original release of petroleum product appears to have been released in 1960. Tanks were removed from this site in 1972. In 1993, samples from monitoring wells showed fuel and diesel constituents. A Comprehensive Site Assessment was submitted to DENR on January 31, 1995 and a Corrective Action Plan was submitted to DENR on June 1, 1995. Monitoring results continue to show levels of BTEX and now

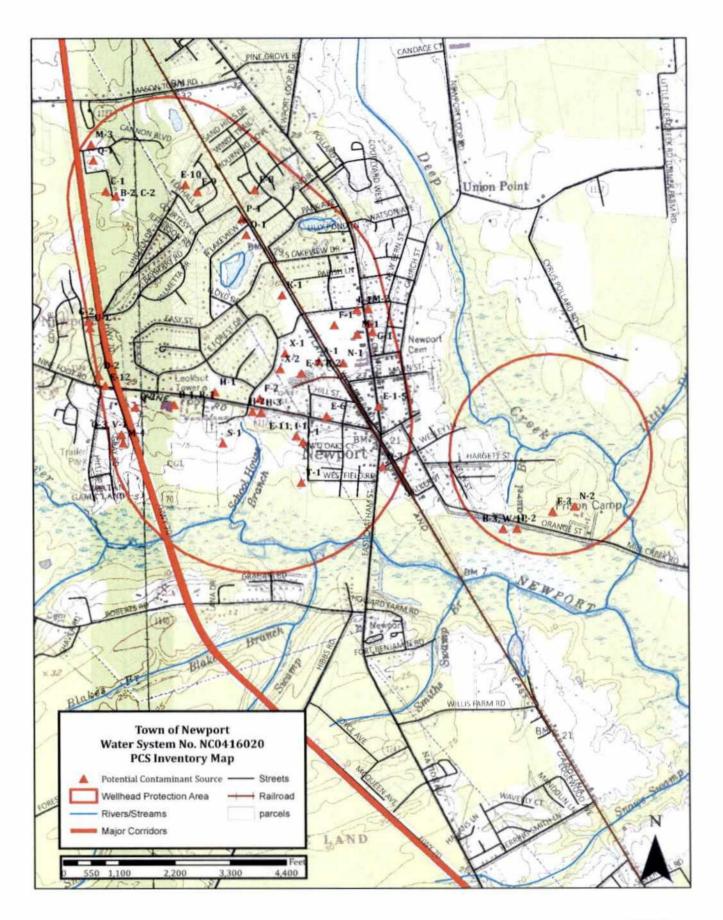
show levels of anthracene. A Corrective Action Plan was approved by NCDENR on February 13, 1996. In July, 1996 this site was assigned a priority ranking of "E". SB 1317 temporarily suspended the requirement to cleanup a discharge or release from a petroleum UST for lower priority sites (i.e., those ranked C, D, or E), effective July 21, 1996. On February 1, 1999, NCDENR issued a Notice of No Further Action after reviewing the Corrective Action Plan which showed that soil contamination does not exceed the soil cleanup levels and that contaminated groundwater does not exceed gross contamination levels. A copy of the Notice of No Further Action can be found in the appendix. (Map Code: HR-6)

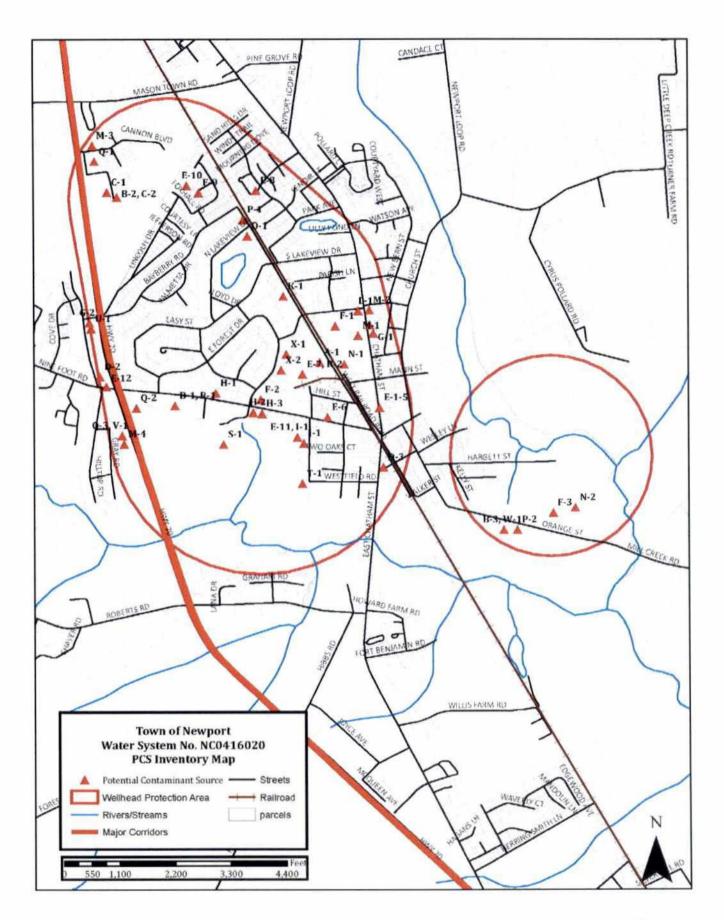
In addition to the windshield survey and regulatory agency database research, potential contaminant sources were researched by:

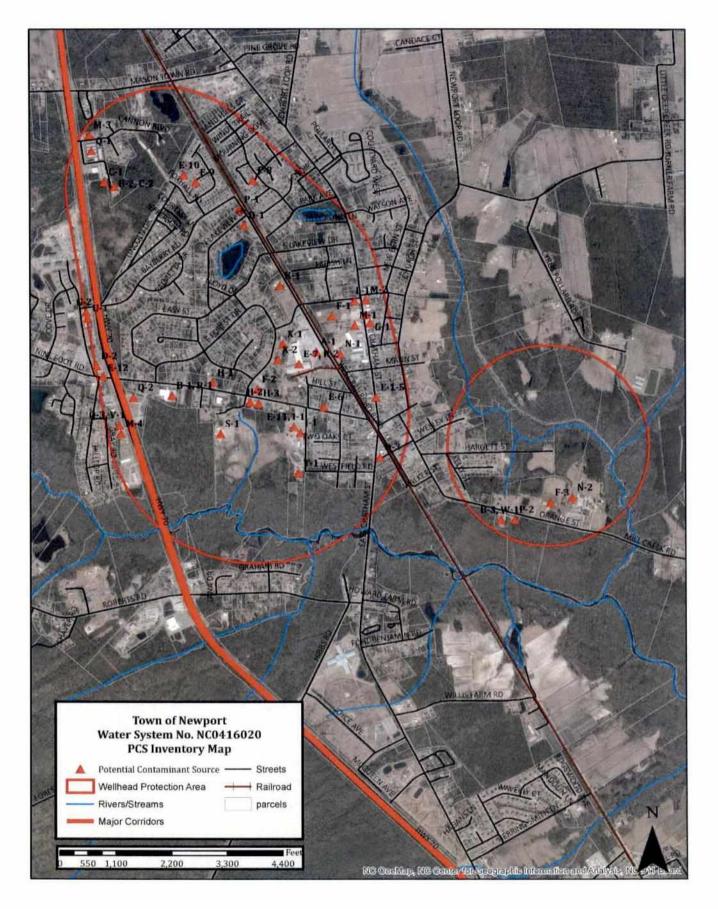
- Reviewing the Wellhead Protection Plan approved November 30, 2010 for needed revisions.
- Local records on file at the Carteret County Courthouse were researched, and the fire department and county emergency services were contacted to identify past spills, leaks, or other potential sources.
- Records on file at the Wilmington Regional Office of NC DEQ were researched

The following table lists the potential sources of contamination in the Town of Newport's wellhead protection areas. Map codes were used in the table to identify the potential sources of contamination on the PCS Inventory Map. For more detailed information about each potential contaminant source, including information relevant in providing educational materials to owners, please see the PCS Data Charts in the appendix. Where listed on the PCS Data Chart "low quantity" means less than 100-gallons or 100-pounds. The map codes used to identify each potential contaminant site category are detailed in Table 4.

Potential Contaminant Source Inventory: Maps and Table







WHPA Туре		Type Map Code PCS Site		Physical Location	
3, 6	PIRF	A-1	Conner Corporation	3337 Railroad St.	
	1			Newport, NC	
6	Tier II,	B-1, R-1	Frank Door Company	413 Howard Blvd.	
-	Manurfactoring			Newport, NC 28570	
5	Tier II,	B-2, C-2	Time Warner Cable	520 Time Warner Dr.	
	Communications	22,02	FCC Tower Reg. #: 1057065	Newport, NC 28570	
	Tower		Too rower neg 1007003	The whold the 2007 o	
4	Tier II, Electrical	R-3 W-1	Duke Energy	1058 Orange St.	
7.5	Substation	D 5, 11 1	b title Emergy	Newport, NC 28570	
5	Communications	C-1	Time Warner Cable	598 Time Warner Dr.	
5	Tower		FCC Tower Reg. #: 1044239	Newport, NC 28570	
3, 6	UST	D-1	Handy House 7	272 Chatham St.	
3, 0	031	<i>D</i> -1	Fac ID: 0-0024559	Newport, NC 28570	
			1 ac 15. 6 6024337	Newport, Ne. 28370	
6	UST	D-2	Handy Mart #171	7065 US-70	
	100000000	F-1000018	Fac ID: 0-0037159	Newport, NC 28570	
			27954 Mills (1905) (19 11 11 19 14 19 11 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 16 19 1		
6	UST	D-3	Newport BP	101 Main St.	
			Fac ID: 0-0036999	Newport, NC 28570	
	NIDD DO				
6	NPDES	E-1	Replace Bridge 43 Over Deep Creek	Crossing of Deep Creek On Sr 1133	
	Line Fo	200	Project B4454		
6	NPDES	E-2	Town of Newport Sewer/Middle School	Crossing of Deep Creek On Sr 1133	
			Tr		
6	NPDES	E-3	Sand Ridge Subdivision	Lincoln Foxhall Bayberry Grayston	
			Permit Expires: 12/21/2012	Roads	
6	NPDES	E-4	Town of Newport Water Treatment	Crossing of Deep Creek On Sr 1133	
			Improvements		
6	NPDES	E-5	Ken and Lisa Shipp Site Improvements	Crossing of Deep Creek On Sr 1133	
Ma.		Sent Ac	Permit Expires: 12/30/2021		
6	NPDES	E-6	South Park Subdivision	Howard Blvd	
3, 6	NPDES,	E-7, R-2	Veneer Technologies - Newport	3337 W. Railroad Blvd.	
	Manufacturing			Newport, NC 28570	
5	NPDES	E-8	Courtesy Village Aka Sand Ridge	Deer Run	
			Apartments	Newport, NC 28570	
5	NPDES	E-9	Ashley Place Subdivision #	Between Fox Hall Rd. and Cannon	
				Blv.	
5	NPDES	E-10	Britthaven of Newport	210 Foxhall Rd.	
6	NPDES	E-12	Newport-Roberts Rd. Terminal	477 Roberts Rd.	
				Newport, NC 28570	
3, 6	Recreational Facility	F-1	Football/Baseball Field	1910 Johnson St.	
	#FOI		Newport Elementary School	Newport, NC 28570	
6	Recreational Facility	F-2	Baseball Field	290 Howard Blvd.	
	Secretary Secretary Control of the Secretary C			Newport, NC 28570	
4	Recreational Facility	F-3	Baseball Field	1084 Orange St.	
				Newport, NC 28570	
3, 6	Carwash	G-1	Chatham St. Carwash	258 Chatham St.	
******			The state of the s	Newport, NC 28570	
5	Carwash	G-2	Cowell's Cleaners & Laundromat &	7109 US-70	
			Carwash	Newport, NC 28570	
	14 1: 1 0: 11:	H-1	Family Pharmacy/Newport Family	344 Howard Blvd.	
6	Medical Facility	H-1	Trainily Pharmacy/Newhort Family	1344 HOWARD BIVE	

WHPA Туре		Map Code	PCS Site	Physical Location
6	Medical Facility	H-2	Newport Animal Clinic	285 Howard Blvd.
			5'	Newport, NC 28570
6 Medical Facility		H-3	Newport Dental Center	271 Howard Blvd.
				Newport, NC 28570
6	WWTP, NPDES	I-1, E-11	Newport Wastewater Treatment Plant	213 Howard Blvd.
			NPDES Permit #: NC0021555	Newport, NC 28570
6	Maintenance Shop	J-1	Newport Town Garage	136 Kirby Ln.
				Newport, NC 28570
3, 6	Water Treatment	K-1	Newport Water Plant	3323 W. Railroad Blvd.,
				Newport, NC 28570
3, 6	Retail/Parts Store	L-1	Newport Garden Center	291 Chatham St.
	· · · · · · · · · · · · · · · · · · ·		D	Newport, NC 28570
3, 6	Automobile	M-1	Newport Motor	261 Chatham St
	Repair/Sales			Newport, NC 28570
3	Automobile	M-2	Gary's Automotive	292 Chatham St.
	Repair/Sales		7.00	Newport, NC 28570
5	Automobile	M-3	Timmy's Muffler and Alignment Shop	107 Cannon Blvd.
	Repair/Sales		*	Newport, NC 28570
6	Automobile	M-4	Doghouse Power Sports	6977 US-70
	Repair/Sales			Newport, NC 28570
3, 6	AST	N-1	Newport Elementary School	219 Chatham St.
				Newport, NC 28570
4	AST	N-2	Carteret Correctional Center	1084 Orange St.
				Newport, NC 28570
3, 5	Machine	0-1	Simmons Tractor	3309 West Railroad Blvd.
	Shop/Repair	W 555	V. 55.565	Newport, NC 28570
3, 5	Liftstation	P-1	Newport Liftstation #2	3301 W. Railroad Blvd.
	Common toward posteriors	31 4745	AND	Newport, NC 28570
4	Liftstation	P-2	Newport Liftstation #1	1069 Orange St.
			*	Newport, NC 28570
5	Storage	Q-1	AAA Storage Ideas	7200 US-70
				Newport, NC 28570
6	Storage	Q-2	JJ Warehouse	6994 US-70
				Newport, NC 28570
6	Storage	Q-3, V-1	W.F. Loyd Printing & Mini Storage	6993 US-70
	Print/Sign Shop		** *** *** *** *** *** *** *** *** ***	Newport, NC 28570
6	Animal Operation	S-1	Ziegler Stables	151 Mason Ln.
				Newport, NC 28570
6	NDP	T-1	Wastewater Residuals Distribution Program	Kirby Lane, Newport WWTP
5	Laundromat	U-1	Cowell's Cleaners & Laundromat &	7109 US-70
			Carwash	Newport, NC 28570
3, 6	Private Well	X-1	Rutherford Residence	2513 E. Forest Dr.
7.00,625		100.576	National Control of the Assessment of the Assess	Newport, NC 28570
3, 6	Private Well	X-2	Poole Residence	2507 E. Forest Dr.
(T.A.)(T)	NORTHWEST AND THE		DE CONTRACTO	Newport, NC 28570
3,5,6	Transporation Corridor	-	HWY US-70	10000 1000 1000 1000
3,5,6	Railroad	+	Atlantic & East Carolina RR	

Table 7. Potential Contaminant Source Inventory Results

IV. RISK ANALYSIS

The potential contaminant sources were evaluated to determine the risk posed to the well. Proximity to the well and the risk category of each potential source were used to rank the risk posed to the well.

Each potential source was assigned a risk category of higher, moderate, or lower based on information adapted from the EPA (1993), and from the Oregon Wellhead Protection Program. Each potential contamination source was assigned a numerical "category" score to correspond with the risk category (e.g., higher-3, moderate-2, and lower-1). Each site of potential contamination was then assigned a "proximity" score calculated with the following equation:

Proximity score = 1 - (distance from the well/radius of the WHPA)

The final potential contaminant source (PCS) ranking was obtained by multiplying the category score by the proximity score for each potential contaminant site. This resulted in a relative ranking of each PCS within a given WHPA based on the threat posed to the water supply well or wells. This risk analysis provided information that was used to determine which water supply wells are at greater risk of contamination and which PCS should be considered first with regard to wellhead protection. Table 8 displays the potential risk of contamination to each individual well from highest probability to lowest.

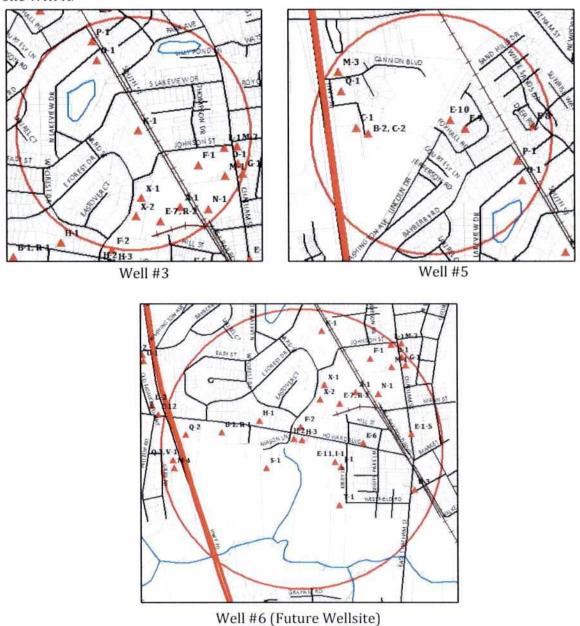
Well Site	Physical Location	Yield (gpm)	Total Risk Score (H to L)
Well #6	Parcel #: 63481395	700	26.53
Well #3	3325 Chatham St.	400	8.28
Well #5	219 Foxhall Rd.	400	8.02
Well #4	1237 Hargett St.	450	2.44

^{*} Adapted from EPA (1993), and the Oregon Wellhead Protection Program

Table 8. Risk Assessment of Contamination to Individual Well Sites

According to the risk assessment, the potential wellhead protection area for the future wellsite (Well #6) is at the highest risk for contamination. However, the potential for contamination to this well can alter based on location of the well site, depth of the well, and other factors such as pumping rates and length of pumping cycles.

Images below show the delineated area of contribution for each well 3, 5, and 6 [based on Table 1 (pg. 15) of the *Proposed Revisions to the North Carolina Wellhead Protection Program* guidebook] prior to the overlapping areas being combined and smoothed to form one WHPA.



Tables 9-12 present the PCSs ranked according to their final score from highest to lowest for each well. Potential contaminants located outside of the determined radius for each well (located in the smoothed portion of the WHPA) are listed separately in Table 13 and were not used in the calculation of potential risk score for each well site.

Well #3 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well	WHPA Radius	Proximity Score	Category Score*	Final Score
K-1	Newport Water Plant	M	100	2,000	0.95	2	1.90
0-1	Simmons Tractor	Н	1400	2,000	0.30	3	0.90
X-1	Rutherford Residence	М	1110	2,000	0.45	2	0.89
A-1	Conner Corporation	Н	1490	2,000	0.26	3	0.77
F-1	Football/Baseball Field Newport Elementary School	М	1235	2,000	0.38	2	0.77
E-7, R-2	Veneer Technologies - Newport	Н	1565	2,000	0.22	3	0.65
X-2	Poole Residence	M	1410	2,000	0.30	2	0.59
L-1	Newport Garden Center	M	1580	2,000	0.21	2	0.42
M-1	Newport Motor	Н	1725	2,000	0.14	3	0.41
M-2	Gary's Automotive	Н	1795	2,000	0.10	3	0.31
P-1	Newport Liftstation #2	М	1730	2,000	0.14	2	0.27
D-1	Handy House 7 Fac ID: 0-0024559	Н	1,860	2,000	0.07	3	0.21
N-1	Newport Elementary School	М	1820	2,000	0.09	2	0.18
G-1	Chatham St. Carwash	М	1985	2,000	0.01	2	0.01

Total Risk Score 8.28

Table 9. Well #3 Potential Contaminant Ranking from Highest to Lowest

Well #4 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
F-3	Baseball Field	M	1,150	2,000	0.43	2	0.85
N-2	Carteret Correctional Center	M	1,155	2,000	0.42	2	0.85
P-2	Newport Liftstation #1	M	1,625	2,000	0.19	2	0.38
B-3, W-1	Duke Energy	Н	1,755	2,000	0.12	3	0.37

Total Risk Score 2.44

Table 10. Well #4 Potential Contaminant Ranking from Highest to Lowest

^{*} Adapted from EPA (1993), and the Oregon Wellhead Protection Program

^{*} Adapted from EPA (1993), and the Oregon Wellhead Protection Program

Well #5 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
E-10	Britthaven of Newport	Н	405	2,000	0.80	3	2.39
E-9	Ashley Place Subdivision	Н	570	2,000	0.72	3	2.15
B-2, C-2	Time Warner Cable FCC Tower Reg. #: 1057065	М	1,050	2,000	0.48	2	0.95
C-1	Time Warner Cable FCC Tower Reg. #: 1044239	М	1,250	2,000	0.38	2	0.75
P-1	Newport Liftstation #2	М	1,500	2,000	0.25	2	0.50
E-8	Courtesy Village Aka Sand Ridge Apartments	Н	1,700	2,000	0.15	3	0.45
0-1	Simmons Tractor	Н	1,700	2,000	0.15	3	0.45
M-3	Timmy's Muffler and Alignment	Н	1,860	2,000	0.07	3	0.21
Q-1	AAA Storage Ideas	L	1,660	2,000	0.17	1	0.17
					441	al Dial Comm	0.02

Total Risk Score 8.02

Table 11. Well #5 Potential Contaminant Ranking from Highest to Lowest

^{*} Adapted from EPA (1993), and the Oregon Wellhead Protection Program

Well #6 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
I-1, E-11	Newport Wastewater Treatment Plant NPDES Permit #: NC0021555	Н	765	3000	0.75	3	2.24
J-1	Newport Town Garage	Н	930	3000	0.69	3	2.07
E-7, R-2	Veneer Technologies - Newport	Н	1280	3000	0.57	3	1.72
E-6	South Park Subdivision	Н	1320	3000	0.56	3	1.68
F-2	Baseball Field	М	480	3000	0.84	2	1.68
T-1	Wastewater Residuals Distribution Program	Н	1445	3000	0.52	3	1.56
S-1	Ziegler Stables	М	840	3000	0.72	2	1.44
A-1	Conner Corporation	Н	1690	3000	0.44	3	1.31
	Frank Door Company	Н	1730	3000	0.42	3	1.27
X-2	Poole Residence	М	1145	3000	0.62	2	1.24
X-1	Rutherford Residence	M	1470	3000	0.51	2	1.02
Н-3	Newport Dental Center	L	200	3000	0.93	1	0.93
H-2	Newport Animal Clinic	L	270	3000	0.91	1	0.91
G-1	Chatham St. Carwash	М	1985	3000	0.34	2	0.68
N-1	Newport Elementary School	М	2025	3000	0.33	2	0.65
H-1	Family Pharmacy/Newport Family Practice	L	1075	3000	0.64	1	0.64
E-1	Replace Bridge 43 Over Deep Creek Project B4454	Н	2360	3000	0.21	3	0.64
E-2	Town of Newport Sewer/Middle School Tr	Н	2360	3000	0.21	3	0.64
E-3	Sand Ridge Subdivision Permit Expires: 12/21/2012	Н	2360	3000	0.21	3	0.64
E-4	Town of Newport Water Treatment Improvements	Н	2360	3000	0.21	3	0.64
E-5	Ken and Lisa Shipp Site Improvements Permit Expires: 12/30/2021	Н	2360	3000	0.21	3	0.64
D-3	Newport BP Fac ID: 0-0036999	Н	2565	3000	0.15	3	0.44
M-1	Newport Motor	Н	2605	3000	0.13	3	0.40
F-1	Football/Baseball Field Newport Elementary School	М	2435	3000	0.19	2	0.38
K-1	Newport Water Plant	M	2575	3000	0.14	2	0.28
M-4	Doghouse Power Sports	Н	2735	3000	0.09	3	0.27
V-1,Q-3	W.F. Loyd Printing & Mini Storage	Н	2750	3000	0.08	3	0.25
Q-2	J&J Warehouse	L	2475	3000	0.18	1	0.18
D-1	Handy House 7 Fac ID: 0-0024559	Н	2910	3000	0.03	3	0.09
L-1	Newport Garden Center	М	2950	3000	0.02	2	0.03

Total Risk Score 26.53

Table 12. Well #6 Potential Contaminant Ranking from Highest to Lowest

^{*} Adapted from EPA (1993), and the Oregon Wellhead Protection Program

Map Code	PCS Site	Risk	Distance from Closest Well (ft.)			
		RISK	Well #5	Well #6		
G-2	Cowell's Cleaners & Laundromat & Carwash	М	2,955	*		
U-1	Cowell's Cleaners & Laundromat & Carwash	Н	3,050	**		
D-2	Handy Mart #171 Fac ID: 0-0037159	Н	88	3,315		
E-12	Newport - Roberts Rd. Terminal	Н	*	3,140		

Table 13. Indirect Potential Contaminants of Contributing Area

Vulnerability Assessment

Based upon the risk assessment above, the following vulnerability assessment was derived for Newport's permitted public drinking water supply wells. Taking into consideration the nature and number of PCSs and the overall score of each PCS from the risk assessment above, a ranking of the vulnerability of the water supply wells is as follows with the well at the highest risk being designated as number one:

- Well #3: 3325 Chatham St.
- 2. Well #5: 219 Foxhall Rd.
- 3. Well #4: 1237 Hargett St.

The Source Water Assessment Plan (SWAP) report, developed by the Public Water Supply Section, lists the Inherent Vulnerability Rating, the Contaminant Rating, and the Susceptibility Rating as "Moderate" for each of Newport's wells. A full copy of the report and explanations for the ratings may be found on the Public Water Supply Section website at the following address:

http://www.ncwater.org/files/swap/SWAP_Reports/0416020_7_4_2015_85_11.pdf

V. MANAGING THE WELLHEAD PROTECTION AREA

There are two methods of managing a Wellhead Protection Area, regulatory and nonregulatory. The Town of Newport has been utilizing the regulatory approach since the adoption of the original wellhead protection plan in 2004. Zoning regulations are in place to protect the wellhead protection areas by an overlay district known as the Wellhead Protection District. The purpose of this overlay district is to:

- Promote the health, safety and general welfare of the community by ensuring an adequate quality and quantity of drinking water for the residents, institutions and businesses of the Town of Newport;
- 2. Preserve and protect the public, municipal water supply for the Town of Newport;
- 3. Preserve the natural resources of the Town; and
- 4. Prevent temporary and permanent contamination of the environment.

The Wellhead Protection District is an overlay district superimposed on the zoning districts. This district applies to all new construction, reconstruction or expansion of existing buildings and new or expanded uses. Applicable activities or uses in a portion of one of the underlying zoning districts which fall within the Wellhead Protection District must additionally comply with the requirements of this district. Uses that are prohibited in the underlying zoning districts shall not be permitted in the Wellhead District. For a current copy of the adopted regulations, please contact the Town Clerk at (252) 223-4749.

Also, the town of Newport has elected to complete educational outreach as well. A Wellhead Protection Brochure and/or newsletter will be made available to each resident, business, and industry within the wellhead protection areas. Copies of this brochure will be made available at Newport Town Hall located at 200 Howard Blvd. and other locations deemed necessary for public education on Wellhead Protection. In general, the brochure and/or newsletter will convey to each citizen/business the following information:

- An explanation of what groundwater is and the number of wells in their particular system,
- · An explanation of the Wellhead Protection Program,
- · Source of groundwater pollution,
- · Tips on protecting their water supply,
- Information on proper disposal of household hazardous wastes and oils (i.e., not disposed of through septic systems, pouring on ground, or through regular garbage collection)
- · Information of proper use of fertilizers, herbicides, and pesticides,
- · Information on household hazardous waste collection opportunities,
- · Information on proper maintenance of heating oil tanks and septic systems, and
- · Phone numbers to contact for more information

The following management practices have been developed to meet current and future needs of managing multiple types of contaminants in the wellhead protection areas. Regulations adopted through Town Ordinances supersede the following:

Waste Management Practices

The Town of Newport will provide information to each business, industry, and farm located within the WHPAs on waste handling practices, best management practices, standard operating procedures, and waste oil disposal methods which could be employed to reduce the potential for ground water contamination. Newport will also provide information regarding the North Carolina Division of Environmental Assistance and Customer Service (DEACS) to each business located within the WHPAs. Owners/operators of potential contamination sources will be encouraged to contact DEACS. DEACS provides free technical and other non-regulatory assistance to reduce the amount of waste released into the air and water and on the land. DEACS serves as a central repository for waste reduction and pollution prevention information. DEACS emphasizes waste reduction through pollution prevention, encourages companies and government agencies to go beyond compliance, and provides information about the environmental permitting process. This information is

provided at no charge to North Carolina businesses, industries, government agencies, and the general public upon request. For additional information, DEACS may be contacted at (919) 707-8100 or (877) 623-6748. For environmental emergencies, the agency can be contacted at (800) 858-0368. A copy of the most recently released advertisement for DEACS services can be found in the appendix.

The Town of Newport contracts with Waste Industries to provide weekly residential solid waste pickup and bi-weekly recycling pick up to town residents. Waste Industries disposes of collected waste at the Coastal Environmental Partnership (CEP). Limbs and yard debris are picked up and disposed of by town personnel. The CEP is a public authority providing solid waste disposal for citizens of Carteret, Craven, and Pamlico counties. The Newport Transfer Station of the CEP is located at 800 Hibbs Road, Newport and is open Monday-Friday from 7:30 am to 4:30 pm and on Saturday from 7:30 am to 12:00 pm noon. Carteret County provides solid waste and recycling services to residents living in the unincorporated areas of the county through the operation of twelve (12) convenience sites. A listing of all Carteret County Solid Waste Disposal Sites can be found in the appendix. More detailed information on services provided by The Coastal Environmental Partnership may be found at:

http://coastalenvironmentalpartnership.com/.

Once a year the Coastal Environmental Partnership sponsors a series of Household Hazardous Waste and Electronics Collection Days in Carteret, Craven and Pamlico counties. They accept latex and oil paints, used motor oil, lawn and garden fertilizer and pesticides, gasoline, drain openers, paint thinners, cooking oil, anti-freeze and batteries. For more information on accepted items or to view the current annual schedule, please visit: http://coastalenvironmentalpartnership.com/hazardous-waste.html

Personnel Training

Personnel at the Town of Newport will be educated on wellhead protection and steps they can take to reduce the potential for contamination (e.g., information about best management practices, standard operating procedures, waste handling practices, etc.). In addition, staff will be trained on how to handle contamination events. Newport will also contact the DEACS to investigate steps that can be made to reduce the amount of waste released into the air, water, and land at Newport owned and/or managed facilities.

Improperly Constructed or Abandoned Wells

In the instance that an improperly constructed or abandoned well is discovered and identified within the WHPAs, the owner will be provided information regarding the threat posed to the water supply by these wells. Owners of improperly constructed or abandoned wells will be encouraged to have these wells properly abandoned in accordance with state well construction standards found in 15A NCAC 2C, "Criteria and Standards Applicable to Water Supply and Certain Other Wells". If information exists that a well is improperly constructed or is contributing to the contamination of groundwater, the Town of Newport will notify the Ground Water Protection Section of the NC Division of Environmental Quality.

Owners of private wells used for irrigation will be educated on the potential threat posed to groundwater from backflow into these wells if not properly protected. In order to prevent accidental contamination, the Town requires an approved backflow device be installed on properties connected to the water system that are used for manufacturing purposes, properties with private wells, or where standard operations pose a threat to the water supply through backflow/cross contamination.

Underground Storage Tanks

A regulated UST system is any underground storage tank and associated piping that contains petroleum (including gasoline, diesel and used oil) or a hazardous substance as defined by the State rules (15A NCAC 2N). Tanks containing heating oil for use on the premises where stored are not regulated.

All owners/operators of regulated underground storage tanks (USTs) and other facilities subject to federal and/or state regulations located within the WHPAs will be requested to supply documentation that their facility is in compliance with said regulations. Operators of UST's will be asked to supply the Town of Newport with a copy of their UST permit. If any UST sites are found to be non-compliant, the Underground Storage Tank Section of the NC Division of Waste Management of DEQ will be notified.

If an abandoned UST site is found, the Town of Newport will contact the North Carolina Division of Waste Management, UST Section, to determine if a closure report was submitted demonstrating that no soil or groundwater contamination was identified during the removal of UST's. If a closure report was not submitted, the UST Section will be notified of the location of the facility within the WHPA and its proximity to a public water supply well.

For soil or ground-water contamination incidents occurring within the WHPA, the Town of Newport will contact the State agencies with oversight responsibilities for remediation to determine if remediation efforts are proceeding in a timely fashion and in accordance with any schedules established by these agencies. Through this process, the Town will bring to the attention of the State agencies, with oversight responsibilities for remediation, any failures by the responsible parties to comply with required monitoring and corrective action. The Town of Newport will also notify the State agencies with oversight responsibilities for remediation of the location of the facility within the WHPA and its proximity to a public water supply well. Newport will also contact the State agencies with oversight responsibilities for the contamination incidents and notify them of the locations of the sites issued notices of "No-Further Action" occurring within the WHPA and will request a review of this assessment.

The Town of Newport will notify any individual, industry, business, or government agency installing or planning to install a regulated underground storage tank within the WHPA of the following regulation: North Carolina Underground Storage Tank (UST) Regulation 15A NCAC 2N .0301 stipulates specific siting and secondary containment requirements for UST systems installed after January 1, 1991. The rule is summarized as follows:

- No UST system may be installed within 100 feet of a public water supply well or within 50 feet of any other well used for human consumption.
- Secondary containment is required for UST systems within 500 feet of a well serving a public water supply or within 100 feet of any other well used for human consumption.

Violations of this regulation will be reported to the Division of Waste Management, Underground Storage Tank Section. The UST Section will also be notified of the location of the facility within the WHPA and its proximity to a public water supply well or any other well used for human consumption.*

Above Ground Storage Tanks

*Owners/facilities with an underground buried storage capacity of more than 42,000 gallons of oil, or an aggregate aboveground storage capacity greater than 1,320 gallons of oil, or an aboveground storage capacity of a single container in excess of 660 gallons are subject to the Oil Pollution Prevention regulations contained in Federal Regulations found in 40 CFR 112. In most cases, these facilities must prepare and implement a Spill Prevention Control and Countermeasures (SPCC) Plan. The Town of Newport will request a copy of the spill plan for each UST/AST facility located within the WHPA that require such document. The North Carolina General Statutes require registration of any facilities storing more than 21,000 gallons of petroleum product. Facilities with subject storage capacity found not to be in compliance with this regulation will be notified of their regulatory responsibility under this regulation. The WPC should also notify the Division of Environmental Quality, Ground Water Section, if such facilities do not promptly come into compliance.

Residential, Municipal, and Industrial Wastewater Discharge

All farms, residents, businesses, and industries in the WHPA with septic tanks and home heating oil tanks will be distributed a copy of the Wellhead Protection Brochure trifold and any other information the Town of Newport can obtain from federal, county and/or state agencies on proper septic tank and heating oil tank maintenance. Newport will obtain, maintain, and/or develop standard operating procedures for the maintenance of any wastewater collection system (including lift stations) operating in any WHPA. Newport will also obtain annual wastewater reports from owners of municipal wastewater collection systems providing services in WHPAs. Reports will be reviewed to ensure that adequate maintenance, including but not limited to the interior cleaning of sewage lines, is performed routinely to reduce the potential for sanitary sewer overflows as required by the NCWQCS permits. Sanitary sewer overflow information can be obtained from the Division of Environmental Quality, Water Quality Section, at the Wilmington Regional Office by calling (910) 796-7215.

The Town of Newport will contact the Division of Water Quality regarding facilities permitted to discharge wastewater to the land surface (Non-NPDES Permitted Facilities) to determine if any such operations located within the WHPAs are in compliance with applicable regulatory and permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Notification will be made to the Division

of Water Quality if it is determined that any facility has failed to maintain compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Newport does not discharge water or wastewater of any sort onto the land surface and therefore is not a Non-NPDES Permitted facility.

The Town of Newport will contact the Division of Environmental Quality regarding facilities with NPDES permits to determine if all such NPDES discharges are in compliance with applicable regulatory and permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Notification will be made to the Division of Environmental Quality if it is determined that the facility has failed to maintain compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements.

Pesticide Handling and Disposal

The Town of Newport will contact all facilities or agricultural operations within the WHPAs with pesticide storage or otherwise involved with the application of pesticides to ensure that they are pesticide operator licensed by the State of North Carolina and that proper records are maintained to ensure that all NC Pesticide Laws are adhered to. Newport will provide information to these facilities or agricultural operations on waste handling practices, best management practices, standard operating procedures, and proper waste disposal methods which could be employed to reduce the potential for ground water contamination. These facilities will also be provided with information regarding the NC DEACS.

Animal Operations

The Town of Newport will contact the Division of Environmental Quality (DEQ) regarding any lagoons or animal operations located within its WHPAs if they suspect they may contaminate the ground water supply. It will also determine if facilities are in compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. Notification will be made to the Division of Environmental Quality if it is determined that a facility has failed to maintain compliance with any regulatory and/or permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. A Wellhead Protection Brochure (tri-fold) or a newsletter will be delivered to each animal operations facility, in addition to information on best management practices.

In the event of a spill, the Carteret County Emergency Coordinator will be contacted at the following number: **Carteret County Emergency Coordinator:** (252) 222-5841.

VI. EMERGENCY CONTINGENCY PLAN

The Utilities Director is the primary individual responsible for implementing contingency plans. The alternate responsibility lies with the Deputy Utilities Director and ORC, as directed. The WPC may be involved in decision-making in the event that response actions are required. Newport has a twelve (12) inch water distribution main interconnection with Morehead City for emergency water services.

Short Term Contingency Plan (less than 48 hours)

- With the occurrence of a brief power outage through the interconnection with Morehead City, the Town of Newport could supply the residents with water under emergency conditions indefinitely.
- 2. Minor contamination (e.g. sulfur dioxide, manganese, iron or bacterial contamination) would possibly require the following plan:
 - a. Minor or major flushing of the distribution system.
 - b. Possible valve closure from the elevated storage tanks and the water distribution system. Each of these would be a minor disruption of less than forty-eight (48) hours to water treatment and water distribution.
- Distribution system problems (e.g. line breaks, pump problems) would be problems
 that could be remediated or rectified in less than forty-eight (48) hours. If problems
 extend beyond forty-eight (48) hours then the long-term contingency plan would be
 implemented.
- In the event one well needs to be taken off-line, that well can be valved off and the
 other wells can be utilized for a long-term period with possible voluntary water
 restrictions.

Long Term Contingency Plan (greater than 48 hours)

Long term contingency would occur as the result of the following:

 Severe contamination resulting in an accidental spill or long-term groundwater contamination event.

If there were evidence of contamination in any of the Town of Newport's wells, they would immediately be taken off-line, and not returned to service until it is determined that the water quality is in compliance with standards governing public water supplies. Customers of the Town of Newport would be notified immediately by radio, television, and written notices delivered by hand, advising customers not to consume water until further notice. These actions would occur when/if it was determined that water supplied from a

contaminated well had been pumped into the distribution system. The Public Water Supply Section of the NCDEQ would be notified and asked for assistance.

If it were determined the contaminated water had entered the distribution system, a systematic flushing of the system would commence as well as sampling to determine the extent of the contamination involved, and possible sources of contamination. Once sampling proved the distribution to be free of contamination and after consultation with the PWSSS, the customers of the Town of Newport would be notified that their water was safe for consumption. Depending on the extent of the contamination, the well shall be abandoned or brought up to standards meeting or exceeding NC Rules Governing Public Water. If the well could not be restored to use, other areas outside the WHPAs could be considered for a new well for public water supply.

- If water from all wells at the Town of Newport were determined to be contaminated, the Carteret County Emergency Management Coordinator would be contacted and bottled water would be provided until the problem could be corrected.
- 3. The Town of Newport can receive water from Morehead City in case of an emergency.

Should a major oil or chemical spill occur within the Wellhead Protection Area, the Volunteer Fire Department and the Carteret County Emergency Coordinator will be notified first:

Police and Fire Department: 911 Carteret County Emergency Coordinator: (252) 222-5841

The potential contaminant source inventory may prove useful in determining sources of contamination and providing emergency response contact information to customers. A list of Emergency Contact Resources and Information that may be used during emergency situations can be found in the appendix.

VII. IMPLEMENTING, MAINTAINING, AND UPDATING THE WHP PLAN

Public Participation

This plan will be available for public review at any time by visiting the Newport Town Hall. The Town of Newport will post a notice in the local newspaper explaining to its customers what a Wellhead Protection Program is and how they have the opportunity to review the proposed WHPP and make comments. Any substantive comments received from the public will be considered for inclusion into the final version of the Town of Newport WHPP. An example of the Public Notification for the intended implementation of this Wellhead Protection Plan is located in the appendix.

New Public Water Supply Wells

The Town of Newport will amend its Wellhead Protection Plan to include any new wells added to its water system. The following steps will be taken to address any new wells added to the water system:

- Develop a preliminary WHPA for the proposed well to determine the area of vulnerability.
- 2. Develop a contaminant source inventory for the preliminary WHPA.
- Submit the information obtained in Steps 1 and 2 above to the Wellhead Protection Committee (WPC). Any information required by the Public Water Supply Section (PWSS) relating to the development and construction of new public water supply (PWS) wells must also be submitted.
- If the WPC grants provisional approval of the proposed Wellhead Protection Plan, and the PWSS grants approval to construct or expand the PWS well or well system, then work may proceed with well construction.
- 5. Finalize the WHPA delineation for the new well.
- 6. Finalize the contaminant source inventory for the WHPA.
- Submit finalized WHPA and contaminant source inventory to the WPC.
- Once approval is received, implement any necessary regulatory and/or nonregulatory potential source management practices.
- Submit the amended WHP Plan and all necessary supporting information to the Public Water Supply Section for review and approval.

Future Wellhead Protection

The Town of Newport is aware that an effective local Wellhead Protection (WHP) Program is an ongoing process requiring monitoring of the Wellhead Protection Areas (WHPAs) and periodic review and updating of an approved WHP plan. Therefore, Newport's WPC will monitor the Wellhead Protection Areas (WHPAs) for any new or previously unidentified potential contaminant sources (PCSs) and activities occurring within the approved WHPAs. The Town will amend the PCS inventory and other plan components (e.g. the management strategies, emergency contingency plan, etc.) as necessary to incorporate any new threats to the systems groundwater source of drinking water. Additionally, the PCS inventory will be updated annually using the same procedures used to develop the original PCS inventory. The Town will also fully update the WHP Plan every five years or at any time a new well is constructed for use with the Town's water supply system or a major land use change occurs within a WHPA. The individual(s) responsible for implementation of the WHP Plan will submit notification to the Public Water Supply Section annually upon completion of the PCS inventory update or immediately following the completion of a major revision. Any amended or revised sections of the approved WHP Plan resulting from an update or revision will also be submitted upon completion.

APPENDIX

- · Potential Contamination Sources by Risk Category
- · Description of Regulatory Databases Researched for PCSs
- · PCS Data Charts
- · Newport Emergency Contact Resources and Information
- Example of Public Notification
- Glossary or Acronyms and Abbreviations
- References
- · Carteret County Solid Waste and Recycling Locations
- · NC Division of Environment Assistance and Customer Service (DEACS) Brochure
- · Newport Educational Tri-fold Brochure on Wellhead Protection
- Managing Agricultural Fertilizer Application Flyer
- · Gas/Service Station Best Management Practices Flyer
- Well Records
- · Explanation of Aquifer Source Determination
- · Historic UST Releases Maps and Documentation

Potential Contamination Sources by Risk Category

Higher Risk Potential Contamination Sources for Ground Water PWS Systems

COMMERCIAL/INDUSTRIAL

- Automobile Body shops Gas stations Repair shops
- ° Chemical /petroleum processing/storage
- o *Sewer lines
- ° Utility right-of-way/pesticide use
- ° Chemical/petroleum pipelines
- ° Wood/pulp/paper processing and mills
- ° Dry cleaners
- ° Electrical/electronic manufacturing
- ° Fleet/trucking/bus terminals
- ° Furniture repair/manufacturing
- o Home manufacturing
- o Junk/scrap/salvage yards
- o Machine shops
- o Metal plating/finishing/fabricating
- Mines/sand or gravel excavations
- Parking lots/malls (>50 spaces)
- ° Photo processing/printing
- º Plastics/synthetics producers
- Research laboratories

OTHER

- o Road salt storage areas
- Military installations (for classified risks not otherwise listed)

AGRICULTURAL/RURAL

- ° Farm machinery repair
- ° Rural machine shops
- *Intensive livestock operations; Lagoons, spray fields
- ° Fertilizer, pesticide, and petroleum storage, distribution, handling, mixing, and cleaning areas
- °*Sewage sludge (biosolids) storage, handling, mixing and cleaning areas
- *Sewage sludge (biosolids) land application
- Unauthorized/illegal disposal of wastes/chemicals

RESIDENTIAL/MUNICIPAL

- ° Airports maintenance/fueling areas
- ° Railroad vards/maintenance/fueling areas
- ° Landfills/dumps
- o Utility stations maintenance areas
- *Septic systems high density (>1/acre)
- o *Sewer lines
- *Stormwater drains/discharges
- ° Fertilizer, pesticide, sewage sludge

Notes: 1. This is a list of potential sources of contamination not a list of known databases of contaminants.

- Higher risk potential contaminant sources are considered to have a higher potential
 for drinking water contamination than those designated moderate risk or lower risk Facilityspecific management practices are not taken into account in estimating risks and assigning these
 categories.
- 3. An asterisk [*] indicates activities that may be associated with microbiological contamination.

Potential Contamination Sources by Risk Category (Con't)

Moderate Risk PCSs

COMMERCIAL/INDUSTRIAL

- ° Car washes
- ° Cement/concrete plants
- ° Food processing
- ° Hardware/lumber/parts stores

AGRICULTURAL/RURAL

- *Auction lots
- *Boarding stables
- ° Crops, irrigated (berries, Christmas trees, hops, mint, orchards, vineyards, nurseries, greenhouses, vegetables, sod) NOTE: Drip-irrigated crops are considered lower risks.
- Drinking water treatment plant residuals/sludge application

RESIDENTIAL/MUNICIPAL

- o Drinking water treatment plants
- ° Golf courses
- Housing high density

(>1 house/.5 acres)

- Motor pools
- Parks
- Waste transfer/recycling stations Wastewater treatment plants collection stations

OTHER

- Above ground storage tanks
- ° Construction/demolition areas
- ° Hospitals
- Transportation corridors
 Freeways/state highways
 Railroads
 Right-of-way maintenance
 (herbicide use areas)
- Irrigation, water supply, or monitoring wells

Lower Risk PCSs

COMMERCIAL/INDUSTRIAL

- o Office buildings/complexes
- ° RV/mini storage

AGRICULTURAL/RURAL

- Crops, non-irrigated (grains, grass seeds, hay)
- ° *Rangeland
- o Managed forests/silviculture

RESIDENTIAL/MUNICIPAL

- Apartments and condominiums
- ° Campgrounds/RV parks
- Fire stations
- ° Schools
- Housing low density (< 1 house/.5 acres)

OTHER

- Medical/dental offices/clinics
- Veterinary offices/clinics

SOURCE: Adapted from EPA (1993), and from the Oregon Wellhead Protection Program

Description of Regulatory Databases Researched for PCSs

Animal Operations

This database contains permitted facilities for animal operations consisting of swine, cattle, poultry and horse farms that are required to have Certified Animal Waste Management Plans (CAWMP). Animal operations are defined by General Statute 143-215.10B as feedlots involving more than 250 swine, 100 confined cattle, 75 horses, 1,000 sheep, or 30,000 poultry with a liquid waste management system.

Division of Water Resources (DWR) rules mandate that all facilities in operation prior to January 1, 1994 register with the division. Since January 1, 1994 any new facilities were required to obtain a CAWMP before starting their animal operation. In addition, any facilities in operation prior to January 1, 1994 were required to obtain a CAWMP by December 31, 1997. As of January 1, 1997 all new facilities were required to obtain a permit from DWR prior to construction and be certified prior to startup, and all existing facilities were to be permitted by DWR over the next 5 years.

Data was obtained from the Division of Water Resources, Regional Operations Section, Animal Feeding Operations Branch in January of 2015. For additional information about this data, contact the Animal Feeding Operations staff by phone at 919-807-6464 or click here:

http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/animal-feeding-operation-permits/afo-program-summary to visit their web site.

CERCLIS Sites

The Superfund program was created by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and amended by the Superfund Amendments and Reauthorization Act. The acts established authority for the government to respond to the release/threat of release of hazardous wastes, including cleanup and enforcement actions. The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) is a database used by the U.S. Environmental Protection Agency to track activities conducted under its Superfund program. CERCLIS contains data on potentially hazardous waste sites that have been reported to the EPA. Sites investigated because of a potential for releasing hazardous substances into the environment are added to the CERCLIS inventory. EPA learns of these sites through notification by the owner, citizen complaints, state and local government identification, and investigations by EPA programs other than Superfund.

For additional information about this data, contact the Superfund Section by phone at 919-707-8329 or click here to visit their web site:

https://deq.nc.gov/about/divisions/waste-management/superfund-section/federal-remediation-branch

National Priority List Sites

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), amended by the Superfund Amendments and Reauthorization Act, created the Superfund program. The acts established authority for the government to respond to the release/threat of release of hazardous wastes, including cleanup and enforcement actions. Long-term cleanups at National Priority List (NPL) sites last more than a year while short term /emergency cleanups are usually completed in less than a year. Sites are listed on the NPL upon completion of a Hazard Ranking System (HRS) screening, public solicitation of comments about the proposed site, and after all comments have been addressed. Section 105(a)(8)(B) of CERCLA, as amended, requires that the statutory criteria provided by the HRS be used to prepare a list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States. This list, which is Appendix B of the National Contingency Plan, is the NPL.

The identification of a site for the NPL is intended to guide EPA in determining which sites warrant further investigation to assess the nature and extent of the human health and environmental risks associated with a site, identifying what CERCLA-financed remedial actions may be appropriate, notifying the public of sites EPA believes warrant further investigation; and serving notice to potentially responsible parties that EPA may initiate CERCLA-financed remedial action. Inclusion of a site on the NPL does not in itself reflect a judgment of the activities of its owner or operator, it does not require those persons to undertake any action, nor does it assign liability to any person. The NPL serves primarily informational purposes, identifying for the States and the public those sites or other releases that appear to warrant remedial actions.

For additional information about this data, contact the program by phone at 404-562-9634 or click here https://www.epa.gov/superfund/search-superfund-sites-where-you-live to visit their web site.

Non-Discharge Permits

The non-discharge database identifies industrial and municipal facilities that are permitted to operate any sewer system, treatment works, disposal system, petroleum contaminated soil treatment system, animal waste management system, storm water management system or residual disposal/utilization system which does not discharge to surface waters of the state, including systems which discharge waste onto or below land surface.

For additional information about this data, contact the unit staff by phone at 919-807-6453 or click here http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/non-discharge-permitting to visit their web site.

NPDES Permits

The National Pollutant Discharge Elimination System (NPDES) database identifies facilities permitted for the operation of point source discharges to surface waters in accordance with the requirements of Section 402 of the Federal Water Pollution Control Act. Point sources are discrete conveyances such as pipes or man-made ditches. Industrial, municipal, and other facilities must obtain permits if their discharges go directly to surface waters. The NPDES permit program controls water pollution by regulating point sources that discharge pollutants into public waters.

For additional information about this data, contact the program staff by phone at 919-807-6300 or click here to visit their web site:

http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/npdes-wastewater-permits

Old Landfill Sites

Locations of non-permitted landfills that closed prior to January 1, 1983, when waste disposal permitting regulations commenced. These sites are not currently in operation.

For additional information about this data, contact the Division of Waste Management staff by phone at 919-707-8200 or click here http://portal.ncdenr.org/web/wm/sf/ihs/ihsoldlf to visit their web site. Since 2000 the IHSB has conducted a geographic inventory of the old landfills in 46 counties throughout North Carolina. Although they are working to inventory the old landfill sites statewide, the geographic locations of these sites in the remaining counties are much less reliable. You may contact the IHSB for a list of the 46 counties.

PCB Sites

This database identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCBs). Concern over the toxicity and persistence in the environment of PCBs resulted in the Toxic Substances Control Act (TSCA) that prohibited the manufacture, processing, and distribution in commerce of PCBs. Thus, TSCA legislated true "cradle to grave" (i.e., from manufacture to disposal) management of PCBs in the United States. PCBs are mixtures of synthetic organic chemicals with the same basic chemical structure and similar physical properties ranging from oily liquids to waxy solids. Due to their non-flammability, chemical stability, high boiling point and electrical insulating properties, PCBs were used in hundreds of industrial and commercial applications including electrical, heat transfer, and hydraulic equipment, plastics and rubber and many other applications.

For additional information about this data, contact the PCB staff at 404-562-8512 or click here: https://www.epa.gov/pcbs/learn-about-polychlorinated-biphenyls-pcbs to visit their web site.

Pollution Incidents

This database contains information regarding the release of pollutants into the environment that have or are likely to have, impact on the ground water resources of the State. The initial information regarding these releases is usually obtained from concerned citizens or responsible parties, who report a release to the Department of Environmental Quality. After an incident is reported, regional office staff investigate the reported incident and enter the results of their investigation into a statewide database. This database contains an inventory of reported incidents from leaking underground storage tanks and sites contaminated with dry cleaning solvents. Substances released into the environment include gasoline and solvents used in the dry cleaning process.

There are two main sources for this data. The Division of Waste Management, Underground Storage Tank Section provided information on the pollution incidents that resulted from a leaking underground storage tank. The Division of Waste Management, Dry-cleaning Solvent Cleanup Act Program provided information on their sites. For additional information about this data, contact the UST section staff by phone at 919-707-8171 or click here http://portal.ncdenr.org/web/wm/ust to visit their web site. For Additional information from the Division of Waste Management, Dry-cleaning Solvent Cleanup Act, contact the staff by phone at 919-707-8369 or visit their web site at: http://portal.ncdenr.org/web/wm/dsca

RCRA Hazardous Waste Generators/Transporters

This database has records for all hazardous waste generators and transporters as defined by the Resource Conservation Recovery Act (RCRA). Hazardous waste as defined by RCRA is waste material that exhibits ignitability, corrosivity, reactivity, or toxicity. Chemical, metal, and furniture manufacturing are some examples of processes that create hazardous waste. RCRA tightly regulates all hazardous waste from "cradle to grave" (i.e., from manufacture to disposal).

For additional information about this data, contact the Hazardous Waste Section staff by phone at 919-707-8200 or click here to visit the web site:

http://deq.nc.gov/about/divisions/waste-management/waste-management-rules/hazardous-waste-rules

RCRA TSD Sites

Treatment/Storage/Disposal (TSD) sites are facilities that are engaged in the activities of the treatment, storage, or disposal of hazardous waste. Under the RCRA, TSD activity can occur only at facilities that received or stored hazardous waste after November 19, 1980, the effective date of the RCRA regulations.

For additional information about this data, contact Hazardous Waste Section staff by phone at 919-707-8202 or click here to visit their web site:

http://deq.nc.gov/about/divisions/waste-management/waste-management-permits/hazardous-waste-section-permits

Septage Disposal Sites

This database contains information on permitted, dedicated sites where septage is land applied. The Septage Management Program assures that septage (a fluid mixture of untreated and partially treated sewage solids, liquids and sludge of human or domestic origin that is removed from a septic tank system) is managed in a responsible, safe and consistent manner across the state.

For additional information about this data, contact the Septage Management Program staff by phone at 919-707-8280 or click here https://deq.nc.gov/about/divisions/waste-management/waste-management-rules/septage to visit their website.

Soil Remediation Sites

This database contains information on permitted, dedicated sites where soil contaminated by leaking petroleum or chemical storage tanks can be taken for bioremediation. Bioremediation is a treatment process that uses naturally occurring microorganisms (yeast, fungi, or bacteria) to break down, or degrade, hazardous substances. These microorganisms break down organic compounds such as petroleum products that are hazardous to humans into harmless products, mainly carbon dioxide and water.

For additional information about this data, contact the Corrective Action Branch staff by phone at 919-707-8171 or click here http://deq.nc.gov/about/divisions/waste-management/underground-storage-tanks-section/corrective-action-branch to visit their web site.

Solid Waste Facilities

Solid waste includes garbage, construction debris, commercial refuse, sludge from water supply or waste treatment plants, or air pollution control facilities, and other discarded materials. The database contains an inventory of closed, unlined landfills that were primarily operated by municipalities.

How to manage solid waste has been a problem for decades. In the early 1960s, cities and towns across the country practiced open air burning of trash. In response, Congress passed the Solid Waste Disposal Act in 1965 as part of the amendments to the Clean Air Act. This was the first federal law that required environmentally sound methods for disposal of household, municipal, commercial, and industrial waste. However, the initial design of the "sanitary" landfill fouled ground water, soil, surface water, and air because of improper disposal methods. Engineers have since designed new liners and leachate treatment systems to prevent environmental degradation.

For additional information about this data, contact the Solid Waste Section staff by phone at 919-707-8200 or click here http://deq.nc.gov/about/divisions/waste-management/solid-waste-section to visit their website.

Tier II Sites

This database contains an inventory of facilities that store types and amounts of hazardous materials and are subject to the reporting requirements of SARA Title III Section 312, Emergency Planning and Community Right to Know Act. Tier II forms require basic facility identification information, employee contact information for both emergencies and non-emergencies, and information about chemicals stored or used at the facility including:

- The chemical name or the common name as indicated on the MSDS;
- An estimate of the maximum amount of the chemical present at any time during the preceding calendar year and the average daily amount;
- A brief description of the manner of storage of the chemical;
- The location of the chemical at the facility; and
- An indication of whether the owner of the facility elects to withhold location information from disclosure to the public.

For additional information about this data contact the Division of Emergency Management staff at 919-436-2746 or click here http://www.ncdps.gov/Emergency-Management/Hazardous-Materials/EPCRA-Tier-2 to visit their website.

UIC Permits

The Underground Injection Control (UIC) Program protects groundwater quality by preventing illegal waste disposal and by regulating the construction and operation of wells used for injecting approved substances, aquifer recharge, and other activities. The most common types of injection wells in North Carolina are used for:

- Aquifer Storage and Recovery (ASR)
- Geothermal Heating and Cooling
- In-Situ Groundwater Remediation
- Stormwater infiltration effective May 1, 2012

For additional information about this data, contact the UIC Program staff by phone at 919-807-6496 or click here https://deq.nc.gov/about/divisions/water-resources/water-resources/water-resources/water-resources/water-branch/ground-water-protection/injection-wells to visit their web site.

UST Permits

An underground storage tank system (UST) is a tank and any underground piping connected to the tank that has at least 10 percent of its combined volume underground. The federal UST regulations apply only to underground tanks and piping storing either petroleum or certain hazardous substances. These facilities are regulated under Subtitle I of RCRA and must be registered with the

state and receive an operating permit annually. Until the mid-1980s, most USTs were made of bare steel, which is likely to corrode over time and allow UST contents to leak into the environment. Faulty installation or inadequate operating and maintenance procedures also can cause USTs to release their contents into the environment. The greatest potential hazard from a leaking UST is that the petroleum or other hazardous substance can seep into the soil and contaminate ground water. A leaking UST can also present other health and environmental risks, including the potential for fire and explosion. The facilities shown in this database have tanks registered with the UST Section.

For additional information about this data, contact the Underground Storage Tank Section staff by phone at 919-707-8171 or click here http://deq.nc.gov/about/divisions/waste-management/underground-storage-tanks-section to visit their web site.

PCS Data Charts

PCS Category	Map	PCS Site	Physical Location	Rick	Owner Contact	Contaminant	Quantity	Latitude	Longitude
PIRF	A-1	Conner Corporation	3337 Railroad St. Newport, NC	н	Veneer Technologies Inc PO Box 1145 Newport, NC 28570	Gasoline and Diesel Fuel	Contaminated soil adjacent to previous tank locations traveling eastward		-76.862869
ust	D-1	Handy House 7 Fac ID: 0-0024559	272 Chatham St. Newport, NC 28570	202	J.M. Davis Industries, Inc. 812 Arendell St. Morehead City, NC 28557	Gasoline, Gas Mix Kerosene, Kero Mix Diesel	91	34.792511	-76.859534
NPDES, Manufacturing	E-7, R-2	E-7, R-2 Veneer Technologies - Newport 3337 W. Railroad Blvd. Newport, NC 28570	3337 W. Railroad Blvd. Newport, NC 28570	×	Veneer Technologies Inc PO Box 1145 Newport, NC 28570	Timber Products Stormwater Discharge	Softwood Veneer and Plywood		-76.864024
Recreation Facility	F-1	Football/Baseball Field Newport Elementary School	1910 Johnson St. Newport, NC 28570	×	County of Carteret 302 Courthouse Square Suite 200 Beaufort, NC 28516	Fertilizers Herbicides	Seasonal Usage	34,792485	-76.861789
Carwash	F-1	Chatham St. Carwash	258 Chatham St. Newport, NC 28570	×	Gordon McCabe 3309 Country Club Rd. Morehead City, NC 28557	Solvents	Currently Vacant Facility		-76.859288
Water Treatment	KI	Newport Water Plant	3323 W. Railroad Blvd., Newport, NC 28570	×	Town of Newport PO Box 1869 Newport, NC 28570	Onsite Generator Salt/Brime Water Ammonia Pholyphosphate Chiorine Bleach Potassium Pom. (Lq.) Potassium Pom. (Powder)	1,200 Gal. Diesel 10,600 gal. (3) 50 gal drum (2) 50 gal drum (2) 50 gal. 300 gal.		-76.86515
Retail/Parts Store	Ξ	Newport Garden Center	291 Chatham St. Newport, NC 28570	M	Newport Garden Center Inc. PO Box 340 Newport, NC 28570	Pesticides & Herbicides	350 qt, 400 lbs	34.793285	-76.860273
Automobile Repair/Sales	M-1	Newport Motor	261 Chatham St. Newport, NC 28570	m	Margaret Hammond PO Box 576 Newport, NC 28570	Waste oils, Solvents, Motor Oils	Low Quantity	34.791946	-76.8603
Automobile Repair/Sales	M-2	Gary's Automotive	292 Chatham St. Newport, NC 28570	=	Clifton Carroll PO Box 127 Kure Beach, NC 28449	Waste oils, Solvents, Motor Oils	Low Quantity	34,79333	-76.859534
AST	N-1	Newport Elementary School	219 Chatham St. Newport, NC 28570	×	County of Carteret 302 Courthouse Square Suite 200 Beaufort, NC 28516	Fuel Oil	1,500 gal tank	34.790405	-76.861273
Machine Shop/Repair	0-1	Simmons Tractor	3309 West Railroad Blvd. Newport, NC 28570	H	Simmons Transfer Co Inc. 657 Tom Mann Rd. Newport, NC 28570	Solvents, Metals, Sludges, Lubricant and Cutting Oils, Degreasers	200 gal oil	34.797533	-76.867419
Liftstation	P-1	Newport Liftstation #2	3301 W. Railroad Blvd. Newport, NC 28570	×	Town of Newport PO Box 1869 Newport, NC 28570	Sewage, Oils and Grease	770 GPM	34,798422	-76.867676
Private Well	х-1	Rutherford Residence	2513 E. Forest Dr. Newport, NC 28570	×	Linda Rutherford 2513 E. Forest Dr. Newport, NC 28570	Potential for abandonment, storm water runoff, septic tanks	Used to fill swimming pool	34.791003	-76,865056
Private Well	X-2	Poole Residence	2507 E. Forest Dr. Newport, NC 28570	×	Ronald Poole 2507 E. Forest Dr. Newport, NC 28570	Potential for abandonment, storm water runoff, septic tanks	Used for irrigation	34.790151	-76,865408

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PCS Category	Map	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Recreational Facility	F-3	F-3 Baseball Field	1084 Orange St. Newport, NC 28570	M	Newport Babe Ruth Field NC State Prison - Newport	Fertilizers Herbicides	Low Quantity	34.782015 -76.847703	-76.847703
AST	N-2	Carteret Correctional Center	1084 Orange St. Newport, NC 28570	M	NC State Prison - Newport	Onsite Generator	150 gal	34.782269	34.782269 -76.846228
Liftstation	P-2	Newport Liftstation #1	1069 Orange St. Newport, NC 28570	M	Town of Newport PO Box 1869 Newport, NC 28570	Sewage, Oils and Grease	900 GPM	34.781126	34.781126 -76.850082
Ther II, Electrical Substation	B-3, W-1	B-3, W-1 Duke Energy	1065 Orange St. Newport, NC 28570	н	Duke Energy Progess, Inc 550 Tryson St. Charlotte, NC 28202	PCBs from transformers, Oils, Solvents, Herbicides	Unknown	34.781135	34.781135 -76.850994

Well Site: Well #5 - 219 Foxhall Rd.

PCS Category	Map 5	PCS Site	Physical Location	Rick	Owner Contact	Contaminant	Quantity	Latitude	Longitude
Ger II, Communications Fower	B-2, C-2	B-2, C-2 Time Warner Cable FCC Tower Reg. #: 1057065	520 Time Warner Dr. Newport, NC 28570	×	Time Warner Cable Southest LLC 7820 Crescent Executive Dr. Charlotte, NC 28217	Onsite Diesel Generator, Lead and Sulfuric Acid	210 gal 52 Panasonic Batteries	34.799825	-76.875922
communications Tower	3	Time Warner Cable FCC Tower Reg. #: 1044239	598 Time Warner Dr. Newport, NC 28570	M	Time Warner Cable Southest LLC 7820 Crescent Executive Dr. Charlotte, NC 28217	Onsite Diesel Generator	500 gal	34,800092	-76.87657
VPDES	E-8	Courtesy Village Aka Sand Ridge Apartments	Deer Run St.	н	Unknown	Stormwater	Varies		-76.866766
VPDES	6-3	ivision	Between Fox Hall Rd. and Cannon Blv.	н	Unknown	Stormwater	Varies	~	-76.870549
VPDES	E-10	Britthaven of Newport	210 Foxhall Rd.	н	Unknown	Stormwater	Varies	34.80036	-76.871331
arwash	G-2	Cowell's Cleaners & Laundromat & Carwash	7109 US-70 Newport, NC 28570	×	Keith D. Cowell 428 Grantham Rd. New Bern, NC 28560	Solvents	Low Quantity	34,792981 -76,877938	-76.877938
Automobile Repair/Sales	M-3	Timmy's Muffler and Alignment.	107 Cannon Blvd. Newport, NC 28570	н	Timothy Mills PO Box 1034 Newport, NC 28570	Waste oils, Solvents, Motor Oils	Low Quantity		-76.877473
Machine Shop/Repair	0-1	Simmons Tractor	3309 West Railroad Blvd. Newport, NC 28570	ш	Simmons Transfer Co Inc. 657 Tom Mann Rd. Newport, NC 28570	Solvents, Metals, Sludges, Lubricant and Cutting Oils, Degreasers	200 gal. oil	34.797533	-76.867419
iftstation	P-1	Newport Liftstation #2	3301 W. Railroad Blvd. Newport, NC 28570	×	Town of Newport PO Box 1869 Newport, NC 28570	Sewage, Oils and Grease	770 GPM	34.798422 -76.867676	-76.867676
storage	0-1	AAA Storage Ideas	7200 US-70 Newport, NC 28570	T	Storage Ideas LLC PO Box 2418 Morehead City, NC 28557	Varies	Varies	34,801791 -76,87735	-76.87735
aundromat	U-1	Cowell's Cleaners & Laundromat & Carwash (Dry cleaning performed offsite)	7109 US-70 Newport, NC 28570	ш	Keith D. Cowell 428 Grantham Rd. New Bern, NC 28560	Detergents and bleach	1 barrel of detergent at carwash	34,792637	-76.877862

Well Site: Well #6 (Proposed Site)

PCS Category	Map	PCS Site	Physical Location	Rick Category	Owner Contact	Contaminant	Quantity	Latitude	Longitude
PIRF	A-1	Conner Corporation	3337 Railroad St. Newport, NC	н	Veneer Technologies Inc PO Box 1145 Newport, NC 28570	Gasoline and Diesel Fuel	Contaminated soil adjacent to previous tank locations traveling eastward	34.790532	-76.862869
Tier II, Manufacturing	B-1, R-1	B-1, R-1 Frank Door Company	413 Howard Blvd. Newport, NC 28570	н	Great Bay Holding NC LLC PO Box 1720 Newport, NC 28570	Lacquer thinner, methonal, foam, tetrafluoroethane, polymeric diphenylmethane	55 gal. 55 gal 2 tanks 2000 lbs. 9999 lbs	34.788328	-76.872438
UST	D-1	Handy House 7 Fac ID: 0-0024559	272 Chatham St. Newport, NC 28570	ж	J.M. Davis Industries, Inc. 812 Arendell St. Morehead City, NC 28557	Gasoline, Gas Mix Kerosene, Kero Mix Diesel	(4) - 4,000 gal tanks (1) - 2,000 gal tank (1) - 2,000 gal tank	34,792511	-76.859534
UST	D-2	Handy Mart #171 Fac ID: 0-0037159	7065 US-70 Newport, NC 28570	н	E.J. Pope & Son, Inc. PO Drawer 649 Mount Olive, NC 28365	Gasoline, Gas Mix Gasoline, Gas Mix Diesel	(1) - 8,000 gal tanks (1) - 15,000 gal tank (1) - 8,000 gal tank	34.790005	-76.877343
UST	D-3	Newport BP Fac ID: 0-0036999	101 Main St. Newport, NC 28570	н	Britt Development Co. of Archdale, LLC PO Box 235 Morehead City, NC 28557	Gasoline, Gas Mix Gasoline, Gas Mix Dlesel Other Petroleum	(1) - 8,000 gal tanks (1) - 12,000 gal tank (1) - 4,000 gal tank (1) - 6,000 gal tank	34.784712	-76.858849
NPDES	E-1	Replace Bridge 43 Over Deep Creek Project B4454	Crossing of Deep Creek On Sr 1133	Н	NCDOT, FHWA	Stormwater	Varies	34.787992	-76.859014
NPDES	E-2	Town of Newport Sewer/Middle School Tr	Chatham St.	ж	Town of Newport	Stormwater	Varies	34.787992	-76.859014
NPDES	E-3	Sand Ridge Subdivision Permit Expires: 12/21/2012	Lincoln Foxhall Bayberry Graystone Roads	н	Unknown	Stormwater	Varies	34.787992	-76.859014
NPDES	£4	Town of Newport Water Treatment Improvements	Chatham St.	н	Town of Newport	Stormwater	Varies	34,787992	-76.859014
NPDES	F-5	Ken and Lisa Shipp Site Improvements Permit Expires: 12/30/2021	Chatham St.	н	Unknown	Stormwater	Varies	34,787992	-76.859014
NPDES	E-6	South Park Subdivision	Howard Blvd	н	Unknown	Stormwater	Varies	34,78751	-76.86245
NPDES, Manufactoring	E-7, R-2	E-7, R-2 Veneer Technologies - Newport	3337 W. Railroad Blvd. Newport, NC 28570	н	Veneer Technologies Inc PO Box 1145 Newport, NC 28570	Timber Products Stormwater Discharge	Softwood Veneer and Plywood	34.789892	-76.864024
NPDES	E-12	Newport - Roberts Rd. Terminal	477 Roberts Rd. Newport, NC 28570	н	Unknown	NCG080015	Unknown	34.78751	-76.86245
Recreational Facility	Ξ	Football/Baseball Field Newport Elementary School	1910 Johnson St. Newport, NC 28570	M	County of Carteret 302 Courthouse Square Suite 200 Beaufort, NC 28516	Fertilizers Herbicides	Seasonal Usage	34.792485	-76.861789
Recreational Facility	F-2	Baseball Field	290 Howard Blvd. Newport, NC 28570	Σ	Town of Newport PO Box 1869 Newport, NC 28570	Fertilizers Herbicides	Seasonal Usage	34.788559	-76.866813
Carwash	£	Chatham St. Carwash	258 Chatham St Newport, NC 28570	Σ	Gordon McCabe 3309 Country Club Rd. Morehead City, NC 28557	Solvents	Currently Vacant Facility	34.792058	-76,859288

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PCS Category Go Go Medical Facility H	FILE	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN C							
	To the second	PCS Site	Physical Location	Rick Caterory	Owner Contact	Contaminant	Quantity	Latitude	Longitude
	H-11	Family Pharmacy/Newport Family Practice	344 Howard Blvd. Newport, NC 28570	ı	Richard Bloomfield PO Box 969 Newport, NC 28570	Developers, Radiological/biologic al wastes, Disinfectants, Misc. Chemicals	Low Quantity	34.788972	-76.869744
Medical Facility H	H-2	Newport Animal Clinic	285 Howard Blvd. Newport, NC 28570	-J	Maurice F Etux PO Box 1689 Newport, NC 28570	Developers, Radiological/biologic al wastes, Disinfectants, Misc. Chemicals	Low Quantity	34.787865	-76.867313
Medical Facility H	H-3	Newport Dental Center	271 Howard Blvd. Newport, NC 28570	-3	Harry Worden PO Box 309 Newport, NC 28570	Developers, Radiological/biologic al wastes, Disinfectants, Misc. Chemicals	Low Quantity	34.787792 -76.866753	-76.866753
WWTP, NPDES 1-1,	E-11	I-1, E-11 Newport Wastewater Treatment Plant NPDES Permit #: NC0021555	160 Kirby Ln. Newport, NC 28570	Н	Town of Newport PO Box 1869 Newport, NC 28570	Sewerage System, Nitrogen, BOD, Coliform, Oils and Grease	Permitted 1.2 mgd		-76.864466
Maintenance Shop	I.	Newport Town Garage	136 Kirby Ln. Newport, NC 28570	Н	Town of Newport PO Box 1869 Newport, NC 28570	Gas & Oil	85 gal., 50 lbs		-76.864029
Water Treatment K	K-1	Newport Water Plant	3323 W. Railroad Blvd., Newport, NC 28570	Σ	Town of Newport PO Box 1869 Newport, NC 28570	Onsite Generator Salt/Brime Water Ammonia Pholyphosphate Chlorine Bleach Potassium Pom. (Lq.) (Powder)	1,200 Gal. Diesel 10,000 gal. (3) 50 gal drum (2) 50 gal drum 930 gal. 100 bs.		-76.86515
Retail/Parts Store	Ξ	Newport Garden Center	291 Chatham St. Newport, NC 28570	M	Newport Garden Center Inc. PO Box 340 Newport, NC 28570	Pesticides & Herbicide 350 qt, 400 lbs	350 qt, 400 lbs	34,793285	-76.860273
Automobile Repair/Sales M	M-1	Newport Motor	261 Chatham St. Newport, NC 28570	н	Margaret Hammond PO Box 576 Newport, NC 28570	Waste oils, Solvents, Motor Oils	Low Quantity	34.791946	-76.8603
Automobile Repair/Sales M	4-M	Doghouse Power Sports	6977 US-70 Newport, NC 28570	x	Karen McCabe PO Box 1375 Morehead City, NC 28557	Waste oils, Solvents, Motor Oils	Low Quantity	34,78629	-76.875866
AST	N-1	Newport Elementary School	219 Chatham St. Newport, NC 28570	М	County of Carteret 302 Courthouse Square Suite 200 Beaufort, NC 28516	Fuel Oil	1,500 gal tank		-76.861273
Storage	6-2	J&J Warehouse	6994 US-70 Newport, NC 28570	1	J & J Warehouses, LLC PO Box 190 Newport, NC 28570	Unknown	Varies		-76,874994
Animal Operation S	S-1 Z	Ziegler Stables	151 Mason Ln. Newport, NC 28570	×	Michael Paul Granger 144 Mason Ln. Newport, NC 28570	Animal Waste, Nitrates, Phosphates	Small Operation	34.786172	-76.869302

-76.875962 -76.865056 -76.865408 -76.864211 Used to fill swimming 34.791003 pool 34,786761 34,790151 34,783909 160 Tons of Sludge Onsite Used for irrigation Inks, Dyes, Chemicals Low Quantity abandonment, storm water runoff, septic tanks abandonment, storm water runoff, septic WQ0035628 NDP105 Potential for Potential for tanks PO Box 1869 Newport, NC 28570 William Loyd PO Box 670 2507 E. Forest Dr. Newport, NC 28570 2513 E. Forest Dr. Newport, NC 28570 Newport, NC 28570 Linda Rutherford Town of Newport Ronald Poole Σ Z n I Kirby Lane, Newport WWTP Newport, NC 28570 2507 E. Forest Dr. Newport, NC 28570 2513 E, Forest Dr. Newport, NC 28570 02-SU E993 V-1,Q-3 W.F. Loyd Printing & Mini
Storage Wastewater Residuals Distribution Program Rutherford Residence Poole Residence Well Site: Well #6 (Proposed Site) X-2 T-1 X-1 Print/Sign Shop Private Well Private Well Storage NDP

Newport Emergency Contact Resources and Information

Resources		Contact Information
	Name:	Tim White
Primary Emergency Respondent	Title:	Assistant Town Manager/Finance Officer
Primary Emergency Respondent	Office #:	252-223-4749
	Mobile #:	252-503-5917
	Name:	Bernard C. Hall IV
Secondary Emergency Respondent	Home #:	252-422-4894
	Mobile #:	252-723-3808
Third Emergency Respondent	Name:	Scotty G. Rollins
Timu Emergency Respondent	Mobile #:	252-729-1598
	Local Utilit	75-14-14-11
	Facility:	Morehead City (PWSID: 04-16-015)
Emergency Water Provider	Contact:	Daniel Williams, Director of Public Works
	Contact #:	252-726-6848 Mobile #:
	Facility:	Duke Energy Morehead Power
Electric Utility	Office #:	866-853-9162
	Fax #:	8
	Local Resou	rces
Emergency Contractor for	Contact:	Pearson Pumps/ Jerry Perason
Well & Pump Repairs	Contact #:	919-734-4267 Cell 919-580-5507
	Facility:	Carteret County Emergency Services
	Director:	Stephen Rea
	Office #:	252-222-5841
Emergency Management	Email:	stephen.rea@carteretcountync.gov
	EMS Coor.:	Jen Sawyer
	Office #:	252-222-5841
	Email:	jen.sawyer@carteretcountync.gov
	Facility:	Carteret County Health Department
Health Department	Contact #:	252-728-8550
	Fax #:	252-222-7739
Hamital	Facility:	Carteret General Hospital
Hospital	Main #:	252-499-6000
	Facility:	Carteret Co. EMS
EMS	Contact #:	252-222-5841
	Emergency #:	911
	Facility:	Newport Police Department
Police	Contact #:	252-223-5410
	Emergency #:	911
	Facility:	Newport Fire Department
Fire	Contact #:	252-223-4510
	Emergency #:	

	Facility:	WTCI (ABC - Channel 12)
	Contact #:	252-636-6840
950 METERN M. 18 18	Facility:	WNCT (CBS - Channel 9) Greenville
Local Television	Contact #:	252-355-8500
	Facility:	WFXI (FOX - Channel 8)
	Contact #:	252-638-1212
	Facility:	WTEB - 89.3 FM
	Contact #:	252-638-3434
	Email:	jbrumbaugh@publicradioeast.org
	Facility:	WNCT - AM & FM Greenville
	Office #:	252-757-0011
Local Radio	Studio #:	252-757-0788
	Facility:	WSFL - 106.5 FM
	Contact #:	252-633-1500
	Facility:	WTKF - 107.1 FM
	Contact #:	800-818-2255
I a sal Nassassassas	Facility:	Carteret County News-Times
Local Newspaper	Contact #:	252-726-7081
Sta	ate & Nationa	l Agencies
	Facility:	Public Water Supply Section
Technical Assistance	Address:	1634 Mail Service Center
Water Regulatory Agency		Raleigh, NC 27699-1634
	Contact #:	919-715-2853
Regional Water Quality, SSO's, UST	Facility:	DEQ - Wilmington Regional Office
Section, Aquifer Protection Section,	Address:	127 Cardinal Drive Ext.
Hazardous Waste Section Spills		Wilmington, NC 28405
Tiazar dous Waste Seedon Spins	Contact #:	910-796-7215 Fax #: 910-350-2004
	Facility:	NC DOT, Highway Division 2
	Contact:	David Livingston, Hwy. Maint. Engineer
NC Department of Transportation	Address:	139 Masontown Rd.
	12	Newport, NC 28570
	Contact #:	252-223-4811
	Facility:	National Guard North Carolina
NC Army National Guard	Address:	3413 Bridges St.
en en verske tradente e 🕊 ver een 1942 van 1950 en 1960 en 19		Morehead City, NC 28557
	Contact #:	252-726-5045
140	Facility:	NCRWA
Technical Assistance	Address:	PO Box 590
Education		Welcome, NC 27374
	Contact #:	336-731-6963
	Facility:	NC Coop. Ext. Services - NCSU
Educational Brochures	Address:	Campus Box 7602
Publications		Raleigh NC 27695-7602
- abileations	Contact #:	919-515-2811
	Website:	www.bae.ncsu.edu

	Facility:	US EPA Regional Office
	Address:	61 Forsyth St SW
AST Information	1	Atlanta, GA 30303
	Contact #:	404-562-8761
	Website:	www.epa.gov/oilspill
	Facility:	US EPA Regional Office
Educational Brochures	Address:	61 Forsyth St SW
Publications	ridar essi	Atlanta, GA 30303
(GW & UIC Section)	Contact #:	404-562-8761
	Website:	www.epa.gov
Non-	Contact:	Justin Graney
NC Emergency Management	Work #:	919-825-2286
Regional Response Team	Report #:	919-861-3098
EDA Cuill Donouting	Facility:	US EPA Regional Office
EPA Spill Reporting	Contact #:	1-800-241-1754
	Facility:	NC DEACS
Technical & Non regulatory Wests	Address:	1639 Mail Service Center
Technical & Non-regulatory Waste Reduction Assistance		Raleigh, NC 27699-1639
Reduction Assistance	Contact #:	919-707-8100
	Website:	http://ncenvironmentalassistance.org/
	Facility:	National Small Flows Clearinghouse
		West Virginia University
Source Water Protection	Address:	PO Box 6064
Educational Materials		Morganton, WV 26506-6064
Educational Materials	Contact #:	1-800-624-8301
	Website:	http://www.nesc.wvu.edu/smart/products/
		education.cfm

Example of Public Notification

The Town of Newport, with assistance from the North Carolina Rural Water Association, is in the process of updating our Wellhead Protection Program. This is a voluntary program intended to assist us in protecting the system's water supply from contamination, and to identify vulnerable areas around our wells called the "Wellhead Protection Areas". Another goal of this program is to make residents and businesses aware that chemicals and other pollutants spilled or dumped in the vicinity of the "Wellhead Protection Areas" can be drawn into the well, possibly contaminating the system's drinking water supply.

Town officials are seeking your input while updating this program. A draft copy of the revised Wellhead Protection Plan will be available for review and comment at the Town Hall, for a period of fifteen (15) days. You are invited to review the program, and submit any comments or suggestions to the Town of Newport. All written public comments will be reviewed by the Wellhead Protection Committee, and any suggestions or comments that may be beneficial will be incorporated into the program.

If you have any questions or comments, please feel free to contact Mr. Tim White, Interim Utilities Director, at (252) 223-4749.

The underlined portion is required. The time period and other wording is optional.

- Advertise the public notice in The Carteret County News-Times or other local newspaper. Keep the affidavit or cut a clipping from the paper.
- · Mail a copy of the plan, the affidavit or clipping, and a cover letter to PWS.
- The cover letter should state that you have read and agree with the plan, and have the authority to implement it.

The plan, proof of public notice, and the cover letter should be mailed to:

Mr. Gale Johnson, P.G. Public Water Supply Section 1634 Mail Service Center Raleigh, North Carolina 27699-1634

Glossary of Acronyms and Abbreviations

EPA-Environmental Protection Agency

DEQ-Division of Environmental Quality

UST-Underground Storage Tank

AST-Above ground Storage Tank

VOC-Volatile Organic Compound

SOC-Semi-volatile Organic Compound

PWS-Public Water Supply

PWSS-Public Water Supply Section

WPC-Wellhead Protection Committee

WHPP-Wellhead Protection Program or Plan

WHPA-Wellhead Protection Area

Gpm-gallons per minute

PCS-Potential Contamination Source

NPDES-National Pollutant Discharge Elimination System

SPCC-Spill Prevention Control and Countermeasures

UIC-Underground Injection Control

DEACS-Division of Environmental Assistance and Customer Service

ORC-Operator Responsible in Charge

WOCS-Water Quality Collection System

SWAP-Source Water Assessment and Protection

SWDA-Solid Waste Disposal Act

DWR-Division of Water Resources

EPCRA-Emergency Planning and Community Right to Know Act

PIRF-Pollution Incident Reporting Form

CWA-Clean Water Act

ECHO-Enforcement and Compliance History Online

CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act

OERR-Office of Emergency and Remedial Response

NCP-National Contingency Plan

RCRA-Resource Conservation and Recovery Act

TRI-Toxic Release Inventory

NCDA-North Carolina Department of Agriculture

References

Soil Survey of Carteret County, North Carolina https://www.nrcs.usda.gov/Internet/FSE MANUSCRIPTS/north carolina/NC031/0/carter et.pdf

Health, Ralph C. and M. Gale Johnson, (July 2001). *Proposed Revisions to the North Carolina Wellhead Protection Program.* North Carolina Public Water Supply Section.

SWAP Info 2.0:

http://nc.maps.arcgis.com/apps/webappviewer/index.html?id=d93b2cf7732340399fb7df 5b3ff5c287

North Carolina Department of Environmental Quality, Division of Environmental Health, Public Water Supply Section, The North Carolina Wellhead Protection Guidebook, Developing a Local Wellhead Protection Program, 2003

Carteret County website: http://www.carteretcountync.gov/

Town of Newport website: http://townofnewport.com/

Source Water Assessment Report for the Town of Newport (2015, July 4). Retrieved from: http://www.ncwater.org/files/swap/SWAP Reports/0416020 7 4 2015 85 11.pdf

2016 Local Water Supply Plan, North Carolina Division of Water Resources: http://www.ncwater.org/Water Supply Planning/Local Water Supply Plan/report.php?pwsid=04-16-020&year=2016

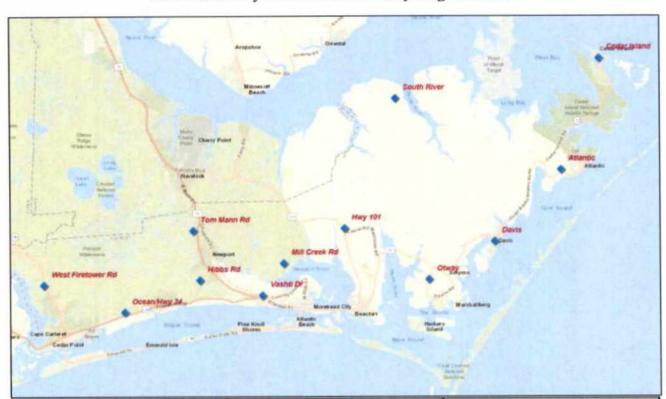
Ground Water Division, North Carolina Division of Water Resources, NC Division of Environmental Quality: http://www.ncwater.org/?page=20

NC DEQ, Division of Water Resources, Drinking Water, Drinking Water Protection Program http://nc.maps.arcgis.com/apps/webappviewer/index.html?id=d93b2cf7732340399fb7df 5b3ff5c287

NC Division of Emergency Management http://www.ncdps.gov/Our-Organization/Emergency-Management

NC DEQ, Division of Waste Management, UST Section, Laserfiche Weblink for UST archives http://edocs.deq.nc.gov/WasteManagement/Welcome.aspx?cr=1

Carteret County Solid Waste and Recycling Locations



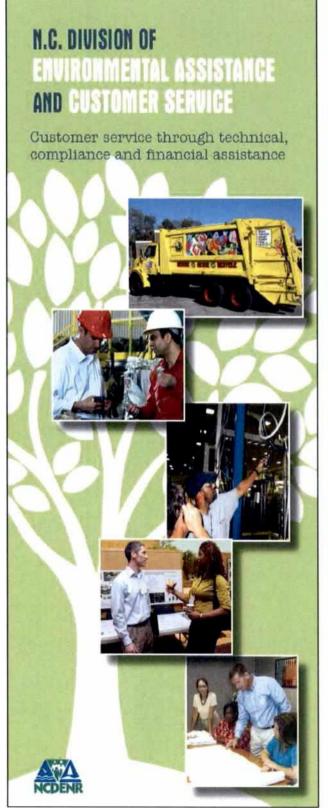
West Firetower Rd.	Vashti Dr.	Otway
1250 West Firetower Rd.,	150 Vashti Dr.	485 Harkers Island Rd.
Swansboro, NC 28584	Morehead City, NC 28557	Beaufort, NC 28516
Phone: (252) 723-8258	Phone: (252) 723-8276	Phone: (252) 723-8266
Ocean/Hwy 24	Mill Creek Rd.	Davis
200 Pringle Rd.	2185 Mill Creek	585 Hwy 70
Newport, NC 28570	Newport, NC 28570	Davis, NC 28524
Phone: (252) 723-8122	Phone: (252) 723-8277	Phone: (252) 723-8265
Tom Mann Rd.	Hwy 101	Atlantic
510 Tom Mann Rd.	2664 Hwy 101	Winston Dr.
Newport, NC 28570	Beaufort, NC 28516	Atlantic, NC 28511
Phone: (252) 723-8037	Phone: (252) 723-8280	Phone: (252) 723-8264
Hibbs Rd.	South River	Cedar Island
800 Hibbs Rd.	1225 South River Rd.	3401 Cedar Island Rd.
Newport, NC 28570	Beaufort, NC 28516	Cedar Island, NC 28520
Phone: (252) 723-8075	Phone: (252) 723-8275	Phone: (252) 728-8406

Hours of Operation

Monday, Tuesday, Thursday, Friday, and Saturday - 7 AM - 6 PM Wednesday - 2 PM - 6 PM Sunday - 1 PM - 6 PM

For a listing of acceptable materials, please visit their website at:

http://www.carteretcountync.gov/470/Solid-Waste-Recycling





2000 copies of this public document were printed on 100% recycled content and FSC certified paper

Newport Educational Tri-fold Brochure on Wellhead Protection

MAINTAIN YOUR SEPTIC

Septic system maintenance comes down to treated household wastewater poses dangers to drinking water and to the environment Groundwater contaminated by poorly or unfour key elements:

- Inspect and Pump Frequently
 - Use Water Efficiently
- Properly Dispose of Waste Maintain Your Drainfield

For more information on septic systems and system care, please visit www.epa.gov/septic.



(252) 223-4749 Newport, NC 28570 PO Box 1869 Town of Newport

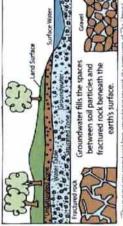
OF GREASE

sewer pipes, restricting water flow. As more and more fats, oils and grease accumulate, the Please be proactive in fighting grease, don't Grease sticks to the insides of drain pipes and greater the chances of a back-up. Sewage can back-up into your tubs or toilets, even worse, it can overflow into streams and groundwater pour it down the drain!!!



WHAT IS GROUNDWATER?

Groundwater is the water found underground logic formations of soil, sand and rocks called water it pumps from the ground using three It is stored in and moves slowly through geoaquifers. The Town of Newport uses groundin the cracks and spaces in soil, sand and rock. wells located in our service area.



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PROTECTION PROGRAM THE WELLHEAD

implement a Wellhead Protection Program to protect its water supply from contamination. As a part of the program, we have identified and other pollutants spilled or dumped in bly contaminating our community's danking water supply. Residents and businesses in this other pollutants. Help us to preserve our the vulnerable area around the well sites called the "Wellhead Protection Area". Chemicals these areas can be drawn into the well, possi area must be very careful with chemicals and water quality for our current and future needs. Town of Newport continues

POLLLITION SOURCE

pollute our surface water and groundwater. Sources of groundwater pollution include: Many things we do in our daily lives can



Used oil, paint thinner, gasoline and other chemicals poured on the ground.



(aboveground and underground). Leaking fuel storage tanks



on lawns, golf courses and agriculture Overuse of pesticides and fertilizers



Chemical spills at businesses, farms and along highways.



Failing septic tanks.



Improperly abandoned wells. I



Farm machinery repair shops/ Automobile repair shops 8





◆ Animal Feedlot/Animal Waste Stor-

HOW CAN YOU HELP?

Water is our most valuable natural resource and we are responsible for protecting it! You can help by doing your part to protect our supply by supporting this program, Here are some tips:

- Never pour used oil, paint thinner or ground or down the drain. Take them to other hazardous chemicals on the a recycling center or to a Household Hazardous Waste Collections Day.
- Check for and fix leaks in storage tanks (i.e. home heating oil/kerosene) at your home or business.
- Inspect and pump your septic tank as Have any unused wells on your property
- Minimize your use of pesticides and fertilizers, storing them properly. properly abandoned.
- Clean up junk and debris on your property.
- Report all chemical spills immediately.
- Encourage community leaders and businesses to do everything possible to protect our drinking water supply.



Managing Agricultural Fertilizer Application Flyer



Managing Agricultural Fertilizer Application



NELLHEAD PROTECTION PROGRAM

MANAGING FERTILIZER USE NEAR DRINKING WATER SUPPLIES

nant level (MCL) of 10 milligrams per liter (mg/l) for nitrate measured as nitrogen. The goal of the prevention measures, as described below, are to through field runoff or leach into ground water. The two main components of fertilizer that are of greatest concern to public drinking water supplies are nitrogen (N) and phosphorus (P). Grop producers need to match nitrogen applications to crop uptake to minimize nitrate leaching and maximize effiminimize nutrient losses from agricultural land occurring by edge-of-field amounts of nutrients necessary to produce the crop, applying nutrients at the If improperly managed, elements of fertilizer can move into surface water ciency. Due to health risk, the EPA set a drinking water maximum contamirunoff and by leaching from the root zone. This can be achieved by developing a comprehensive nutrient management plan and using only the types and proper times and with proper methods, implementing additional farming practices to reduce nutrient losses, and following proper procedures for fertilizer storage and handling.

APPLICATION RATES AND FERTILIZER TYPES

- Limit fertilizer to an amount necessary to achieve a realistic goal
- Perform yearly soil sampling to determine nutrient needs
- When calculating rate of application, credit other sources to include nitrogen and phosphorous contributions from previous legume crops, irrigation water, manure, and organic matter
- Understand and follow fertilizer yield goals based on soil properties, available moisture, yield history, and management level
- Apply the appropriate form of nitrogen fertilizer based on soil and weather con-

APPLICATION PRACTICES



Inspect and calibrate equipment annually Correctly place fertilizer in the root zone to ensure accurate application amounts to enhance plant nutrient uptake which Apply product during maximum crop

can apply water uniformly.

Manage irrigation water due to the large precision applicators, surges and drips amount of water applied. Sprinklers,

minimalizes loss

Gas/Service Station Best Management Practices Flyer



Gas/Service Station Best Management Practices



WELLHEAD PROTECTION PROGRAM

Gas Stations Can Be the Source of Several Contaminants

- Oil and gas spilled onto paved areas are easily washed away by water, either from hoses or rainfall
- Engine and brake residues contain antifreeze, grease, oil, copper, and even asbestos.
- Engine degreasers contain copper and brass
- Lead, oil, and grease are residues of radiator flushing
- Oil, grease, and detergents drain from car washing
- Engine washing releases aluminum and iron
- Brakes are a source of asbestos and cadmium washes from tires.

WHAT CAN YOU DO?

Fuel Dispensing Areas

- absorbents for leaks and spills. Never wash down fueling areas unless the water is collected and disposed of properly. An adequate supply of absorbent materials Maintain fuel dispensing areas using dry methods such as sweeping or use rags and should be kept on hand. D
- Fit fuel dispensing nozzles with automatic shutoffs. 回回
- Post signs at the fuel dispenser or fuel island discouraging vehicle owners/operators against "topping off" fuel tanks.
 - Emergency shutoff switches should be plainly labeled.
 - Underground storage tanks should be fitted with spill containment and overfill prevention systems. 回回

General Facility

- Clean leaks and drips on a routine basis, and dispose of cleaning materials properly.
- Manage materials and waste to reduce adverse impacts on storm water quality.
- failure, along with a plan to prevent it from reaching groundwater. The plan should describe containment and/or diversionary structures or equipment needed. Steps should be taken to ensure the necessary equipment, personnel and other resource Prepare and maintain a spill response plan. The plan should include an estimate of the maximum quantity of fuel that could be spilled in the event of an equipment availability, 回回回
 - All employees should be trained (upon hinng and annually thereafter) on the spill response plan and proper disposal of waste. [2]
 - The facility should post a notification list including the names and contact information for local management, remote management, fire and police, local and state agencies that need to be notified and spill response contractors. D
 - Dispose of waste oil properly and recycle used oil filters (NC House Bill 1465 pro-hibits the disposal of oil filters in landfills). Σ



Pearson Pump Sales & Service, Inc.

P.O. Box 1254 Goldsboro, North Carolina 27533 (919) 734-4267

Well Owner: Town of Newport

Well No: 3

Pumping Test Data After Installation of New Screens and Liner

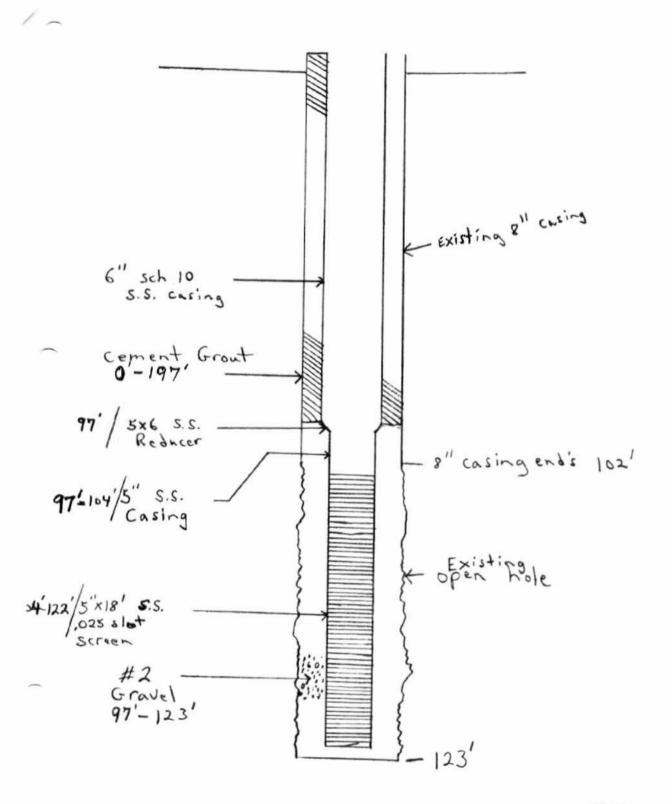
Time	Pumping Level	Flow Rate GPM	Remarks
12/2/2008			Static Water Level
2:10 p.m.		0	Start Pump
2:20 p.m.	48' - 6"	406	
2:50 p.m.	51'	406	
3:10 p.m.	51' - 6"	403	
3:25 p.m.	51' - 10"	403	
			*left pump running overnight
12/3/2008			
2:10 p.m.	53' - 6"	400	Specific Capacity 12.3 Gal/Ft

Test Conducted By: Pearson Pump Sales & Service, Inc.

- NC General Contractor PU License No. 27330
- NC DENR Well Contractors Certification No. 2948
- NC Pump Installation Contractor No. 389

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Newport Well #3 Reline





*	SALES & SERV GOLDSBORO,
	Customer Name: TOWN OF NEWPORT Well #: Date:
COLUMN LENGTH	Well Size 8 × 6 Well Depth 123' Static Water Level 21' Date Recorded 1220
	Column Pipe: Size 4" Length 84' Material GALV
	Submersible Pump Cable: Size 6/3 Length 94' DBL JACKET
	Size 3 Type Black Length 84
<u>> □ </u>	Check Valve: None Size Type Material
	Pump Data: Make NATIONAL Model SE 6 XHC Stages 3-6 400 GPM @ 95' TDH Serial Number 678440
	Motor Data: Manufacturer FRANKLIN HP 15 Voltage 230 Phase 3 Cycle 60 RPM 3450 Motor Date Code 08F19 HERTER K75
	VIDEO: 12/2/08 WELL RELINE

ANDENIAL AND COMMERCIAL

CT 1601

PUMP SALES AND SERVICE

15 0053 WCOOK

REGISTER _____ WELL CO., INC.

LEE REGISTER
PHONE: 289-3105

Route 2, Box 2 Rose Hill, North Carolina 28458 W18K 344704 765048

lown of Newport

ECEIAE

APR 13 1983

WILMINGTON REGIONAL OFFICE DEM

i" Water Level Pipe Cement Grout -10" Inner Casing 60 ft. Bottom of 20" Outter Casing 66 ft. Top of 18ft. Screen 92 ft. Top of 12 ft. Screen -105 ft. -128 ft. Top of 15 ft. Screer -147 ft. Top of 15 ft. Screet

Note: All Screens are 304 Stainless Steel rod base construction with .030 openings. HEAD COMPLETION: Draw a sketch of the well head showing casing, pump poseals, vents, access port, grout, and enclosure.

WELL LOCATION: Draw a location sketch showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

From well site to Johnson St., approx. 1/8 mi. From well site to W. Railroad Blvd., approx. 150'

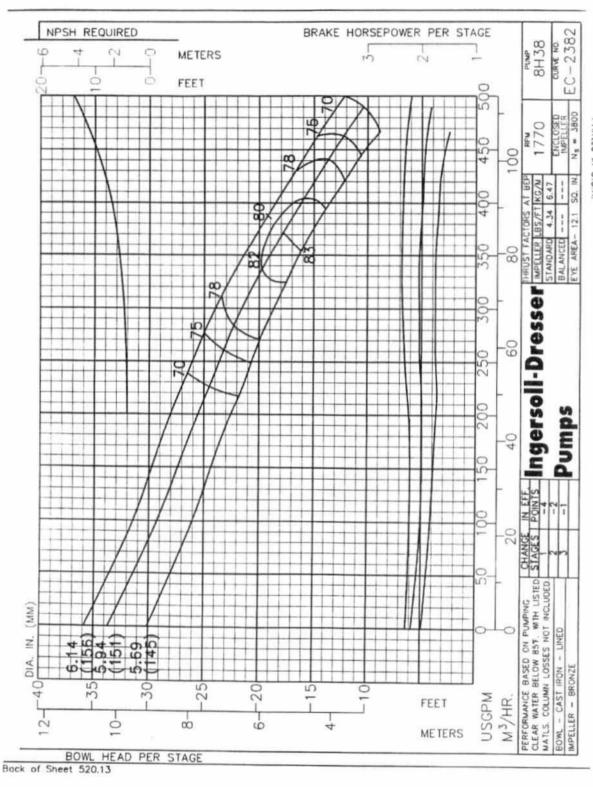
TOWN OF NEWPORT, N. C.



Pearson Pump Sales & Service, Inc.

VERTICAL TURBINE PUMP AND WELL DATA

	Customer: TOWN OF NEWPORT
	Well No:4 Date: 10/18/2000
MOTOR:	Make <u>US #F-431</u> Type <u>AUI</u> Bore <u>1"</u> HP <u>30</u> NRR <u>yes</u> VOLT <u>230/460 RPM 1800</u> PH <u>3 SF 1.15</u> CYCLES <u>60</u>
	SHAFT: 2 PC 1 PCX CHECK ONE MOTOR SHAFT SIZE _1" LENGTH _99 1/4"
41 1/2	TOP SHAFT SIZELENGIH _99 1/4"
55'-6" PUMP:	Make MODEL 8H38 STAGES 10
	GPM 400 e 181' TDH SN: 0008FGF00446-1 PROJECTION 14" STRAINER 6" TYPE galv cone
प्रंच	Impelier: Type: closed Size: full trim
	Discharge Head Size existing Make Goulds 6x6x12.5
5' 06 6"	PUMP SHAFT SIZE 1 1/4 X96 3/8 X 1" PKG 3/8
Suction	TOP COLM LENT 18" STUFF BX BUSH 1 X 1 1/4X 1 3/4
Pipe H	COLM PIPE SIZE 6"
6" Technocheck & galv. cone strain	Well Size 10" Well Depth 167' Static 5' er FORM: WD.593



1993 Ingersoll-Dresser Pump Company Printed in U.S.A.



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

WELL CONTRACTOR CERTIFICATION# 2936

1. WELL CONTRACTOR:	Top of casing terminated after below land surface may require
Well Contractor (Individuel) Name	a variance in accordance with 15A NCAC 2C ,0118.
Magette Well & Pump Co., Inc.	a. YIELD (gpm): 400 METHOD OF TEST 24 hr. test
STREET ADDRESS 2342 US 13 South	g. WAYER ZONES (depth): From 73 To 93 From To
Ahoskie NC 27910 City or Town State Zio Code	From 110 To 125 From To
(252) 332-2265	From To From To Thickness/
Area code Phone number 2. WELL INFORMATION:	Deoth Diameter Weight Material
SITE WELL ID #(# applicable)	From +1 To 41 Ft 18" 375 Steel From +3 To 73 Ft 8" 322 galy
STATE WELL PERMITS(N applicable) WS0899749	From 93 Tol10 Ft 8" .322 galv.
DWQ or OTHER PERMIT #(# applicable) WELL USE (Check Applicable Box) Monitoring Municipal/Public 6	7. GROUT. 25 Depth 35 Bateriel - 322 96186-
Industrial/Commercial Agricultural Recovery Injection	From 0 To 58 Ft neat cement pump
Imgetion() Other () (fall use)	From 58 To 68 F bentonite pump
DATE DRILLED_12/20/05	From To FI
TIME COMPLETED 5:00 AND PMIX	From 73 To 93 Ft.8" m050m stainless
3. WELL LOCATION:	From 110 To 125 R. 8" n. 050h stainless
COUNTY Carteret	From To Ft h h
Foxhall Road (Street Name, Humbers, Community, Subdivision, Lot No., Parcel, Zip Code)	9. BANDIGRAVEL PACK: Depth Size Meterial
TOPOGRAPHIC / LAND SETTING:	From 68 To 135 Ft 3 Southern Product
(check appropriate box)	From To Ft.
LATITUDE 3 4D 48.990 May be in degrees, minutes, anounds or	From To Ft.
LONGITUDE 7 6D 52.355 in a decimal format	10. DRILLING LOG From To Formation Description
Latitude/longitude source: MGPS DTopographic map	0 - 5 sandy topacil
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)	5 - 34 sand
4. FACILITY: It for name of the business where the work is because	44 - 95 limestone shells & sand
FACILITY ID #(V applicable)	95 - 107 limestone, fine sand
NAME OF FACILITY TOWN of Newport	clay traces
STREET ADDRESS 200 Howard Blvd.	107 - 128 limestone
Newport NC 28570	128 - 140 limestone & fine sand
City or Town State Zip Code	
CONTACT PERSON Clay Delany	
MAILING ADDRESS PO Box 1869	
Newport NC 28570	11. REMARKS:
City or Town State Zip Code	specific capacity 17.3 qpm/ft dd
(252) 223-4749 Area code - Phone number	
S. WELL DETAILS:	I DO HEREBY GERTEY THAT THIS WELL WAS CONSTRUCTED IN ADDORDANCE WITH 154 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS
TOTAL DEPTH: 135'	I VECOME LAST DESCRIPTION OF TO THE MET DANNER
B. DOES WELL REPLACE EXISTING WELL? YES D NO CX	SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE
c. WATER LEVEL Below Top of Casing: 13.27 FT. (Use *** If Above Top of Casing)	BODDY L. Harrell PRINTED NAME OF PERSON CONSTRUCTING THE WELL
	THE WILL OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: information Mgt., 1817 Mail Service Center - Raieigh, NC 27698-1617 Phone No. (919) 733-7016 ext 568.

Form GW-1b Rev. 7/05

	North Caro	lina Departm	ent of Environ	nment and Natur	al Resources		
			ision of Wate				
	127 Cardinal	Drive Extens	ion - Wilming	ton, North Caroli	na 28405-384	5	
Pumping Test Record	1				Constant		
				Site:	Newport V	Vell #5	
lest Conducted By: Foldesi	(GMA)		Well Constr	uction Permit No.	WS08997	49	
. WELL LOCATION:	Nearest Tn.	Newpo	rt		County:	Carteret	
				_	Quadrangle:	Newport, NC	
2. OWNER:	Town of New	port, Altin. Cli	ny Delaney	200 Howard I	BMd. Newport	NC 28570	
		Name			Address		
3. USE OF WELL:	() Domestic		(X) Public		() industry		() Other
4. WELL DEPTH:	135	ft. Casin	g Diameter:	8	in. Casing	type:	Galv. Stee
5. DRILL.CONTRACTOR:	Magette Well	and Pump C	ompany		Was casing	grouted?	Yes
6. STATIC WATER LEVEL	4	13.27	feet below	top of casing			
B. STATIC WATER LEVEL Date measure		13.27 12/20/2005		top of casing Casing is:	3	ft. above land	surface.
Date measure			5			ft. above land gpm/ft-dd	surface.
Date measure 7. WELL YIELD	ed 400	12/20/2005	5	Casing is:			surface.
Date measure 7. WELL YIELD 8. PUMPING WATER LEV	ed 400	12/20/2005 gpm	5	Casing is: Specific capacity		gpm/ft-dd	
Date measure 7. WELL YIELD 8. PUMPING WATER LEV 9. CHLORINATION:	400 EL:	12/20/2005 gpm 23.11'	-	Casing is: Specific capacity	17.31 Amount	gpm/ft-dd 400	gpm
6. STATIC WATER LEVEL Date measure 7. WELL YIELD 8. PUMPING WATER LEV 9. CHLORINATION: 10. TIME AND DATE PUM 11. WATER LEVEL MEAS.	400 EL: Type P STARTED:	12/20/2005 gpm 23.11'	20/2006 F	Casing is: Specific capacity After 24 hrs	17.31 Amount	gpm/ft-dd 400 4 Lbs	gpm
Date measure 7. WELL YIELD 8. PUMPING WATER LEV 9. CHLORINATION: 10. TIME AND DATE PUM	400 EL: Type P STARTED:	12/20/2005 gpm 23.11' HTH 13:05:00 12	20/2005 er ucer	Casing is: Specific capacity After 24 hrs PUMP STOR	17.31 Amount	400 400 4 Lbs 12/21/2005 13	gpm

Town of Newport Well #5 Pumping Test

Project Name: Newport	Project Local	ion: Town of Newp	ort
D Toot Monitoring I		T	- · · · ·

	est Monitoring Log	Form	Well # 5	Static Level: 13.27
Date 12/20/2005 S		Start Time		13:05:00
Time (min)	Water Level (ft)	Drawdown (ft)	C	omments
0.25	25.25	11.98	Start	at ~450 gpm
0.5		13.20		
0.75		13.27		
1		13.95		400 gpm
1.5		14.40		ioo gpiii
1.75		14.65		
2		14.85		
2.5		15.16	Slight adia	st up to 400 gpm
3		15.54	Oligin days	
3.5		15.80		
4		16.00		
4.5		16.24		
5		16.40		
5.5		16.56		
6		16.71		
6.5		16.84	4	00 gpm
7		16.97		
7.5		17.10		
8		17.18		
8.5	30.54	17.27		
9		17.37		
9.5		17.46		
10		17.55		
11		17.69		
12		17.83		
13		17.97	4	00 gpm
14		18.08		
15		18.20		
16		18.24		
17		18.34		
18		18.47		
19		18.54		
20		18.60		
22		18.77		
24		18.92	Slight adju	st up to 400 gpm
26		19.04		
28		19.16		
30		19.23	111000000000000000000000000000000000000	
32	32.59	19.32	Slight adju	st up to 400 gpm
34	32.70	19.43		

Town of Newport Well #5 Pumping Test

Project Name: Newpor		on: Town of New	port
Pumping Test Monitor	ing Log Form	Well # 5	Static Level: 13.2
Date 12/2	20/2005 Start Time		13:05:00
Time (min) Water Leve	ol /#\ D1 /#\		

	est Monitoring Log	Form	Well # 5 Static Le	vel: 13.27'	
Date			13:05:00		
Time (min)	Water Level (ft)	Drawdown (ft)			
36		19.51			
38	32.85	19.58			
40	32.93	19.66			
45	33.11	19.84			
50	33.23	19.96	400 gpm		
55	33.35	20.08			
60	33.43	20.16			
65		20.31			
70	33.69	20.42			
75		20.49			
80	33.82	20.55			
85		20.66	Slight adjust up to 40	0 gpm	
90	34.03	20.76			
95	34.10	20.83			
100	34.17	20.90	Slight adjust up to 40	0 gpm	
110	34.29	21.02			
120		21.11	Slight adjust up to 40	0 gpm	
130	34.56	21.29			
140		#VALUE!			
150		21.40	400 gpm		
160		21.46			
170		21.51	400 gpm		
180		21.62			
190		21.64	400 gpm		
200		21.70			
220		21.80			
240		21.90	400 gpm		
260		21.98	Slight adjust up to 400		
280		22.05	Slight adjust up to 400) gpm	
300		22.12	01: 1. 1: 1 1. 10		
330		22.21	Slight adjust up to 400		
360		22.31	Slight adjust up to 400) gpm	
390		22.40	400 gpm		
420		22.44	Slight adjust up to 400		
450		22.51	Slight adjust up to 400		
480	35.84	22.57	Slight adjust up to 400	gpm	
510		22.62	400 gpm		
540	35.92	22.65	400 gpm		
600	36.00	22.73	Slight adjust up to 400	gpm	
660	36.09	22.82	400 gpm		

Town of Newport Well #5 Pumping Test

Project Name: Newport Project Location: Town of Newport

Pumping Te	est Monitoring Log		Well # 5 Static Level: 13.27		
Date			13:05:00		
Time (min)		Drawdown (ft)	Comments		
720		22.84	Slight adjust up to 400 gpm		
780	36.10	22.83			
840	36.18	22.91			
900	36.25	22.98	400 gpm		
960	36.26	22.99			
1080	36.29	23.02			
1200	36.34	23.07	400 gpm		
1320	36.36	23.09			
1440	36.38	23.11			

Notes:

Notes:	
GMA Project #:	80401
Measuring Point Description:	Top of Drop Tube
MP Height above Land Surface:	3'
Pump Intake Depth:	68'
Well Pipe ID:	8"
Target Q:	400 gpm
Flow Meter Description:	Orifice Weir
Pumping Equipment Contractor:	Magette Well and Pump Co.
Person Recoring Data:	Chris Foldesi (GMA)/ Tracy (Magette)

Pearson Pump Sales & Service, Inc.

919-734-4267 BOWL ASSEMBLU 5 STAGES (2) TRIM 5.900 DISC MOTOR EXISTING 60 256 TPH Column Pips 5" ×5" Top PC (THRD COLM) **55**′ (4)5"x 10' Int PCS COL TPL 109' AIRBURST 48³/4" B 4" x 50' PYC CERTA-LOK EXTENDED SUCTION

Customer:	TOWN	OF	NEWPORT	Location:	WE	LL 5	
Date:	3/20/20	ıa		Serial Number:	BOWL	1203 FGF	11230-
	•	•			PP	OTOSIORE	>



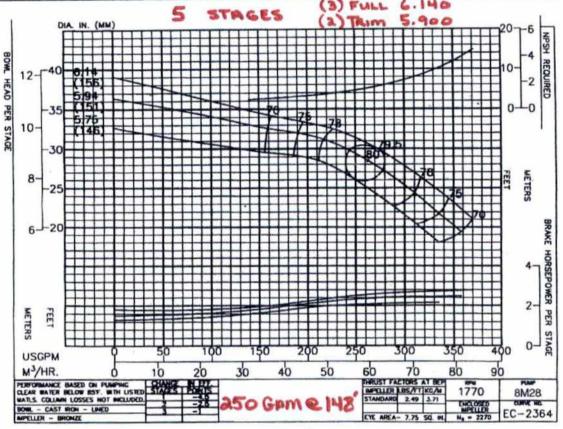
NC General Contractor PU License No. 27330 NC Well Contractors No. 2948-A



8M28

01-JUNE-2000 NEW SHEET

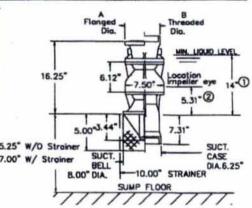
IMPELLER CURVES



Calumn	Nom, Size	Max. GPM	*A* Flanged	"B" Threaded
Optional	4*	200	7.50*	5.50*
Standard	5*	400	9.50*	6.25*
Optional	6.	600	9.50*	7,50"
		RATINGS		
Max. Pressure	= 533 psi based	on Class 30 Iron	bowls	
Impeller and St	naft Weight = 7.6	pounds per stag	е	
Pump Shaft	Diameter = 1.3	25 inches		
, multiplication	Max. HP. = 11	5 with 416 SS Pu	mp Shaft	
Line Shaft Size	1.00	1.25	200	
Line Shaft H.P.	57	115		
	Additional Data	1		
Max. Operating	Speed.	3600		
Max. No. of Sta	ges	20]	
Max. Sphere Siz	ze	.28]	
End Play		.44]	
WR 2 Per Stag	e	14	1	
Bowl Ring Clear	rance	.004006	1	

0.125

(1) Minimum submergence required to prevent vortex formation. The submergence needed to provide adequate NPSH to the first stage. Impeller may be greater or less than shown. The larger of the two values must be used to determine actual minimum allowable submergence.



- (2) Location of eye of first stage impeller. Used to calculate NPSH. This is also the minimum priming submergence. (See note 1).
- (3) Vertical Impeller to Bowl running clearance after shaft stretch.

All Specifications Subject to Change Without Notice.

Impeller Running Clearance (3)

Groundwater Catalog

WELL 5 3/20/2012



Explanation of Aquifer Source Determination

Explanation of Aquifer Source Determination

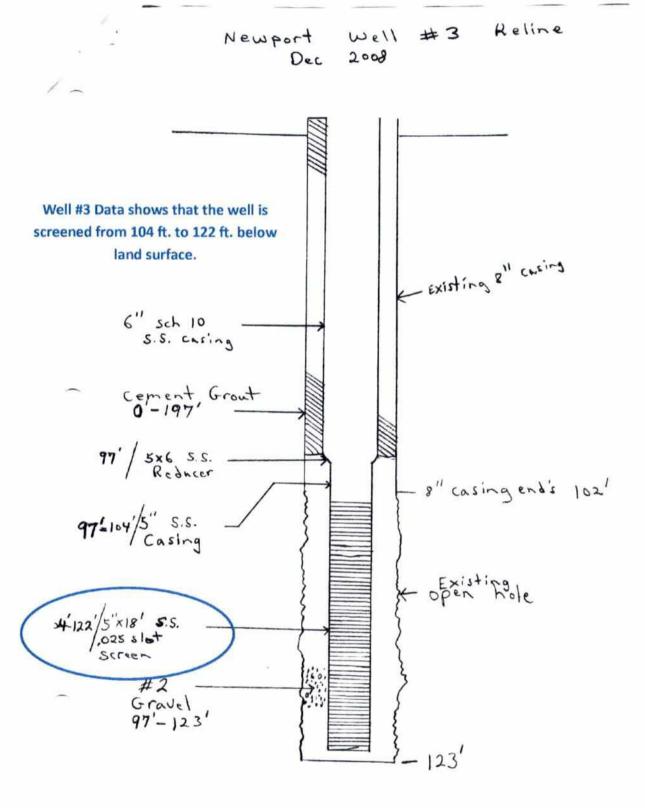
In order to identify the aquifer source of a well, the NC Ground Water Management Branch's Hydrogeological Framework Database was used to determine the aquifer depths below surface at each well point. This interface allows you to "drill down" and determine at what depths one aquifer begins and ends. The image below shows the points that were "drilled down":



Next, information provided by the Town of Newport pertaining to well construction was reviewed. Specifically, the depths of the screened interval for each well was determined. The chart below shows the depths of the screened intervals (below land surface) for each well.

Well	Screened Intervals
Well 3	104 ft 122 ft.
Well 4	66 ft 162 ft.
Well 5	73 ft 93 ft. 110 ft 125 ft.

To explain where these numbers come from, excerpts from the well construction records are shown on the following pages. The information provided on the construction records were compared to the data pulled from the NC Hydrogeological Framework for each point "drilled" to determine from which aquifer water is being sourced. Details for each are as follows:



Well	Screened Area
Well 3	104 ft 122 ft.

Ground Water Management Branch Map Interface (return)

OpenLayers 3 & MapServer

LAYERS MAPS KEY ADD INFO POTMAP CS WORK

NED & Hydrogeologic Framework Newport Well #3

elevations and depths in feet)

(elevations and depths	in feet)	
Land Surface (1/3 arc sec NED)	27	0
Yorktown CU	-23	50
Yorktown	-43	70
Castle Hayne CU	-93	120
Castle Hayne	-108	135
Beaufort CU	-595	622
Beaufort	-653	680
Peedee CU	-871	898
Peedee	-918	945
Black Creek CU	-1,123	1150
Black Creek	-1,416	1443
Upper Cape Fear CU	-1,678	1705
Upper Cape Fear	-1,787	1814
Lower Cape Fear CU	-2,183	2210
Lower Cape Fear	-2,278	2305
Lower Cretaceous CU	-2,600	2627
Lower Cretaceous	-2,700	2727
Basement rock	-3,175	3202

latitude: 34.794167 longitude: -76.865300

Provisional hydrogeologic framework results are limited to the coastal plain of North Carolina and are generated in part using the Generic Mapping Tools system. The surficial or water table aquifer extends from land surface to first confining unit. CU = Confining Unit. If depths column is not calculated then elevation query failed. Repeating query might work. NED = National Elevation Dataset, 1/3 arc second value (~10 X 10 meter grid).

The screened intervals above were converted from "below land surface" to "below sea level". The results:

77 ft. - 95 ft. below sea level

The top of the Yorktown Aquifer starts at 43 ft. below sea level and ends at the top of the Castle Hayne confining unit at 93 ft. below sea level. The total aquifer thickness is 50 ft.

Therefore, it is determined that water from Well #3 is sourced from the Yorktown Aquifer.

CT 1601

NIDI VITAL AND COMMERCIAL

PUMP SALES AND SERVICE

15 0053 WCOOL

FRONT SPACE

REGISTER ___ WELL CO., INC.

LEE REGISTER

Route 2, Box 2 Rose Hill, North Carolina 28458 W18K 394704 765048

town of Newport

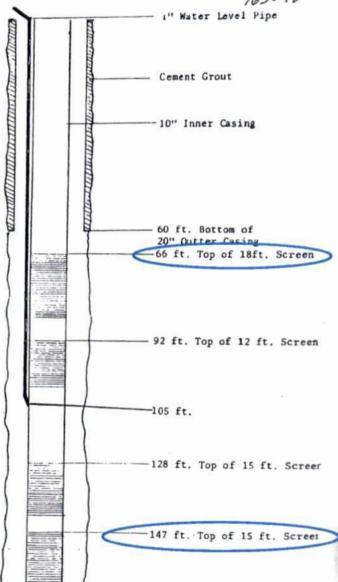


APR 13 1983

WILMINGTON REGIONAL OFFICE DEM

Well #4 Data shows that the well is screened from 66 ft. to 162 ft. below land surface.

Note: All Screens are 304 Stainless Steel rod base construction with .030 openings.



Well	Screened Area
Well 4	66 ft 162 ft.

Ground Water Management Branch Map Interface (return)

OpenLayers 3 & MapServer

AYERS MAPS KEY ADD INFO POTMAP CS WORK

NED & Hydrogeologic Framework
Newport Well #4

(elevations and depths	in feet)	
Land Surface (1-3 arc sec NED)	7	0
Yorktown CU	-11	18
Yorktown	-26	33
Castle Hayne CU	-96	103
Castle Hayne	-111	118
Beaufort CU	-619	626
Beaufort	-673	680
Peedee CU	-890	897
Peedee	-938	945
Black Creek CU	-1,152	1159
Black Creek	-1,447	1454
Upper Cape Fear CU	-1,710	1717
Upper Cape Fear	-1,824	1831
Lower Cape Fear CU	-2,232	2239
Lower Cape Fear	-2,332	2339
Lower Cretaceous CU	-2,644	2651
Lower Cretaceous	-2,745	2752

latitude: 34.785184 longitude: -76.847769

Provisional hydrogeologic framework results are limited to the coastal plain of North Carolina and are generated in part using the <u>Generic Mapping Tools</u> system. The surficial or water table aquifer extends from land surface to first confining unit. CU = Confining Unit. If depths column is not calculated then elevation query failed.

Repeating query might work. NED = National Elevation Dataset, 1/3 arc second value (~10 X 10 meter grid).

The screened intervals above were converted from "below land surface" to "below sea level". The results:

59 ft. - 155 ft. below sea level

The top of the Yorktown Aquifer starts at 26 ft. below sea level and ends at the top of the Castle Hayne confining unit at 96 ft. below sea level. The total aquifer thickness is 70 ft.

 The top of the Castle Hayne Aquifer starts at 111 ft. below sea level and ends at the top of the Beaufort confining unit at 619 ft. below sea level. The total aquifer thickness is 578 ft.

Therefore, it is determined that water from Well #4 is sourced from both the Yorktown and Castle Hayne aquifers.

MAILING ADDRESS PO Box 1869 NC State

135' b. DOES WELL REPLACE EXISTING WELL? YES D NO CK

c. WATER LEVEL Below Top of Cesing: 13.27 FT. (Use "4" # Above Top of Cesing)

Newport City or Town

S. WELL DETAILS: A TOTAL DEPTH:

252 - 223-4749 Area code - Phone number

Well #5 Data shows that the well is screened from 73 ft. to 93 ft. and from 110 ft. to 125 ft. below land surface.



NON RESIDENTIAL WELL CONSTRUCTION PEOCED North Carolina Department of Environment and Natural Resources- Division of Water Quality

WELL CONTRACTOR CERTIFICATION# 2936

"Top of cealing terminated after below land surface may require a variance in accordance with 15A NCAC 2C .0118. 1. WELL CONTRACTOR: Bobby L. Harrell
Well Contractor (Individual) Name . YIELD (gpm): 400 METHOD OF TEST 24 hr. Lest Magette Well & Pump Co., Inc. L DISINFECTION Type HTH Amount 4 DOUDS g. WATER ZONES (depth): STREET ADDRESS 2342 US 13 South From 73 To 93 27910 Zip Code Ahoskie Chy or Town From 110 To 125 From To_ From_ To From To____ (252) 332-2265 Area code Phone number 2. WELL INFORMATION: Thickness & CARING: From +1 To 41 Ft 8"
From +3 To 73 Ft 8"
From 93 To 110 Ft 8"
7. GROUT 25 Deph 35 - 375 - 322 - 322 galy. SITE WELL ID SIX applicable)_ STATE WELL PERMITAN ACCOUNTS WS0899749 galy. DWQ or OTHER PERMIT #(# applicable) WELL USE (Check Applicable Box) Monitoring [Municipal/Public 1] To58 R neat Industrial/Commercial ☐ Agricultural ☐ Recovery ☐ Injection ☐ From 58 To68 Ft bentonite pump Irrigation[] Other [] (fist use)_ Tu DATE DRILLED 12/20/05 SCREEN: Depth Diarneter Stat Size TIME COMPLETED 5:00 AND PMCK From 73 To 93 Ft.8" m .050m stainless 3. WELL LOCATION CITY: Newport COUNTY Carteret From____ To___ Ft.___ in. ____ in. ____ in. Foxhall Road (Others Name: Numbers, Community, Subdission, Lot No., Parcel, Zie Code) S. BANCHERAVEL PACK: TOPOGRAPHIC / LAND SETTING: From 68 To 135 FL3 Southern Product Slope OValley Shall DRidge D Other From To____FL__ (check appropriate box) To From_ May be in degrees. LATTTUDE 140 48.990 minutes, seconds or in a decimal format 10, DRILLING LOG LONGITUDE 7 6D 52.355 From 0 - 5 Formation Description Latitude/longitude source: MGPS Topographic map sandy topsoil (location of well must be shown on a USGS topo map and attached to this form if not using GPS) 5 - 34 sand 34 - 44 clay 4. FACILITY- is the name of the business steen the stell is be 44 - 95 limestone shells & sand FACILITY ID #(# applicable) 95 - 107 limestone, fine sand NAME OF FACILITY TOWN of Newport clay traces 107 - 128 limestone STREET ADDRESS 200 Hovard Blvd. 128 - 140limestone & fine sand Newport NC 28570 Zio Code CONTACT PERSON_Clay Delany

11. REMARKS:

specific capacity 17.3 gpm/ft dd

SIGNATURE OF CERTIFIED WELL CONTRACTOR

PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information MgL, 1817 Mail Service Center -- Raleigh, NC 27698-1617 Phone No. (919) 733-7015 ext 568.

28570 Zip Code

Form GW-1b Flev. 7/05

Well	Screened Area
Well 5	73 ft 93 ft.
Well3	110 ft 125 ft.

Ground Water Management Branch Map Interface (return)

OpenLayers 3 & MapServer

POT FIND QUERY MAKE MAKE FRAME LAYERS MAPS KEY ADD INFO POTMAP CS WORK

NED & Hydrogeologic Framework Newport Well #5

(esecanons and debrus	AND PERSON	
Land Surface (1/3 arc sec NED)	30	0
Yorktown CU	-32	62
Yorktown	-55	85
Castle Hayne CU	-91	121
Castle Hayne	-106	136
Beaufort CU	-585	615
Beaufort	-643	673
Peedee CU	-862	892
Peedee	-908	938
Black Creek CU	-1,109	1139
Black Creek	-1,400	1430
Upper Cape Fear CU	-1,661	1691
Upper Cape Fear	-1,769	1799
Lower Cape Fear CU	-2,160	2190
Lower Cape Fear	-2,253	2283
Lower Cretaceous CU	-2,579	2609
Lower Cretaceous	-2,680	2710
Basement rock	-3,104	3134

latitude: 34,799720 longitude: -76,872411

Provisional hydrogeologic framework results are limited to the coastal plain of North Carolina and are generated in part using the Generic Mapping Tools system. The surficial or water table aquifer extends from land surface to first confining unit. CU = Confining Unit. If depths column is not calculated then elevation query failed. Repeating query might work. NED = National Elevation Dataset, 1/3 arc second value (~10 X 10 meter grid).

The screened intervals above were converted from "below land surface" to "below sea level". The results:

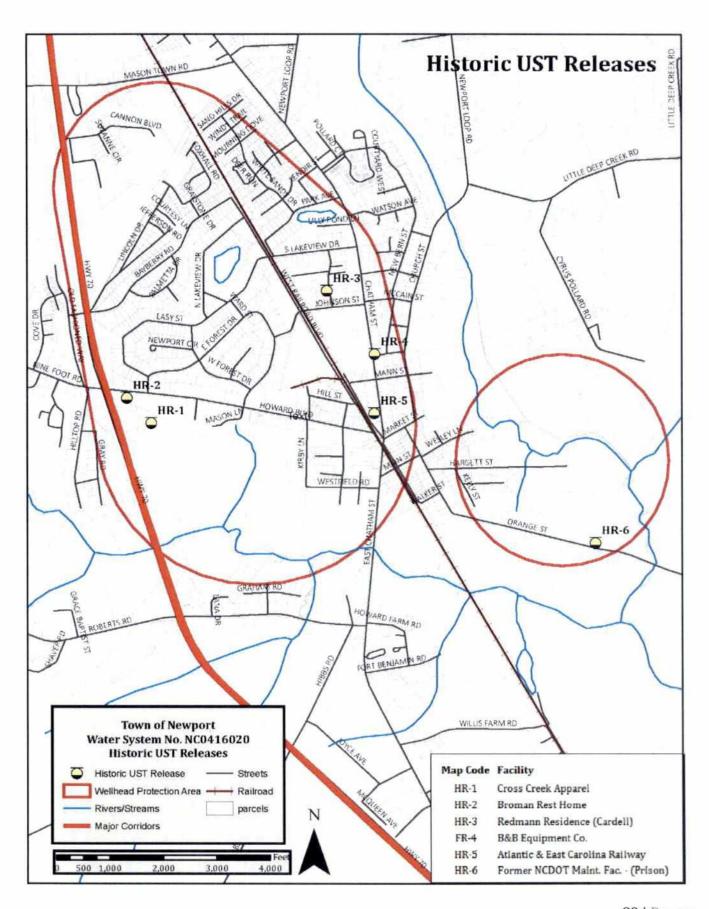
43 ft. - 63 ft. below sea level and

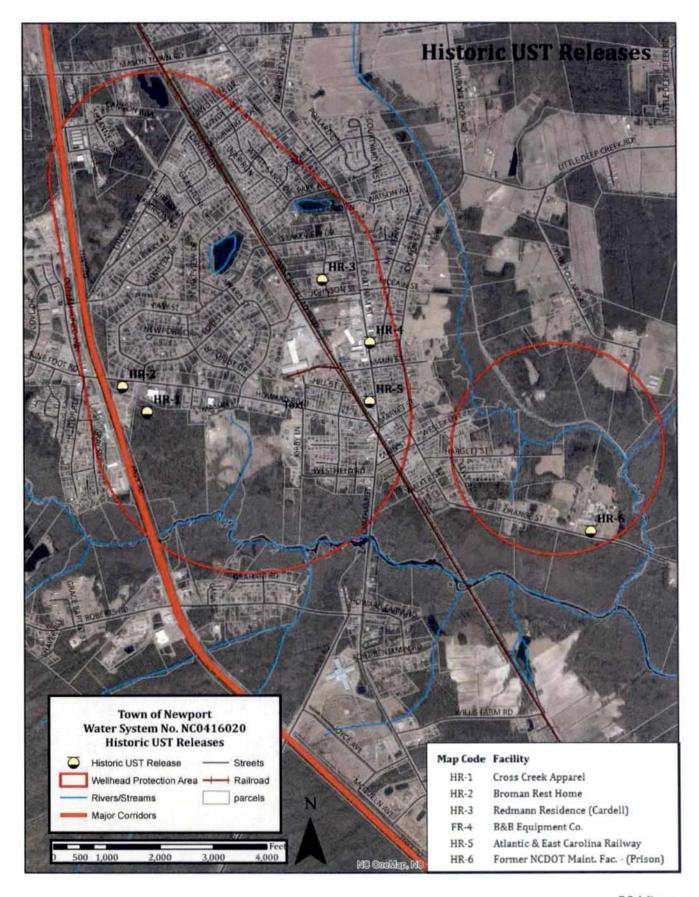
80 ft. - 95 ft. below sea level

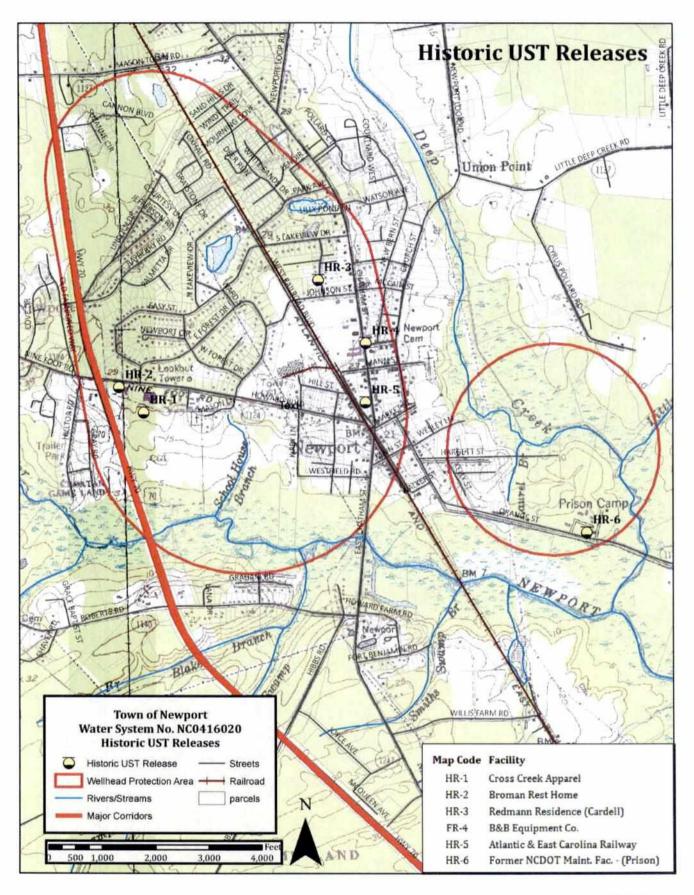
The top of the Yorktown Aquifer starts at 55 ft. below sea level and ends at the top of the Castle Hayne confining unit at 91 ft. below sea level. The total aquifer thickness is 36 ft.

Therefore, it is determined that water from Well #5 is sourced from the Yorktown Aquifer.

Historic UST Releases Maps and Documentation







State of North Carolina
Department of Environment
and Natural Resources
Wilmington Regional Office
Division of Waste Management
UST Section

Michael F. Easley, Governor William G. Ross Jr., Secretary



May 14, 2001

Mr. Bill Inman Cross Creek Apparel, Inc. P. O. Drawer 1107 Mount Airy, NC 27030

Subject:

Notice of No Further Action 15A NCAC 2L .0115(h) Cross Creek Apparel 413 Howard Blvd, Newport Incident No. 22739 Low Risk Classification

Dear Mr. Inman:

On March 19, 2001, the Division of Waste Management (DWM) Wilmington Regional Office received a Soil Assessment Report with Site Closure Request for the above-referenced site. A review of the report shows that soil contamination does not exceed the soil-to-groundwater maximum soil contaminant concentrations established in 15A NCAC 2L .0115(m) or the soil cleanup levels established by the Department in the "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater" (March 1997). A review of the Soil Assessment Report with Site Closure Request also shows that contaminated groundwater does not exceed gross contamination levels that were established in 15A NCAC 2L .0115(g).

Based on information provided to date, the DWM determines that no further action is required for this incident. This determination is conditional pending completion of the public notice specified below. Once proper public notice has been given, this determination will apply unless the DWM later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, is not suitable for use as a water supply.

Mr. Bill Inman May 15, 2001 Page 2

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the DWM of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the DWM to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you must comply with the public notice requirements of 15A NCAC 2L .0115(k) as specified below. If public notice is not provided as required, this no further action determination will be deemed invalid. Within 30 days of receipt of this no further action notice, you must provide a copy of this notice to the following persons:

- local health director;
- chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- all property owners and occupants within or contiguous to the area containing contamination; and
- all property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action notice must be sent to the persons listed above by certified mail. If it is impractical to provide notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this notice in a prominent place where the occupants are most likely to see it.

Within 60 days of receiving this no further action notice, you must provide the DWM Wilmington Regional Office with proof of receipt of the copy of the notice or of refusal by the addressee to accept delivery of the copy of the notice. If a copy of the notice is posted, you must provide the DWM with a description of the manner in which the notice was posted.

Interested parties may examine the Soil Assessment Report with Site Closure Request by contacting *EnviroAssessments*, *PLLC* at (704) 846-8853. In addition, the DWM Wilmington Regional Office has the Soil Assessment Report with Site Closure Request along with other site information on file and available for public review. Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Soil Assessment Report with Site Closure Request may be submitted to the regional office.

Ms. Deborah Mayo Wilmington Regional Office 127 Cardinal Drive Extension Wilmington, N C 28405 (910) 395-3900 Mr. Bill Inman May 15, 2001 Page 3

Please be advised that you must close any monitoring wells or injection wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113 and .0214, respectively. For guidance on closure of infiltration galleries, please contact the Wilmington Regional Office.

Should you have any questions concerning this notice, please contact Ms. Deborah Mayo at (910) 395-3900.

Sincerely,

David Holsinger

UST Regional Supervisor

DRH/DTM

Attachments: 15A NCAC 2C .0113

15A NCAC 2C .0214 Well Abandonment Form

cc: Incident Management Files

Carteret County Health Director

EnviroAssessments, PLLC

WiRO-UST

ust\debbic\crossc.nfa

State of North Carolina
Department of Environment and Natural Resources
Wilmington Regional Office
Division of Waste Management
UST Section



Michael F. Easley, Governor William G. Ross Jr., Secretary Dexter R. Matthews, Director

July 20, 2004

Mr. David S. Bolling Diversicare Assisted Living Services 770-D Park Centre Drive Kernersville, NC 27284

Re: No

Notice of No Further Action
15A NCAC 2L .0115(h)
Risk-based Assessment and Corrective Action for Petroleum Underground
Storage Tanks
Broman Rest Home
453 Howard Blvd., Carteret County
Incident # 32099
Low Risk Classification

Dear Mr. Bolling:

The Underground Storage Tank (UST) Section, Division of Waste Management WilmingtonRegional Office has received both a Limited Site Assessment Report and a registered Notice of Residual Petroleum for the above-referenced Site. A review of the report shows that soil contamination does not exceed the residential maximum soil contamination concentrations and groundwater contamination meets the cleanup requirements for a low risk site. No further assessment or remedial actions are required at this time. However, please be advised that because groundwater contamination still exceeds the groundwater quality standards established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate is not suitable for use as a water supply.

Public notice in accordance with 15A NCAC 2L .0115(k) is required as follows. Within 30 days of receipt of this no further action letter, you must provide a copy of this letter to the following persons:

- Local health director;
- Chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- ... All property owners and occupants within or contiguous to the area containing

127 Cardinal Drive, Wilmington, North Carolina 28405
Phone: 910–395-3900 \ FAX: 910-350-2004 \ Internet: www.enr.state.nc.us
AN EQUAL OPPORTUNITY \ AFFIRMATIVE ACTION EMPLOYER

contamination; and

All property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action letter must be sent to the persons listed above by certified mail. If it is impractical to provide this public notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this letter in a prominent place where the occupants are most likely to see it.

Within 60 days of receiving this no further action letter, you must provide the UST Section Wilmington Regional Office with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter. If a copy of the letter is posted, you must provide the UST Section with a description of the manner in which the letter was posted.

Interested parties may examine the Limited Site Assessment Report by contacting David Peacock at (910) 395-3900. In addition, the UST Section Wilmington Regional Office has the Limited Site Assessment Report along with other site information on file and available for public review. Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Limited Site Assessment Report may be submitted to the regional office.

David Peacock Wilmington Regional Office 127 Cardinal Drive Extension Wilmington, NC 28405 (910) 395-3900

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the UST Section of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the UST Section to reclassify the risk. Please note that this responsibility not only pertains to changes involving the property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you should close any monitoring wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113. For guidance on closure of infiltration galleries, please contact The Division of Water Quality, Groundwater Section at Wilmington Regional Office.

Should you have any questions concerning this letter, please contact David Peacock at (910) 395-3900.

Sincerely,

Richard R. Powers

Wilmington Regional Supervisor

cc: Carteret County Health Department Nancy Clark, Clark Environmental WiRO-UST

S:\ust\peacock\norr letters\nfa\broman rest home.doc nfa-low.dot (Revised 12/01)



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor William G. Ross Jr., Secretary

Division of Waste Management Underground Storage Tank Section

Dexter R. Matthews, Director

October 13, 2005

Ms. Cardell Redmann P.O. Box 673 Newport, NC 28570

Re:

Notice of No Further Action 15A NCAC 2L .0115(h) Risk-based Assessment and Corrective Action for Petroleum Underground Storage Tanks

Redmann Property (Cardell) 2007 Thompson Drive, Newport Carteret County Incident Number: 32226 Risk Classification: Low

Dear Ms. Redmann:

The Limited Site Assessment Report received by the Underground Storage Tank (UST) Section, Wilmington Regional Office on October 4, 2005, has been reviewed. The review indicates that soil contamination does not exceed the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0115(m), and that groundwater contamination does not exceed the groundwater quality standards established in Title 15A NCAC 2L .0202.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 21. .0115(e) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

If soil contamination exceeds the lower of the soil-to-groundwater or residential MSCCs, public notice in accordance with 15A NCAC 2L .0115(k) is required. Thus, within 30 days of receipt of this letter, a copy of the letter must be provided by certified mail, or by posting in a prominent place, if certified mail is impractical, to the local health director, the chief administrative officer of each political jurisdiction in which the contamination occurs, all property owners and occupants within or contiguous to the area containing contamination, and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate. Within 60 days of receiving this no further action letter, this office must be provided with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter or with a description of the manner in which the letter was posted. This No Further Action determination will not become valid until public notice requirements are completed. Interested parties may examine the information for this incident by contacting this regional

office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,

David Peacock

Hydrogeological Tech. II Wilmington Regional Office

cc: Carteret County Health Department

Mr. Kelley Smith, Groundwater Management Associates Inc. - Greenville

WiRO-UST

UST Regional Offices

Asheville (ARO) - 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

Fayetteville (FAY) - Systel Building, Suite 714, Fayetteville, NC 28301 (910) 486-1541

Mooresville (MOR) - 610 East Center Avenue, Suite 301, Mooresville, NC 28115 (704) 663-1699

Raleigh (RRO) - 1628 Mail Service Center, Raleigh, NC 27699 (919) 571-4700

Washington (WAS) - 943 Washington Square Mall, Washington, NC 27889 (252) 946-6481

Wilmington (WIL) - 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215

Winston-Salem (WS) - 585 Waughtown Street, Winston-Salem, NC 27107 (336) 771-4600

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

FTP: NFA low-noNRP NOR0505.dot

#1101 B&B Equipment Co. - Timeline of Events

7/8/1993 - Carteret County Building inspector called concerned about a tank pull that was occurring at the B & B Equipment Company.

7/8/1993 - WiRO writes letter to Mr. Watts in acknowledgement of his Notice of Intent to Close.

07/14/1993 - Mr. and Mrs. Watts showed up at the office with his soil samples in baggies to ask us to stop sending the tank fees invoice. We explained that a tank closure report was needed

7/24/1993 - WiRO receives UST-3 form for B & B Equipment.

07/15/1993 - Building inspector called and he had observed the tank closure and observed the tank had holes and there was product in the excavation.

08/12/1993 - Mrs. Watts called. They bought the property on Sept. 1, 1984. They have contacted a consultant to take soil samples and install a monitoring well.

11/05/1993 - WiRO received tank closure report.

11/09/1993 - Site ranked 30 C

11/24/1993 - 2N NORR sent to Clyde Watts, Jr.

05/04/1995 - WiRO sends Clyde Watts, Jr. a Notice of underground storage tank inspection because a UST-2 form had never been submitted.

05/22/1995 - Call from Clyde Watts, III. from Texas. His father has alzheimers and he is unfamiliar with his father's business dealings. Does not know who did tank closure report.

01/10/1996 - call from Shirley Mitchell, she and Charlene Mitchell are the executors of Mrs. Clyde Watts will. WiRO tells her what is needed and will follow up with letter.

06/25/1996 - WiRO sends Mrs. Charlene Mitchell a letter informing her that the monitoring well needs to be resampled.

01/22/1997 - WiRO sends Mrs. Charlene Mitchell a letter shutting down the site due to SB 1317 due to it's ranking of 30 C.

06/24/2004 - WiRO reviews file and determines by speaking with Carteret County that the address has changed to 228 Chatham St.

06/21/2004- WiRO speaks with Barry Blackburn of Carteret County the parcel now has the address of 228 Chatham Street. Previously 39 Chatham St. and is owned by Paul M. Lamson, Trustee.

07/09/2004 - WiRO conducts site inspection. Drive by well survey. No wells seen.

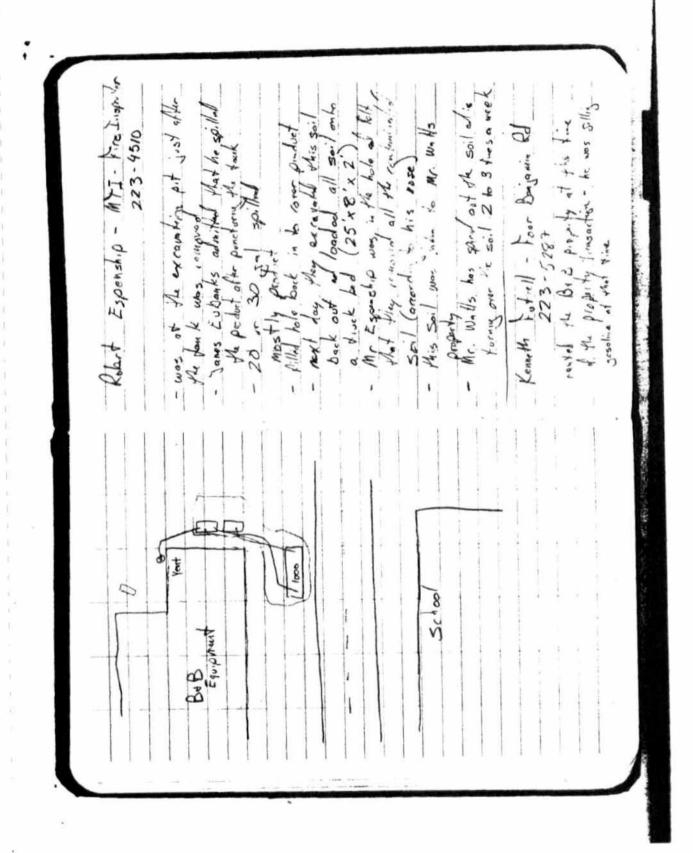
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06/28/2013 -Albert Wheel an insurance agent contacted WiRO to report that a woman eight months pregnant had tripped when stepping into the depression left by the only monitoring well on site and fallen and hurt her self. He is wondering if the monitoring well can be removed from the site.

.

WiRO reviews file. Tax office records show property is now owned by Pike Developments, LLC. (Purchased 8/02/2004) Area on city water. Locates site on Google earth, does well survey in street view of google earth. Checks Public Water Supply's SWAP database for public wells within 1000 feet. None found.

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Pat McCrory Governor John E. Skvarla, III Secretary

June 11, 2014

Note to File: Notice of No Further Action

> Subject: B & B Equipment (former) 228 Chatham Street, Newport Carteret County, Incident # 11288 Risk Classification - Low

The Underground Storage Tank (UST) Section, Wilmington Regional Office has reviewed the files on record for the subject site. The responsible party, Mr. Clyde Watts has been determined to be deceased. The risk of the site has been determined to be low risk and the rank has been determined to be 100 D. Soil and groundwater contamination are above 10 parts per million (ppm) total petroleum hydrocarbons and the groundwater standards found in 15 A NCAC 2L. 0200 respectively. On June 2, 2014 a Notice of Residual Petroleum was placed on the property restricting both the use of the soil and groundwater.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. It is advised that as soil contamination exceeds the action level of 10 parts per million total petroleum hydrocarbons, the property containing the contamination is suitable only for restricted residential use (The term "residential is inclusive of, but not limited to, private houses, apartment complexes, schools, nursing homes, parks, recreation areas and day care centers), as stipulated in the Notice of Residual Petroleum.

As soil contamination exceeds the action level of 10 parts per million total petroleum hydrocarbons, public notice in accordance with 15A NCAC 2L .0409(b) also is required.

This No Further Action determination will not become valid until public notice requirements are completed. Interested parties may examine the records on file by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

Sincerely

Wayne Randolph

UST Regional Supervisor Wilmington Regional Office

cc: WiRO

127 Cardinal Drive Ext., Wilmington, North Carolina 28405-3845
Phone: 910-796-7215 \ FAX. 910-350-2004, Internet: http://portal.ncdenr.org/web/wm

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State of North Carolina
Department of Environment and Natural Resources
Wilmington Regional Office
Division of Waste Management
UST Section



Michael F. Easley, Governor William G. Ross Jr., Secretary Dexter R. Matthews, Director

June 27, 2003

Mr. Lennox P. McLendon, Jr. Registereed Agent 230 N. Elm Street Suite 2000 Greensboro, NC 27401

Re:

Notice of No Further Action 15A NCAC 2L .0115(h)

Risk-based Assessment and Corrective Action for Petroleum Underground Storage Tanks

Atlantic And East Carolina Railway

Chatham Street, Newport

Carteret County Incident # 24043 Low Risk Classification

Dear Mr. McLendon:

The Underground Storage Tank (UST) Section, Division of Waste Management Wilmington Regional Office has received both a Soil Cleanup Report with Site Closure Request and a Notice of Residual Petroleum for the above-referenced Site. A review of the report shows that soil contamination does not exceed the residential maximum soil concentrations and groundwater contamination meets the cleanup requirements for a low risk site. No further assessment or remedial actions are required at this time. However, please be advised that because groundwater contamination still exceeds the groundwater quality standards established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate is not suitable for use as a water supply.

Pursuant to NCGS 143B-279.9 and 143B-279.11, you must file the approved Notice of Residual Petroleum (attached) with the Register of Deeds in the county in which the release is located and submit a certified copy to the UST Section within 30 days of receipt of this letter. This No Further Action Determination will not become valid until the UST Section receives a certified copy of the Notice of Residual Petroleum that is filed with the Register of Deeds and the public notice requirements outlined below are completed.

127 Cardinal Drive, Wilmington, North Carolina 28405
Phone: 910–395-3900 \ FAX: 910-350-2004 \ Internet: www.enr.state.nc.us
AN EQUAL OPPORTUNITY \ AFFIRMATIVE ACTION EMPLOYER

Mr. Lennox P. McLendon June 27, 2003 Page 2

Public notice in accordance with 15A NCAC 2L .0115(k) is required as follows. Within 30 days of receipt of this no further action letter, you must provide a copy of this letter to the following persons:

- Local health director;
- Chief administrative officer (i.e., Mayor, Chairman of the County Commissioners, County Manager, City Manager or other official of equal or similar position) of each political jurisdiction in which the contamination occurs;
- All property owners and occupants within or contiguous to the area containing contamination; and
- All property owners and occupants within or contiguous to the area where the contamination is expected to migrate.

Copies of this no further action letter must be sent to the persons listed above by certified mail. If it is impractical to provide this public notice by certified mail to the occupants of apartment buildings, condominiums, office buildings, etc., you may post a copy of this letter in a prominent place where the occupants are most likely to see it.

Within 60 days of receiving this no further action letter, you must provide the UST Section Wilmington Regional Office with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter. If a copy of the letter is posted, you must provide the UST Section with a description of the manner in which the letter was posted.

Interested parties may examine the Soil Cleanup Report with Site Closure Request by contacting Ms. Deborah Mayo at (910) 395-3900. In addition, the UST Section Wilmington Regional Office has the Soil Cleanup Report with Site Closure Request along with other site information on file and available for public review. Interested parties may arrange to review this information by contacting the regional office as listed below. In addition, comments on the Soil Cleanup Report with Site Closure Request may be submitted to the regional office.

Ms. Deborah Mayo Wilmington Regional Office 127 Cardinal Drive Extension Wilmington, NC 28405 (910) 395-3900

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the UST Section of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the discharge or release, if such change could cause the UST Section to reclassify the risk. Please note that this responsibility not only pertains to changes involving the

. Mr. Lennox P. McLendon June 27, 2003 Page 3

property on which the release occurred, but to changes involving the surrounding properties as well.

Please be advised that you should close any monitoring wells or injection wells used to investigate or remediate this incident in accordance with 15A NCAC 2C .0113 and .0214, respectively. For guidance on closure of infiltration galleries, please contact The Division of Water Quality, Groundwater Section at Wilmington Regional Office.

Should you have any questions concerning this letter, please contact Ms. Deborah Mayo at (910) 395-3900.

Sincerely,

David Holsinger Regional Supervisor

Attachments: Notice of Residual Petroleum

15A NCAC 2C .0113 15A NCAC 2C .0214 Well Abandonment Form

cc: Rob Krebs

EarthTech - Robert Hare

Judy Nash - Atlantic and East Carolina Railway Co.- Atlanta

WiRO

nfa-low.dot (Revised 12/01)

State of North Carolina Department of Environment and Natural Resources Wilmington Regional Office UST Section

James B. Hunt, Jr., Governor Wayne McDevitt, Secretary



February 1, 1999

CERTIFIED MAIL # Z 418 221 070 RETURN RECEIPT REQUESTED

Mr. Eric Motzno, Environmental Engineer NCDOT-Division of Highways-Equipment Unit 4809 Beryl Road Raleigh, NC 27606

Subject:

Notice of No Further Action

15A NCAC 2L .0115(h)

Former NCDOT Maintenance Facility

(Newport Prison)

S.R. 1154, Newport, Carteret County

Incident No. 13369 Low Risk Classification

Dear Mr. Motzno:

On January 25, 1999, the Division of Waste Management (DWM) Wilmington Regional Office reviewed the file for the above-referenced site. A review of the Corrective Action Plan shows that soil contamination does not exceed the soil cleanup levels established by the Department in the "Groundwater Section Guidelines for the Investigation and Remediation of Soil and Groundwater" (March 1997). A review of the Corrective Action Plan also shows that contaminated groundwater does not exceed gross contamination levels that were established in 15A NCAC 2L .0115(g).

Based on information provided to date, the DWM determines that no further action is required for this incident. This determination is conditional pending completion of the public notice specified below. Once proper public notice has been given, this determination will apply unless the DWM later determines that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

Please be advised that because contaminated groundwater has not been restored to the level of the standard or interim standard established in 15A NCAC 2L .0202, groundwater within the area of contamination or within the area where contamination is expected to migrate, is not suitable for use as a water supply.

Pursuant to 15A NCAC 2L .0115(e), you have a continuing obligation to notify the DWM of any changes that you know of or should know of, that might affect the level of risk assigned to the discharge or release. Such changes include, but are not limited to, changes in zoning of real property, use of real property or the use of groundwater that has been contaminated or is expected to be contaminated by the

127 Cardinal Drive Ext., Wilmington, North Carolina 28405 An Equal Opportunity Affirmative Action Employer Telephone 910-395-3900 FAX 910-350-2004 50% recycled/10% post-consumer paper Mr. Eric Motzno February 1, 1999 Page 3

Should you have any questions concerning this notice, please contact Bruce Reed at (910) 395-3900.

Sincerely,

Patricia Coughlan

UST Regional Supervisor

PCC/BAR

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