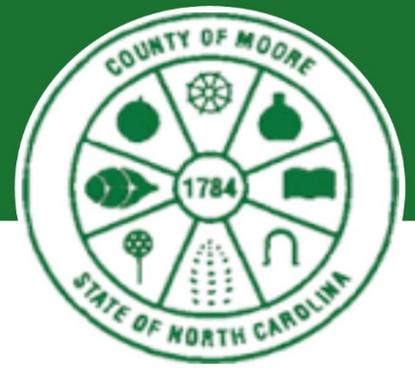


County of Moore

—North Carolina—



LOCAL WELLHEAD PROTECTION PROGRAM PLAN

Moore County Public Utilities—Pinehurst

PWSID: 03-63-108

NOVEMBER 18, 2019

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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.

One of North Carolina’s objectives in developing a protection program 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 Environmental Quality (DEQ)** 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;
 - (i) 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;
 - (c) 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 ensure 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:

Danny Edwards
Public Water Supply Section
1634 Mail Service Center
Raleigh, North Carolina 27699-1634
Phone: 919-707-9070
Fax: 919-715-4374

INTRODUCTION

Moore County, located in the Sandhills on the border between North Carolina's Piedmont and Coastal Plain regions, was formed in 1784 from Cumberland County and named for Alfred Moore, a Revolutionary War captain who later served as a US Supreme Court Justice. Carthage, the county seat, was incorporated in 1796. Other municipalities and communities in the county include Aberdeen, Cameron, Eastwood, Hill Crest, Eagle Springs, Foxfire Village, Parkwood, Pinebluff, Pinehurst, Robbins, Seven Lakes, Southern Pines, Taylortown, Vass, and Whispering Pines.

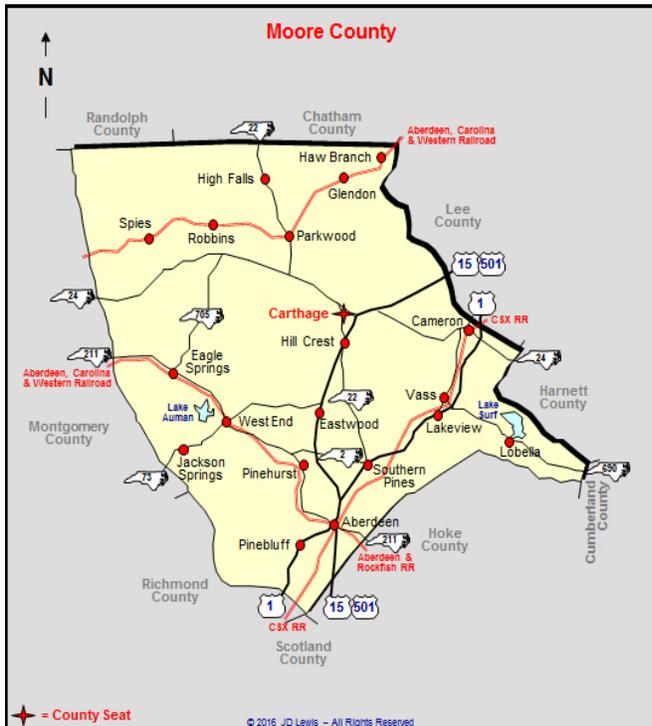


Moore County, North Carolina

Transportation

Located on the eastern seaboard, halfway between New York and Miami, Moore County sits just south of the Raleigh-Durham area. US Highways 1, 15, and 501, and NC Highways 2, 5, 22, 24, 27, 73, 211, 690, and 705 are main corridors of transportation in Moore County allowing easy access to the nine adjacent counties. Located in the central south of North Carolina, Moore County is halfway between the beautiful Blue Ridge Mountains to the west, and the pristine shorelines of the Outer

Banks to the east. Railroad operations in the county include Aberdeen, Carolina & Western Railroad, Aberdeen & Rockfish Railroad, and CSX Railroad. Pinehurst Regional Airport (SOP) is a public airport while both Gilliam-McConnell Airfield and Rooster Field Airport are small local air strips.



Demographics & Economic Development

As of the 2010 census, there were approximately 88,247 people, 34,625 households, and 21,959 families residing in the county. The median age is 42 and the median household income is \$48,348. The racial makeup of the county is 82.8% Caucasian, 13.4% African American, 2.1% other with 1.7% of the population being of Hispanic/Latino decent.

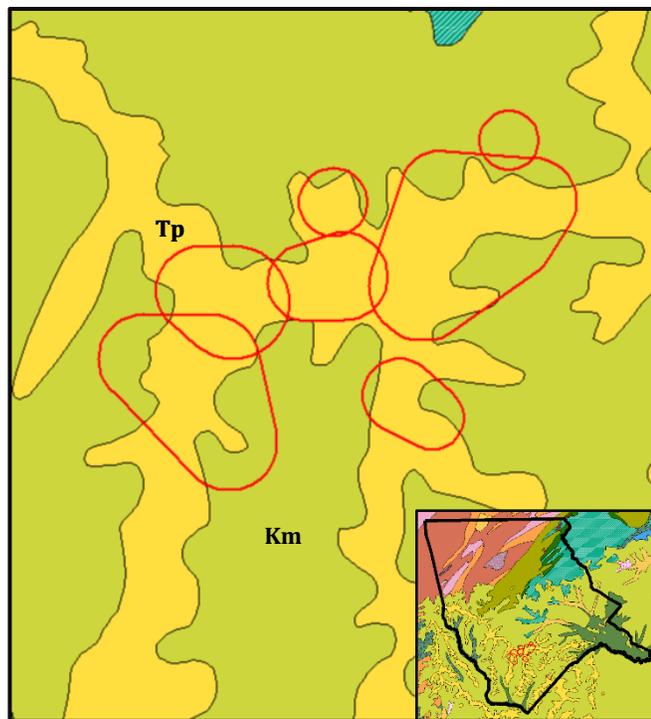
The Moore County economy benefits greatly from a thriving tourism and recreation industry centered on the resort towns of Pinehurst and Southern Pines, home to some of the nation’s finest golf courses. The health care and retirement industry in the county has grown significantly over the years. Agricultural goods produced on Moore County farms include tobacco, peaches, strawberries, and poultry. Machine tools and furniture are manufactured in the county, and amethyst, zircon, copper, and quartz are mined minerals. Pottery is also a vital part of the local economy.

Geological Data

The Village of Pinehurst is located in Moore County in south central North Carolina. Locally recognized as an outstanding residential community, Pinehurst is famed around the world as a major golf resort. Pinehurst is located about 60 miles southwest of Raleigh, the State capitol, and about 75 miles east of Charlotte. Pinehurst, as of 2010, had a population of 13,124 people within the corporate limits area (about 17.2 square miles). This is an increase of 3,418 people from the 2000 census. The population is somewhat seasonal because of the attraction of the world-class golfing facilities and other amenities in the area.

The Pinehurst area is located entirely in the Sandhills. The 1985 Geologic Map of North Carolina shows that the near surface sediments consist of the Cretaceous-age Middendorf, and the Tertiary Pinehurst Formations. Gray sand, sandstone, and mudstone, with clay balls and iron-cemented concretions are common in the Middendorf, and medium-to coarse-sands are found the Pinehurst. Both formations commonly exhibit crossbedding.

As the name implies, the dominant feature of the Sandhills is a deep layer of unconsolidated to poorly consolidated surficial sand that underlies the upland areas. The area is characterized by rolling hills having rather flat crests and altitudes generally ranging from 450 to 550 feet. The larger streams of the area originate in the Piedmont and flow eastward or southeastward across the Coastal Plain, where their valleys have steep sides and well-developed flood plains. Local relief up to 200 feet is common. Rainfall readily infiltrates the surficial sands and percolates downward to the deep-water table. Groundwater is the major source of stream flow in the local streams. Accordingly, flow in the streams is the most consistent of any area of the State.



1985 Geologic Map
Village of Pinehurst Area
Pinehurst & Middendorf Formations

Well Sites	Geocode	Formation	Description
2A, 5A, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23	Tp	Pinehurst	Sand, medium-to coarse-grained, cross bedding and rhythmic bands of clayey sand common, unconsolidated
	Km	Middendorf	Sand, sandstone, and mudstone, gray to pale gray with an orange cast, mottled; clay balls and iron-cemented concretions comon, beds laterally discontinuous, cross-bedding common

The streams seldom flood or go dry, because of the large infiltration capacity of the sandy soil and the great groundwater storage capacity of the thick sand aquifer.

Water Production

The Moore County Public Utilities – Pinehurst (MCPU-Pinehurst) water system is managed and maintained by State Certified Operators. The MCPU-Pinehurst system delivers through 189 miles of distribution lines, approximately 1.938 million gallons of water each day to 19,168 customers through 8,421 connections. This water is supplied by 17 wells located primarily in and around the Village of Pinehurst and is stored in 6 elevated storage tanks with a combined total storage capacity of 1.300 million gallons.

The MCPU-Pinehurst system utilizes one method of water treatment for ground water produced. Please see the following for details.

Wells	Treatment Processes
2A,5A,7,9,10,11,12, 13,15,16,17,18,19, 20,21,22,23	Water produced from these wells is treated onsite using bleach, caustic, and phosphate for disinfection and to control acidity and corrosion.

Inspection of the MCPU-Pinehurst water supply is constantly ongoing seven days a week. The wells are controlled by a SCADA system. The pump cycle is typically less than 12 hours per day, unless high demand conditions exist (maximum pump cycle is considered 18 hours per day). The Village of Pinehurst has somewhat of a transient population as it is a tourist and recreation area, well known for its many golf courses and events. Peak season for water use is from May to October.

MCPU-Pinehurst system purchases water on a daily basis from East Moore Water District (PWSID 50-63-011), the Town of Aberdeen (PWSID 03-63-020), and the Town of Southern Pines (PWSID 03-63-010). The MCPU-Pinehurst system has historically provided water to MCPU-Seven Lakes (PWSID 03-63-117) with an average sale of 0.051 MGD via an existing connection specifically used for the daily sale of water.

For additional information on each well, please see [Table 1](#) or the [Well Records](#) located in the appendix. Well information was obtained from construction records and the State Information Drinking Water System (SDWIS). A map showing an overview of the Moore County Public Works Water System is available in the Appendix.

Well Site	Location	Yield (gpm)	Depth
2A	Behind 175 Mckenzie Road West	132	155
5A	Near 5 Muster Branch Road	220	132
7	1 Brookhaven Road	150	140
9	10 Muster Branch Road	135	148
10	Midland/Airport Road	140	119
11	605 Monticello Drive	100	165
12	5 Diamondhead Drive South	200	122
13	115 Forest Lane	140	162
15	600 Beulah Hill Road North	100	156.5
16	200 Diamondhead Drive South	140	123
17	146 Sakonnet Trail	75	178
18	35 Idlewild Road	100	132
19	Near 808 Linden Road	200	151
20	10 Talladale Court	120	160
21	345 Foxfire Road	122	160
22	200 Short Road	111	119
23	675 Monticello Drive	75	139

Table 1. MCPU - Pinehurst Well Data

I. THE WELLHEAD PROTECTION PLANNING TEAM

On November 1, 2016, the NCRWA met with representatives of MCPU to begin the process of developing a Local Wellhead Protection Program Plan to protect the wells located in the Village of Pinehurst. In addition to members of the staff, representatives from the Village of Pinehurst agreed to serve on the Wellhead Protection Planning Team (Committee). This group represents a cross section of the opinions of the providers and the users of the public drinking water system. Each person on the team possesses a unique set of skills and influential qualities that makes them a great asset to the team. The task of this committee is to collaborate with one another using the skills in his/her area of expertise in order to provide the public with the necessary education concerning wellhead protection. Members of the Wellhead Protection Planning Team are as follows:

- ◆ Mr. Randy Gould, Director, Moore County Public Utilities
- ◆ Mr. Leonard McBryde III, County Engineer, Moore County Public Utilities
- ◆ Mr. Chris Fuller, Operations Manager, Moore County Public Utilities
- ◆ Mr. Brandon Brown, Water Quality Supervisor, Moore County Public Utilities
- ◆ Ms. Debra Ensminger, Director of Planning & Transportation, Moore County Public Utilities
- ◆ Mr. Phillip Baker, Water Quality Advisor, Moore County Public Utilities
- ◆ Mr. Alex Cameron, Senior Planner, Village of Pinehurst
- ◆ Mr. Darryn Burich, Planning & Inspections Director, Village of Pinehurst
- ◆ Mr. Brian Grogan, Technical Assistance Division Leader, North Carolina Rural Water Assoc.
- ◆ Mrs. Alicia Melton, Source Water Specialist, North Carolina Rural Water Association
- ◆ Mrs. Candace Bell, Source Water Specialist, North Carolina Rural Water Association

The Moore County Public Works Director is the position responsible for implementing the Local Wellhead Protection Program and is authorized to accept or reject any revisions/changes requested or presented by the Wellhead Protection Planning Team. The Moore County Engineer is responsible for providing technical expertise during the development of the Local Wellhead Protection Program. The Moore County Water Quality Supervisor is responsible for ensuring adequate water quality in the system. The MCPU Public Works Director will begin implementation of the Wellhead Protection Program upon approval by the Public Water Supply Section (PWSS) of NCDEQ, and will complete implementation within ninety (90) days. Upon completion of the implementation phase, the MCPU Public Works Director will submit notification to the PWSS in accordance with the schedule set forth in the approved Local Wellhead Protection Program Plan.

Planning Team Mission

The mission of the Wellhead Protection Planning Team is to protect the water quality of the Moore County Public Utilities – Pinehurst system by educating the public, local businesses, and industries on best management practices and standard operating procedures to limit the potential for leaks and spills of contaminants. MCPU hopes to manage the aquifer by anticipating wellfield expansion as it keeps pace with demographic growth.

Goals and Strategies

Moore County Public Utilities strives to provide an environment that is safe while innovatively managing resources necessary for providing efficient delivery of high quality services. A safe, reliable water supply is critical to the success of any community. Through the establishment

of a Local Wellhead Protection Program, Moore County Public Utilities hopes to accomplish the following long-term goals:

- ◆ Provide an adequate supply of quality drinking water to all citizens;
- ◆ Maintain an inventory of potential contaminant sources and develop strategies to safeguard all public water supply wells;
- ◆ Provide educational materials to equip citizens with the knowledge necessary in protecting the water supply;
- ◆ Review and update the Wellhead Protection Program to remain aware of the safety status of our water supply.

II. DELINEATING THE WELLHEAD PROTECTION AREA

Delineation of the Wellhead Protection Area(s) involves making an inventory of all Public Water Supply (PWS) wells included under the plan and gathering basic information about each well. The most important part of this step is to identify the area(s) that must be managed to reduce the likelihood of contamination to the wells — the Wellhead Protection Area(s) (WHPA). 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 the wellhead protection (WHP) plan will apply.

The Calculated Fixed Radius - Recharge Method was used to delineate the Wellhead Protection Areas (WHPAs). This delineation method typically results in a circular protection area around each well site. The first calculation used for this delineation method is as follows:

Equation 1 where:

$$A = \frac{Q}{W}$$

A=contributing area, square miles

Q=maximum permitted daily withdrawal, gallons per day

W=average recharge rate, gallons per day per square mile

To calculate the area of protection, first we calculated the contributing area by dividing the average maximum daily withdrawal (Q) by the recharge rate (W) of 600,000 gpd/mi². The recharge rate is based on the state-approved Groundwater Recharge Map ([see Appendix](#)). The maximum pumping time generally used in this equation is 720 minutes per day, or 12 hours, due to state regulations requiring that public supply wells provide the system’s average daily demand in 12 hours pumping time. Because of the transient population and seasonal demand of the MCPU-Pinehurst system, the maximum daily pumping time of 1080 minutes per day, or 18 hours, was used for a more conservative wellhead protection area. The max daily pumping time is multiplied by the yield to determine the max daily withdraw (Q) in gallons per day. Yield data in gallons per minute was derived from well construction records and from the Safe Drinking Water Information System (SDWIS) database.

To account for the directional difference in certain aquifer parameters, the contributing area calculated by Equation 1 is doubled to define the WHPAs. The radius around the well for the WHPA is obtained by:

Equation 2 where:

$$r = 4213 \sqrt{\frac{Q}{W}}$$

R=radius from well of WHPA in feet

Q=maximum permitted daily withdrawal, gallons per day

W=average recharge rate, gallons per day per square mile

4213=factor for converting area in square miles to radius in feet
(includes doubling of the contributing area)

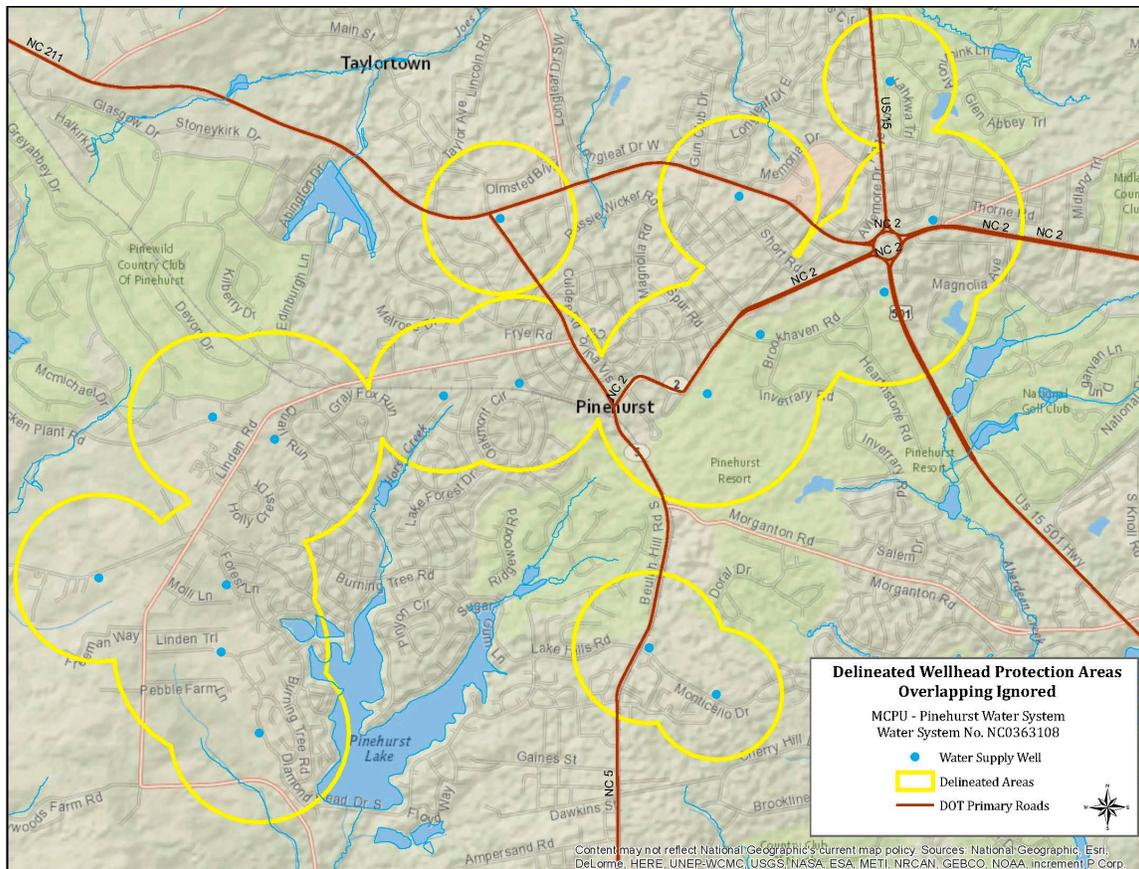
The delineation results for the MCPU-Pinehurst system wells are as follows:

Well	Yield (Q _{mpw})		Recharge rate	Area (mi ²)	Area (ft ²)	2* Area (mi ²)	2* Area (ft ²)	Radius	
	Gal/min	Gal/day						Miles	Feet
2A	132	142,560	600,000	0.238	6623907.8	0.475	13247815.7	0.39	2,054
5A	220	237,600	600,000	0.396	11039846.4	0.792	22079692.8	0.50	2,651
7	150	162,000	600,000	0.270	7527168.0	0.540	15054336.0	0.41	2,189
9	135	145,800	600,000	0.243	6774451.2	0.486	13548902.4	0.39	2,077
10	140	151,200	600,000	0.252	7025356.8	0.504	14050713.6	0.40	2,115
11	100	108,000	600,000	0.180	5018112.0	0.360	10036224.0	0.34	1,787
12	200	216,000	600,000	0.360	10036224.0	0.720	20072448.0	0.48	2,528
13	140	151,200	600,000	0.252	7025356.8	0.504	14050713.6	0.40	2,115
15	100	108,000	600,000	0.180	5018112.0	0.360	10036224.0	0.34	1,787
16	140	151,200	600,000	0.252	7025356.8	0.504	14050713.6	0.40	2,115
17	75	81,000	600,000	0.135	3763584.0	0.270	7527168.0	0.29	1,548
18	100	108,000	600,000	0.180	5018112.0	0.360	10036224.0	0.34	1,787
19	200	216,000	600,000	0.360	10036224.0	0.720	20072448.0	0.48	2,528
20	120	129,600	600,000	0.216	6021734.4	0.432	12043468.8	0.37	1,958
21	122	131,760	600,000	0.220	6122096.6	0.439	12244193.3	0.37	1,974
22	111	119,880	600,000	0.200	5570104.3	0.400	11140208.6	0.36	1,883
23	75	81,000	600,000	0.135	3763584.0	0.270	7527168.0	0.29	1,548

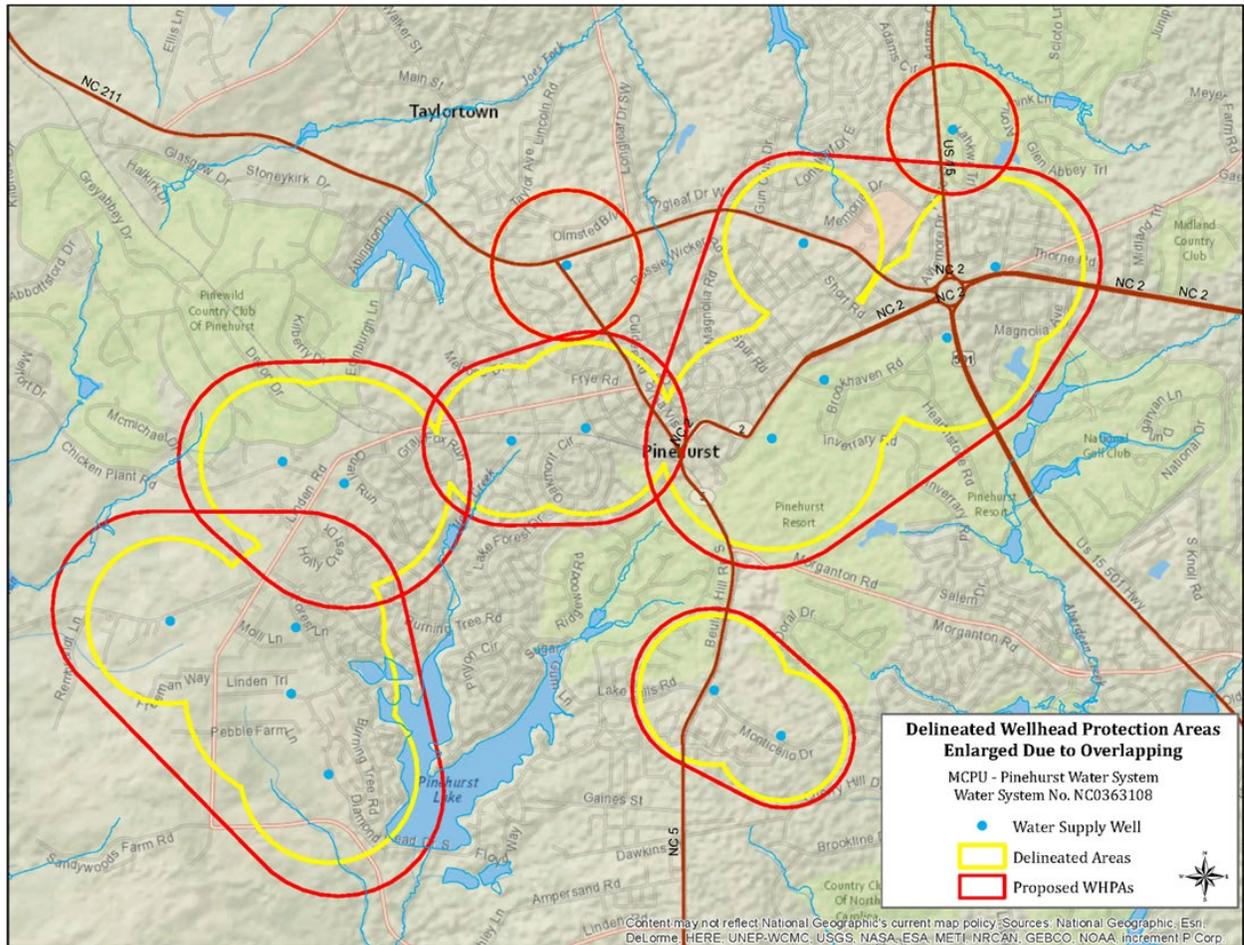
Table 2. MCPU - Pinehurst WHPA Delineation Data

Overlapping of the Delineated Wellhead Protection Areas

Due to the close proximity of the MCPU-Pinehurst wells, overlapping of the WHPAs occurred as shown below.



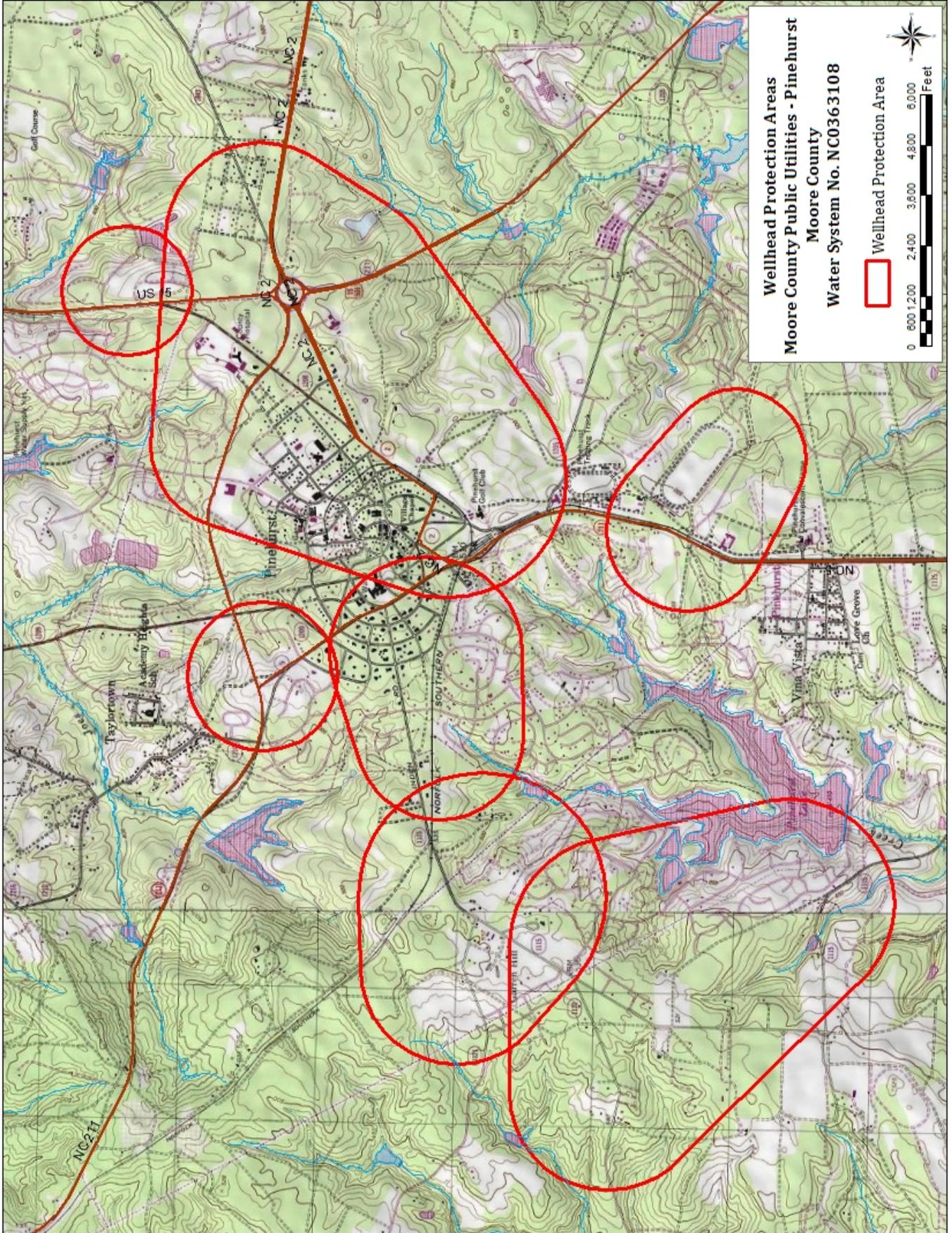
Where significant overlapping of the delineated WHPAs occurred, barriers were dissolved, and the boundaries were smoothed by removing the scalloped areas between the overlapping areas resulting in seven (7) wellhead protection areas.



Due to seasonal peak demand and because these wells are supplied from a semi-confined aquifer which receives a tremendous volume of recharge from the surficial aquifer, the wellhead protection areas were expanded to account for the overlapping area. The resulting wellhead protection area map for the MCPU-Pinehurst system is shown on the following page.

The wellhead protection areas for the MCPU-Pinehurst system were developed with the assistance of the Division of Water Resources, PWSS, Wellhead Protection Program Manager, and have been approved by the Wellhead Protection Planning Team (Committee). The following map displays the determined Wellhead Protection Areas.

Map of Delineated Wellhead Protection Areas



Future Wellhead Protection Areas

Moore County Public Utilities is monitoring the growth of the Village of Pinehurst area and is committed to meeting the maximum daily demand of the customers. Due to expected growth based on the *Envision the Village* report, any new development containing potential contaminants should be added in future updates of this plan.

Test wells have been constructed on two well sites and design plans have been completed. The test wells produced 100 gpm and 150 gpm. These wells are included in the MCPU capital improvement plan to be constructed within the next 10 years. The wellhead protection areas for these wells are not incorporated into this version of the plan; however, they will be included in the first five-year update of the plan.

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 area (WHPA) 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 3](#) below.

PCS Categories	Map Code
Animal Boarding	A
AST	B
Automotive Repair	C
Cemetery	D
Chemical Storage	E
Dry Cleaner	F
Gas Station	G
Hardware/Supply Store	H
Lift Station	I
Maintenance Shop	J
Pollution Incident	K
Print Shop	L
Recreation Facility	M
State Stormwater	N
UIC	O
UST	P
Water Treatment/Public Water Supply Well (WSW)	Q

Table 3. Potential Contaminant Source Categories

The inventory process begins by looking at the Source Water Assessment Program Report for the MCPU-Pinehurst system. 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](#).

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 and the Susceptibility for the MCPU-Pinehurst wells was ranked by the NC PWS Section as shown below in [Table 4](#). 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. MCPU-Pinehurst system's most recent (2017) SWAP Report can be accessed at the following website:

https://www.ncwater.org/files/swap/SWAP_Reports/0363108_4_21_2017_85_11.pdf.

Source Name	Susceptibility Rating
Well #2A	Moderate
Well #5A	Moderate
Well #7	Moderate
Well #9	Moderate
Well #10	Moderate
Well #11	Moderate
Well #12	Moderate
Well #13	Moderate
Well #15	Moderate
Well #16	Moderate
Well #17	Moderate
Well #18	Moderate
Well #19	Moderate
Well #20	Moderate
Well #21	Moderate
Well #22	Moderate
Well #23	Moderate

Table 4. SWAP Susceptibility Rating

Members of the Wellhead Protection Planning Team conducted a windshield survey of the WHPAs and identified each potential contamination source (PCS) facility or activity that might exist within the WHPAs. 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 sites. 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](#).

Municipal Sewer/Septic Tanks – The Village of Pinehurst utilizes a sanitary sewer collection system, owned and operated by MCPU, to dispose of waste. The Moore County Water Pollution Control Plant (MCWPCP) is a Division of the Moore County Public Works Department. It is located about ½ mile south of Addor on Aberdeen Creek in Moore County. The plant is capable of treating 10 million gallons of wastewater a day. The plant receives and treats wastewater from Aberdeen, Pinehurst, Southern Pines, Pinebluff, Carthage, Camp MacKall and septic tank waste from within Moore County. The plant, operating under NPDES permit NC0037508, discharges into Drowning Creek of the Lumber River basin. The plant currently has about 18 miles of interceptor lines and 19 wastewater flow meters from municipal connections. The MCWPCP is an activated sludge treatment facility with two stages of aeration and three stages of sedimentation. Anaerobic digestion is utilized to reduce the volume of sludge, which is subsequently dewatered using belt filter presses. For more details regarding the MCPU collection system and wastewater treatment operations, please see the [FY 2017-2018 Moore County Water Pollution Control Plant Wastewater Annual Performance Report](#).

Due to some of the MCPU-Pinehurst wells being located in rural areas, some properties located within the WHPAs utilize private septic systems. These systems are not listed individually as there are numerous systems; however, most are considered low risk contaminant sites because there is less than one system per half acre. The community of Clarendon Gardens located two miles west of Downtown Pinehurst in the WHPA for wells 19 and 20 is served by septic tanks with typical lot size ranging from half an acre to three acres. No septic tank is located within 100 feet on any MCPU-Pinehurst well. Septic tanks are permitted and inspected by Moore County Environmental Health who can be reached at 910-947-6283.

Lift Stations – There are four (4) lift stations located within the wellhead protection areas. All lift stations are equipped with audible and visual alarms and an auto dialer system in case of pump failure. All sewage lift stations are inspected one to two times per week. These lift stations have been inventoried individually and are included in the PCS charts.

Abandoned Wells – Moore County Environment Health was contacted concerning privately owned abandoned wells. At the time of submittal of this plan, there was no response from the request. All inspections of private drinking water wells are conducted by Moore County Environmental Health. MCPU will request a meeting to discuss private wells and private abandoned wells during the implementation stage of the plan. Any discoveries will be addressed and added to the PCS Inventory.

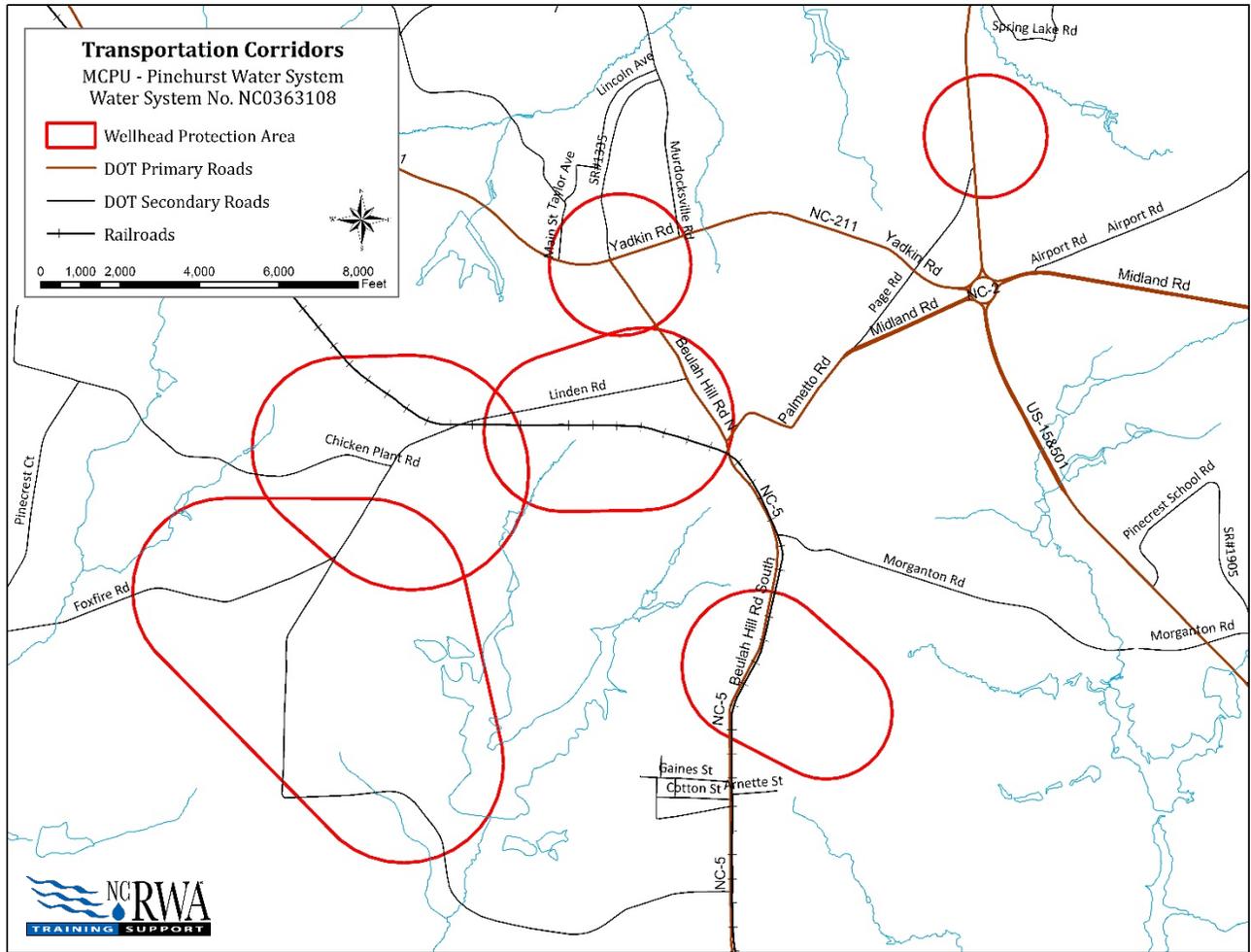
Naturally Occurring Contaminants – Radium is a naturally occurring radioactive element found in the bedrock underlying the community’s water source. There is a risk of radium contamination to the groundwater due to natural erosion processes. MCPU will continue to monitor their water for radium and provide data to the public in the Consumer Confidence Reports. MCPU will notify the public if radium levels exceed the Maximum Contaminant Level (MCL) and evaluate ways to reduce the contaminant.

Private Irrigation Wells – Private irrigation wells are not depicted on the PCS maps, because of the large number of these wells in the wellhead protection areas. The Village of Pinehurst requires that all new irrigation wells be permitted and inspected, and well construction records are kept at the Village Hall.

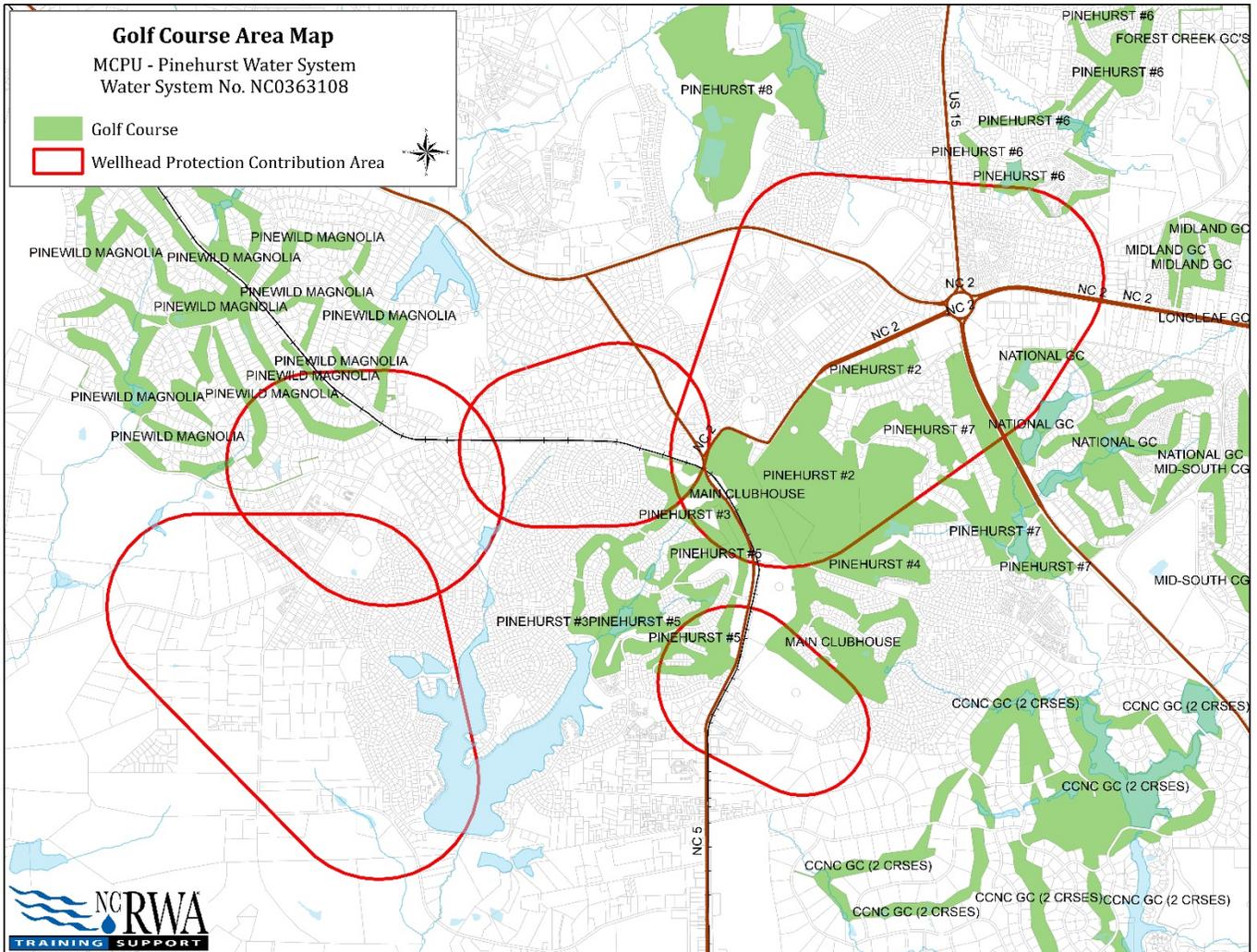
Transportation Corridors and Railways – The following map displays primary thoroughfares, secondary roads, and railways located within the WHPAs. Heavy areas of transportation or cargo carriage are more susceptible to contamination from continuous exposure to substances through spills and wreckage. Transportation routes of concern in the area include the following:

Transportation Corridors	Type
US 15, US 501	US Highways
NC 2, 5, 211	NC Highways
Airport Rd., Midland Rd., Yadkin Rd., Page Rd., Palmetto Rd., Beulah Hill Rd. N., Beulah Hill Rd. S., Murdocksville Rd., Yakdin Rd., Main St., Linden Rd., Chicken Plant Rd., Foxfire Rd.	Secondary Roads
Aberdeen, Carolina & Western Railroad, Aberdeen & Rockfish Railroad, and CSX Railroad	Railroads

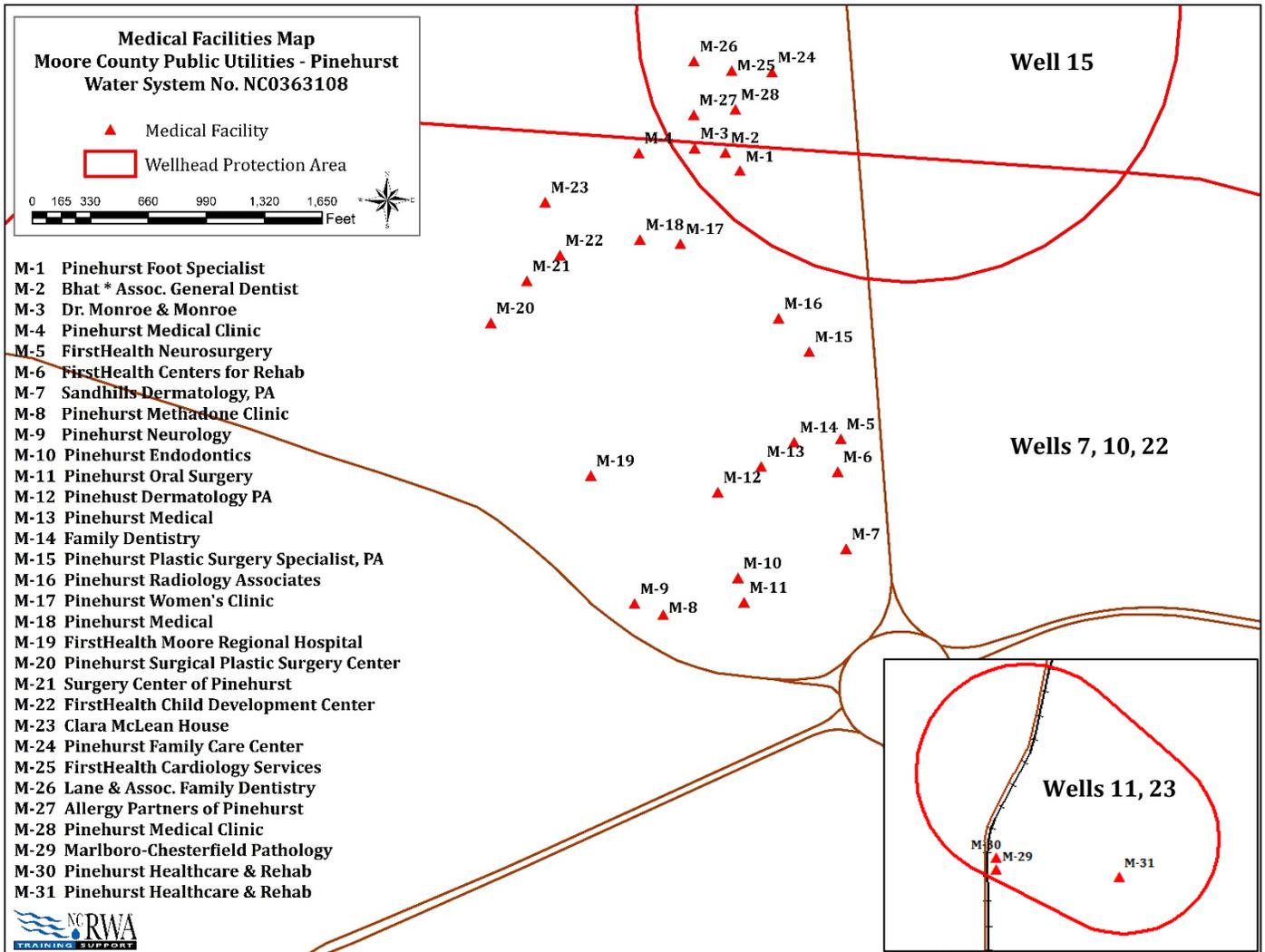
Table 6. Transportation Corridors and Railways



Golf Courses – There are eight (8) golf courses covering surface area within the wellhead protection areas. All but one of these courses is owned, maintained, and operated by the Resorts of Pinehurst, Inc. The other, Pinewild Magnolia, is owned, operated, and maintained by Pinewild Country Club of Pinehurst. Potential contaminants of these golf courses include pesticides, herbicides, and fertilizer application at agricultural rates. Because this type of contaminant is not a point source of contamination, it has not been included in the risk assessment, but, has been considered in the vulnerability assessment.



Medical Facilities/Establishments - There are thirty-one (31) medical facilities located in the wellhead protection areas of MCPU-Pinehurst system. Because these facilities are low risk and highly contained, they are not included individually within the PCS Inventory Charts and are not included in the risk assessment.



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. Pollution incident records located at the NC DEQ, Division of Waste Management, UST Section of the Fayetteville Regional Office were reviewed and a summary for current/open case pollution incidents has been included. For additional information pertaining to any case, please contact the UST Section at the Fayetteville Regional Office of NC DEQ by calling 910-433-3300.

Regulatory Agency Databases Researched for PCSs	
Database	Results
Animal Operations	None
CERCLIS Sites	None
National Priority List Sites	None
Non-Discharge Permits	None
NPDES Permits/State Stormwater	One (1)
Old Landfill Sites	None
PCB Sites	None
Pollution Incidents	Seventeen (17)
RCRA Hazardous Waste Generators/Transporters	None
RCRA TSD Sites	None
Septage Disposal Sites	None
Soil Remediation Sites	None
Solid Waste Facilities	None
Tier II Sites	None
UIC Permits	Two (2)
UST Permits	Seven (7)

Table 5. Regulatory Agency Database PCSs per Type

Pollution Incidents (UST Releases and Non-UST Releases)

29386 Cole Residence - Petroleum release occurred on 3/14/13. The Initial Abatement Action Report/Soil Contamination Report received by the UST Section, Fayetteville Regional Office on March 25, 2013, was reviewed. The review indicated that after soil excavation soil contamination does not exceed the lower of the soil-to-ground maximum soil contaminant concentrations (MSCCs). The UST Section determined that no further action is warranted for this incident as described in the Notice of No Further Action dated April 16, 2013. (**Map Code K-1**)

#22760 Resort of Pinehurst Golf Course Maintenance - Petroleum release was discovered upon removal of four underground storage tanks on May 16, 2000, with samples taken at closure indicating

the leak exceeding the minimal reportable concentrations. Multiple monitoring wells were installed on site and samples were collected through 2005. A Groundwater Monitoring Report dated August 2, 2005, was received and reviewed by the Fayetteville Regional Office, UST Section. An Acknowledgement of Report Receipt letter was issued to the Resorts of Pinehurst, Inc. on September 6, 2005, stating that the release does not meet the requirements for further assessment or corrective action, and, therefore, is not directed to proceed. It also stated that a Notice of Regulatory Requirement would be issued when additional assessment or corrective action is required. **(Map Code K-2)**

DSCA # DC630001 Pinehurst Hotel Cleaners – The Old Pinehurst Hotel Cleaners is the location of a former dry cleaning facility. In a 1991 Site Investigation, tetrachloroethane and trichloroethane were discovered in the groundwater on site and on the adjacent lot, both being in excess of the standards. Water Supply Well No. 8, Test Well No. 7, Test Well No. 6, and one private irrigation well were within 2500 feet of the site as of 2005. As of January 4, 2017, as reported in the most recent Groundwater Monitoring Report, Prior assessment activities identified a chlorinated solvent plume in groundwater extending from the former dry cleaner location approximately 650 feet downgradient. The downgradient edge of the plume is not defined, but additional downgradient wells cannot be feasibly installed due to the presence of a downgradient landfill. In March 2010, 600+ hybrid poplar and willow trees were planted on 0.95-acres downgradient of the former dry-cleaner location to mitigate the discharge of contaminants to the downgradient stream. The phytoremediation system initially appeared to be effectively dewatering the plume area upgradient of the stream and thereby mitigating the stream impacts. However, tetrachloroethylene (PCE) has periodically been detected at concentrations above the 2B Surface Water Standard since 2015, including detections above the 2B Surface Water Standard during the most recent event conducted in November 2016. The results of the recent groundwater sampling indicated concentrations have reduced substantially in the phytoremediation area (MW-6 and MW-8) and in the groundwater source area where injection was previously performed (MW-11S). Concurrent with the recent sampling event, "Area A" of the phytoremediation system located over the western portion of the plume was being cleared by others as part of construction activities. Monitoring wells MW-6S/D, MW-7S/D, MW-8S/D, and MW-9S/D were abandoned to avoid damage during construction. On-going groundwater and surface water monitoring and periodic inspection of the remaining phytoremediation area will continue. **(Map Code K-3)**

21790 Manor Care Nursing Center – A 550 gallon diesel UST was removed from the site on April 19, 1995. Upon removal, excavated soil had no odor and no visible staining; however, soil samples revealed concentrations of BDL up to 58.6 ppm or above the action level of 40 ppm. The last sample taken showed all levels below the action level. **(Map Code K-4)**

29053 Short Stop 77 – A petroleum release incident was discovered on March 17, 2003, during an annual line and leak detector test. According to site inventory records, an estimated 21 gallons of fuel was potentially released prior to terminating tank usage. Petroleum-impacted soils in the vicinity of the failed product piping connection were removed in conjunction with product piping repairs. A Limited Site Assessment report was received at the UST Section Fayetteville Regional Office on October 1, 2003. Data in the report shows that soil contamination does not exceed either the residential or soil-to-groundwater maximum soil contaminant concentrations, and that groundwater contamination does not exceed the level of standards. Based on the information provided, the UST Section classified the risk posed by the release as low risk and determined that no further action is required for the incident. **(Map Code K-5)**

29756 J. Edgar Property – A site inspection and sampling on March 12, 2012, confirmed a leaking UST in the backyard of this residence. Details of this incident are on file at the Fayetteville Regional Office. A Notice of No Further Action was issued on July 3, 2012. (**Map Code K-6**)

29982 Village Fillin Station – According to a UST Closure Report submitted to the UST Section, FRO, two USTs were removed from the property on November 14, 2011. Review of the Closure Report by the UST Section indicates that, after tank closure, soil contamination does not exceed the lower of the residential maximum soil contaminant concentrations. The UST Section determined that no further action was warranted. (**Map Code K-7**)

5532 Bill Clark Chevrolet – A petroleum release was discovered onsite in early 1990. Monitoring wells were installed and sampling took place over a period of time through 1993. In February 1993, the Fayetteville Regional Office determined that additional assessment work was required. Additional record of this incident can be obtained from the UST Section, Fayetteville Regional Office. As of April 2019, this site is part of a low risk site closure initiative and is scheduled to be closed in the near future. (**Map Code K-8**)

29122 Team Express Home Buyers – A petroleum release was confirmed after sampling of soil was taken when a UST for heating oil was removed from the residence on March 4, 2004. Date of the release is unknown. A Limited Site Assessment (LSA) dated July 16, 2004, reports that no sampled constituents detected surpassed the Maximum Soil Contaminant Concentration thresholds and no groundwater contamination was detected. Based on the information provided in the LSA, the UST Section of the Fayetteville Regional Office issued a Notice of No Further Action for this incident dated August 4, 2004. (**Map Code K-9**)

7788 Pinehurst Middle School – A petroleum release (diesel) was discovered upon removal of a UST on April 6, 1992. A Notice of Regulatory Requirements was issued by the Fayetteville Regional Office on September 28, 2001. This is a low risk contamination event as cleanup occurred in 1992. However, a Limited Site Assessment would have to be performed in order to achieve closure. (**Map Code K-10**)

29025 Community Presbyterian Church – On October 9, 2002, a 280 gallon UST was removed from the Community Presbyterian Church and a soil sample was obtained for laboratory analyses. Soil samples confirmed a petroleum release. Upon review of a Limited Site Assessment dated April 28, 2003, by the UST Section of the Fayetteville Regional Office, the residual soil contamination at this location does not exceed the residential maximum soil contaminant concentrations. Also, the groundwater contamination meets the cleanup requirements for a low risk site. Therefore, a Notice of No Further Action was issued; however, there is no certified copy of the Notice of Residual Petroleum or public notice in the digital records for this pollution incident. (**Map Code K-11**)

29722 Bicket Property – One approximately 550 gallon heating oil UST was removed from the subject site in August 2011. Petroleum odors and staining were observed in the soils at the base of the tank excavation area. Around 40 gallons of material was removed from the UST during preparation for tank closure. Sampling confirmed the presence of diesel range TPH in excess of the NCDENR reporting level. A Residential UST Closure Report was sent to the Fayetteville Regional Office dated September 22, 2011. Additional sampling in October 2011 reported no soil samples or groundwater samples to have concentrations above laboratory minimum detection limits. A Notice of No Further Action was issued and the incident was closed out on October 4, 2011. (**Map Code K-12**)

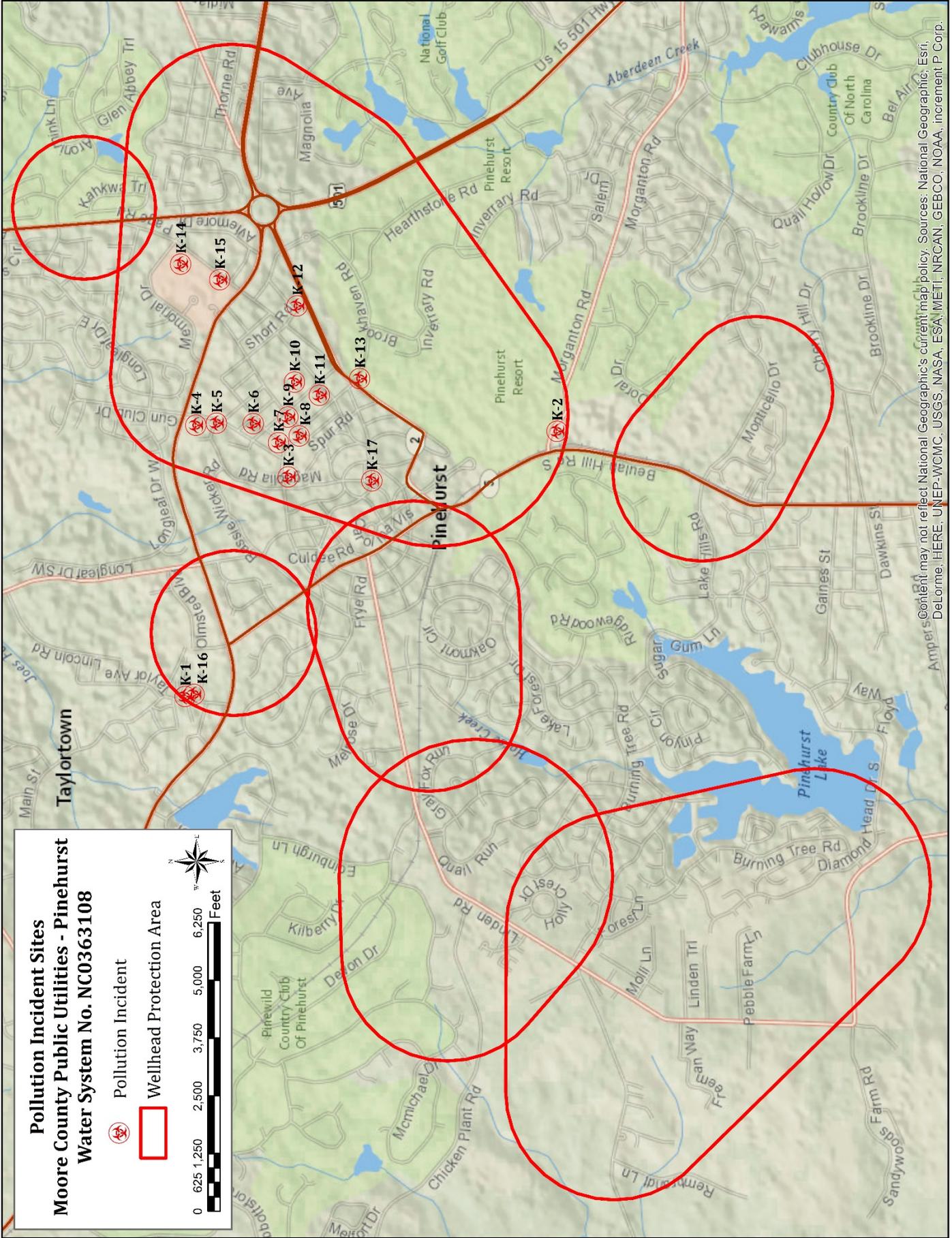
#19354 Pinehurst EDB - Wells #1 & #9 – In the early 1990s, EDB (ethylene dibromide – a chemical formerly used as an agricultural fumigant and formerly used in petroleum products) was identified in two of the MoWASA (Moore Water and Sewer Authority) water supply wells, well 1 and well 9. Well 1 was removed from service in 1993 and abandoned in 1999 to protect the lower level of the Middendorf aquifer, as the contaminant was being screened from the upper level of the aquifer. Well 9 EDM levels were not a public threat but contained levels of EDB. Following the incident of contamination to the Middendorf aquifer and the dramatic increase in the number of irrigation wells in the Pinehurst (>100 installed from 1995-1998), a Ground Water Management Program was developed for MoWASA. A 2003 Comprehensive Site Assessment detected levels of MTBE and other petroleum byproducts below GCLs. Around 2005, the Village of Pinehurst and DWQ submitted an Application Form for SITE Demonstrations to the EPA. This program identified hazardous materials sites available to host full-scale demonstrations using innovative treatment technologies. As of April 9, 2019, there has been no additional investigation performed at this site. This is a non-UST site which is low risk according to James Brown, Hydrogeologist, DWM, NC DEQ. **(Map Code K-13)**

UST Number: FA-3758 Moore Regional Hospital – A letter dated January 3, 2011, from the Fayetteville Regional Office (FRO), UST Section, approved the in-place closure of a 20,000 gallon heating oil underground storage tank. A letter dated February 23, 2011, from the FRO, UST Section, for the review of the tank closure report stated that soil contamination does not exceed the lower of the soil-to-groundwater or residential maximum soil contaminant concentrations. Therefore, no further action was warranted for this incident. **(Map Code K-14)**

9678 Pinehurst Surgical Center – According to a UST Leak Reporting Form dated January 15, 1993, 14.87 tons of contaminated soil were excavated and removed from this site during the permanent abandonment of three (3) UST heating oil tanks. A memo to the incident file dated January 16, 1997, states that the incident has been successfully remediated and is considered closed. **(Map Code K-15)**

90193 Barrett Property – A Notice of Regulatory Requirements dated December 22, 2015, describes confirmation of a release or discharge of petroleum product from improperly stored drums on the property. This original complaint was verified by a site visit on December 21, 2015, with pictures in the file showing conditions of the drum. The owner of the property never filed official reports of cleanup; however, according to Hydrogeologist, James Brown, of the FRO, Division of Waste Management, the spill had been visually cleaned up upon a site visit. No further action is necessary. **(Map Code K-16)**

29460 Razooks Building – Release was suspected upon removal of a 1,500 gallon UST on June 18, 2007, and was then confirmed by analytics. The UST stored oil for on-site heating purposes. The amount of the release is unknown. There was no free product in the excavation pit as there was roughly an addition 45 tons of soil removed. A Limited Site Assessment Report and a Site Closure Request was reviewed by the UST Section of the Fayetteville Regional Office on August 8, 2007. Reports indicated that soil contamination did not exceed the residential maximum soil contaminant concentrations and that groundwater contamination did not exceed the groundwater quality standards; therefore, no further action was warranted for the incident. **(Map Code K-17)**



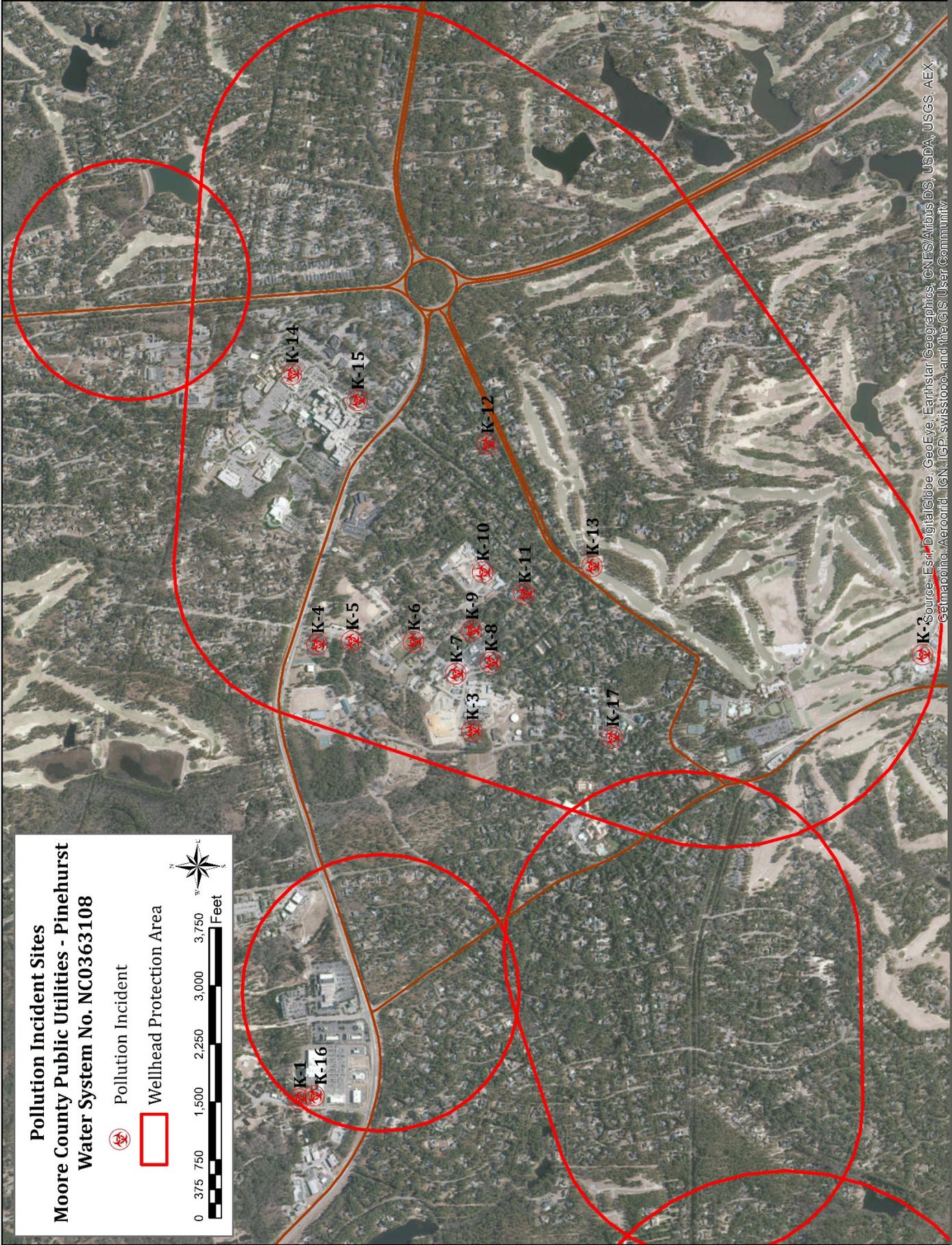
Pollution Incident Sites
Moore County Public Utilities - Pinehurst
Water System No. NC0363108

 Pollution Incident
 Wellhead Protection Area

0 625 1,250 2,500 3,750 5,000 6,250 Feet



Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.



Pollution Incident Sites
Moore County Public Utilities - Pinehurst
Water System No. NC0363108

 Pollution Incident
 Wellhead Protection Area

0 375 750 1,500 2,250 3,000 3,750 Feet



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Geoport, AeroGRID, IGN, IGP, swisstopo, and the GIS User Community

Potential Contaminant Source Inventory

Tables and Maps

The following tables list the potential point sources of contamination in each of the MCPU-Pinehurst system wellhead protection areas. The exception to these are home heating oil tanks, septic tank systems, and private wells used at numerous residences, which remain off the inventory for this reason. Transportation Corridors, Golf Courses and Medical Facilities are not included in the PCS Inventory Charts as they are described in detail in a previous section. The tables have map codes used to identify the potential sources of contamination on the PCS Inventory Maps. 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 Charts “small quantities” means less than 200-gallons or 100-pounds. Where “TBD” (to be determined) is listed on the PCS Data Charts, the Site Evaluation Form for each site will be completed during plan implementation. The map codes used to identify each potential contaminant site category are detailed in [Table 3](#). A map of Water Treatment Facilities and Public Water Supply Wells has been included in the [appendix](#) along with the Potential Contaminant Source Maps and Data Charts.

Potential Contaminant Source Inventory Charts

PCS Category	Map Code	PCS Site
Animal Boarding	A-1	Antares Dressage
AST	B-1	Well # 19
	B-2	Well # 22
	B-3	Village of Pinehurst Public Works & Central Maintenance
	B-4	CenturyLink
	B-5	Village of Pinehurst Harness Track
	B-6	Pump Station 13-1
	B-7	Pump Station 9-1
	B-8	Pinehurst Police Department
Automotive Repair	C-1	Clark-Chevrolet Collision Center
Cemetery	D-1	Deep Creek Baptist Church
	D-2	Pinewild Property Owners Association
Chemical Storage	E-1	Village of Pinehurst Public Works & Central Maintenance
	E-2	CenturyLink
	E-3	Pinehurst Fire Department
	E-4	Village of Pinehurst Storage Facility
	E-5	Antex Exterminating Company Inc.
Dry Cleaner	F-1	Olmsted Cleaners
Gas Station	G-1	Mac's Food Store 1
	G-2	Short Stop 77
	G-3	The Pantry
	G-4	Harris Teeter Fuel Center # 80
Hardware/Supply Store	H-1	Hughes Supply
Lift Station	I-1	Pump Station 13-1
	I-2	Pump Station HF-1
	I-3	Pump Station 9-1
	I-4	Pump Station 17-3
Maintenance Shop	J-1	Golf Course Maintenance
	J-2	Village of Pinehurst Public Works & Central Maintenance
	J-3	Reynolds Landscaping

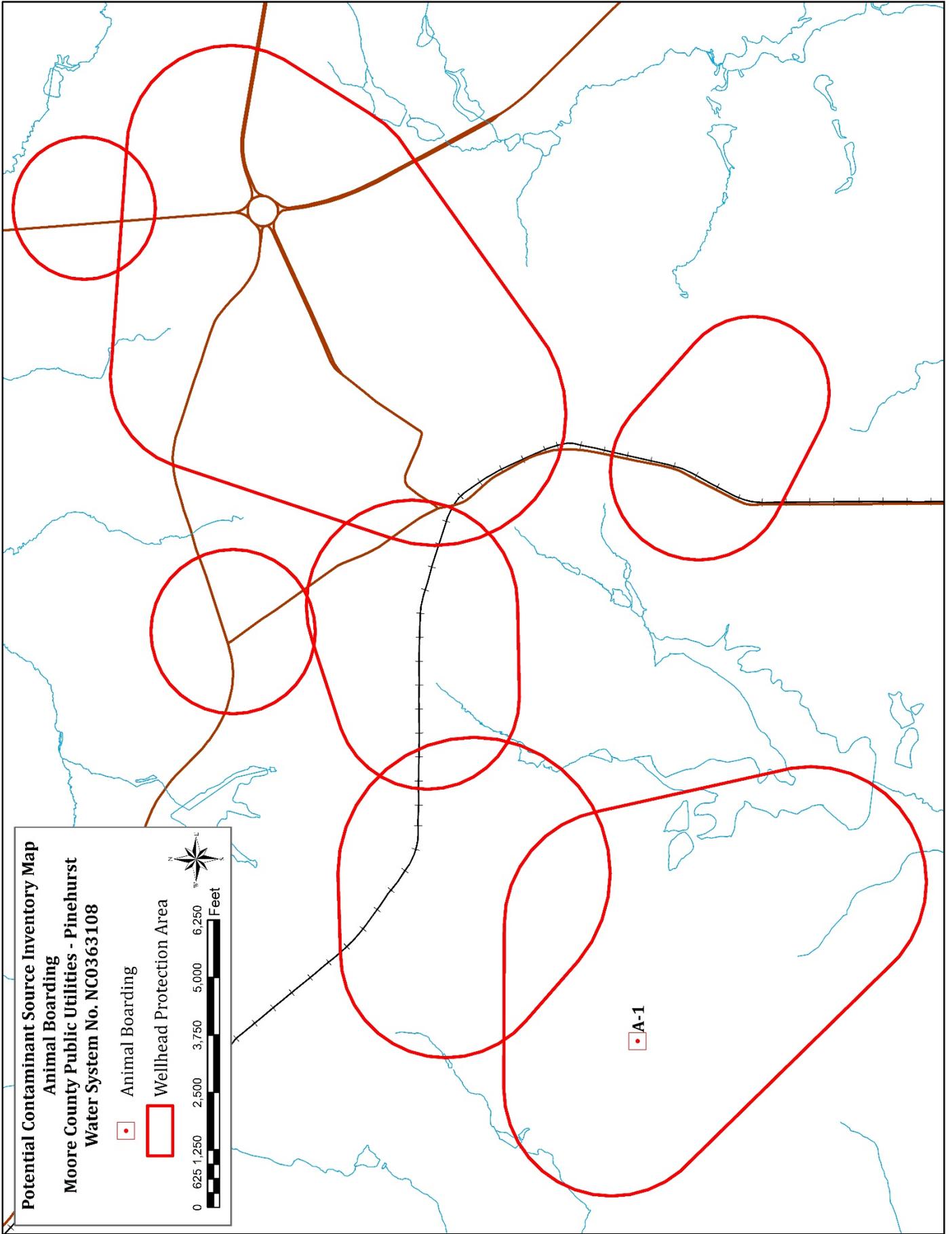
Table 6. Potential Contaminant Source Inventory Chart

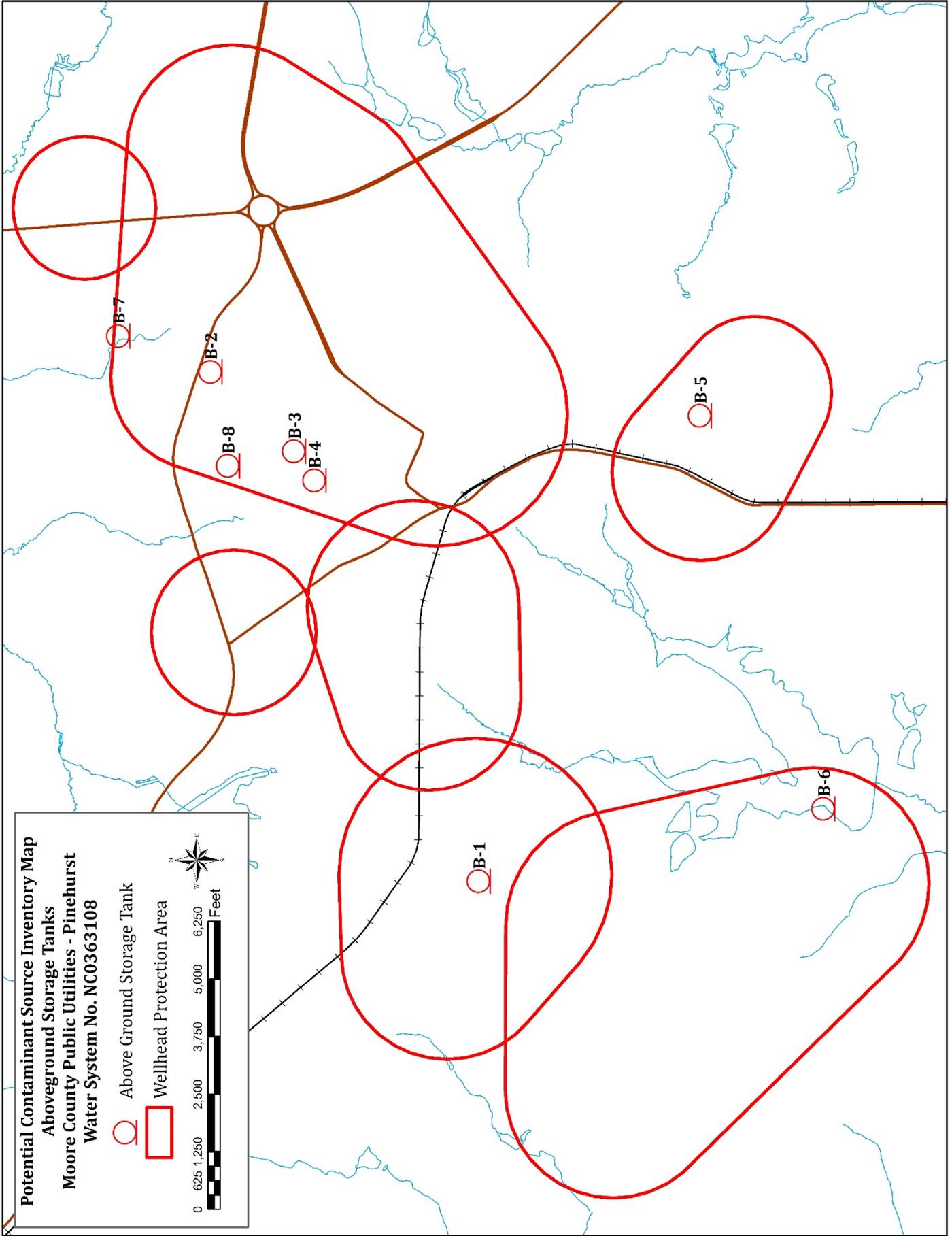
PCS Category	Map Code	PCS Site
Pollution Incident	K-1	Cole Residence
	K-2	Resort of Pinehurst Golf Course Maintenance
	K-3	Pinehurst Hotel Cleaners
	K-4	Manor Care Nursing Home
	K-5	Short Stop 77
	K-6	J. Edgar Property
	K-7	Village Fillin Station
	K-8	Bill Clark Chevrolet
	K-9	Team Express Home Buyers
	K-10	Pinehurst Middle School
	K-11	Community Presbyterian Church
	K-12	Bicket Property
	K-13	Pinehurst EDB - Well 1 & 9
	K-14	Moore Regional Hospital
	K-15	Pinehurst Surgical Clinic
	K-16	Barrett Property
	K-17	Razooks Building
Print Shop	L-1	Pinehurst Resort Sign Shop
Recreation Facility	M-1	Village of Pinehurst Harness Track
	M-2	Camelot Playground
	M-3	Rassie Wicker Park
State Stormwater	N-1	Village of Pinehurst Public Works & Central Maintenance
UIC	O-1	Julia B. Latham SFR
	O-2	Ernest & Krista Duncan
UST	P-1	Macs Food Store 1
	P-2	Golf Course Maintenance
	P-3	Short Stop 77
	P-4	Clark Chevrolet - Cadillac
	P-5	Moore Regional Hospital
	P-6	The Pantry
	P-7	Harris Teeter Fuel Center # 80

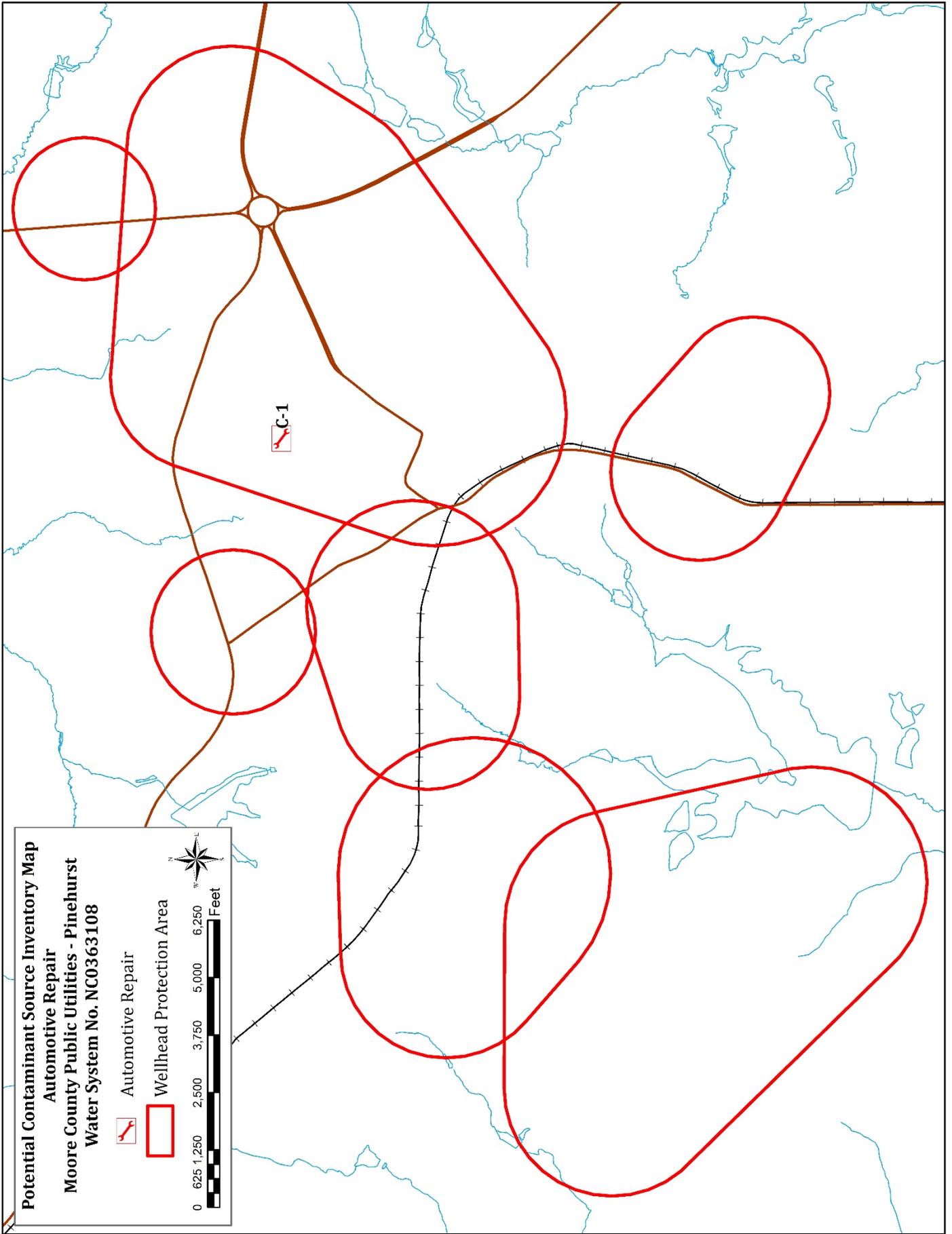
Table 6. Potential Contaminant Source Inventory Chart cont...

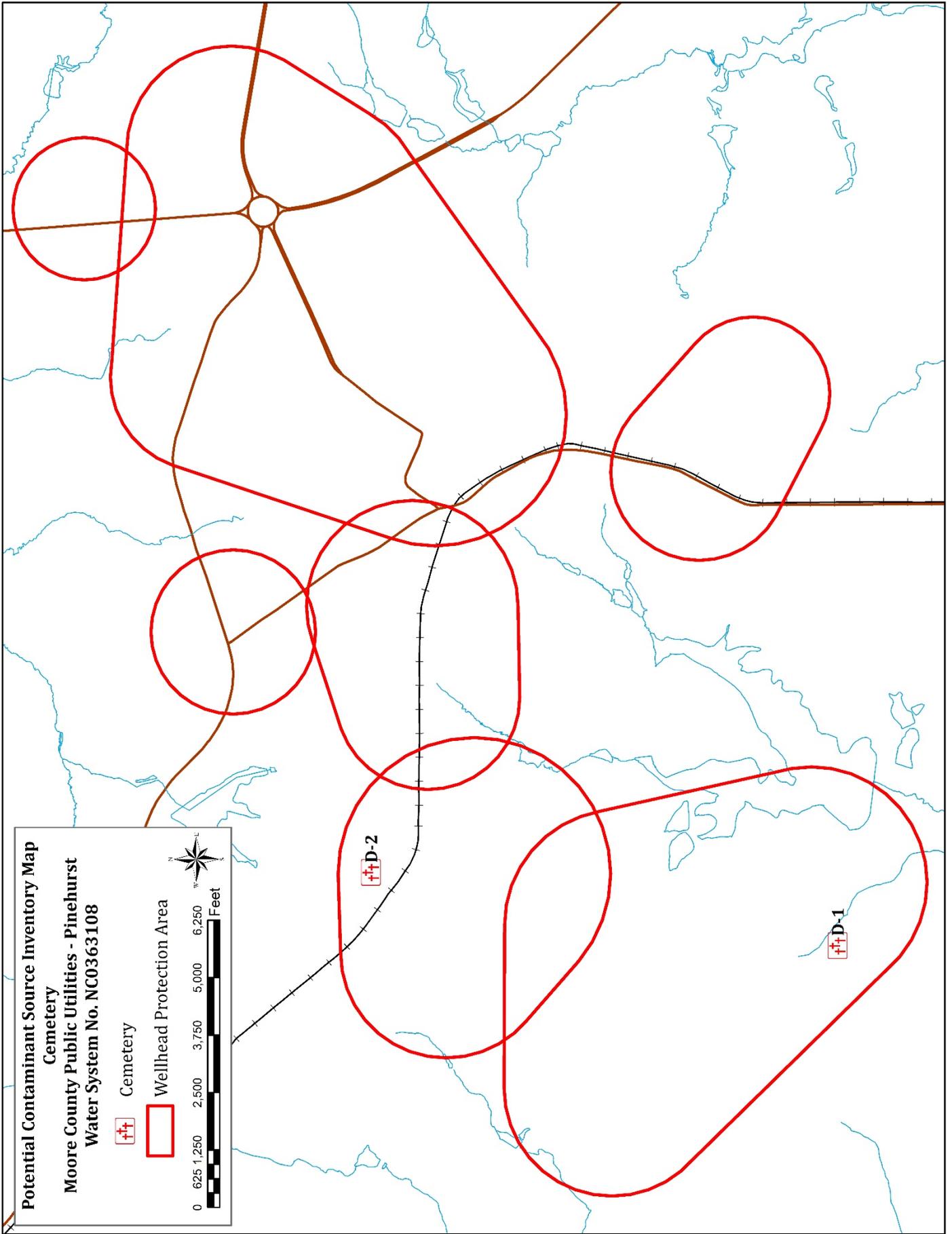
PCS Category	Map Code	PCS Site
Water Treatment/Public Water Supply Well (WSW)	Q-1	Deep Creek Baptist Church
	Q-2	Well # 21
	Q-3	Well # 12
	Q-4	Well # 13
	Q-5	Well # 16
	Q-6	Linden Villas Water System
	Q-7	Elliott's on Linden
	Q-8	Clarendon Gardens S/D - Well #1
	Q-9	Clarendon Gardens S/D - Well #2
	Q-10	Well # 20
	Q-11	Well # 19
	Q-12	Well # 18
	Q-13	Well # 2A
	Q-14	Well # 15
	Q-15	Taylortown Well # 3
	Q-16	Well # 5A
	Q-17	Well # 9
	Q-18	Well # 7
	Q-19	Well # 10
	Q-20	Well # 22
	Q-21	Well # 17
	Q-22	Well # 11
	Q-23	Well # 23

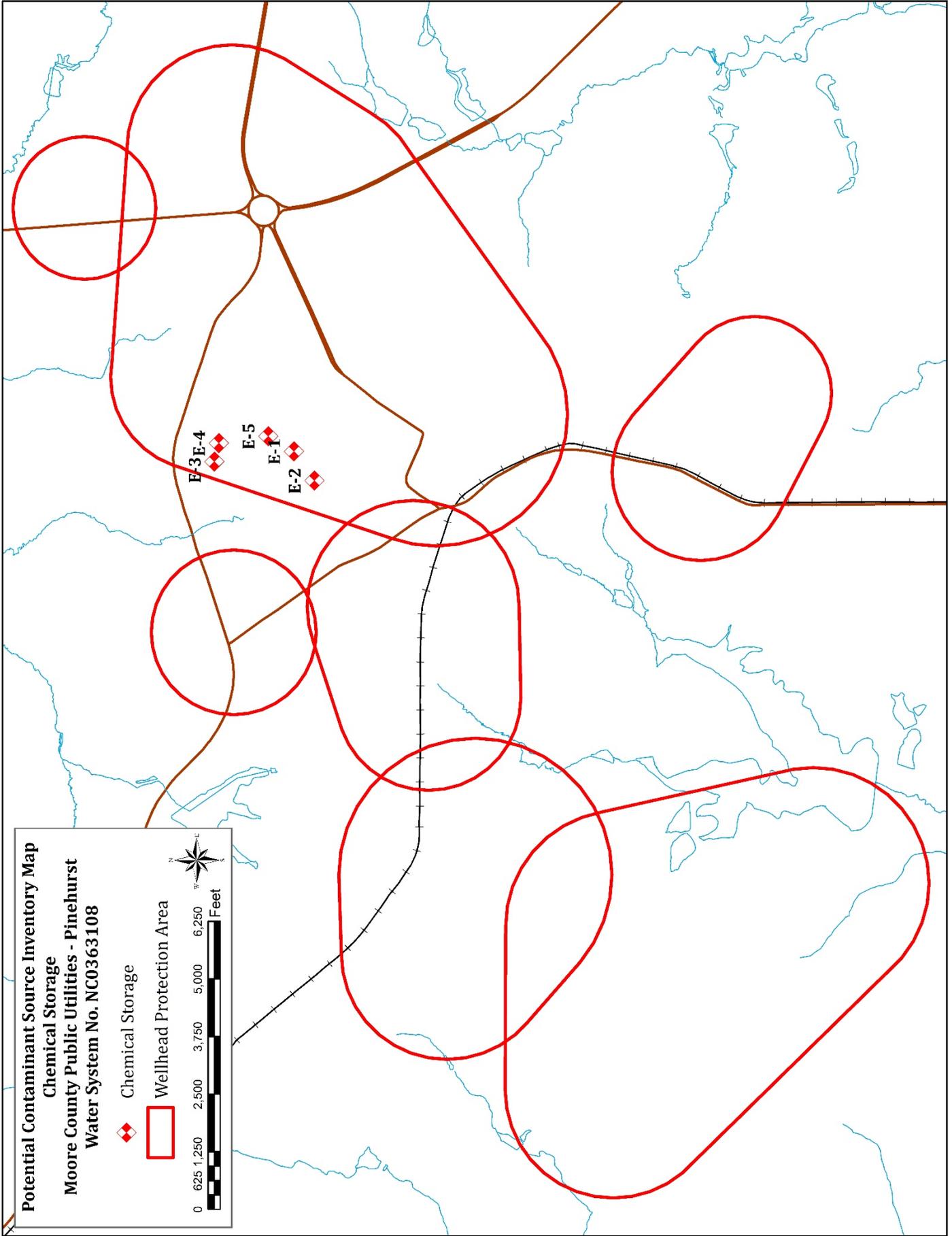
Table 6. Potential Contaminant Source Inventory Chart cont...

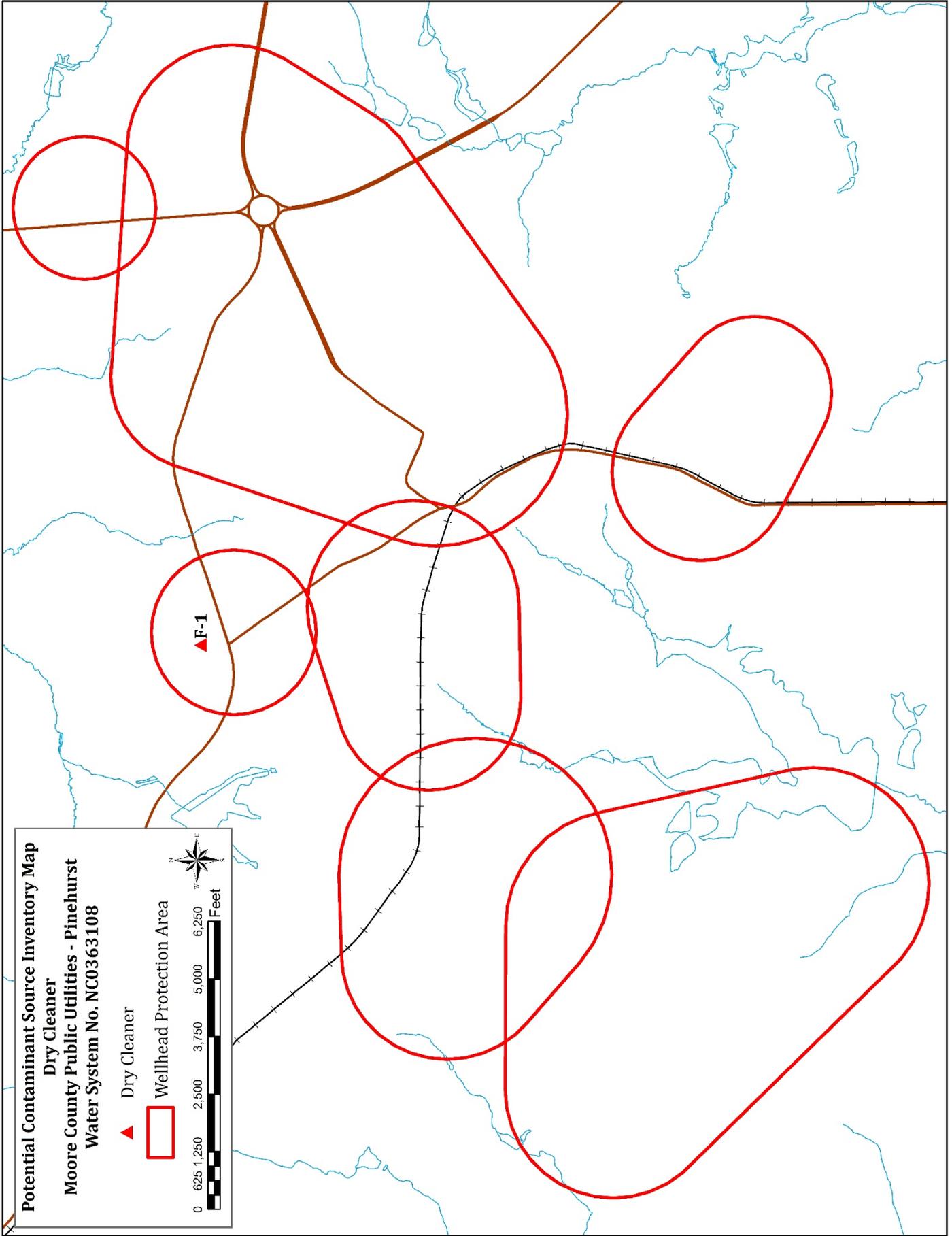


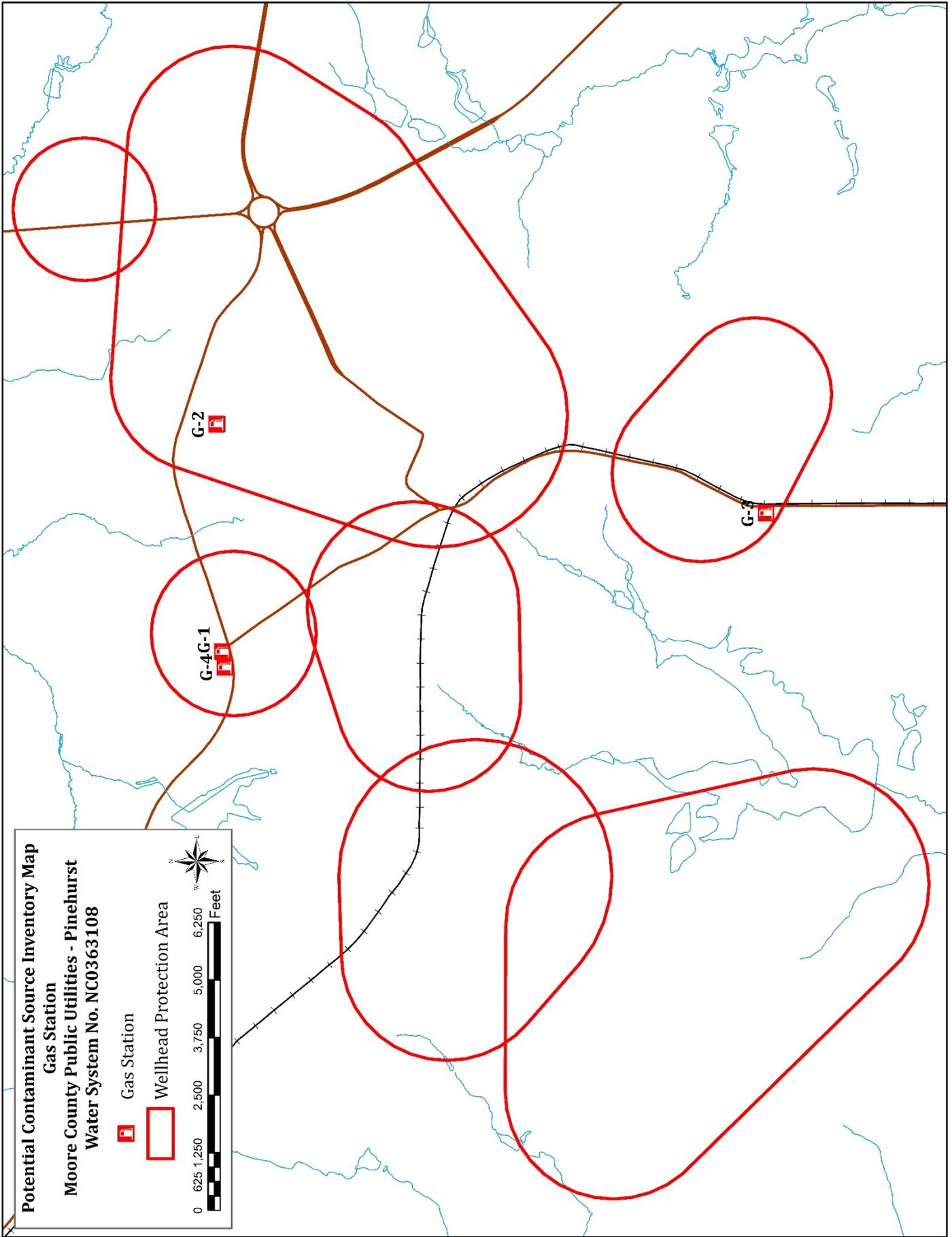


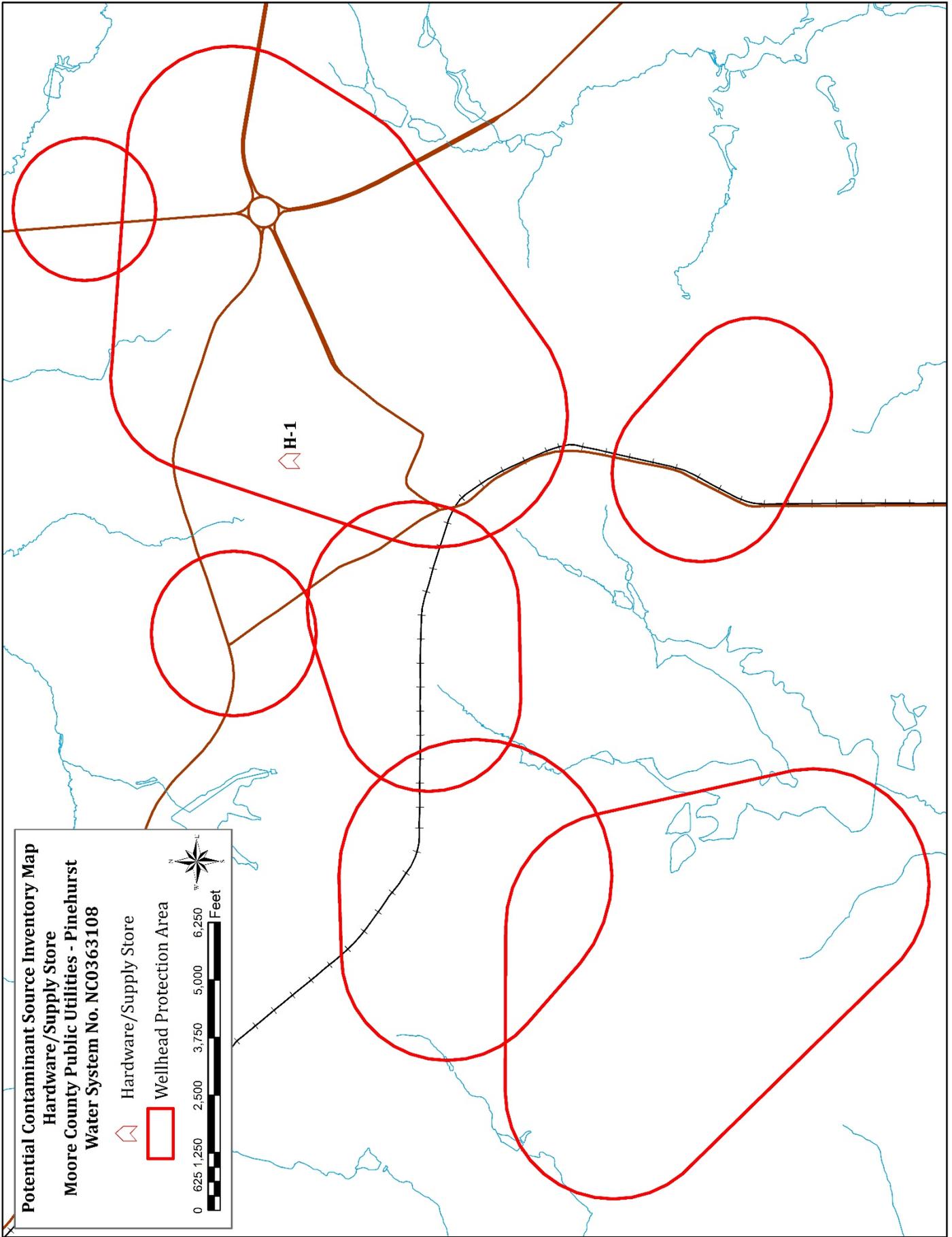


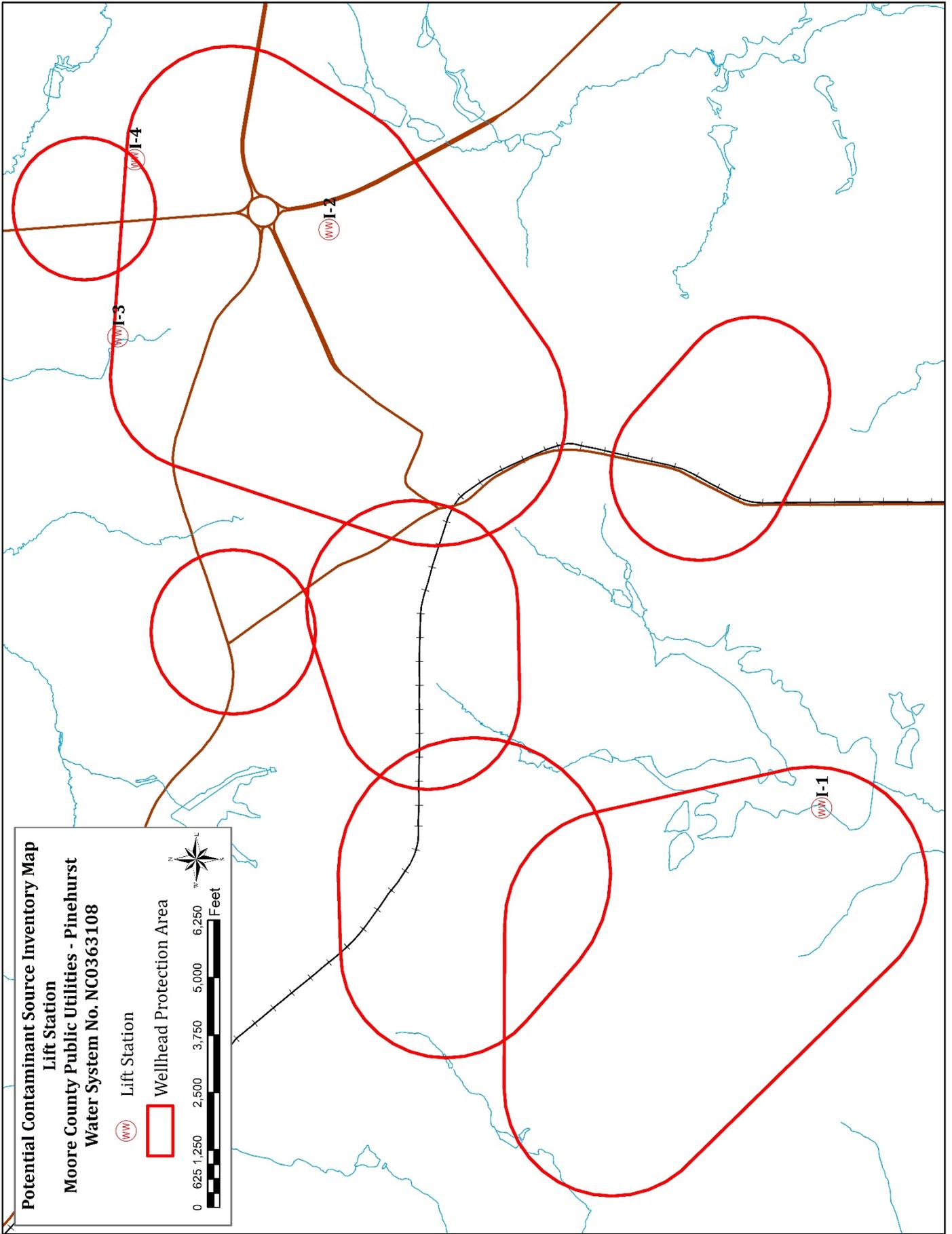


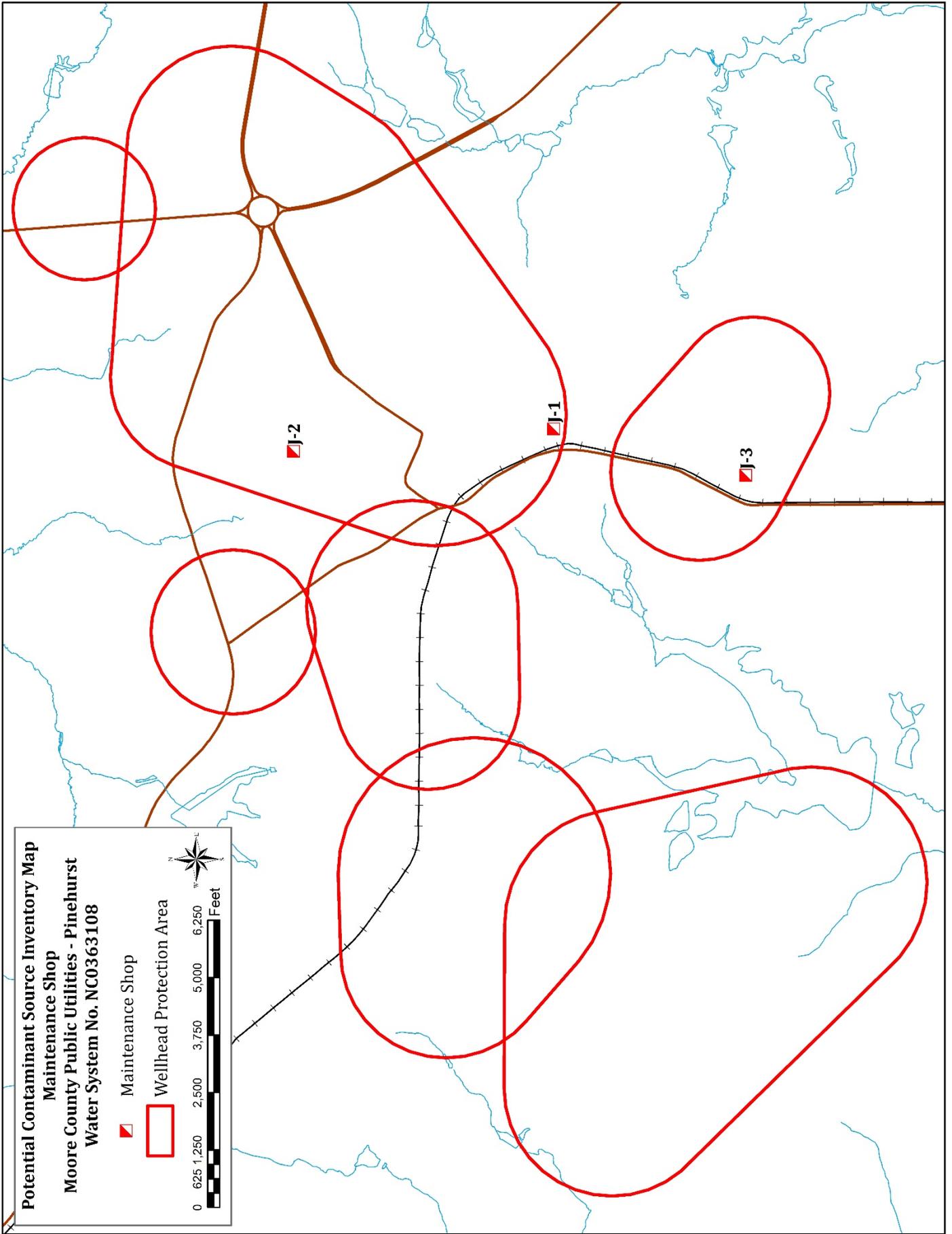


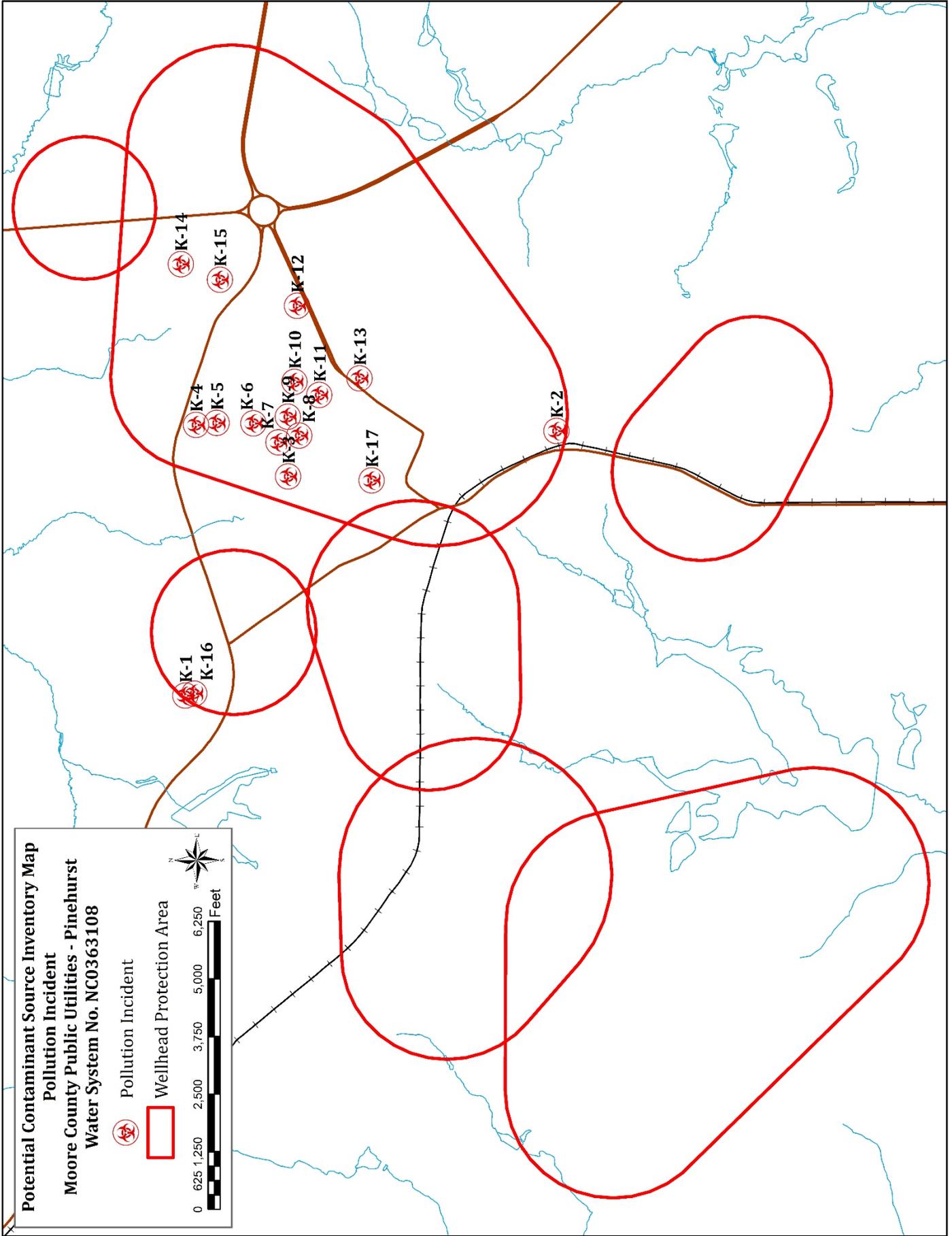


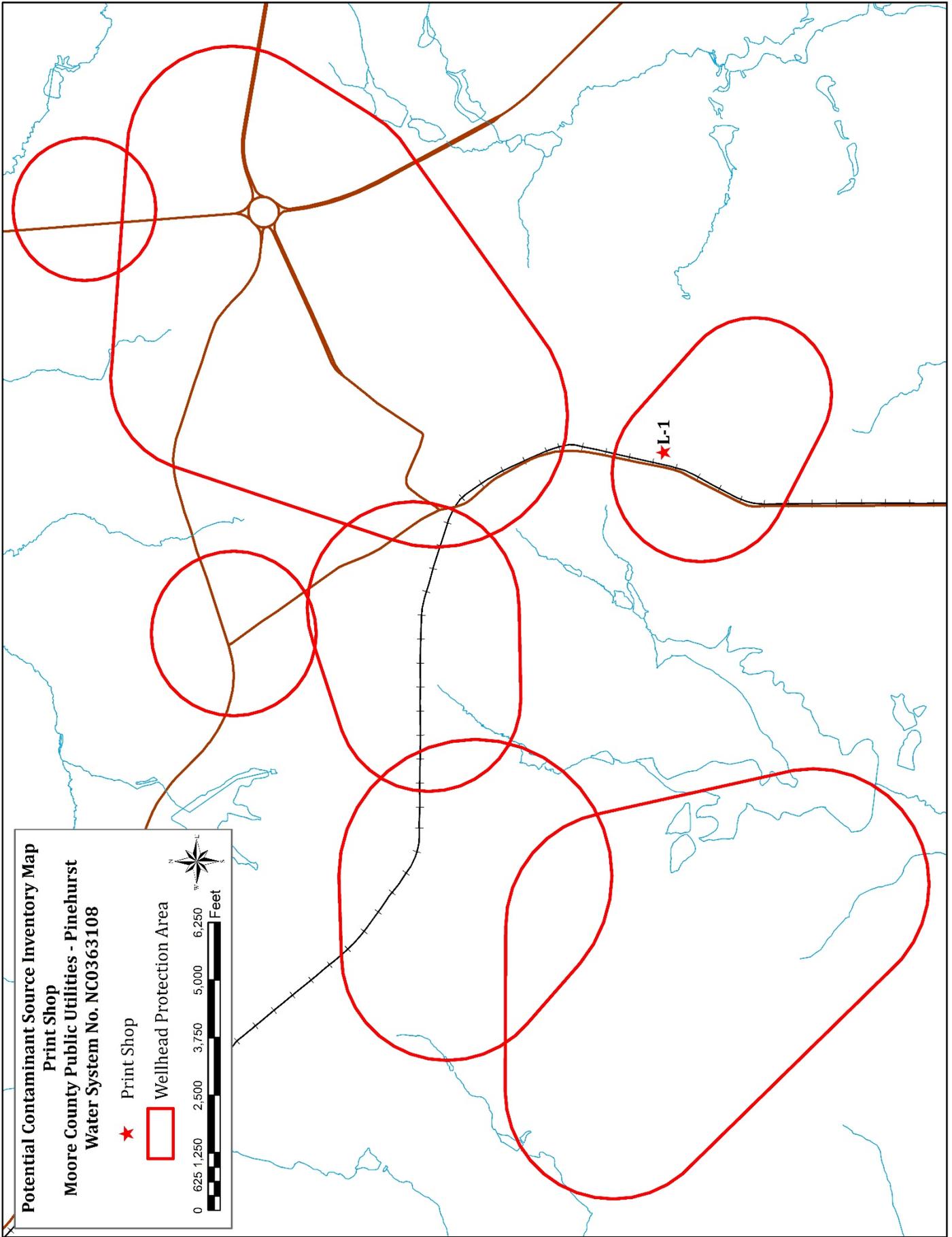


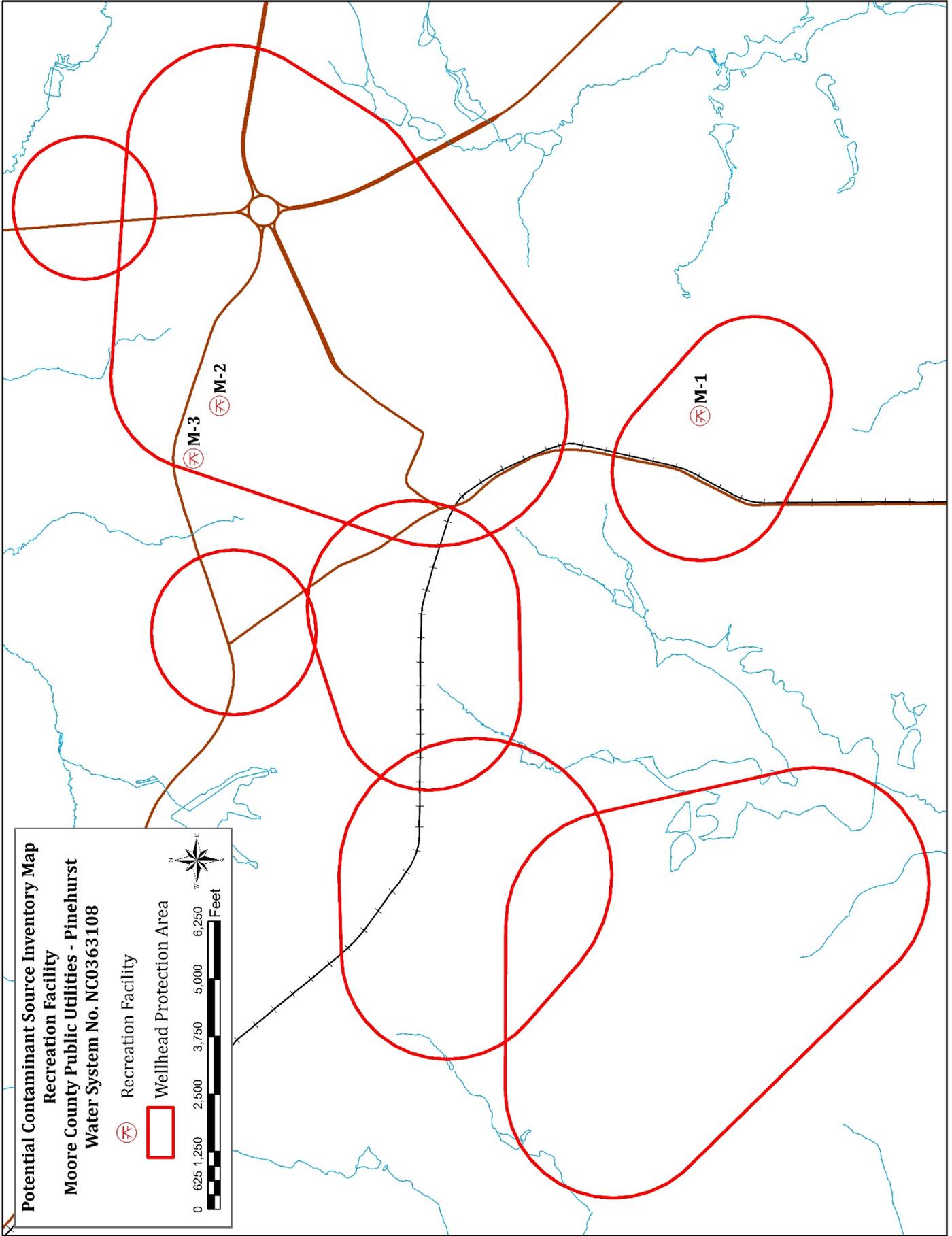


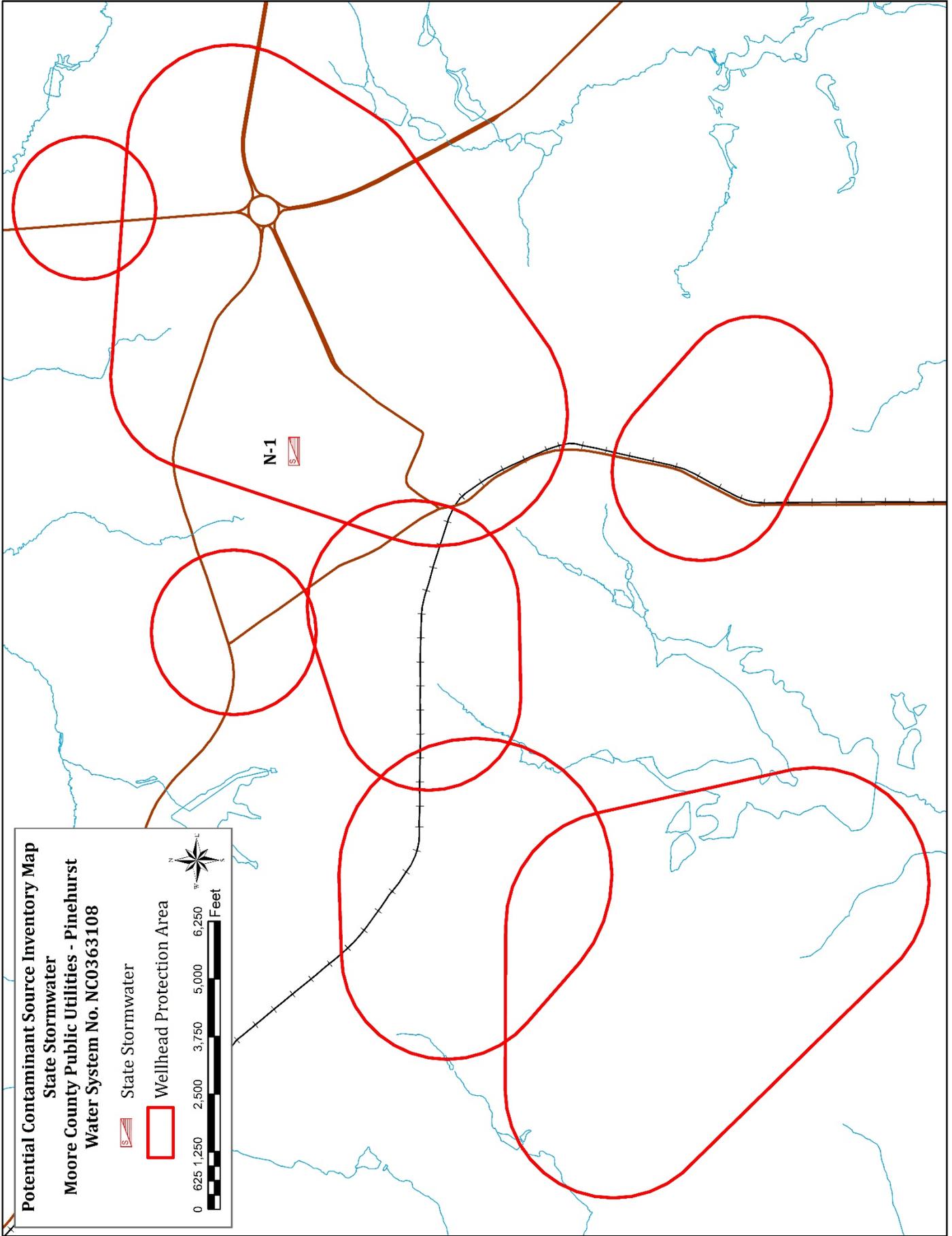


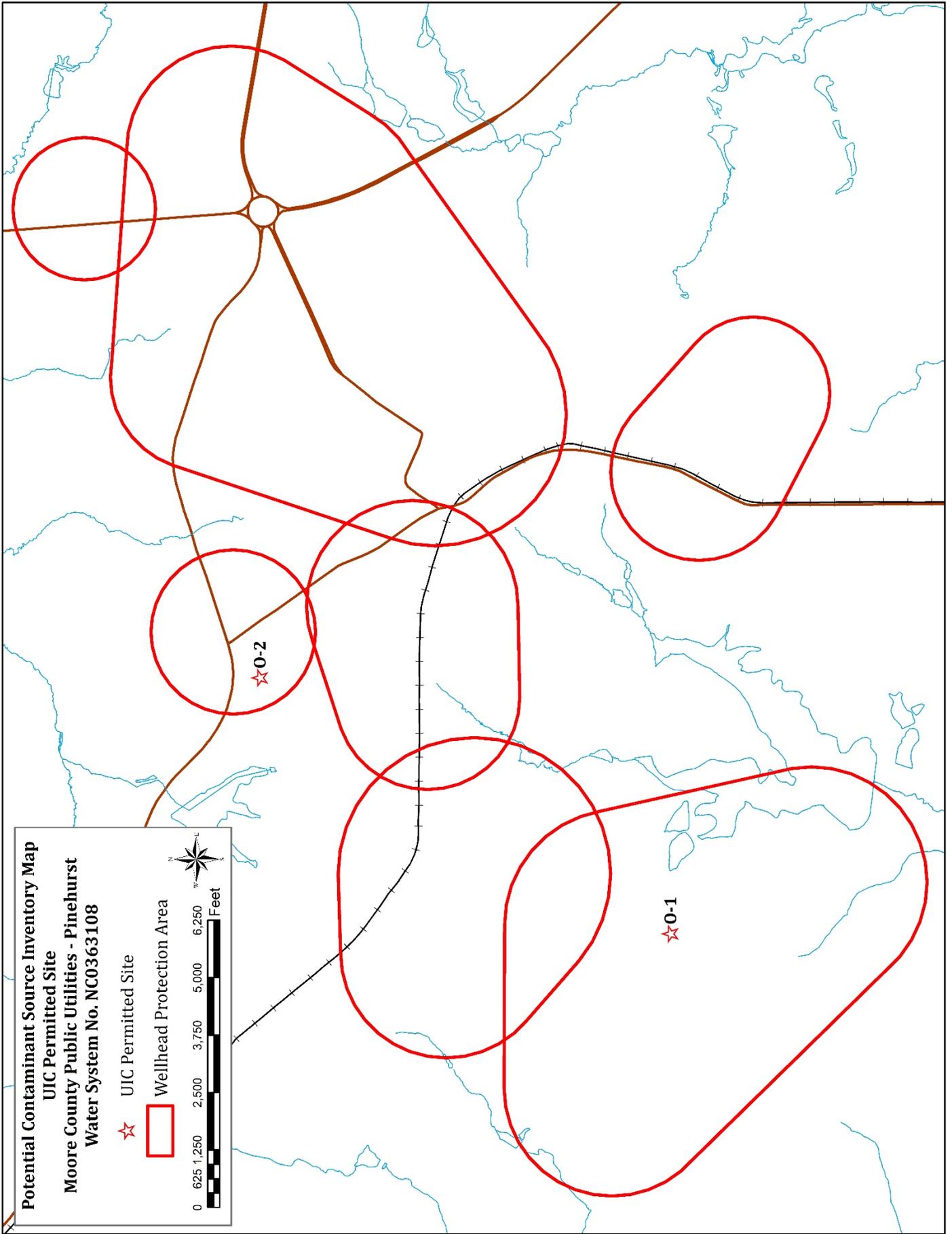


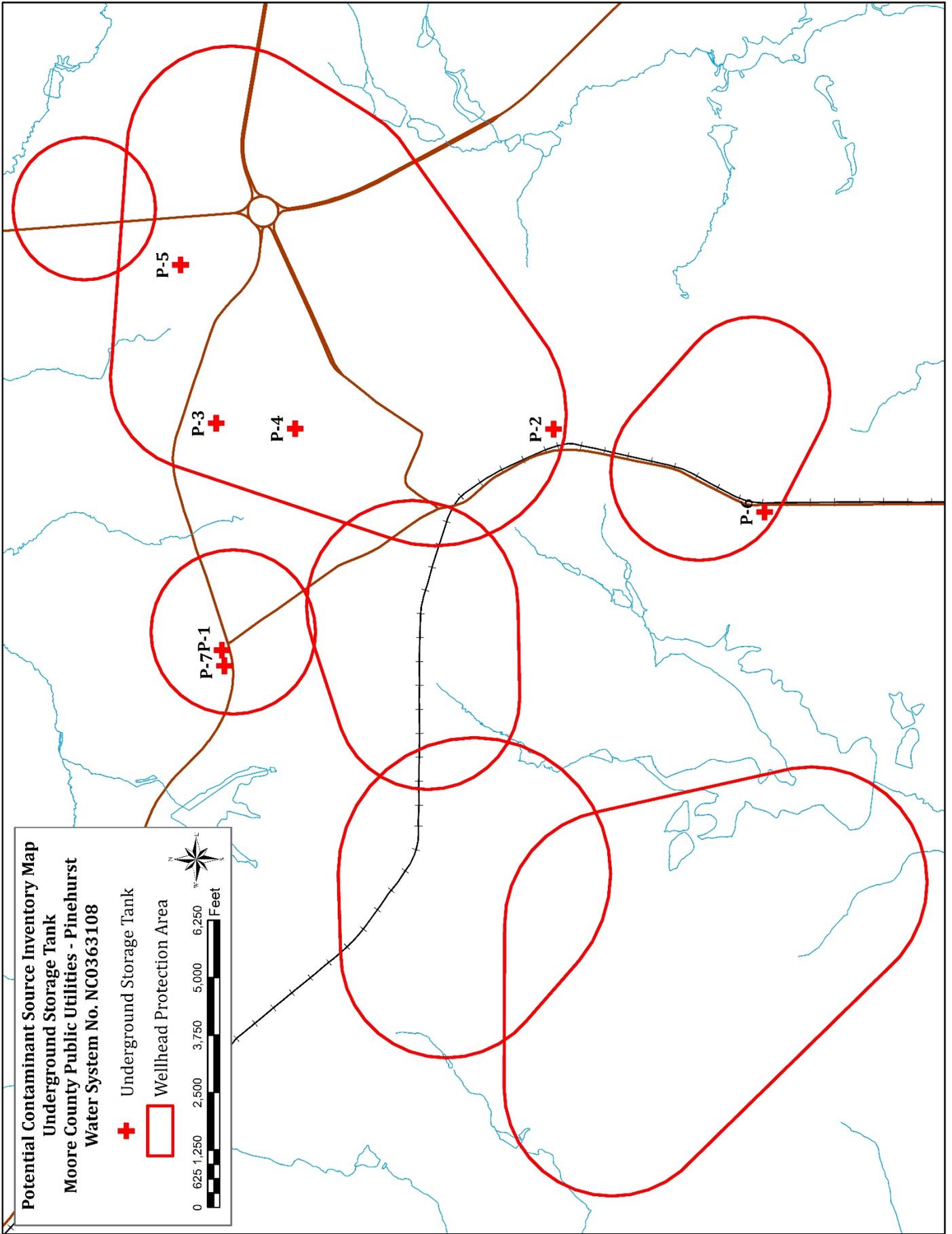


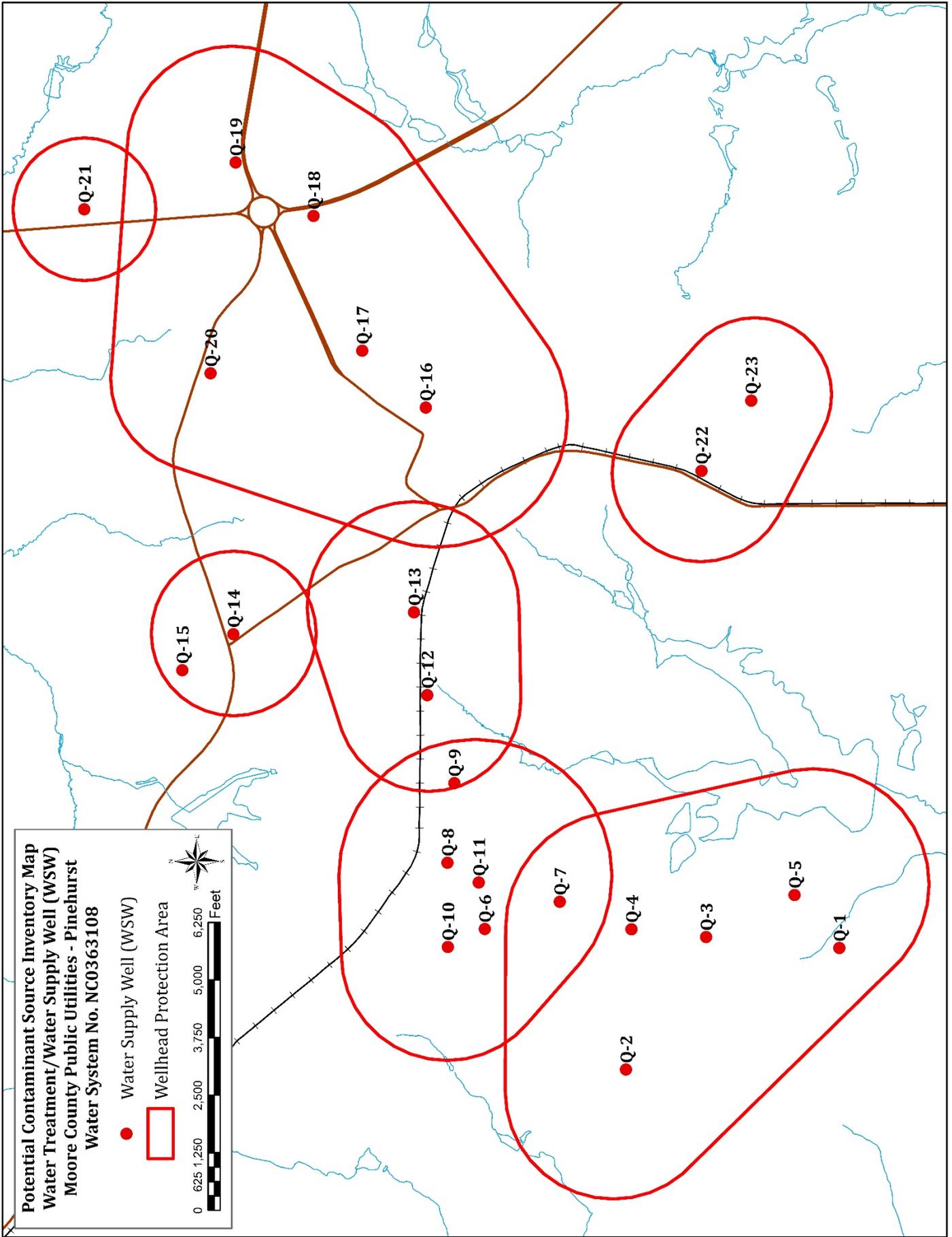












IV. RISK ANALYSIS

A Risk Assessment for the MCPU-Pinehurst system has been conducted. For each WHPA, the PCSs were ranked according to the threat each presented to the water supply well or wells. The following method was used to rank each PCS in each WHPA:

Each potential contaminant source was assigned to 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 contaminant source was assigned a numerical "category" score to correspond with the risk category [e.g., Higher-3, Moderate-2, and Lower-1]. Sites with known soil and/or groundwater contamination were assigned a score of "4". Each site of potential or known contamination was then assigned a "proximity" score calculated with the following equation:

$$\text{proximity score} = 1 - (\text{distance from the well pumping center} / \text{radius of the WHPA})$$

The final score for each PCS 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 the given WHPA according to the threat it poses to the water supply well. Assessing the relative risk of contamination within each WHPA from the PCSs it contains allows for a determination of (1) which water supply wells are at greatest risk of contamination, and (2) which PCSs should be considered first with respect to wellhead protection. Once the risk assessment is carried out, priorities can be set to more effectively manage the PCSs. Based on observations and the information obtained during the PCS inventory process, there are no immediate threatening concerns of contamination to any of the well areas. [Table 9](#) displays the potential risk of contamination to each individual well from highest probability to lowest. PCSs outside of the delineated WHPA for each individual well, located in the contribution area, were not included in the ranking of the wells.

Well Site	Physical Location	Yield (gpm)	Total Risk Score (H to L)
Well # 15	600 Beulah Hill Road North	100	14.32
Well # 22	200 Short Road	111	12.24
Well # 9	10 Muster Branch Road	135	8.01
Well # 19	Near 808 Linden Road	200	7.62
Well # 11	605 Monticello Drive	100	6.56
Well # 5A	Near 5 Muster Branch Road	220	5.72
Well # 12	5 Diamondhead Drive South	200	4.42
Well # 13	115 Forest Lane	140	4.06
Well # 20	10 Talladale Court	120	4.04
Well # 7	1 Brookhaven Road	150	4.03
Well # 16	200 Diamondhead Drive South	140	3.19
Well # 23	675 Monticello Drive	75	2.98
Well # 21	345 Foxfire Road	122	2.67
Well # 2A	Behind 175 Mckenzie Road West	132	2.22
Well # 10	Midland/Airport Road	140	2.04
Well # 17	146 Sakonnet Trail	75	2.01
Well # 18	35 Idlewild Road	100	1.99

Table 7. Risk Assessment of Contamination to Individual Well Sites

Results of the risk assessment for each well site, ranking potential contaminant sources according to their final risk score from highest to lowest, can be found in the [appendix](#).

In addition, the highly transmissive sands of the wellfield allows rapid transport of spills or leaks of contamination. The semi-confined aquifer is at risk of the vertical migration of contaminant events with a low sloping land surface. Because the wells are located in a semi-confined aquifer, the groundwater is at greatest risk from these types of contaminants specifically:

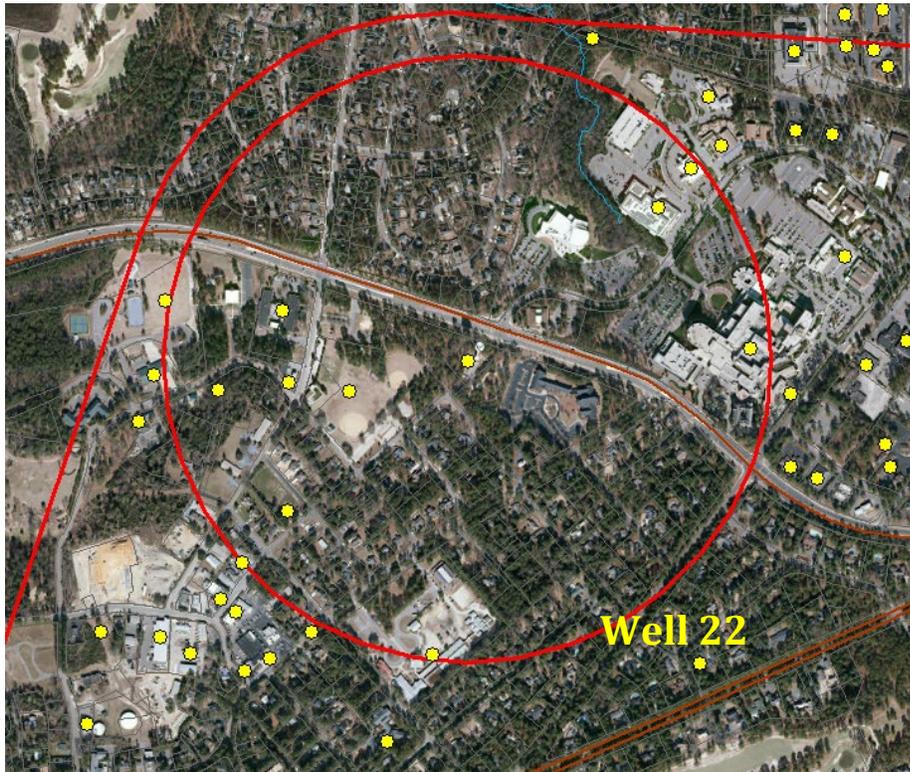
- Improper application or storage of pesticides, herbicides, and fertilizers,
- Long-term leaking underground or above ground storage tanks,
- Existing groundwater pollution incidents,
- Sudden, large volume surface releases

Vulnerability Assessment

Based upon the risk assessment above, the land area of golf courses, and the potential contaminant sources that fall within the contribution area outside of the delineated WHPAs, the following vulnerability assessment was derived for MCPU-Pinehurst public drinking water supply wells. The following wells are considered most vulnerable to contamination.

1. Well # 22 – 200 Short Rd. – Risk Score: 12.24 plus seventeen (17) PCSs w/in the contribution area
2. Well # 15 – 600 Beulah Hill Road North – Risk Score: 14.32
3. Well # 9 – 10 Muster Branch Road – Risk Score – 8.01

Well # 22 –200 Short Rd. – The Wellhead Protection Planning Team agrees that Well # 22 is at the greatest risk of contamination due to the land usage in the delineated area of contribution, with this area containing more PCSs than any other WHPA. There are currently four (4) petroleum release incidents within this area, one facility with a permitted underground storage tank, two (2) facilities

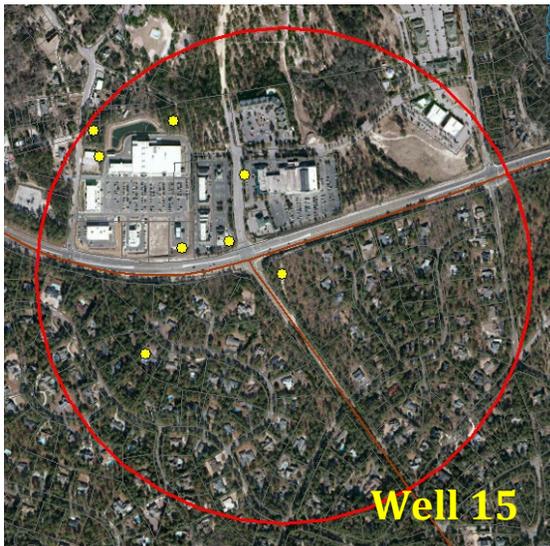


that house chemicals, one (1) AST, in addition to eight (8) pollution incidents and other potential contaminant sites that fall just outside of the delineated WHPA in the contribution area. There are numerous medical facilities and parking areas located within the delineated WHPA and contribution area to the well. With the water being withdrawn from a semi-confined aquifer, surficial and sub-surface contaminants may easily affect the quality of water. Top sites of potential concern for this WHPA are as

follows: (1) Short Stop 77 Gas Station and Pollution Incident, 200 Rattlesnake Trail (2) AST at Well 22, 200 Short Rd., and (3) Manor Care Nursing Center Pollution Incident, 205 Rattlesnake Trail.

This well is located just off of NC Hwy 211, a major transportation corridor susceptible to spillage. The majority of the land within this contribution area is developed, or built upon land, increasing the risk of contamination from stormwater runoff including oils, grease, and rubber residue from vehicles. Approximately 50% of the delineated area has a land surface slope rating of $\leq 2\%$ and approximately 30% is 2% - 5%. All other is $>5\%$.

Well # 15 – 600 Beulah Hill Rd. – The Wellhead Protection Planning Team agrees that Well # 15 has the second highest risk of contamination due to the land usage in the delineated area of contribution. In this WHPA, there are two (2) UST sites and one (1) Dry Cleaning facility within 1,000 feet of the well. Mac's Food Store 1, located at 101 Central Park Ave. is located approximately 455 feet from the well site. Database information found on the DEQ UST site does not confirm secondary containment of the USTs at this location. Jon Hasty, NC DEQ, DWM Inspections at the Fayetteville Regional Office, conducted a site inspection in October 2018 and has made McNeil Oil Company aware of the requirements of the facility and they are looking into corrective action. As of June 3, 2019, Jon Hasty reported that McNeil Oil Company is working with Jones and Frank to remove and



replace the existing system with double walled tanks and piping per state regulations. Other sites of potential contamination include two (2) pollution incidents that occurred at residential properties, one (1) public water supply well owned and operated by Taylortown, and one(1) Underground Injection Well. Top sites of potential concern for this WHPA are as follows: (1) Mac's Food Store 1, 101 Central Park Ave. (2) Harris Teeter Fuel Center # 80, 280 Ivey Lane, and (3) Olmstead Cleaners, 222 Central Park Ave.

Major transportation corridors susceptible to spillage within the area of contribution are NC Hwy 5 and NC Hwy 211. There is a great amount of developed, or built upon land, for commercial and residential use in the WHPA which increases the risk of contamination from stormwater runoff. Approximately 80% of the delineated area has a land surface slope rating of 2%-5%. All other is $>5\%$.

Well # 9 – 10 Muster Branch Rd. – The Wellhead Protection Planning Team agrees that Well # 9 is at the next highest risk of contamination due to the location of the well site in relation to land usage and types of contaminants found in the WHPA. Major concerns for this area are four (4) known pollution incidents and approximate ground coverage of 25% being golf course area within the WHPA. Top sites of potential concern for this WHPA are as follows: (1) Pinehurst Golf Course No. 2 (2) Pinehurst EDB Well – 1&9 Pollution Incident, Resorts of Pinehurst (3) Community Presbyterian Church Pollution Incident, 50 Fields Rd.

Major transportation corridors susceptible to spillage within the area of contribution are Page Rd. and NC Hwy 2. Land cover in the WHPA is mainly developed open space. Approximately 50% of the delineated area has a land surface slope rating of $\leq 2\%$ and approximately 50% has a rating of 2%-10%.



V. MANAGEMENT OF THE WELLHEAD PROTECTION AREAS

There are two methods of managing a Wellhead Protection Area, regulatory or non-regulatory. Because the Village of Pinehurst has zoning jurisdiction of the WHPAs, Moore County Public Utilities has selected a non-regulatory approach which will include the following:

Public Education

The Moore County Water Quality Supervisor has the primary responsibility for implementing the public education program. The Wellhead Protection Planning Team may be consulted as required. The [PCS Data Charts](#) list owner contact information for the identified potential contaminant sources within each WHPA for distribution of educational brochures on best management practices.

A [Wellhead Protection Brochure](#) and/or newsletter will be made available to each resident, golf course, business, agricultural operation and industry within the Wellhead Protection Areas. Copies of this brochure will be made available at Moore County Public Utilities office located at 5227 US Hwy 15-501, Carthage, NC, and other locations deemed necessary for public education on Wellhead Protection including the Village of Pinehurst office. 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 this particular system,
- An explanation of the Wellhead Protection Program,
- Source of groundwater pollution,
- Tips on protecting the 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. MCPU will encourage the Village of Pinehurst to practice the following management strategies within the WHPAs that fall within the zoning jurisdiction of the Village. The Planning Director of Moore County will form a working relationship with the Planning Director for the Village of Pinehurst to ensure that both MCPU and the Village are aware when businesses or facilities prominent to contain PCSs want to remodel/build within the WHPAs. Regulations adopted through County Ordinances supersede the following:

Waste Management Practices

The Solid Waste Division of the Public Works Department manages the County's container sites and the Moore County Landfill. Moore County currently has 7 staffed compactor sites at Cameron, Carthage, Eagle Springs, Landfill (located in Aberdeen), Midway, Robbins, and West End/Seven Lakes. The landfill site has open top containers only.

Recycling containers are provided at these sites for items such as aluminum cans, cardboard, glass, newspapers, magazines, mixed paper, plastic, white goods (washer, dryers, stoves, refrigerator, freezers) and other scrap metal. A collection site for oil and auto batteries is provided at the Carthage Site.

Eagle Springs Collection Site is open for collection of Hazardous Waste items the 1st Wednesday and 3rd Saturday of each month. Many household materials contain chemicals that can be harmful to the environment. If these materials are disposed of with ordinary trash and enter the landfill, harmful chemicals could potentially leach into the groundwater. If they are poured down the drain or flushed down a toilet, they can enter rivers, lakes, and other bodies of surface water. It is important to dispose of all household waste in a responsible manner that will not adversely affect the environment and, ultimately, public health. Educational materials for the household hazardous waste collection days, including items collected, can be found [online](#).

In addition to the above practices, the Village of Pinehurst offers weekly “One and Done” pickup of garbage, recycling, and yard debris to all property within the Village jurisdiction. This jurisdiction covers most of the property located in the Wellhead Protection Areas of the MCPU-Pinehurst system. A list of Collection Day Jurisdictions is found in the appendix. For more information on Waste Handling Practices of the Village of Pinehurst, please visit their [website](#).

MCPU 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. Also provided will be 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.

Automotive Waste

All businesses in the Wellhead Protection Area that produce auto wastes (oils, acids, antifreeze, etc.) will be provided information 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. They will also be provided information regarding the North Carolina Division of Environmental Assistance and Customer Service (DEACS). Owners/operators of these potential contamination sources will be encouraged to contact the DEACS. The 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. The DEACS serves as a central repository for waste reduction and pollution prevention information. The 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, the DEACS may be contacted at 1-877-623-6748 or to report an environmental emergency, call 1-800-858-0368. Their website is <http://portal.ncdenr.org/web/deao/>.

Personnel Training

A staff meeting will be conducted with Moore County Public Utilities employees, and other pertinent county personnel, to educate them on wellhead protection and MCPU-Pinehurst local wellhead protection program plan. Staff of the Village of Pinehurst will also be educated on the wellhead protection efforts to protect the groundwater provided to their residents. All staff will be advised to be observant, while performing their duties, for any potential contaminant incidents. They will also be provided training and education on standard operating procedures and emergency measures for dealing with contamination incidents. Personnel at facilities owned and/or operated by the MCPU and the Village of Pinehurst will be educated on steps they can take to reduce the potential for contamination (e.g. information about best management practices, standard operating procedures, waste handling practices, etc.). MCPU will also contact the DEACS to investigate steps that can be taken to reduce the amount of waste released into the air and water and on the land at county owned and/or managed facilities.

Improperly Constructed or Abandoned Wells

There are multiple privately owned and maintained wells located within the WHPAs of the MCPU-Pinehurst system. Most private wells are used for irrigation purposes. In the instance that an improperly constructed or abandoned well is discovered and identified within either of 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, MCPU will notify the Fayetteville Regional Office of NC DEQ, Division of Water Resources. During the implementation stage of the plan, the MCPU and Village of Pinehurst will meet to discuss management of Private Irrigation wells and their impact on the village water supply.

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 any WHPA will be requested to supply documentation that their facility is in compliance with said regulations. Operators of UST's will be asked to supply MCPU with a copy of their UST permit. If any UST sites are found to be non-compliant, the Underground Storage Tank (UST) Section of the Fayetteville Regional Office of the NC Division of Waste Management will be notified.

If an abandoned UST site is found, the County will contact the Fayetteville Regional Office of the NC 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 USTs. If a closure report was not submitted, the county will notify the UST Section 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 any WHPA, MCPU 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 county 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. MCPU 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. The county 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.

MCPU will notify any individual, industry, business, or government agency installing or planning to install a regulated underground storage tank within any wellhead protection area 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 Fayetteville Regional Office of the Division of Waste Management, UST 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. MCPU will request a copy of the spill plan for each UST/AST facility located within any WHPA that requires 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 Wellhead Protection Planning Team should also notify the Department of Waste Management, UST Section, if such facilities do not promptly come into compliance.

Residential, Municipal, and Industrial Wastewater Discharge

All farms, residents, businesses, and industries in any WHPA with septic tanks and home heating oil tanks will be distributed a copy of the Wellhead Protection brochure and/or newsletter and any other information MCPU can obtain from federal, county and/or state agencies on proper septic tank and heating oil tank maintenance. The County will maintain/obtain standard operating procedures for the maintenance of any wastewater collection system (including lift stations) operating in any WHPA. MCPU will also maintain/obtain annual wastewater reports from owners of municipal wastewater collection systems providing services in any WHPA. 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 NC Water Quality Collections System permit. Sanitary sewer overflow information can be obtained from the Division of Water Resources, Water Quality Permitting Section, at the Fayetteville Regional Office by calling (910) 433-3300.

The county will contact the Division of Water Resources, Water Quality Permitting Section, regarding NPDES facilities and facilities permitted to discharge wastewater to the land surface (Non-Discharge Permitted Facilities) to determine if any such operations located within any WHPA are in compliance with applicable regulatory and permit requirements pertaining to environmental protection such as routine monitoring and reporting requirements. The County does not discharge water or wastewater onto the land surface in such a way that it requires a Non-Discharge Permit. Notification will be made to the Water Quality Permitting Section 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.

Hazardous Chemical Storage

MCPU will provide information to each business, industry, and farm located within the WHPA on chemical storage practices, best management practices for handling and disposal of chemicals, and resources for the development of spill response plans. Operators/owners of potential contaminant sources which store hazardous chemicals will be encouraged to follow all OSHA regulations and standards including proper labeling of chemicals, proper chemical storage and handling practices, and maintaining records of Safety Data Sheets (SDS) for all chemicals onsite. Businesses, industries, and agricultural operations who employ staff will be encouraged to train their employees on the proper handling and disposal of all hazardous chemicals. All owners/operators of potential contaminant sites which use, store, or handle hazardous chemicals will be provided with a

contact name and number for MPCU for reporting any chemical release or spill to the ground surface or if damage is found to any sewage or drain lines or chemical storage disposal containers that could potentially cause a contamination event. In the event of any large chemical release reported, the County will contact the NC Hazardous Materials Fayetteville Regional Response Team at (910) 433-1731 or the dispatch number at (910) 433-1911.

Pesticide Handling, Application, and Disposal

MCPU will contact all facilities, golf courses, or agricultural operations within any WHPA with pesticide storage or otherwise involved with the application of pesticides to ensure that they are pesticide operators licensed by the State of North Carolina and that proper records are maintained to ensure adherence to all NC Pesticide Laws. The county 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. Moore County Cooperative Extension offers a bi-annual pesticide collection day, where nearly all pesticide products are accepted, including banned and out-dated pesticides. This event was last held on November 17, 2018. For more details on this event, contact the Moore County Cooperative Extension Office at 910-947-3188. These facilities will also be provided with information regarding the NC DEACS.

<https://moore.ces.ncsu.edu/event/1120903039/pesticide-collection/>

Animal Operations

MCPU will contact the Fayetteville Regional Office of the Division of Water Resources 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 Water Resources 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 and/or newsletter will be delivered to each animal operations facility, in addition to information on best management practices.

VI. EMERGENCY CONTINGENCY PLAN

Safe and reliable drinking water is vital to every community and emergency response planning is an essential part of managing a drinking water system. MCU-Pinehurst system's primary individual responsible for implementing contingency plans is the Public Works Director. The alternate responsibility lies with the Utilities Operations Manager. Moore County Public Utilities has adopted an Emergency Operations Plan for the Utilities Division. This Emergency Operations Plan is included in the appendix and is hereby incorporated into this plan to serve as the Emergency Contingency Plan. This plan includes details of the Emergency Planning Team, key personnel involved during emergencies from multiple divisions, contact information for staff, contractors, and regional agencies, in addition to a list of equipment and suppliers.

VII. IMPLEMENTING, MAINTAINING, AND UPDATING THE WHP PLAN

Public Participation

This plan will be available for public review at any time by visiting Moore County Public Utilities main office. MCPU will post a notice in the local newspaper explaining what a Local Wellhead Protection Program Plan is and how they can review the proposed LWPPP and make comments. Any substantive comments received from the public will be considered for inclusion into the final version of the MCPU-Pinehurst plan. An example of the Public Notification for the intended implementation of this Wellhead Protection Plan is located in the appendix.

Current PCS Site Inventory Assessment Completion

MCPU has reached out to each individual facility or owner of potential contaminant sites identified during the potential contaminant site survey. Not all facilities have completed the Site Evaluation Forms as requested. Each facility that has not yet completed a survey, prior to the submittal of the LWPPP for approval, will be contacted and engaged during the implementation stage of the plan. These sites include:

- Antex Exterminating Company, Inc.
- Pinewild Golf Course
- Resorts of Pinehurst, Inc.
- Clubhouse and Tennis Area
- Pinehurst Resort Print Shop
- Golf Course Maintenance Shop
- Pinehurst Golf Course No. 1
- Pinehurst Golf Course No. 2
- Pinehurst Golf Course No. 3
- Pinehurst Golf Course No. 4
- Pinehurst Golf Course No. 5
- Pinehurst Golf Course No. 6
- Pinehurst Golf Course No. 7

Continuous Monitoring of Potential Contaminant Sites

MCPU intends to continually monitor potential sites of contamination for any changes in activities, land use, or increased quantities in potential contaminants. During the process of the plan development, potential contamination site evaluation forms were completed for Moore County owned and operated facilities. During the implementation phase of the plan, onsite visits will be made to multiple potential contaminant sites to obtain detailed data regarding land use, potential contaminant source quantities and their specific uses in the operations of businesses and industries; specifically, owners/managers of the many golf courses in and around WHPAs. This information will be recorded on a potential contaminant site evaluation form. At this time, MCPU will provide materials and resources to educate each responsible party of ways that they can assist in protecting MCPU-Pinehurst public drinking water supply. MCPU wants to develop close relationships with each owner/operator of potential contaminant sites within the wellhead protection areas so that they feel confident in notifying us if a situation arises.

New Public Water Supply Wells

MCPU will amend its Local Wellhead Protection Program 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:

1. Develop a preliminary WHPA for the proposed well to determine the area of vulnerability.
2. Develop a contaminant source inventory for the preliminary WHPA.
3. Submit the information obtained in Steps 1 and 2 above to the Wellhead Protection Planning Team. 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.
4. If the Planning Team 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.
7. Submit finalized WHPA and contaminant source inventory to the Wellhead Protection Planning Team.
8. Once approval is received, implement any necessary regulatory and/or non-regulatory potential source management practices.
9. Submit the amended Local Wellhead Protection Program Plan and all necessary supporting information to the Public Water Supply Section for review and approval.

Future Wellhead Protection

MCPU is aware that an effective Local Wellhead Protection Program is an ongoing process requiring monitoring of the Wellhead Protection Areas and periodic review and updating of the approved plan. Therefore, the MCPU Wellhead Protection Planning Team will monitor the wellhead protection areas for any new or previously unidentified potential contaminant sources and activities occurring within the approved WHPAs. MCPU 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. MCPU will also fully update the Local Wellhead Protection Program Plan every five years or at any time a new well is constructed for use with the MCPU water supply system or a major land use change occurs within a WHPA. The individual(s) responsible for implementation of this 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 Plan resulting from an update or revision will also be submitted upon completion.

APPENDIX

- Emergency Operations Plan
- Groundwater Recharge Map
- Description of Regulatory Databases Researched for PCSs
- Potential Contamination Sources by Risk Category
- Potential Contaminant Source Maps and Data Charts
- Risk Assessment Results
- Site Evaluation Forms for Potential Contaminant Sources (Completed)
- Glossary of Acronyms and Abbreviations
- References
- NC Division of Environmental Assistance and Customer Service (DEACS) Brochure
- Educational Brochure on Wellhead Protection
- Managing Agricultural Fertilizer Application Flyer
- Gas/Service Station Best Management Practices Flyer
- Village of Pinehurst Waste Collection Jurisdiction Maps
- Public Notification Example
- Well Construction Records

Emergency Operations Plan

Moore County Public Works Emergency Operations Plan

DEPARTMENT: PUBLIC WORKS

Business Name: Moore County Public Works

Address: P.O. Box 1927 Carthage, NC 28327

Physical Address: 5227 US Hwy 15-501 Carthage, NC 28327

Telephone Number: 910-947-6315

The following person is our Primary crisis manager and will serve as the Departments spokesperson in an emergency.

Primary Emergency Contact: Randy G. Gould, PE

Telephone Number: 910-947-6315

Alternative Number: 910-947-4300 & 910-638-9287

Email: rgould@moorecountync.gov

If the person is unable to manage the crisis, the person below will succeed in management:

Secondary Emergency Contact: Chris Fuller

Telephone Number: 910-947-6315

Alternative Number: 910-947-4311 & 910-690-7472

Email: cfuller@moorecountync.gov

EMERGENCY CONTACT INFORMATION FOR MOORE COUNTY

Emergency:

Dial 9-1-1 in an emergency

Non-Emergency Police/Fire:

910-947-2911

Insurance Provider:

NCACC RISK MANAGEMENT POOLS

215 NORTH DAWSON STREET

RALEIGH, NC 27603

Report Claims to 1-877-622-2276



Moore County Public Safety
302 South McNeill St. / PO Box 905 Carthage, NC 28327
Phone: 910-947-6317 Fax: 910-947-6308

Director	Bryan Phillips	910-690-5110
Deputy Director	Scot Brooks	910-638-3964
Asst. Fire Marshal	Bryan Lyczkowski	910-992-6337
Logistics Chief	Joe Mancos	910-690-0619
Asst. Fire Marshal	Steven Barker	910-783-6154
Asst. Fire Marshal	Jerimiah Johnson	910-6389-236

Emergency Planning Team

The following people will participate in emergency planning and crisis management:

Randy Gould, Public Works Director

Leonard McBryde, County Engineer

Chris Fuller, Utility Operations Manager A-Distribution, B Well, Collections II

Robbie Baker, Maintenance Supervisor – Distribution A-Distribution, Grade IV Collections, C-Well, Cross Connection Control (ORC), Public Pesticide Operator (Ground)

Andrew McNeill, Maintenance Supervisor – Collections Grade IV Collections, C-Distribution

Brandon Brown, Maintenance Supervisor – Water Quality B-Well, A Distribution, Backflow Prevention Assembly Tester, Certified Landfill Operations Specialist

FirstName	LastName	HomePhone	WorkPhone	CellPhone	MobileProvider	HomeEmail	WorkEmail
Barrell	Andrew	910-464-2119	910-986-4978	910-638-6765	TracPhone		
Joshua	Arrington	919-718-5511		910-366-3022	Straight Talk		
Robert	Baker	910-245-4806	910-638-5217		Verizon	robbiebaker48@yahoo.com	rbaker@moirecountync.gov
Garret	Barus	910-638-4088	910-690-6443	910-638-4088	Verizon		
A. Brant	Blake	910-420-8187	910-986-0591	910-215-7802	Verizon	brantblake@live.com	
Justin	Boyd	910-947-5410	910-690-1561	910-639-1950	Verizon		lboyd@moirecountync.gov
Brandon	Brown	910-220-4084	910-639-4074	910-220-4084	Verizon		bbrown@moirecountync.gov
Jeremy	Cagle	910-639-3611	910-690-2590	910-639-3611	Verizon		
Alfredo	Calderon	910-885-2859	910-986-8998	910-885-2859	Verizon	alfredcalderon210@gmail.com	
Christopher	Donathan	910-464-1848	910-690-3979	910-986-5270	Verizon	chris.donathan@yahoo.com	
Tyler	Dunn	910-948-2969	910-947-4387	336-963-4038	Verizon	tyler.dunn77@gmail.com	
Joe	Farris	910-690-9884	910-690-6443	910-690-9884	Verizon	joefarris2012@gmail.com	
John	Floyd				Straight Talk	johnfloyd1994@gmail.com	
R. Scott	Forrest	910-464-6128	910-947-4316	910-639-2513	Verizon		rforrest@moirecountync.gov
Chris	Fuller	910-723-9338	910-947-4311	910-696-7472	Verizon	chfuller@moirecountync.gov	
Randy	Gould	910-638-9287	910-947-4300	910-639-9287	Verizon	gouldr20@gmail.com	
Daniel	Gwyn	910-245-4437	910-528-4784	910-528-4784	Verizon	dvgwyn503@gmail.com	
Jonathan	Horne	910-638-5616		910-638-5616	Verizon	jhorne1977@gmail.com	
Ryan	Hussey		910-690-6443		Verizon		
Diane	Kelly	910-215-6874	910-947-6315	571-969-0216	Verizon	hussey96@gmail.com	
Suzanne	Kennedy	336-879-2112	910-986-5028	910-215-6874	Verizon	dkelly2@moirecountync.gov	
George	Laubscher	910-245-3336		336-302-1955	Verizon	suzanne21@yahoo.com	ekennedy@moirecountync.gov
John	Lowelady		910-690-0862				
Leonard	McBryde	910-690-3448	910-947-4308	919-842-0684	Sprint	lflowelady3@gmail.com	
Kenneth	McCoy	919-776-7012	910-986-0591	910-986-4153	Verizon	leonardmcbrydeiii@gmail.com	lmcbride1@moirecountync.gov
Andrew	McNeill	336-879-2319	910-986-9118	919-499-3191	Verizon		
Brian	Marley	910-464-2804	910-947-6315	336-460-0775	Verizon		amcneill@moirecountync.gov
Linda	Matthews	910-949-2217	910-947-4306	910-690-7526	Verizon		
Mary	Minz	910-648-3903	910-947-4305	910-639-2255	Verizon	lcm413@nsw.com	
Tasha	Northcutt	910-464-3912	910-947-4302	910-690-8294	Verizon	mainminz@hotmail.com	lmatthews@moirecountync.gov
Colton	Ritter	910-948-2074	910-638-5303	910-639-9083	Verizon	tasha_240@yahoo.com	lminz@moirecountync.gov
Tony	Rouse	910-295-8350	910-986-9704	910-729-1312	US Cellular	coltonr11@gmail.com	lnorthcutt@moirecountync.gov
Suzanne	Runger	910-850-2440	910-947-6315		Verizon		trouse@moirecountync.gov
Rebecca	Saunders	910-673-0413	910-947-4301	910-850-2140	Verizon	stueunger112@gmail.com	rsaunders@moirecountync.gov
Joey	Sheffield	910-783-8101	910-690-1562	910-603-6014	Straight Talk	beckysaunders1965@gmail.com	jsaunders@moirecountync.gov
Megan	Skjellerup	910-464-1010	910-947-4309	910-783-8101	US Cellular	joeyskjellerup@gmail.com	
Dean	Thomas	910-673-7603	910-690-2590	910-638-0516	Straight Talk	meganskjellerup@gmail.com	mskjellerup@moirecountync.gov
Eric	West			910-639-4627	Verizon	thomas.dean65@yahoo.com	
Buddy	Yeagain	910-464-5584		910-885-5327	Verizon	ericwestnc28@yahoo.com	
				910-690-7584	Straight Talk		

The following is a list of our critical operations employees and their Certifications:

Employee Name	CERTIFICATIONS:	Wastewater	Wastewater Biological	Water	Meter Technician	Cross Connection	Backflow Prevention	Public Pesticide	Landfill Operations
Darrell Andrew	Distribution	Grade II							
Robbie Baker	A-Distribution	Grade IV		C-Well		ORC	Tester/Repair	Ground	
Garret Barus	A-Distribution								
A. Brant Blake	B-Distribution	Grade I							
Justin Boyd	A-Distribution	Grade I							
Brandon Brown	B-Distribution	Grade I		B-Well			Tester		Specialist
Jeremy Cagle	A-Distribution								
Alfredo Calderon	C-Distribution						Tester/Repair		
Chris Domathan	C-Distribution								
Tyler Dunn	B-Distribution	Grade I							
Joe Farris	A-Distribution	Grade I							
John Floyd		Grade II							
R. Scott Forrest	A-Distribution								
Chris Fuller	A-Distribution	Grade II			X				
Daniel Gwyn	C-Distribution	Grade IV		B-Well					
Jon Horne	C-Distribution	Grade IV			X				
E. Suzanne Kennedy	C-Distribution			C-Well					
George Laubscher		Grade IV			X	ORC	Tester		
John Lovelady									
Leonard McBryde	A-Distribution	Grade I		C-Well					
Ken McCoy	A-Distribution	Grade I		B-Well					
Andrew McNeill	C-Distribution	Grade IV							
Mary Munz	C-Distribution	Grade I							
Colton Ritter	C-Distribution								
Tony Rouse	A-Distribution	Grade II							
Joey Sheffield		Grade IV	Grade I	A-Well			Tester		
Megan Skjellerup	B-Distribution	Grade I							
Dean Thomas	C-Distribution				X				
T. Eric West		Grade II							
Buddy Yeargin	C-Distribution	Grade II		B-Well	X				

12/22/2017

SECTION 5: HAZARD PROFILES

TABLE 5.2 SUMMARY OF IDENTIFIED HAZARD EVENTS IN THE CAPE FEAR REGION

Jurisdiction	Atmospheric					Geologic		Hydrologic			Other					
	Drought	Extreme Heat	Hailstorm	Hurricane and Tropical Storm	Lightning	Thunderstorm	Tornado	Winter Storm	Earthquake	Landslide	Dam and Levee Failure	Erosion	Flood	HAZMAT	Wildfire	Nuclear
Chatham County																
Goldston	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pittsboro	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Siler City	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Unincorporated Area	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Harnett County																
Angier	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Coats	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Dunn	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Erwin	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lillington	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Unincorporated Area	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Johnston County																
Archer Lodge	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Benson	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Clayton	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Four Oaks	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kenly	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Micro	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pine Level	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Princeton	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Selma	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Smithfield	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wilson's Mills	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Unincorporated Area	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Lee County																
Broadway	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sanford	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Unincorporated Area	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Moore County																
Aberdeen	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cameron	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cartage	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Foxfire Village	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pinebluff	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Pinehurst	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Robbins	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Southern Pines	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

SECTION 5: HAZARD PROFILES

Jurisdiction	Atmospheric							Geologic		Hydrologic			Other			
	Drought	Extreme Heat	Hailstorm	Hurricane and Tropical Storm	Lightning	Thunderstorm	Tornado	Winter Storm	Earthquake	Landslide	Dam and Levee Failure	Erosion	Flood	HAZMAT	Wildfire	Nuclear
Taylorstown	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Vess	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Whispering Pines	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Unincorporated Area	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Atmospheric Hazards

5.3 DROUGHT

5.3.1 Background

Drought is a normal part of virtually all climatic regions, including areas with high and low average rainfall. Drought is the consequence of a natural reduction in the amount of precipitation expected over an extended period of time, usually a season or more in length. High temperatures, high winds, and low humidity can exacerbate drought conditions. In addition, human actions and demands for water resources can hasten drought-related impacts. Drought may also lead to more severe wildfires.

Droughts are typically classified into one of four types: 1) meteorological, 2) hydrologic, 3) agricultural, or 4) socioeconomic. Table 5.3 presents definitions for these types of drought.

TABLE 5.3 DROUGHT CLASSIFICATION DEFINITIONS

Meteorological Drought	The degree of dryness or departure of actual precipitation from an expected average or normal amount based on monthly, seasonal, or annual time scales.
Hydrologic Drought	The effects of precipitation shortfalls on stream flows and reservoir, lake, and groundwater levels.
Agricultural Drought	Soil moisture deficiencies relative to water demands of plant life, usually crops.
Socioeconomic Drought	The effect of demands for water exceeding the supply as a result of a weather-related supply shortfall.

Source: Multi-Hazard Identification and Risk Assessment: A Cornerstone of the National Mitigation Strategy, FEMA

Droughts are slow-onset hazards, but, over time, can have very damaging affects to crops, municipal water supplies, recreational uses, and wildlife. If drought conditions extend over a number of years, the direct and indirect economic impact can be significant.

The Palmer Drought Severity Index (PDSI) is based on observed drought conditions and range from -0.5 (incipient dry spell) to -4.0 (extreme drought). Evident in Figure 5.2, the Palmer Drought Severity Index Summary Map for the United States, drought affects most areas of the United States, but is less severe in the Eastern United States.

COUNTY OF MOORE

PERSONNEL POLICY



Effective Date: November 17, 2009 Revised: 7/1/2017

If available, modified duty will be provided until the employee reaches maximum medical improvement (MMI)

Upon completion of the modified duty period, medical certification must be provided to the Human Resources Department PRIOR to returning to regular duty.

In the event the County cannot provide modified duty work the employee will be placed on Workers' Compensation Leave as discussed in Section 11.

Section 13. Leave During Inclement Weather: Emergency Closing

Moore County employees can anticipate occasional periods of inclement weather each year. It is the employee's discretion to report to work at his/her assigned time and place during inclement weather and make provisions for safe travel to and from work. It is the employee's responsibility to advise his/her supervisor of his/her decision to not report to work. In extreme cases, the County Manager or his or her designee, in the interest of employee safety and welfare, may close the County offices or shorten the hours of operation to cope with the weather situation. In this situation, non-essential personnel are not to report to work. The County Manager, at his discretion may open county government for employee's only. If this is the case, employees are expected to use discretion in reporting to work. Non-essential employees choosing to not report to work may utilize vacation leave or compensatory time. When closure or delayed opening is necessary for a department, or for a particular division/unit of a department, the Department Director shall obtain the approval of the County Manager or his/her designee. Announcements of closing or curtailing hours of operation will be made through automated telephonic announcement, email notification and/or the local media.

Employees of 24 hour per day operations are required to remain on duty until relieved by employees of the next scheduled shift. Employees in positions classified as Essential Positions are expected to report to work when contacted by County Officials and/or remain at work until released by County Officials.

Non-essential employees who are absent from work due to inclement weather or other emergencies will be required to take leave only for those hours the department is officially open during their work schedule.

An employee will be considered for Administrative Leave, during an inclement weather event if he/she:

- 13.A. Is scheduled to work on the day in which inclement weather alters the County offices standard work day AND
- 13.B. Is scheduled for actual hours in which offices are closed.

At no time will the use of Administrative Leave result in the employee being paid for more hours than his/her regular work day.

Administrative Leave may be granted by the County Manager to employees in Essential Positions if they are unable to report for their regular scheduled shift due to legitimate environmental conditions that preclude them from traveling to the worksite.

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NON-INCLUSIVE EXAMPLES

Event	Employee	Non-Exempt	Exempt
Late Opening	Elects not to report	Must use Vacation Leave for those hours the department is officially open during his/her work schedule	Must use Vacation Leave for those hours the department is officially open during his/her work schedule
Late Opening	Reports to work	Paid for actual time worked plus Administrative Leave to equal standard work day	Receives full day pay
Late Opening	Reports later than announced opening	Paid for actual time worked and Administrative Leave for hours closed and must use annual leave to equal standard work day	Receives full day pay
Late Opening	Is scheduled for annual (vacation) or sick leave	Uses Vacation or Sick Leave for those hours the department is officially open during his/her work schedule for unless on FMLA	Uses Vacation or Sick Leave for those hours the department is officially open during his/her work schedule for unless on FMLA
County Offices Closed	Is scheduled to work	Awarded Admin Leave for the day	Awarded Admin Leave for the day
County Offices Closed	Is scheduled for annual or sick leave	Awarded Admin Leave for the day	Awarded Admin Leave for the day
Early Closing	Elects not to report	Must use Vacation Leave for those hours the department is officially open during his/her work schedule	Must use Vacation Leave for those hours the department is officially open during his/her work schedule.
Early Closing	Reports to Work	Paid for actual time worked plus Admin Leave to equal standard work day	Receives full day pay
Early Closing	Leaves work earlier	Paid for actual time worked and Admin Leave and must use annual leave to equal standard work day	Receives full day pay
Early Closing	Is scheduled for Vacation or Sick leave	Uses Vacation or Sick Leave for those hours the department is officially open during his/her work schedule unless on FMLA	Uses Vacation or Sick Leave for those hours the department is officially open during his/her work schedule unless on FMLA

We Plan to Coordinate with Others:

Please see below NC Statewide Emergency Management Mutual Aid & Assistance Agreement

**NORTH CAROLINA STATEWIDE EMERGENCY
MANAGEMENT MUTUAL AID AND ASSISTANCE
AGREEMENT**

Revision – August 2015

THIS AGREEMENT IS ENTERED INTO BETWEEN THE NORTH CAROLINA DEPARTMENT OF PUBLIC SAFETY, AND ITS DIVISION OF EMERGENCY MANAGEMENT OF THE STATE OF NORTH CAROLINA AND BY EACH OF THE ENTITIES THAT EXECUTES AND ADOPTS THE UNDERSTANDINGS, COMMITMENTS, TERMS, AND CONDITIONS CONTAINED HEREIN:

WHEREAS, the State of North Carolina is geographically vulnerable to a variety of natural disasters;

WHEREAS, Chapter 166A of the North Carolina General Statutes, entitled the North Carolina Emergency Management Act, recognizes this vulnerability and provides that its intended purposes are to:

- (1) Reduce vulnerability of people and property of this State to damage, injury, and loss of life and property;
- (2) Prepare for prompt and efficient rescue, care, and treatment of threatened or affected persons;
- (3) Provide for the rapid and orderly rehabilitation of persons and restoration of property; and
- (4) Provide for cooperation and coordination of activities relating to emergency and disaster mitigation, preparedness, response, and recovery;

WHEREAS, in addition to the State, the Federal Emergency Management Agency (FEMA) has recognized the importance of the concept of coordination between the State and local governments;

WHEREAS, under Chapter 166A and other chapters of the North Carolina General Statutes, entities entering into mutual aid and assistance agreements may include provisions for the furnishing and exchanging of supplies, equipment, facilities, personnel and services; and

WHEREAS, the entities which have chosen to become signatories to this Agreement wish to provide mutual aid and assistance amongst one another at the appropriate times;

THEREFORE, pursuant to G.S. 166A-19.72, these entities agree to enter into this Agreement for reciprocal emergency management aid and assistance, with this Agreement embodying the understandings, commitments, terms, and conditions for said aid and assistance, as follows:

other entities in mutual aid and assistance efforts and to enter into such agreements accordingly. Concomitantly, the parties fully recognize that there is a highly meritorious reason for entering into this Agreement, and accordingly shall attempt to render assistance in accordance with the terms of this Agreement to the fullest extent possible.

Pursuant to G.S. 166A-19.60 and as elaborated upon in Section X of this Agreement, all functions and activities performed under this Agreement are hereby declared to be governmental functions. Functions and activities performed under this Agreement are carried out for the benefit of the general public and not for the benefit of any specific individual or individuals. Accordingly, this Agreement shall not be construed as or deemed to be an Agreement for the benefit of any third parties or persons and no third parties or persons shall have any right of action under this Agreement for any cause whatsoever. All immunities provided by law shall be fully applicable as elaborated upon in Section X of this Agreement.

Section III. PROCEDURES FOR REQUESTING ASSISTANCE

Mutual aid and assistance shall not be requested unless the resources available within the stricken area are deemed inadequate by Recipient. When Recipient becomes affected by a emergency and deems its resources inadequate, it may request mutual aid and assistance by communicating the request to Provider, indicating the request is made pursuant to this Agreement. The request shall be followed as soon as practicable by a written confirmation of that request, including the transmission of a proclamation of local state of emergency under G.S. 166A-19.22, and a completed form describing recipient's projected needs in light of the emergency. All requests for mutual aid and assistance shall be transmitted by the party's *Authorized Representative* or to the *Coordinator of the Local Agency* as set forth below.

A. METHOD OF REQUEST FOR MUTUAL AID AND ASSISTANCE: Recipient shall set forth requests as follows:

(i) **REQUESTS ROUTED THROUGH THE RECIPIENT'S LOCAL AGENCY:** Recipient may directly contact the Local Agency, in which case it shall provide the Local Agency with the information in paragraph B of this Section (Section III). The Local Agency shall then contact other parties on behalf of Recipient to coordinate the provision of mutual aid and assistance. Recipient shall be responsible for the costs and expenses incurred by any Provider in providing aid and assistance pursuant to Section VII of this Agreement.

(ii) **REQUESTS MADE DIRECTLY TO PROVIDER:** Recipient may directly contact Provider's authorized representative, setting forth the information in paragraph B of this Section (Section III). All communications shall be conducted directly between Recipient and Provider. Recipient shall be responsible for the costs and expenses incurred by any Provider in providing aid and assistance pursuant to the provisions of this Agreement as noted in Section VII of this Agreement. Provider and Recipient shall be responsible for keeping Local Agencies advised of the status of response activities, in a timely manner.

(iii) **RECORD OF REQUESTS TO BE PROVIDED:** A record of the request for assistance shall be provided by the Recipient to the Director of the Division of Emergency Management in the

assistance to be rendered (or a rejection of the request) and shall transmit it by the most efficient practical means to the Recipient/Local Agency for a final response. Provider's acknowledgment shall contain the following information:

1. In response to the items contained in the request, a description of the personnel, equipment, and other resources available;
 2. The projected length of time such personnel, equipment, and other resources will be available to serve Recipient, particularly if the period is projected to be shorter than one week (as provided in the "Length of Time for Aid and Assistance" section [Section VI] of this Agreement.)
 3. The estimated time when the assistance provided will arrive at the location designated by the Authorized Representative of the Requesting Party; and
 4. The name of the person(s) to be designated as Provider's supervisor (pursuant to the "Supervision and Control" section [Section V] of this Agreement.)
- Where a request has been submitted to the Local Agency, the Local Agency shall notify Recipient's authorized representative and forward the information from Provider. The Recipient/Local Agency shall respond to Provider's written acknowledgment by signing and returning a copy of the form to Provider by the most efficient practical means, maintaining a copy for its file.

Section V. SUPERVISION AND CONTROL

Provider shall designate one of its employees sent to render aid and assistance to Recipient as a supervisor. As soon as practicable, Recipient shall assign work tasks to Provider's supervisor, and unless specifically instructed otherwise, Recipient shall have the responsibility for coordinating communications between Provider's supervisor and Recipient. Recipient shall provide necessary credentials to Provider's personnel authorizing them to operate on behalf of Recipient.

Based upon such assignments from the Recipient, Provider's supervisor shall:

- (1) have the authority to assign work and establish work schedules for Provider's personnel. Further, supervisor shall retain direct supervision and control of Provider's personnel, equipment, and other resources. Provider should be prepared to furnish communications equipment sufficient to maintain communications among its respective operating units, and if this is not possible, Provider shall notify Recipient accordingly;
- (2) maintain daily personnel time records, material records, and a log of equipment hours;
- (3) report work progress to Recipient at mutually agreed upon intervals.

Section VI. LENGTH OF TIME FOR AID AND ASSISTANCE; RENEWABILITY; RECALL

Unless otherwise provided, the duration of Provider's assistance shall be for an initial period of

Recipient will not be responsible for costs where such damage is caused by gross negligence, willful and wanton misconduct, intentional misuse, or recklessness of Provider's personnel. Provider's personnel shall use reasonable care under the circumstances in the operation and control of all materials and supplies used during the period of assistance. The measure of reimbursement shall be determined in accordance with 44 C.F.R. 206.228. In the alternative, the parties may agree that Recipient will replace, with like kind and quality as determined by Provider, Provider's materials and supplies used or damaged in a reasonable time. If such an agreement is made, it shall be reduced to writing and transmitted to the North Carolina Division of Emergency Management.

D. Record Keeping-- Recipient and North Carolina Division of Emergency Management personnel shall provide information, directions, and assistance for record-keeping to Provider's personnel. Provider shall maintain records and submit invoices for reimbursement by Recipient or the North Carolina Division of Emergency Management using the format used or required by FEMA publications, including 44 C.F.R. part 13 and applicable Office of Management and Budget (OMB) Circulars.

E. Payment; Other Miscellaneous Matters as to Reimbursements-- The reimbursable costs and expenses with an itemized notice shall be forwarded as soon as practicable after the costs and expenses are incurred, but not later than sixty (60) days following the period of assistance, unless the deadline for identifying damage is extended in accordance with 44 C.F.R. part 206. Recipient shall pay the bill or advise of any disputed items, not later than sixty (60) days following the billing date. These time frames may be modified in writing signed by both parties by mutual agreement. This shall not preclude Provider or Recipient from assuming or donating, in whole or in part, the costs and expenses associated with any loss, damage, or use of personnel, equipment, and resources provided to Recipient.

Section VIII. RIGHTS AND PRIVILEGES OF PROVIDER'S EMPLOYEES

Pursuant to G.S. 166A-19.60 whenever Provider's employees are rendering aid and assistance pursuant to this Agreement, such employees shall retain the same powers, duties, immunities, and privileges they would ordinarily possess if performing their duties within the geographical limits of Provider.

Section IX. PROVIDER'S EMPLOYEES COVERED AT ALL TIMES BY PROVIDER'S WORKERS' COMPENSATION POLICY

Recipient shall not be responsible for reimbursing any amounts paid or due as benefits to Provider's employees under the terms of the North Carolina Workers' Compensation Act, Chapter 97 of the General Statutes, due to personal injury or death occurring during the period of time such employees are engaged in the rendering of aid and assistance under this Agreement. It is mutually understood that Recipient and Provider shall be responsible for payment of such workers' compensation benefits only to their own respective employees. Further, it is mutually understood that Provider will be entirely responsible for the payment of workers' compensation benefits to its own respective employees pursuant to G.S. 97-51.

Section XIV. INITIAL DURATION OF AGREEMENT; RENEWAL; TERMINATION

This Agreement shall be binding for not less than one (1) year from its effective date, unless terminated upon at least sixty (60) days advance written notice by a party as set forth below. Thereafter, this Agreement shall continue to be binding upon the parties in subsequent years, unless canceled by written notification served personally or by registered mail upon the Director of North Carolina Division of Emergency Management, which shall provide copies to all other parties. The withdrawal shall not be effective until sixty (60) days after notice thereof has been sent by the Director of the North Carolina Division of Emergency Management to all other parties. A party's withdrawal from this Agreement shall not affect a party's reimbursement obligations or any other liability or obligation under the terms of this Agreement incurred prior to withdrawal hereunder. Once the withdrawal is effective, the withdrawing entity shall no longer be a party to this Agreement, but this Agreement shall continue to exist among the remaining parties.

Section XV. HEADINGS

The headings of various sections and subsections of this Agreement have been inserted for convenient reference only and shall not be construed as modifying, amending, or affecting in any way the express terms and provisions of this Agreement.

Section XVI. SEVERABILITY: EFFECT ON OTHER AGREEMENTS

Should any clause, sentence, provision, paragraph, or other part of this Agreement be adjudged by any court of competent jurisdiction to be invalid, such judgment shall not affect, impair, or invalidate the remainder of this Agreement. Each of the parties declares that it would have entered into this Agreement irrespective of the fact that any one or more of this Agreement's clauses, sentences, provisions, paragraphs, or other parts have been so declared invalid. Accordingly, it is the intention of the parties that the remaining portions of this Agreement shall remain in full force and effect without regard to the clause(s), sentence(s), provision(s), paragraph(s), or other part(s) invalidated.

In the event that parties to this Agreement have entered into other mutual aid and assistance contracts, for example pursuant to Chapter 160A of the North Carolina General Statutes, those parties agree that to the extent a request for mutual assistance is made pursuant to this Agreement, those other mutual aid and assistance contracts are superseded by this Agreement.

Section XVII. EFFECTIVE DATE

This Agreement shall take effect upon its approval by the entity seeking to become a signatory to this Agreement and upon proper execution hereof.

IN WITNESS WHEREOF, each of the parties have caused this North Carolina Statewide Emergency Management Mutual Aid and Assistance Agreement to be duly executed in its name and behalf by its Chief Executive Officer, who has signed accordingly with seals affixed and attested with concurrence of a majority of its governing board, as of the date set forth in this Agreement.

N.C. STATEWIDE MUTUAL AID AND ASSISTANCE AGREEMENT

List of Authorized Representatives to Contact for Emergency Assistance

Name of Unit:

County of Moore

And Mailing Address:

P.O. Box 905

Carthage, NC 28327

Date: 19 July 2016

I. PRIMARY REPRESENTATIVE:

Name: D. Bryan Phillips

Title: Director Public Safety

Day Phone: (910)947-6317

Night Phone: (910) 947-2911

Fax: (910) 947-6378

Cell Phone: (910)690-5110

II. FIRST ALTERNATE REPRESENTATIVE:

Name: D. Scot Brooks

Title: Deputy Director

Day Phone: (910)947-6317 Night Phone: (910) 947-2911

Fax: 910) 947-6378 Cell Phone: (910)638-3964

III. SECOND ALTERNATE REPRESENTATIVE:

Name: J. Wayne Vest

Title: County Manager

Day Phone: (910) 947-6363

Night Phone: (910) 947-2911

Fax: (910) 947-1874

Cell Phone: ()

EMERGENCY OPERATIONS PLAN
 MOORE COUNTY PUBLIC UTILITIES
 November, 2017

	Contact	Phone		Pipeline	Line Stops	CCTV	Rentals	Generators	Pump	Vac Truck	Electrical/Controls	Lab Analysis	Paving
		Office	Mobile										
CONTRACTORS													
Atkinson Infrastructure	Ron Atkins	910-245-4438	910-639-4600	X									
Hydrostructures	Mark Barnett	919-542-5002	910-690-0310			X							
	Jason McNeill	919-542-5002	910-690-2834										
McFadden Homes	Bruce McFaden	910-295-5709	910-690-5048										
	Kenny Ring		910-695-8288										
Porter's SS Cleaning Co.	Brian Locklear	910-521-0549	910-734-4418						X				
Power Distribution	Will Dodds		919-302-7239										
	Chris Dodds		910-551-8021										
Ritchie Construction Co	Dennis Herrin	704-436-6313	704-791-3348		X								
Sandhills Utilitties	Ronnie Turner	910-775-3828	919-770-7390	X									
	Robert Fulton	910-775-3828	919-353-0548										
Sanford Contractors	Scotty	919-775-7882	919-708-8344	X									
	Bret	919-775-7882	919-770-0704										
Sanford Electric	Jeremiah	919-356-9628	919-356-9628										
	George	919-356-9628	919-708-2102										
SKC	Steve Williamson	336-873-9494	336-465-9600										
	Kelly	336-873-9494	336-465-9601	X									
CR Underwood		800-729-2463						X					
	Tom Miller	919-770-2033						X					
Utility Services	Scotty Wilkins	866-919-3471	336-210-9251										
SUPPLIERS													
Carolina Water Systems		336-622-6969		X									
City Electric		910-692-3516								X			
Cruco Inc		919-777-9807		X									
Environmental Chemists		910-392-0223									X		
Fortiline Supply		803-309-3286		X									
Fortiline Supply		844-792-7473		X									
Grace Paving	Terry Patterson	910-783-4833										X	
Hughes Supply		910-295-5541		X									
Miller Supply		800-334-6954		X									
Pipeline Supply		800-274-3226		X									
Raleigh Winwater		919-367-9012		X									
Sandhill Electric		910-944-5055								X			
CR Underwood		800-729-2463						X					
Water Works Supply		877-485-2221		X									
EQUIPMENT													
Atlantic Power Solutions		919-837-2959					X						
Aqua Tec - Graham Couch		800-522-4469	803-669-0790						X				
Belk Supply		910-692-2715											
Central Security	Jeff Adams	910-692-2871	910-639-0600							X			
Cummins Atlantic		336-275-4531					X						
Electrical Equipment Company	Curtis Hales	910-276-2141	910-276-2251										

County Owned Equipment List

(Located at 5227 Hwy. 15-501 Carthage, NC 28327 unless otherwise specified)

1. Two (2) Vac Con Jet Vac Trucks
2. Trailer Jetter
3. Power Rodder – *located at Pinehurst Yard*
4. Two (2) Case Loader Backhoes – *located at Pinehurst Yard*
5. John Deere Loader Backhoe - *located at Pinehurst Yard*
6. New Holland Loader Backhoe - *located at Pinehurst Yard*
7. Two (2) Gas Monitors – *located in warehouse*
8. Three (3) Dump trucks and trailers - *located at Pinehurst Yard*
9. Service Line Video Camera
10. Two (2) Air compressors on trailers - *located at Pinehurst Yard*
11. Two (2) 40 KW Generators on trailers
12. Three (3) 65 KW Generators on trailers – *One (1) located at PW-1*
13. One (1) 25 KW Generator on trailer - *located at Pinehurst Yard*
14. Six (6) Pipe saws – *located on various trucks*
15. One (1) 5 KW Generator Light on trailer
16. One (1) 12,000 LBS Crane Truck w/welder/Gen. & Air Compressor
17. Five (5) Service Trucks
18. Two (2) Hand Rodders - *located at Pinehurst Yard*
19. One (1) Godwin Pump for Pump around set up & 800' of 6" hose - *located at Pinehurst Yard*
20. One (1) Manhole Smoke testing unit
21. Two (2) Mud Pumps
22. One (1) 300 GPM Pump
23. One (1) Welder Machine, Oxygen & Acetylene Torches
24. Sewer Easement Machine 500' of hose - *located at Carthage Yard*
25. One (1) HVRCO Valve & Vacuum with hydraulic unit
26. Main Line Sewer Camera trailer mounted
27. 8" High Head Thompson Pump trailer mounted – *located at LS 3-4*
28. Vermeer Wood Chipper - *located at Pinehurst Yard*
29. Bobcat Mini Excavator with hydraulic thumb - *located at Pinehurst Yard*
30. Equipment Trailer with various repair parts & 5500 W generator - *located at Pinehurst Yard*
31. Two (2) John Deere 4x4 Tractors with loader/forks/bush hog - *located at Pinehurst Yard*
32. Eight (8) Chainsaws – *at least one on each crew truck*
33. One (1) Gasoline Powered Diamond Blade Pipe chainsaw
34. One (1) 4" 500 GPM Portable pump
35. One (1) 2" Godwin Pump with 50' Discharge hose
36. One (1) Wacker Roller Tamp
37. Four (4) 1½" 12 Volt Sump Pumps – *located on service trucks*
38. One (1) Argo Centaur 8x8 Amphibious Vehicle
39. Three (3) Inflatable lights and generators
40. One (1) Hydraulic Pipe Saw with Hydraulic Power Unit

WATER QUALITY PRE-EMERGENCY CHECK LIST

	Conduct preventive maintenance on generators and other essential equipment. Complete trial testing of generators at all locations.
	Check and fill up all vehicles with fuel before leaving. Map out alternate routes for travel in case of unexpected delays.
	Check all Well Houses for damage before event and note any damages prior to event
	Check wells to make sure they are running efficient prior to an event
	Check Chemical tanks in wells for any faults and note any findings
	Check for leaks in all the wells and note any findings
	Make sure SCADA is working properly and everything is showing in the system
	Check all the elevated storage tanks for leaks, structural faults and make note
	Make sure there is an inventory of flashlights and batteries (all sizes and types). Insure that portable gasoline cans, rope, tire chains, towing chains, shovels, sand and booster cables are on-site and easily located.
	Check First aid kits to make sure they are easily accessible and stocked
	Make sure to have extra clothing such as gloves, hats and boots

(Insert Wells, Booster Pump Stations and Tanks list with addresses)

PINEHURST WELLS	Location	Horse Power (Hp)	Phase (Ø)	Voltage (V)	GPM	Generator	Electric Account
2A	175 McKenzie Road West (Claxton Property)	5			105		271 019 0600
5A	Near 5 Muster Branch Road				195		514 232 4507
7	3 Brookhaven Road	5		240	155		462 574 4778
9	10 Muster Branch Road (#6 hole, #2 Course)				130		354 562 3506
10	Hilliard Rd. (Midland Rd. /Airport Rd. at traffic Circle)				140		433 092 2115
11	605 Monticello Drive				85		203 523 4224
12	End of Diamondhead South next to Lot #312				170		441 129 9441
13	Forest lane - Lots 90-91				115		883 244 4221
15	Intersection of Beulah Hill Road and NC Hwy 211				96		844 240 1454
16	Diamondhead Drive S. Lots 1 & 2				135		771 359 9004
17	Intersection of Sakonnet Trail & Kahkwa Trail	2		240	50		225 786 6885
18	Idlewild Road Lots #441 & 442				90		753 035 5556
19	831 Linden Rd. (Off Linden Rd. near Pinewild Gate)				130	Model 1644200100	358 611 4260
20	10 Talladale Court				120		827 344 4110
21	345 Foxfire Road	20	3	208	100		255 670 4027
22	200 Short Road				115	Model DGHDP-5880214	715 454 0723
23	675 Monticello Drive				66	Model 50RE0ZID	866 188 2541
BOOSTER							
PUMP STATIONS							
	211 - Pump 1						
	211 - Pump 2				275	Model DSHAA-5880202	149 861 9343
	Dawkins Street				305		
	Hwy. 73				781		123 427 6986
	McCaskill					Model 200RE0ZIF	87170001
	Midland Road				880	Model DSGAA-7047077	644 581 9177
	Thurflow 1 pump				675		693 567 7226
	Thurflow 2 pumps				770	Model DSHAA-7075710	660 571 3822
					602		
TANKS							
	Cannon Park Site						
	200 Short Road						
	McLean Road						136 959 8857
	Monticello						131 781 1998
	EMWD						866 188 2541
	North Tank						678 4401
	West Tank						000 995 3274
	432 Longleaf Drive						1250533278
	Ground Storage					Model 3306 PC	139 892 2441

REPORT POWER OUTAGES TO THE FOLLOWING: Progress Energy 1-800-419-6356 Power Outages 1-800-401-5401 Critical Customer Hotline
All sites report to Progress Energy with the exception of EMWD Elevated Tank @ 2985 Union Church Road which is Central EMC 1-877-766-6769 Power Outages 1-919-774-4900

DISTRIBUTION PRE-EMERGENCY CHECK LIST

	Check and fill up all vehicles with fuel before leaving. Map out alternate routes for travel in case of unexpected delays.
	Check with the Water Quality Division to see if fuel needs to be hauled to sites with generators
	Make sure there is an inventory of flashlights and batteries (all sizes and types). Insure that portable gasoline cans, rope, tire chains, towing chains, shovels, sand and booster cables are on-site and easily located.
	Conduct preventive maintenance on generators and other essential equipment. Complete trial testing of generators at all locations. Make sure chain saws are fueled and serviced.
	Check First aid kits to make sure they are easily accessible and stocked
	Make sure to have extra clothing such as gloves, hats and boots

COLLECTIONS PRE-EMERGENCY CHECK LIST

	Check and fill up all vehicles with fuel before leaving. Map out alternate routes for travel in case of unexpected delays.
	Make sure there is an inventory of flashlights and batteries (all sizes and types). Insure that portable gasoline cans, rope, tire chains, towing chains, shovels, sand and booster cables are on-site and easily located
	Conduct preventive maintenance on generators and other essential equipment. Complete trial testing of generators at all locations. Make sure all portable lights and generators will start and run properly and placed in designated locations.
	Check First aid kits to make sure they are easily accessible and stocked
	Make sure to have extra clothing such as gloves, hats and boots

SEWER LIFT STATION MONITORING

Forty of the Sanitary Sewer Lift Stations have radio based Alarm systems installed and monitored by Central Security Systems.

All Stations have an ID# for security. You must have the ID# to cancel the alarm.

<u>Lift Station</u>	<u>ID#</u>	<u>Location</u>	<u>Generator size needed</u>	<u>Fuel Type</u>
B-1	O4OEO36	8191 NC 211 Hwy	25 KW	
HF-1	O4OEO27	1 Brook Haven Road	25 KW	
LS 10-1	O4OEO04	249 Lake Forest SW	75 KW	
LS 10-2	O4OEO05	355 Burning Tree Road	100 KW	
LS 10-3	O4OEO03	60 Sugar Gum Drive	100 KW	
LS 10-4	O4OEO37	120 Sugar Gum Drive	40 KW	
LS 13-1	O4OEO01	1356 Burning Tree Road	100 KW	
LS 13-2	O4OEO02	825 Diamond Head Drive	60 KW	
LS 14-1	O4OEO08	1 Juniper Creek Blvd.	40 KW	
LS 14-2		286 B Juniper Creek Blvd.		
LS 14-3	O4OEO23	1 Pace Ct	40 KW	
LS 14-4	O4OEO20	5 Carson Way	100 KW	
LS 14-5	O4OEO21	7A Clarendon Lane	60 KW	
LS 15-1	O4OEO13	39 Lakeview Drive E	100 KW	
LS 15-2	O4OEO14	19 Lakeview Drive E	40 KW	
LS 16-1	O4OEO22	5 Lenoir Court	25 KW	
LS 16-2	O4OEO38	14 A Meyer Ct.		
LS 17-1	O4OEO25	31 Aronimink Lane	40 KW	
LS 17-2	O4OEO24	8 Scarborough Pl	40 KW	
LS 17-3	O4OEO26	20 Sakonnett Drive	40 KW	
LS 3-1	O4OEO16	11A Juniper Lane	25 KW	
LS 3-2	O4OEO17	387 Longleaf Drive W	25 KW	
LS 3-3	O4OEO15	39 Garner Lane	25 KW	
LS 3-4	O4OEO07	211 Longleaf Drive W	25 KW	
LS 4-1	O4OEO09	490 Sandhill Circle	40 KW	
LS 4-2	O4OEO11	297 Sandhill Circle	40 KW	
LS 4-3	O4OEO12	100 Sandhill Circle	40 KW	
LS 8-1	O4OEO19	10 Filly Plaza	40 KW	
LS 9-1	O4OEO41	420 Longleaf Drive E	100 KW	
MR-1	O4OEO18	2140 Midland Road	25 KW	
MR-2	O4OEO28	19 Dunvegan Ct.		
PW-1	O4OEO10	10 Stoneykirk	100 KW	
PW-2	O4OEO33	21 Lochmond Court	40 KW	
PW-3	O4OEO30	18A Kilbride	25 KW	
PW-4	O4OEO34	540 Chicken Plant Road	40 KW	
PW-5	O4OEO35	532 Chicken Plant Road	60 KW	
PW-6	O4OEO32	87A Lowick Ct.	40 KW	
PW-7	O4OEO31	50 Glasgow Drive	40 KW	
PW-8	O4OEO29	51 Kilbride Drive	40 KW	
LS V-1	O4OEO39	135 James Street		
LS V-2	O4OEO40	370 US-1		

RECOVERY PERIOD CHECKLIST

- Perform in-depth damage assessment of system to determine long-term effects of damaged areas
- Notify NCDEQ of system status and situation
- Prepare written documentation of emergency work performed for possible compensation by FEMA
- After completion of emergency repairs, rest the crews and return, if possible, to more normal work schedules
- Notify the County's Risk Management Coordinator. Provide written and photo documentation of damage
- Assist in the survey of emergency repairs and scheduling of permanent repairs
- Assist in the inventory of repair supplies and replacement stock
- When time allows complete servicing of emergency equipment (oil changes, lubrication, etc.)
- Make sure the public is kept informed throughout the extent of the emergency

RESTORATION PROCEDURES

ADMINISTRATION

Computer Network System

1. Determine if the system is functioning.
2. Contact the following to report the problems, the severity of the problem, and establish a deadline for repair and restoration of the system if possible:

Southern Software: 695-0005

Moore County IT Department: 947-6306

Telephone System

Contact the Moore County IT Department: 947-6306

Maintain contact by cellular phones until repair is complete

Electrical Power

Contact Power Companies:

Progress Energy @800-419-6356 or 888-326-3344 / Randolph Electric @ 877-736-2633
report the problem. Establish a deadline for repair and restoration of the system if possible.

Central Security System

Contact Central Security Systems, Inc. (910-692-2871) and report the problem. Establish a deadline for repair and restoration of the system if possible. Procedures for reporting a false alarm are located in Customer Service area and back building bulletin board.

HVAC System

Contact Property Management:

WATER OPERATIONS

Telemetry Well/Pump Control System (Seven Lakes, Pinehurst, Vass, Hyland Hills/Niagara)

1. Determine the part of the system that is not functioning
2. Contact Conetecs, Inc. at and report the problem, the severity of the problem, and establish a deadline for repair and restoration of the system.
3. Use timers/manual control, if necessary, to maintain elevated tank water levels until system is operational.

Telephone

1. Contact Administration to report problems with cellular phones
2. Contact appropriate telephone utility and report the problem
3. Establish a deadline for repair and restoration of the system if possible
4. Maintain contact by cellular phones until repair is complete

Electrical Power

1. Contact Power Company (Progress Energy @800-419-6356 or 888-326-3344) and report the problem. Establish a deadline for repair and restoration of the system if possible.
2. If power failure is widespread, set up generators at sites to maintain elevated tank water levels
3. Operate generator at Ground Storage to maintain elevated tank water levels
4. Use on-site generator, if available, until power can be restored

DISTRIBUTION/COLLECTIONS

Lift Stations/Booster Stations

1. Contact appropriate electric company and report power outage. Establish a deadline for repair and restoration of the system if possible.
2. Place generator on site for power supply to provide continuous operation
3. Refer to and implement Spill Response Procedures, if needed
4. Refer to spare parts inventory for repair or contact appropriate vendor for parts

Ground Storage

1. Contact appropriate electric company and report power outage. Establish a deadline for repair and restoration of the system if possible.
2. Place generator on site for power supply to provide continuous operation
3. Refer to and implement Spill Response Procedures, if needed
4. Refer to spare parts inventory for repair or contact appropriate vendor for parts

Telephone

5. Contact Administration to report problems with cellular phones
6. Contact appropriate telephone utility and report the problem
7. Establish a deadline for repair and restoration of the system if possible
8. Maintain contact by cellular phones until repair is complete

Portable Generators

1. Refer to Lift Station Requirement List
2. Ground Storage and Booster Stations require 25 KW generator

Portable Pumps and ACC

1. All pumps, with hoses and attachments, should be prepared and on standby
2. Trailers should be prepared and on standby
3. Surplus fuel and oil should be available for use

Emergency Portable Lights

1. Emergency portable lights should be serviced, tested, and ready for use
2. Spare bulbs should be available for use

Crane

1. Preventive maintenance completed, and equipment should be fueled and ready to use

PRELIMINARY DAMAGE ASSESSMENT

Moore County Public Utilities

General Overview

- Evacuate buildings in danger of collapse
- Determine need to repair, replace or abandon facilities
- Determine service availability to customers
- Evacuate buildings in danger of collapse
- Estimate cost to repair damage – Confirm that field staff does the following:
 - Closes and tags damaged facilities and property
 - Closes and tags damaged Equipment
- Report conditions to Moore County EOC @ 947-6317

Wells

- Check for physical damage to facilities and property
- Test for contamination
- Check for pump or motor failure
- Check for power source

Tanks

- Check for evidence of failure of subbase
- Check for Leaks Cracks Broken inlet/outlet pipes, underdrains
- Check for buckling

Distribution/Collection Systems

Check for Leaks Breaks Pressure loss in lines

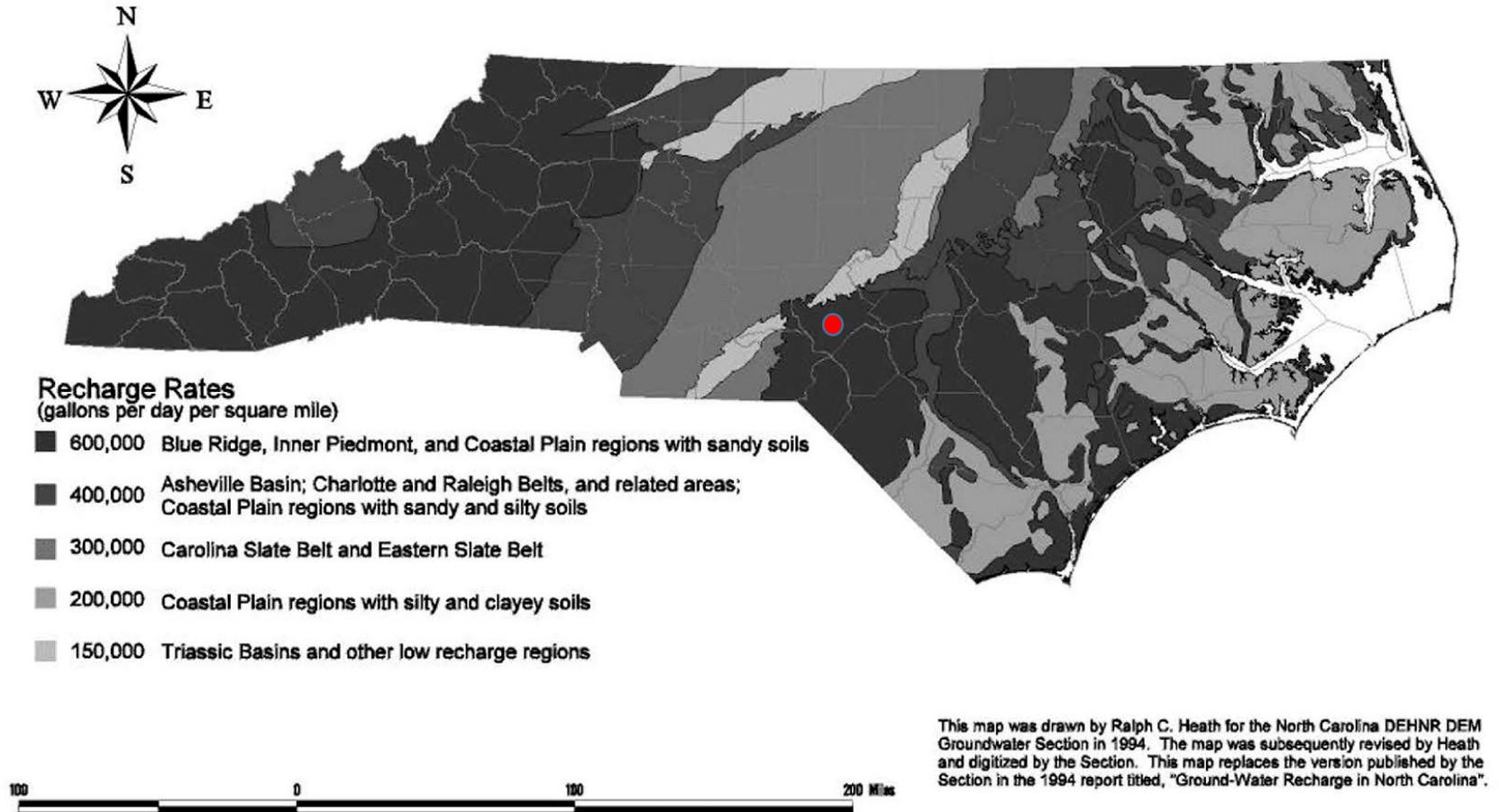
Cross-Connection between water & sewage Overflows in streets

Test for contamination

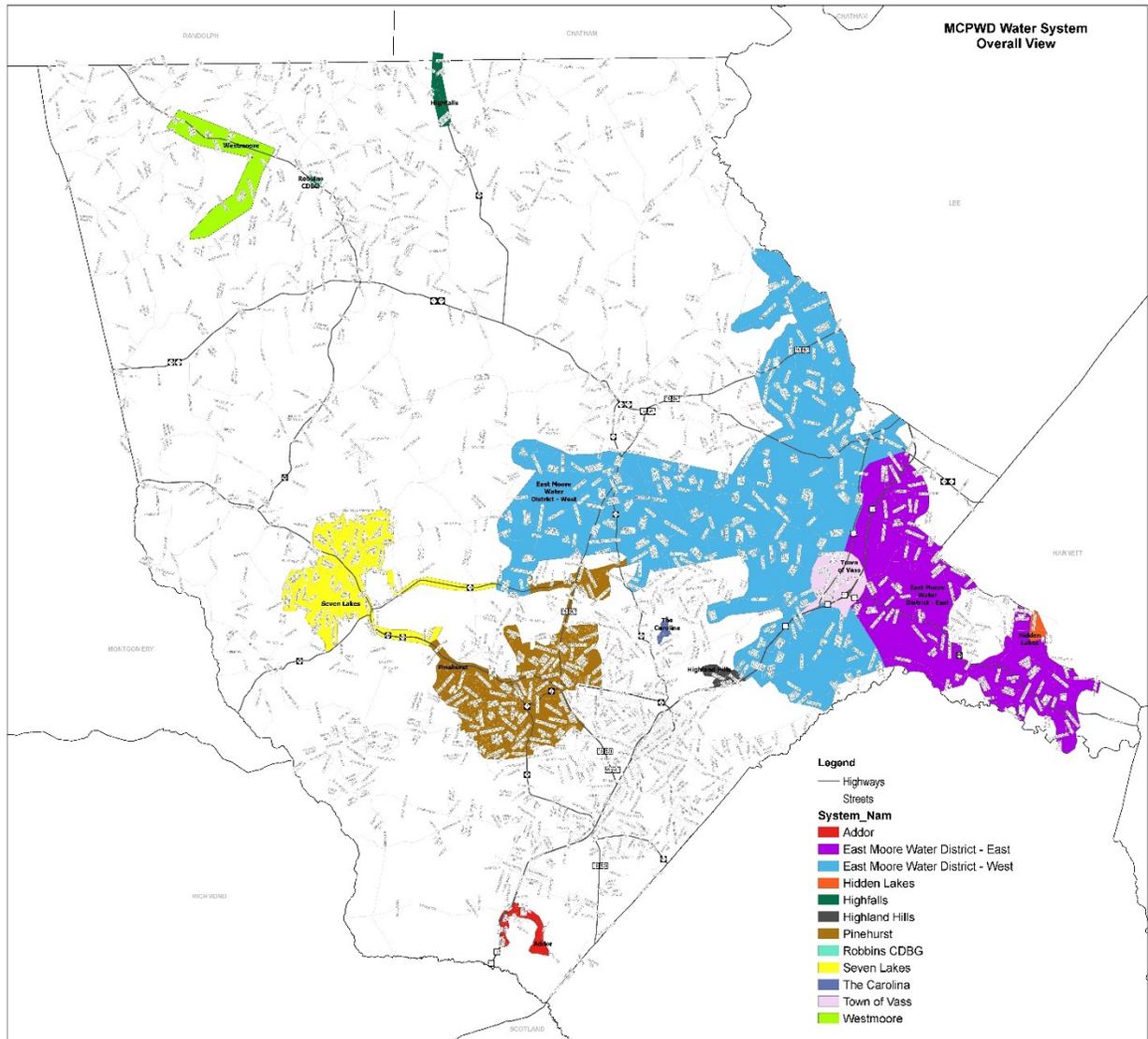
Check mechanical couplings

Groundwater Recharge Map

North Carolina Groundwater Recharge Rates



Moore County Public Works Water System Overview Map



Moore County GIS Department
 Created by Moore County GIS
 09/10/2017

Moore County GIS
 1000 North Salisbury Street
 Moore, NC 27158
 704.765.4300
 www.moorecountync.gov



Moore County Pressure Zones

0 1.5 3 6 Miles

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 the 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 the EPA believes warrant further investigation; and serving notice to potentially responsible parties that the 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-permits/wastewater-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.

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
- *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
- Home manufacturing
- Junk/scrap/salvage yards
- Machine shops
- Metal plating/finishing/fabricating
- Mines/sand or gravel excavations
- Parking lots/malls (>50 spaces)
- Photo processing/printing
- Plastics/synthetics producers
- Research laboratories

OTHER

- 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 yards/maintenance/fueling areas
- Landfills/dumps
- Utility stations - maintenance areas
- *Septic systems - high density (>1/acre)
- *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.
 2. Higher risk potential contaminant sources are considered to have a higher potential for drinking water contamination than those designated moderate risk or lower risk Facility-specific 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

- 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

- Office buildings/complexes
- RV/mini storage

AGRICULTURAL/RURAL

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

RESIDENTIAL/MUNICIPAL

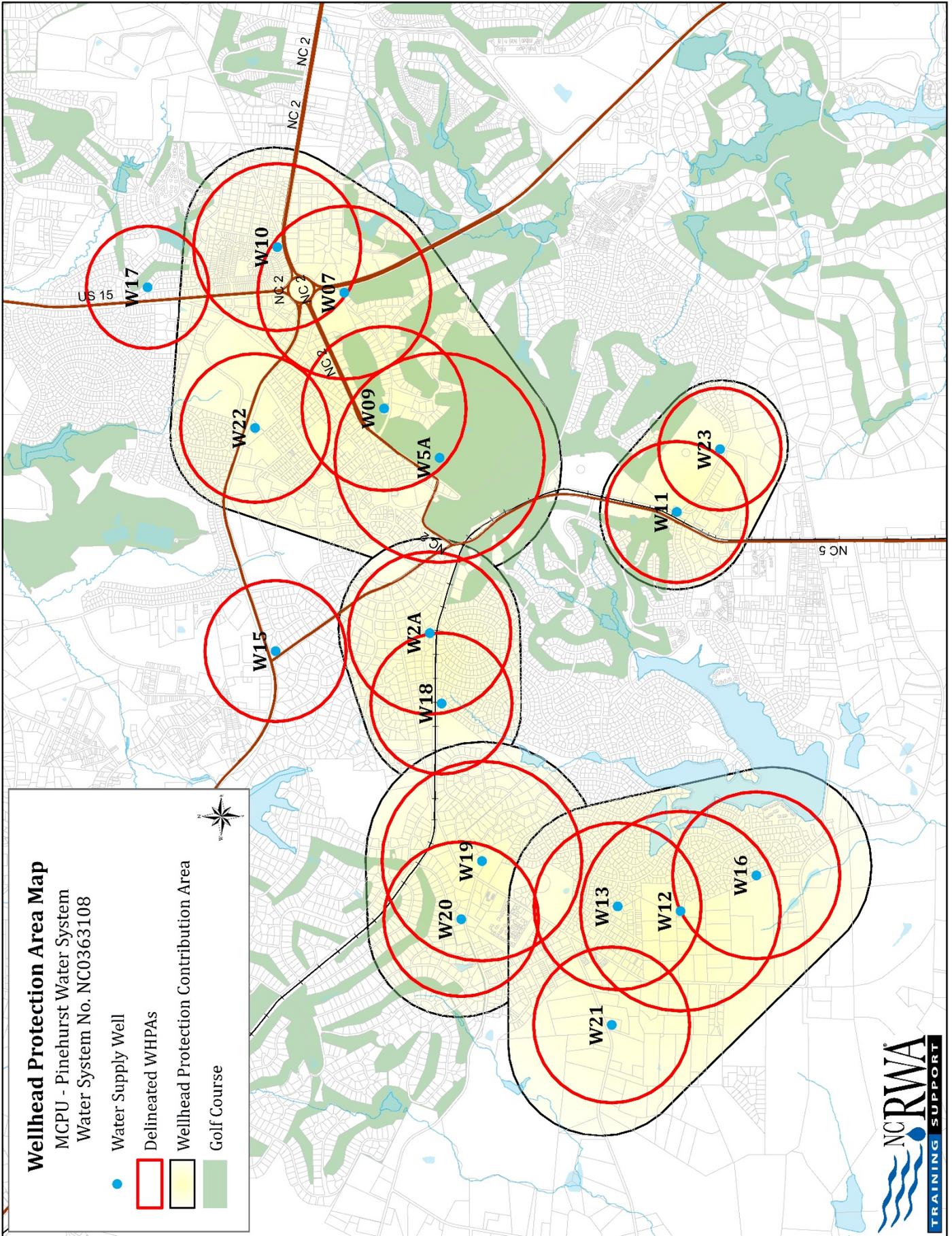
- Apartments and condominiums
- Campgrounds/RV parks
- Fire stations
- Schools
- Housing – low density (< 1 house/.5 acres)

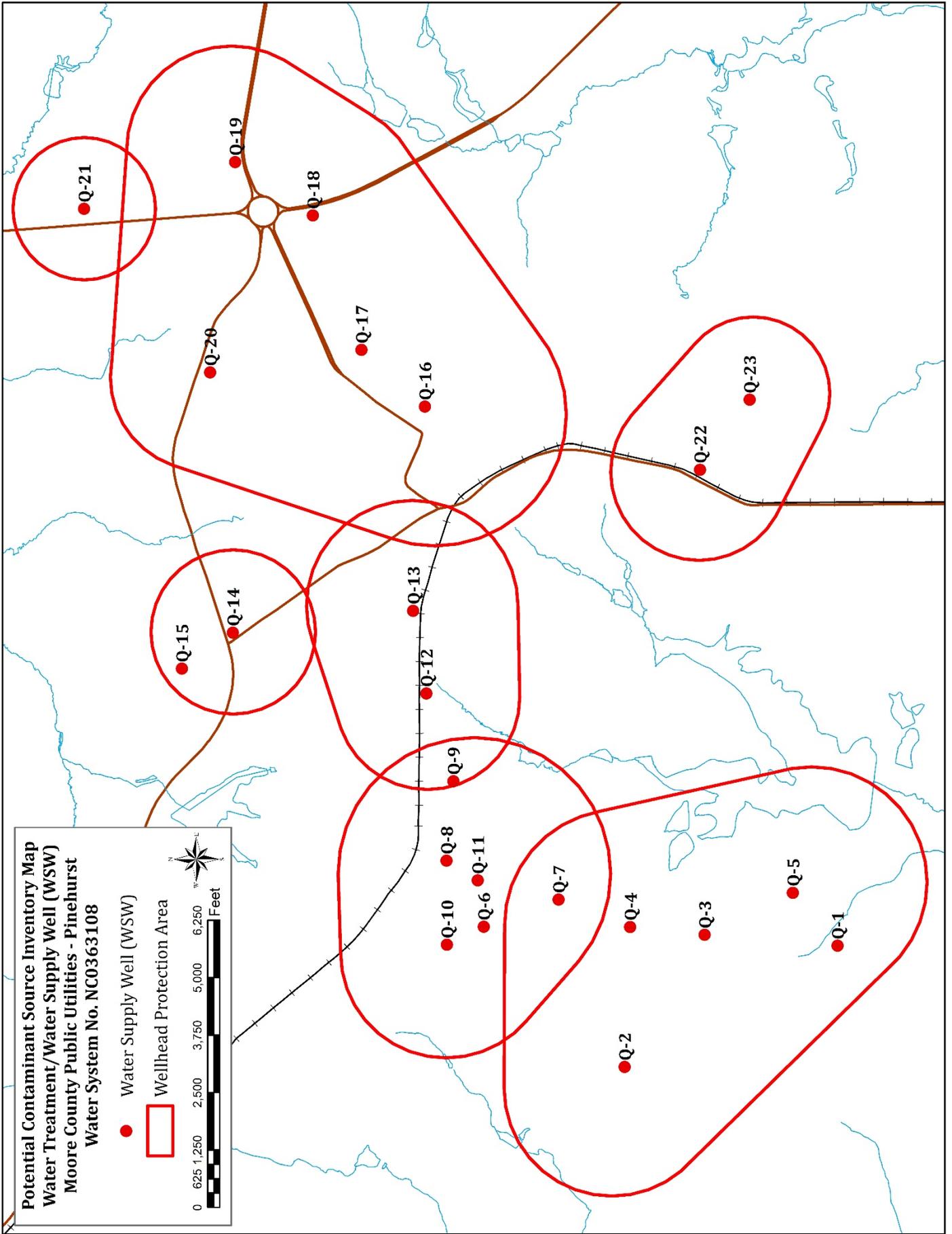
OTHER

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

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

Potential Contaminant Source Maps and Data Charts

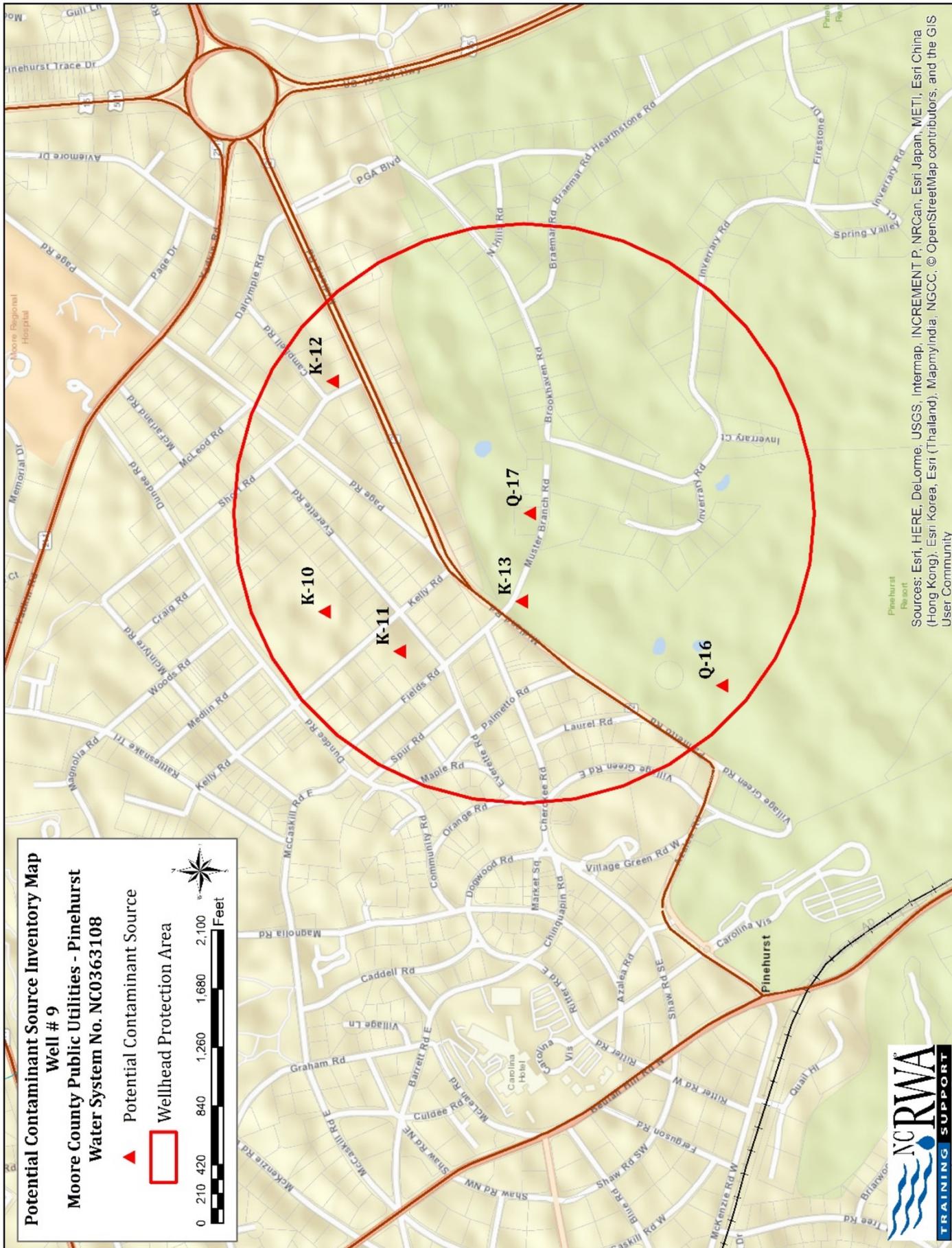




WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
2A	Public Water Supply Well (WSW)	Q-13	Well # 2A	Behind 175 McKenzie Rd. West Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Chlorine Sodium Polyphosphate Caustic	100 gal 65 gal 165 gal	35.192736	-79.479469
2A, 18	Public Water Supply Well (WSW)	Q-12	Well # 18	35 Idlewild Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine	330 gal 200 gal	35.191922	-79.485478

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Rick Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
5A	Pollution Incident	K-17	Razooks Building Incident #: 29460	105 Chinquapin Rd. Pinehurst, NC 28374	X	Pineville Corporation 155 New York Ave., Suite 100 Southern Pines, NC 28387	Petroleum Release	See incident description for details	35.1953	-79.47
5A,9	Public Water Supply Well (WSW)	Q-16	Well # 5A	Near 5 Muster Branch Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Batteries for Backup (Blended w/Well #9)	(2) 12 volt	35.192091	-79.464596
5A,9	Public Water Supply Well (WSW)	Q-17	Well # 9	10 Muster Branch Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine Sodium Polyphosphate (Blended w/Well #5A)	2,000 gal 330 gal 150 gal	35.19589	-79.460485
5A,9	Pollution Incident	K-11	Community Presbyterian Church Incident #: 29025 UST #: FA-1711	50 Fields Rd. Pinehurst, NC 28374	X	Community Presbyterian Church c/o Jack Binning PO Box 1449	Petroleum Release Incident	See incident description for details	35.198438	-79.463811
5A,9	Pollution Incident	K-13	Pinehurst EDB - Well 1&9 Object: 23623 PCSID: 19354 PIRF1035	700 Morganton Rd. Pinehurst, NC 28374	X	Resorts of Pinehurst, Inc. c/o George McElroy Associates PO Box 565048 Dallas, TX 75356	Petroleum Release Incident	See incident description for details	35.196043	-79.4626

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
7	Lift Station	I-2	Pump Station HF-1	1 Brookhaven Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28328	Untreated Wastewater	80 gpm capacity	35.197855	-79.451744
7,10	Public Water Supply Well (WSW)	Q-18	Well # 7	1 Brookhaven Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine Sodium Polyphosphate	330 gal 165 gal 65 gal	35.198831	-79.450706
7,10	Public Water Supply Well (WSW)	Q-19	Well # 10	Midland/Airport Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Bleach	330 gal 165 gal	35.203482	-79.446851
7,9	Pollution Incident	K-12	Bicket Property Incident #: 29722 UST #: FA-3790	225 Midland Rd. Pinehurst, NC 28374	X	Greg Bicket 225 Midland Rd Pinehurst, NC 28374	Petroleum Release Incident	See incident description for details	35.199782	-79.457341

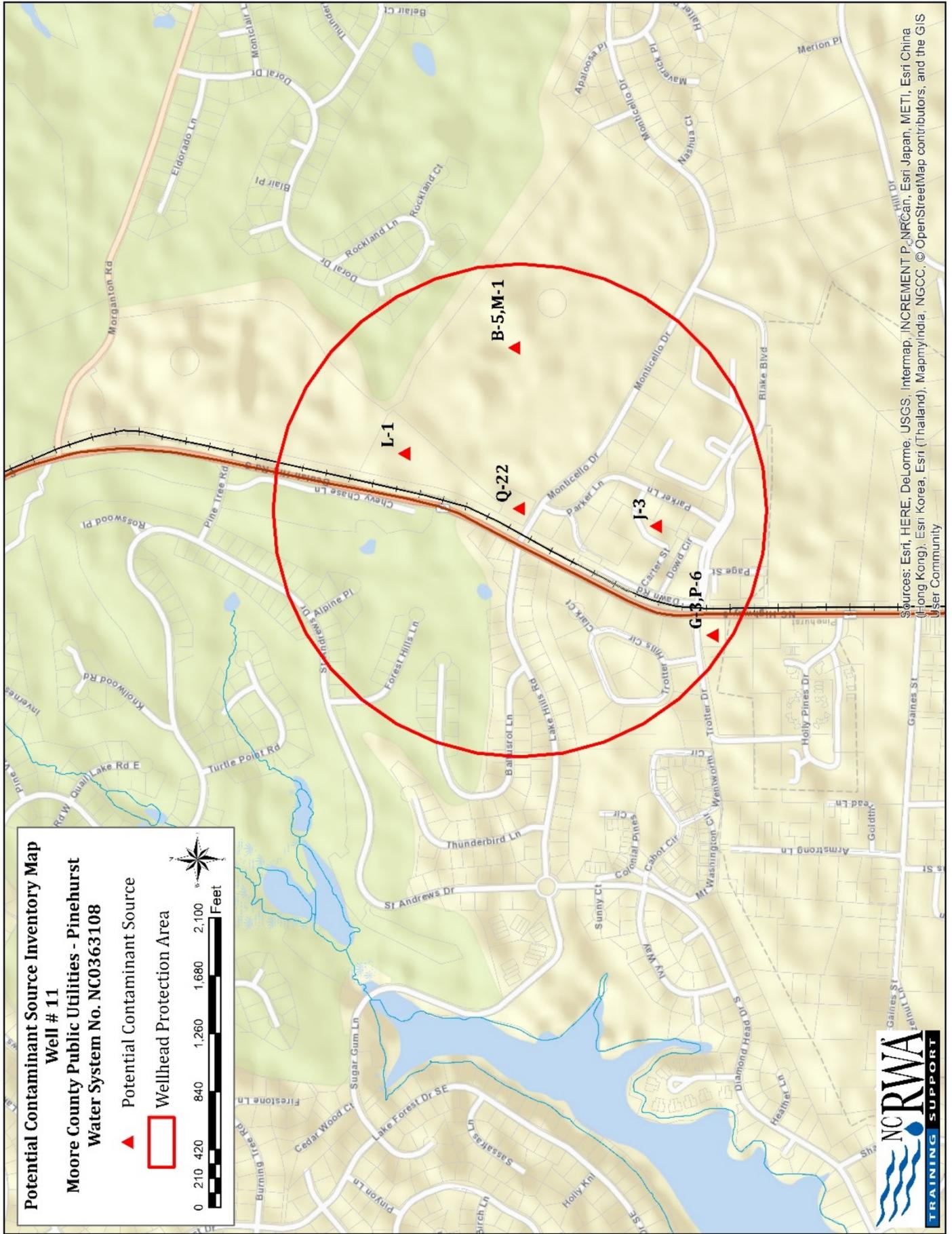


Pinehurst Resort
 Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community



WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
5A,9	Public Water Supply Well (WSW)	Q-17	Well # 9	10 Muster Branch Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine Sodium Polyphosphate (Blended w/Well #5A)	2,000 gal 330 gal 150 gal	35.19589	-79.460485
5A,9	Pollution Incident	K-11	Community Presbyterian Church Incident #: 29025 UST #: FA-1711	50 Fields Rd. Pinehurst, NC 28374	X	Community Presbyterian Church c/o Jack Binning PO Box 1449	Petroleum Release Incident	See incident description for details	35.198438	-79.463811
5A,9	Pollution Incident	K-13	Pinehurst EDB - Well 1&9 Object: 23623 PGSID: 19354 PIRF1035	700 Morganton Rd. Pinehurst, NC 28374	X	Resorts of Pinehurst, Inc. c/o George McElroy Associates PO Box 565048 Dallas, TX 75356	Petroleum Release Incident	See incident description for details	35.196043	-79.4626
7,9	Pollution Incident	K-12	Bicket Property Incident #: 29722 UST #: FA-3790	225 Midland Rd. Pinehurst, NC 28374	X	Greg Bicket 225 Midland Rd. Pinehurst, NC 28374	Petroleum Release Incident	See incident description for details	35.199782	-79.457341
9,13	Public Water Supply Well (WSW)	Q-7	Elliott's on Linden Transient Non-Community Water System ID: 03-63-596	905 Linden Rd. Pinehurst, NC 28374	M	Madison Commercial Prop. c/o Mark Elliott 905 Linden Rd. Pinehurst, NC 28374	Treatment Chemicals	TBD	35.18397	-79.500439
9,22	Pollution Incident	K-10	Pinehurst Middle School Incident #: 7788 UST #: FA-316	100 Dundee Rd. Pinehurst, NC 28374	X	Pinehurst Middle School c/o Dell Wahala Kelly Rd. Pinehurst, NC 28374	Petroleum Release Incident	See incident description for details	35.199917	-79.462868

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
7.10	Public Water Supply Well (WSW)	Q-18	Well # 7	1 Brookhaven Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine Sodium Polyphosphate	330 gal 165 gal 65 gal	35.198831	-79.450706
7.10	Public Water Supply Well (WSW)	Q-19	Well # 10	Midland/Airport Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Bleach	330 gal 165 gal	35.203482	-79.446851



Potential Contaminant Source Inventory Map

Well # 11

Moore County Public Utilities - Pinehurst

Water System No. NC0363108

▲ Potential Contaminant Source

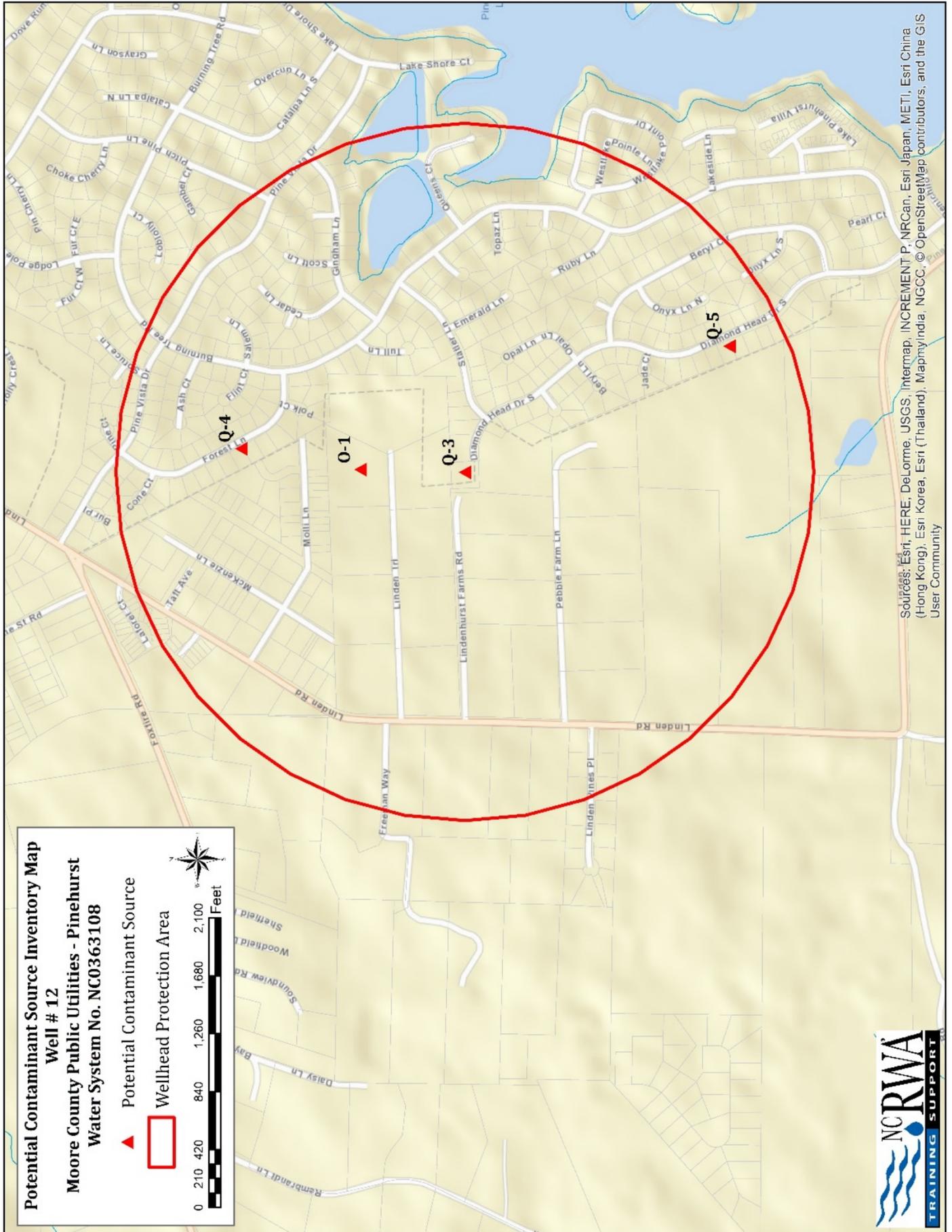
◻ Wellhead Protection Area



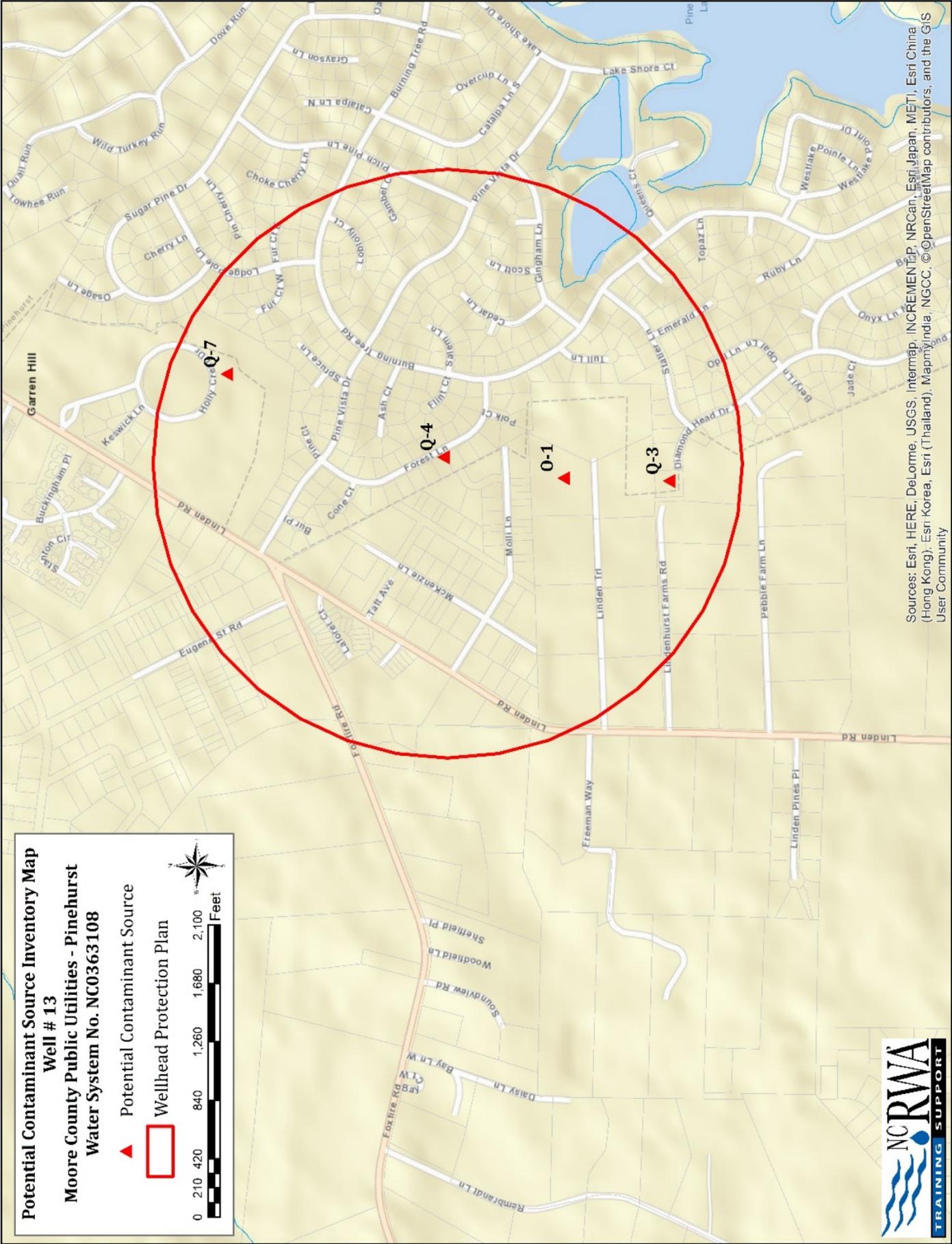
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community



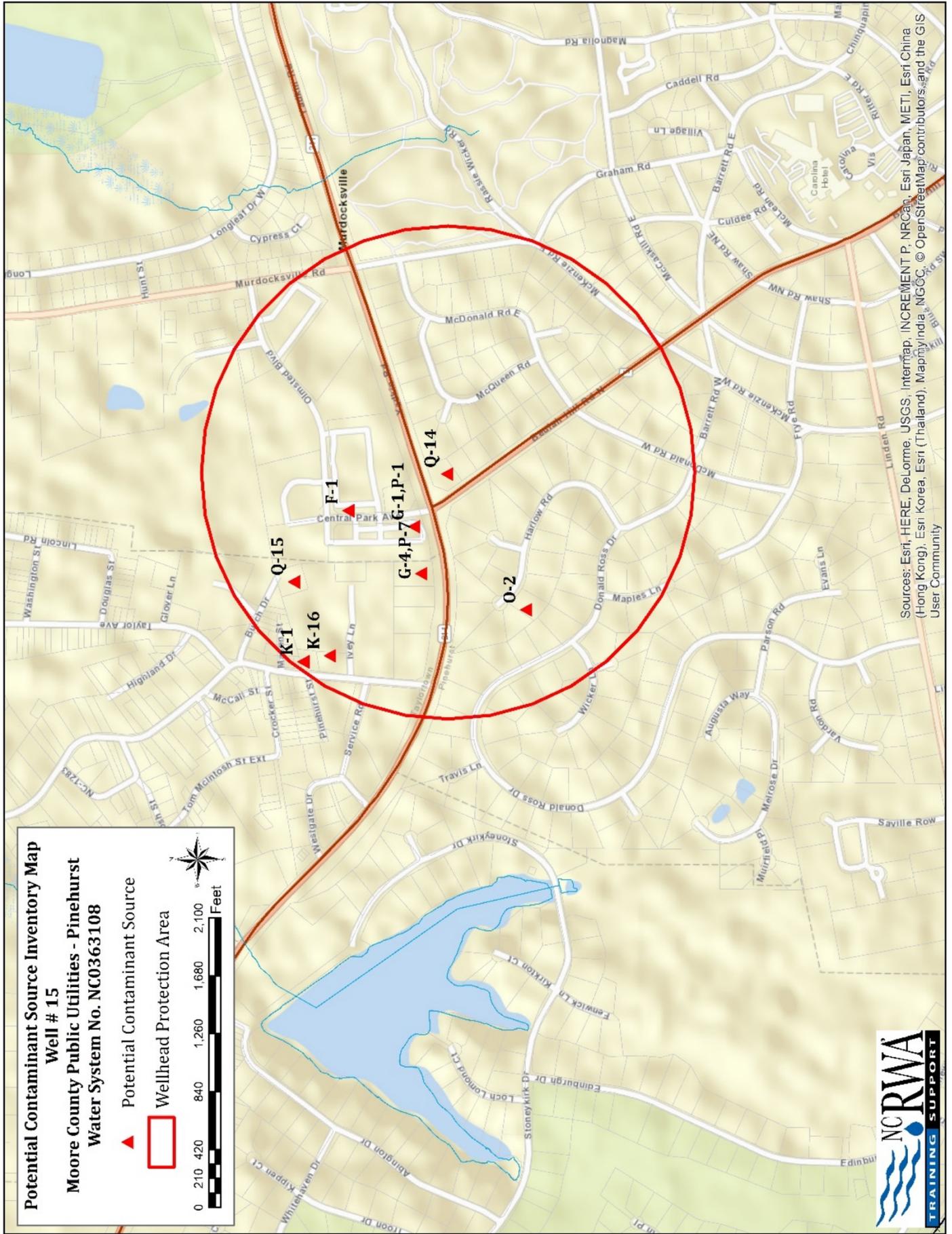
WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
11	Gas Station, UST	G-3 P-6	The Pantry	345 Beulah Hill Rd. S. Pinehurst, NC 28374	H H	Li'l Thrift Food Marts, Inc. 1007 Arsenal Ave. Fayetteville, NC 28305	Gasoline, Gas Mix	(3) - 10,000 gal tanks	35.171791	-79.472149
11	Print Shop	L-1	Pinehurst Resort Sign Shop	210 Beulah Hill Rd. S. Pinehurst, NC 28374	H	Resorts of Pinehurst, Inc. PO Box 4000 Pinehurst, NC 28374	TBD	TBD	35.177945	-79.467775
11	Public Water Supply Well (WSW)	Q-22	Well # 11	605 Monticello Dr. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Batteries (Blended w/ Well 23)	(2) 12 Volt	35.175656	-79.469097
11	Maintenance Shop	J-3	Reynolds Landscaping	15 Carter Lane Pinehurst, NC 28374	H	Harris Blake, LLC PO Box 4266 Pinehurst, NC 28374	Paint & Chemicals Possible small equipment repair	Small Quantities	35.205928	-79.468453
11,23	AST, Recreation Facility	B-5 M-1	Village of Pinehurst Harness Track	200 Beulah Rd. Pinehurst, NC 28374	M M	Village of Pinehurst 395 Magnolia Rd. Pinehurst, NC 28374 910-295-1900	Diesel Pesticide/Herbicide/ Fertilizer Application	500 gal Seasonal	35.175762	-79.465192



WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
12.13	UIC	Q-1	Julia B. Latham SFR PCS ID: W10600051	107 Linden Trl Aberdeen, NC 28315	M	Julia Latham 108 Linden Trail Aberdeen, NC 28315	Stormwater runoff; spilled liquids; pesticides	Various	35.177319	-79.502899
12.13	Public Water Supply Well (WSW)	Q-3	Well # 12	5 Diamondhead Dr. South Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Chlorine Caustic	165 gal 330 gal	35.175239	-79.502954
12.13	Public Water Supply Well (WSW)	Q-4	Well # 13	115 Forest Lane Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Bleach Sodium Polyphosphate	270 gal 165 gal 65 gal	35.179693	-79.50241
12.16	Public Water Supply Well (WSW)	Q-5	Well # 16	200 Diamondhead Dr. South Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Sodium Polyphosphate Caustic Chlorine	65 gal 330 gal 165 gal	35.169989	-79.499861



WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
12.13	UIC	Q-1	Julia B. Latham SFR PCS ID: W10600051	107 Linden Trl Aberdeen, NC 28315	M	Julia Latham 108 Linden Trail Aberdeen, NC 28315	Stormwater runoff; spilled liquids; pesticides	Various	35.177319	-79.502899
12.13	Public Water Supply Well (WSW)	Q-3	Well # 12	5 Diamondhead Dr. South Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Chlorine Caustic	165 gal 330 gal	35.175239	-79.502954
12.13	Public Water Supply Well (WSW)	Q-4	Well # 13	115 Forest Lane Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Bleach Sodium Polyphosphate	270 gal 165 gal 65 gal	35.179693	-79.50241
12.16	Public Water Supply Well (WSW)	Q-5	Well # 16	200 Diamondhead Dr. South Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Sodium Polyphosphate Caustic Chlorine	65 gal 330 gal 165 gal	35.169989	-79.499861



Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

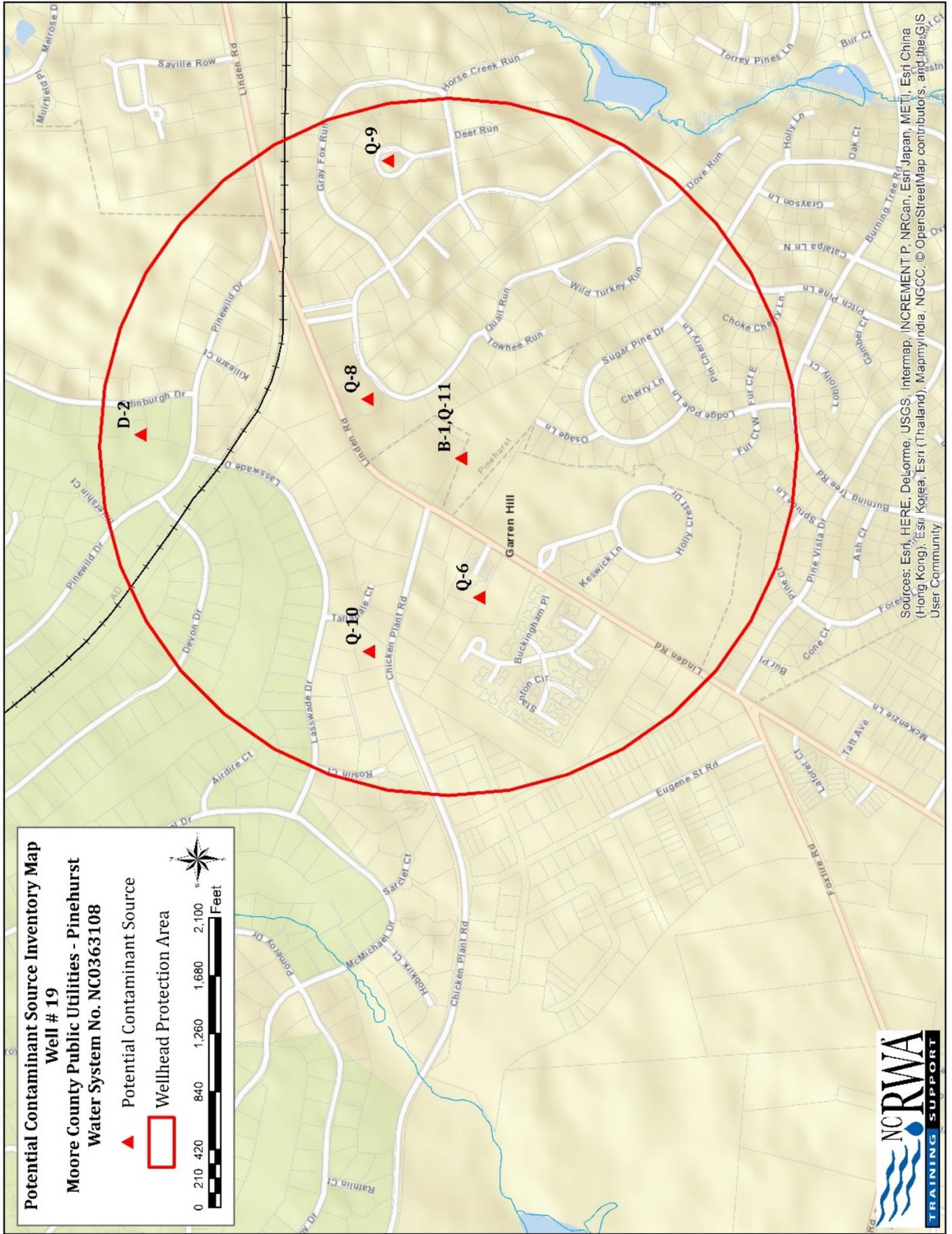


WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner-Contact	Contaminant	Quantity	Latitude	Longitude
15	Pollution Incident	K-1	Cole Residence Incident #: 29836 UST #: FA-3916	8337 Main St. West End, NC 27376	X	Lanny & Nancy Cole 8337 Main St. West End, NC 27376	Petroleum Release	See incident description for details	35.206325	-79.485692
15	Gas Station, UST	G-1 P-1	Macs Food Store 1 Cert. #: 00-035325 USTB435	101 Central Park Ave. Pinehurst, NC 28374	H X	McNeill Oil Co. Inc. P.O. Box 396 Aberdeen, NC 28315-0396	Gasoline, Gas Mix Gasoline, Gas Mix Motor Oil, Antifreeze (Tanks are w/in 500 ft.)	(1) 10,000 gal tank (1) 15,000 gal tank Small quantities	35.204133	-79.482401
15	UIC	O-2	Ernest & Krista Duncan PGS ID: WI0600072 UIC244	85 Harlow Rd. Pinehurst, NC 28374	M	85 Harlow Rd. Pinehurst, NC 28374	Stormwater runoff; spilled liquids; pesticides	Incidental	35.201899	-79.484406
15	Public Water Supply Well (WSW)	Q-14	Well # 15	600 Beulah Hill Rd. North Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Bleach	330 gal 165 gal	35.203484	-79.481119
15	Public Water Supply Well (WSW)	Q-15	Taylorstown Well # 3	End of Burch Dr. West End, NC 27376	M	Town of Taylorstown Bruce McFaden/David McHugh PO Box 1274 Pinehurst, NC 28370	Soda Ash Chlorine	150 lbs 30 gal	35.206521	-79.483757
15	Pollution Incident	K-16	Barrett Property Incident #: 90193	8351 Main St. Taylorstown, NC	X	Ulysses Barrett, Jr. PO Box 1506 Pinehurst, NC 28374	Surficial Spill of Petroleum Product	See incident description for details	35.205798	-79.485544
15	Gas Station, UST	G-4 P-7	Harris Teeter Fuel Center #80	280 Ivey Lane Pinehurst, NC 28374	H H	HT Fuel NC, LLC 701 Crestdale Rd. Matthews, NC 28105	Gasoline Gasoline Diesel	(1) - 8,000 gal. tank (1) - 10,000 gal. tank (1) - 20,000 gal. tank	35.203988	-79.483540
15	Dry Cleaner	F-1	Olmsted Cleaners	222 Central Park Ave. Pinehurst, NC 28374	H	MOV, LLC PO Box 1553 Pinehurst, NC 28374	Solvents, Detergents, Disinfectants	Small Quantities	35.205445	-79.482021

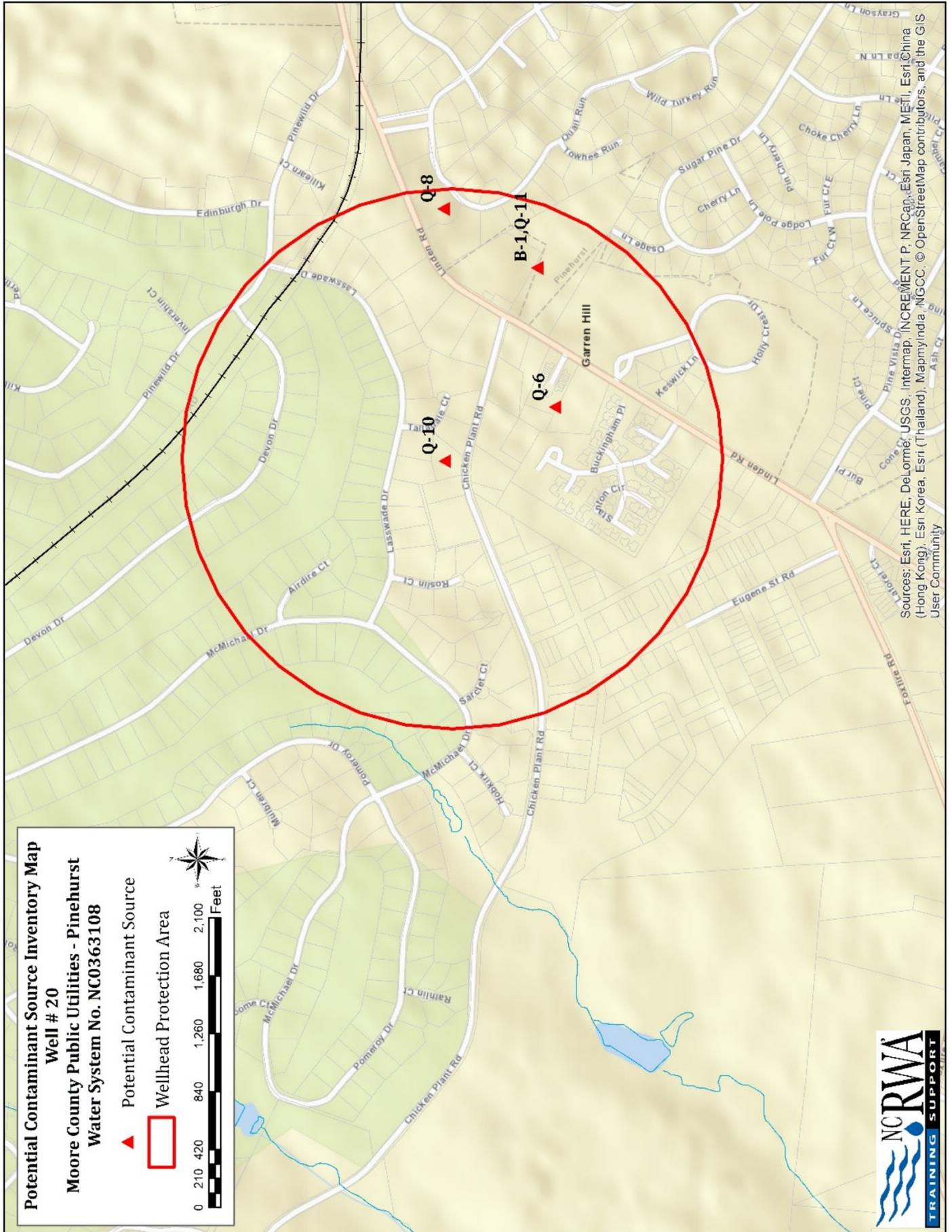
WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
16	Cemetery Public Water Supply Well (WSW)	D-1 Q-1	Deep Creek Baptist Church Transient Non-Comm. Water System ID: 03-63-474	1995 Linden Rd. Aberdeen, NC 28315	L M	Deep Creek Baptist Church PO Box 3452 Pinehurst, NC 28374 910-692-8904	Cemetery Transient Non-Comm. Water System	50 plots used/50 available	35.167307	-79.503698
16	AST, Lift Station	B-6 I-1	Pump Station 13-1	9 Lake Pinehurst Villas Rd. Pinehurst, NC 28374	M M	County of Moore Government PO Box 907 Carthage, NC 28327	Diesel Untreated Wastewater	500 gal 344 gpm capacity	35.168293	-79.493683
12,16	Public Water Supply Well (WSW)	Q-5	Well # 16	200 Diamondhead Dr. South Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Sodium Polyphosphate Caustic Chlorine	65 gal 330 gal 165 gal	35.169989	-79.499861

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
17	Public Water Supply Well (WSW)	Q-21	Well # 17	146 Sakonnet Trail Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine	165 gal 110 gal	35.212485	-79.450303
17	Lift Station	I-4	Pump Station 17-3	18 Shenecossett Ln. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28330	Untreated Wastewater	40 gpm capacity	35.209474	-79.446716

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
2A.18	Public Water Supply Well (WSW)	Q-12	Well # 18	35 Idlewild Rd. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine	330 gal 200 gal	35.191922	-79.485478



WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
19	Public Water Supply Well (WSW)	Q-9	Clarendon Gardens S/D Well #2 Community Water System ID: 03-63-102	10 Red Fox Run Pinehurst, NC 28374	M	Aqua NC, Inc. 202 Mackenan Court Cary, NC 27511 919-467-8712	Polyphosphate Chlorine Caustic	TBD	35.190283	-79.491861
19	Cemetery	D-2	Pinewild Property Owners Association	Unknown	L	Pinewild Property Owners Assoc. PO Box 3975 Pinehurst, NC 28374	Gravestones (approximately >100 years old)	Approximately 20	35.195184	-79.498538
19,20	Public Water Supply Well (WSW)	Q-6	Linden Villas Water System Community Water System ID: 03-63-129	940 Linden Rd. Pinehurst, NC 28374	M	Linden Villas Homeowner Association PO Box 83 Pinehurst, NC 28370 910-295-3791	Chlorine Polyphosphate	TBD	35.188429	-79.502447
19,20	Public Water Supply Well (WSW)	Q-8	Clarendon Gardens S/D Well #1 Community Water System ID: 03-63-102	30 Quail Run Pinehurst, NC 28374	M	Aqua NC, Inc. c/o Joel Mingus, Aqua NC 202 Mackenan Court Cary, NC 27511 919-467-8712	Polyphosphate Chlorine Caustic	TBD	35.190669	-79.497647
19,20	Public Water Supply Well (WSW)	Q-10	Well # 20	10 Talladale Court Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine	100 gal 165 gal	35.190617	-79.503770
19,20	AST, Public Water Supply Well (WSW)	B-1 Q-11	Well # 19	Near 808 Linden Rd. Pinehurst, NC 28374	M M	County of Moore Government PO Box 907 Carthage, NC 28327	Sodium Polyphosphate Caustic Chlorine Onsite Generator-Diesel	65 gal 165 gal 165 gal 350 gal	35.188801	-79.499070



WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
19,20	Public Water Supply Well (WSW)	Q-6	Linden Villas Water System Community Water System ID: 03-63-129	940 Linden Rd. Pinehurst, NC 28374	M	Linden Villas Homeowner Association PO Box 83 Pinehurst, NC 28370 910-295-3791	Chlorine Polyphosphate	TBD	35.188429	-79.502447
19,20	Public Water Supply Well (WSW)	Q-8	Clarendon Gardens S/D Well #1 Community Water System ID: 03-63-102	30 Quail Run Pinehurst, NC 28374	M	Aqua NC, Inc. c/o Joel Mingus, Aqua NC 202 Mackenan Court Cary, NC 27511 919-467-8712	Polyphosphate Chlorine Caustic	TBD	35.190669	-79.497647
19,20	Public Water Supply Well (WSW)	Q-10	Well # 20	10 Talladale Court Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Chlorine	100 gal 165 gal	35.190617	-79.503770
19,20	AST, Public Water Supply Well (WSW)	B-1 Q-11	Well # 19	Near 808 Linden Rd. Pinehurst, NC 28374	M M	County of Moore Government PO Box 907 Carthage, NC 28327	Sodium Polyphosphate Caustic Chlorine Onsite Generator-Diesel	65 gal 165 gal 165 gal 350 gal	35.188801	-79.499070

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
21	Public Water Supply Well (WSW)	Q-2	Well # 21	345 Foxfire Rd. Aberdeen, NC 28315	M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic Bleach	270 gal 165 gal	35.179975	-79.512605
21	Animal Boarding	A-1	Antares Dressage	1380 Linden Rd. Aberdeen, NC 28315	L	Sean & Victoria Kelley PO Box 3490 Pinehurst, NC 28374 910-295-0075	Fertilizers, Nitrates, bacterial, coliform	Unknown	35.17917	-79.510733

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
22	AST, Public Water Supply Well (WSW)	B-2 Q-20	Well # 22	200 Short Rd. Pinehurst, NC 28374	M M	County of Moore Government PO Box 907 Carthage, NC 28327	Caustic (50%) Sodium Polyphosphate Bleach Onsite Generator-Diesel	270 gal 100 gal 165 gal 350 gal	35.204917	-79.462177
22	Chemical Storage	E-4	Village of Pinehurst Storage Facility	430 Magnolia Rd. Pinehurst, NC 28374	M	Village of Pinehurst 395 Magnolia Rd. Pinehurst, NC 28374 910-295-1900	Fire Foam Fertilizer Lime Pesticide Natural Gas Generator Petroleum Release Incident	50 gal	35.204401	-79.467344
22	Pollution Incident	K-4	Manor Care Nursing Center Cert. #: 00-023085 Incident #: 21790 UST #: FA1118	205 Rattlesnake Trail Pinehurst, NC 28374	X	Manor Care of Pinehurst PO Box 10086 Toledo, OH 43699-0086	Petroleum Release Incident	See incident description for details	35.20577	-79.466026
22	Gas Station, Pollution Incident, UST	G-2 K-5 P-3	Short Stop 77 Cert. #: 00-001199 Incident #: 29053 UST #: FA-1749	200 Rattlesnake Trail Pinehurst, NC 28374	H X H	Lee-Moore Oil Company Contact: Bob Hood PO Drawer 9 Sanford, NC 27330	Petroleum Release Incident	See incident description for details	35.204544	-79.465879
22	Pollution Incident	K-6	J. Edgar Property Incident #: 29756 UST #: FA-3840	95 McIntyre Rd. Pinehurst, NC 28374	X	Sherry Sheerin 55 Turtle Point Rd. Pinehurst, NC 28374	Petroleum Release Incident	See incident description for details	35.202356	-79.465894
22	Chemical Storage	E-5	Antex Exterminating Company Inc.	55 McIntyre Rd. Pinehurst, NC 28374	H	Shirley Kennedy 3444 NC Hwy 705 Robbins, NC 27325	TBD	TBD	35.201457	-79.466824
22	Recreational Facility	M-2	Camelot Playground	90 Woods Rd. Pinehurst, NC 28374	M	Village of Pinehurst 395 Magnolia Rd. Pinehurst, NC 28374 910-295-1900	Fertilizer Pesticides Lime	Seasonal Application	35.204385	-79.464616
9,22	Pollution Incident	K-10	Pinehurst Middle School Incident #: 7788 UST #: FA-316	100 Dundee Rd. Pinehurst, NC 28374	X	Pinehurst Middle School c/o Dell Wahala Kelly Rd. Pinehurst, NC 28374	Petroleum Release Incident	See incident description for details	35.199917	-79.462868

WHPA	PCS Category	Map Code	PCS Site	Physical Location	Risk Category	Property Owner Contact	Contaminant	Quantity	Latitude	Longitude
23	Public Water Supply Well (WSW)	Q-23	Well # 23	675 Monticello Dr. Pinehurst, NC 28374	M	County of Moore Government PO Box 907 Carthage, NC 28327	Sodium Bleach Caustic Onsite Generator-Diesel	150 gal 330 gal 2000 gal 300 gal	35.172713	-79.463982
11,23	AST, Recreation Facility	B-5 M-1	Village of Pinehurst Harness Track	200 Beulah Rd. Pinehurst, NC 28374	M M	Village of Pinehurst 395 Magnolia Rd. Pinehurst, NC 28374 910-295-1900	Diesel Pesticide/Herbicide/ Fertilizer Application	500 gal Seasonal	35.175762	-79.465192

Risk Assessment Results

Well #2A Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-13	Well # 2A	M	10	2,054	1.00	2	1.99
Q-12	Well # 18	M	1,820	2,054	0.11	2	0.23

Total Risk Score 2.22

Well #5A Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-16	Well # 5A	M	10	2,651	1.00	2	1.99
K-13	Pinehurst EDB - Well 1&9 Object: 23623 PCSID: 19354 PIRF1035	X	1,565	2,651	0.41	4	1.64
K-17	Razooks Building Incident #: 29460	X	1,990	2,651	0.25	4	1.00
Q-17	Well # 9	M	1,850	2,651	0.30	2	0.60
K-11	Community Presbyterian Church Incident #: 29025 UST #: FA-1711	X	2,325	2,651	0.12	4	0.49

Total Risk Score 5.72

Well #7 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-18	Well # 7	M	10	2,189	1.00	2	1.99
I-2	Pump Station HF-1	M	470	2,189	0.79	2	1.57
K-12	Bicket Property Incident #: 29722 UST #: FA-3790	X	2,005	2,189	0.08	4	0.34
Q-19	Well # 10	M	2,045	2,189	0.07	2	0.13

Total Risk Score 4.03

Well #9 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
K-13	Pinehurst EDB - Well 1&9 Object: 23623 PCSID: 19354 PIRF1035	X	630	2,077	0.70	4	2.79
Q-17	Well # 9	M	10	2,077	1.00	2	1.99
K-11	Community Presbyterian Church Incident #: 29025 UST #: FA-1711	X	1,345	2,077	0.35	4	1.41
K-10	Pinehurst Middle School Incident #: 7788 UST #: FA-316	X	1,625	2,077	0.22	4	0.87
K-12	Bicket Property Incident #: 29722 UST #: FA-3790	X	1,700	2,077	0.18	4	0.73
Q-16	Well # 5A	M	1,840	2,077	0.11	2	0.23

Total Risk Score **8.01**

Well #10 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-19	Well # 10	M	10	2,115	1.00	2	1.99
Q-18	Well # 7	M	2,060	2,115	0.03	2	0.05

Total Risk Score **2.04**

Well #11 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-22	Well # 11	M	10	1,787	0.99	2	1.99
L-1	Pinehurst Resort Sign Shop	H	920	1,787	0.49	3	1.46
B-5 M-1	Village of Pinehurst Harness Track	M M	1,170	1,787	0.35	4	1.38
J-3	Reynolds Landscaping	H	1,000	1,787	0.44	3	1.32
G-3 P-6	The Pantry	H H	1,665	1,787	0.07	6	0.41

Total Risk Score **6.56**

Well #12 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-3	Well # 12	M	10	2,528	1.00	2	1.99
O-1	Julia B. Latham SFR PCS ID: WI0600051	M	760	2,528	0.70	2	1.40
Q-4	Well # 13	M	1,635	2,528	0.35	2	0.71
Q-5	Well # 16	M	2,115	2,528	0.16	2	0.33

Total Risk Score **4.42**

Well #13 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
O-1	Julia B. Latham SFR PCS ID: WI0600051	M	870	2,115	0.59	2	1.18
Q-3	Well # 12	M	1,615	2,115	0.24	2	0.47
Q-4	Well # 13	M	10	2,115	1.00	2	1.99
Q-7	Elliott's on Linden Transient Non-Community Water System ID: 03-63-596	M	1,670	2,115	0.21	2	0.42

Total Risk Score **4.06**

Well #15 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
G-1 P-1	Macs Food Store 1 Cert. #: 00-035325 UST8435	H X	455	1,787	0.75	7	5.22
G-4 P-7	Harris Teeter Fuel Center #80	H H	745	1,787	0.58	6	3.50
Q-14	Well # 15	M	10	1,787	0.99	2	1.99
F-1	Olmsted Cleaners	H	760	1,787	0.57	3	1.72
O-2	Ernest & Krista Duncan PCS ID: WI0600072 UIC244	M	1,130	1,787	0.37	2	0.74
K-16	Barrett Property Incident #: 90193	X	1,565	1,787	0.12	4	0.50
Q-15	Taylorstown Well # 3	M	1,345	1,787	0.25	2	0.49
K-1	Cole Residence Incident #: 29836 UST #: FA-3916	X	1,715	1,787	0.04	4	0.16

Total Risk Score **14.32**

Well #16 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-5	Well # 16	M	10	2,115	1.00	2	1.99
D-1 Q-1	Deep Creek Baptist Church Transient Non-Comm. Water System ID: 03-63-474	L M	1,505	2,115	0.29	3	0.87
B-6 I-1	Pump Station 13-1	M M	1,940	2,115	0.08	4	0.33

Total Risk Score **3.19**

Well #17 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-21	Well # 17	M	10	1,548	0.99	2	1.99
I-4	Pump Station 17-3	M	1,530	1,548	0.01	2	0.02

Total Risk Score **2.01**

Well #18 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-12	Well # 18	M	10	1,787	0.99	2	1.99

Total Risk Score **1.99**

Well #19 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
B-1 Q-11	Well # 19	M M	10	2,528	1.00	4	3.98
Q-8	Clarendon Gardens S/D Well #1 Community Water System ID: 03-63-102	M	820	2,528	0.68	2	1.35
Q-6	Linden Villas Water System Community Water System ID: 03-63-129	M	1,000	2,528	0.60	2	1.21
Q-10	Well # 20	M	1,550	2,528	0.39	2	0.77
Q-9	Clarendon Gardens S/D Well #2 Community Water System ID: 03-63-102	M	2,235	2,528	0.12	2	0.23
D-2	Pinewild Property Owners Association	L	2,340	2,528	0.07	1	0.07

Total Risk Score **7.62**

Well #20 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-10	Well # 20	M	10	1,958	0.99	2	1.99
Q-6	Linden Villas Water System Community Water System ID: 03-63-129	M	890	1,958	0.55	2	1.09
B-1 Q-11	Well # 19	M M	1,555	1,958	0.21	4	0.82
Q-8	Clarendon Gardens S/D Well #1 Community Water System ID: 03-63-102	M	1,820	1,958	0.07	2	0.14

Total Risk Score **4.04**

Well #21 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-2	Well # 21	M	10	1,974	0.99	2	1.99
A-1	Antares Dressage	L	625	1,974	0.68	1	0.68

Total Risk Score **2.67**

Well #22 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
G-2 K-5 P-3	Short Stop 77 Cert. #: 00-001199 Incident #: 29053 UST #: FA-1749	H X H	1,105	1,883	0.41	10	4.13
B-2 Q-20	Well # 22	M M	10	1,883	0.99	4	3.98
K-4	Manor Care Nursing Center Cert. #: 00-023085 Incident #: 21790 UST #: FA1118	X	1,180	1,883	0.37	4	1.49
M-2	Camelot Playground	M	740	1,883	0.61	2	1.21
K-6	J. Edgar Property Incident #: 29756 UST #: FA-3840	X	1,450	1,883	0.23	4	0.92
E-4	Village of Pinehurst Storage Facility	M	1,545	1,883	0.18	2	0.36
K-10	Pinehurst Middle School Incident #: 7788 UST #: FA-316	X	1,820	1,883	0.03	4	0.13
E-5	Antex Exterminating Company Inc.	H	1,875	1,883	0.00	3	0.01

Total Risk Score **12.24**

Well #23 Potential Contaminant Ranking

Map Code	PCS Site	Risk	Distance from Well (ft.)	WHPA Radius (ft.)	Proximity Score	Category Score*	Final Score
Q-23	Well # 23	M	10	1,548	0.99	2	1.99
B-5 M-1	Village of Pinehurst Harness Track	M M	1,165	1,548	0.25	4	0.99

Total Risk Score **2.98**

Potential Contaminants Located in the Contribution Area

Map Code	PCS Site	Risk	Category Score*	Extended WHPA Location
B-7 I-3	Pump Station 9-1	M M	4	5A,7,9,10,22
J-1 P-2	Golf Course Maintenance Cert. #: 00-020678 UST7207	H H	6	5A,7,9,10,22
K-2	Resort of Pinehurst Golf Course Maintenance Incident #: 25777 PIRF3189	X	4	5A,7,9,10,22
K-3	Pinehurst Hotel Cleaners DSCA ID# DC630001 Superfund Site	X	4	5A,7,9,10,22
H-1	Hughes Supply	L	1	5A,7,9,10,22
B-3 E-1 J-2 N-1	Village of Pinehurst Public Works & Central Maintenance Facility NCG080699	M H H L	9	5A,7,9,10,22
B-4 E-2	CenturyLink	M H	5	5A,7,9,10,22
E-3	Pinehurst Fire Dept	L	1	5A,7,9,10,22
K-7	Village Fillin Station Cert. #: 0-035245 Incident #: 29982 UST #: FA-7693	X	4	5A,7,9,10,22
C-1	Clark-Chevrolet Collision Center	H	3	5A,7,9,10,22
K-8	Bill Clark Chevrolet Incident #: 5532 UST #: FA*143	X	4	5A,7,9,10,22
P-4	Clark Chevrolet - Cadillac Cert. #: 00-020665 UST4754	H	3	5A,7,9,10,22
K-9	Team Express Home Buyers Incident #: 29122 UST #: FA-2854	X	4	5A,7,9,10,22
K-14 P-5	Moore Regional Hospital Cert. #: 00-022127 UST #: UST1949	X H	7	5A,7,9,10,22
K-15	Pinehurst Surgical Clinic Incident #: 9678 UST #: FA-474	X	4	5A,7,9,10,22
M-3	Rassie Wicker Park	M	2	5A,7,9,10,22
B-8	Pinehurst Police Department	M	2	5A,7,9,10,22

**Site Evaluation Forms for Potential Contaminant Sources
(Completed)**

Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pump Station 13-1

Address: 9 Lake Pinehurst Villas

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pump Station

Owner Information

Owner: County of Moore Government

Address: PO Box 3000

Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>untreated wastewater</u>	<u>344 gpm capacity</u>
<u>Generator onsite</u>	<u>500 gal</u>

Additional Information:

35.168293, -79.493683

Signature/Title: Alicia O. Melton

Date: 2/6/2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

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Facility Information

Facility Name: Pump Station HF-1

Address: 1 Brookhaven Rd
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pump Station

Owner Information

Owner: County of Moore Government

Address: PO Box 3000
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>untreated wastewater</u>	<u>80 gpm capacity</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

35.197855, -79.451744

Signature/Title: Alicia O. Melton

Date: 2/6/2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pump Station 9-1

Address: 1735 Longleaf Dr. E.

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pump Station

Owner Information

Owner: County of Moore Government

Address: PO Box 3000
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>untreated wastewater</u>	<u>765 gpm capacity</u>
<u>Generator onsite</u>	<u>500 gal</u>
_____	_____
_____	_____
_____	_____

Additional Information:

35.210424, -79.459613

Signature/Title: Alicia O. Melton

Date: 2/6/2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pump Station ~~17-4~~ 17-3

Address: 18 Shenecossett Ln.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing

Owner Information

Owner: County of Moore Government

Address: PO Box 3000
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>untreated wastewater</u>	<u>40 gpm capacity</u>

Additional Information:

35.209474, -79.446716

Other: Pump Station

Signature/Title: Alicia O. Melton

Date: 2/6/2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Julia B. Latham SFR

Address: 107 Linden Trail
Aberdeen, NC 28315

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Underground Injection Control (UIC)

Owner Information

Owner: Julia Latham

Address: 108 Linden Trail
Aberdeen, NC 28315

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>stormwater runoff, spilled liquids, pesticides</u>	<u>incidental</u>
_____	_____
<u>* Injection Water Only GSTP Well System</u>	_____
_____	_____
_____	_____

Additional Information:

PCS ID: W10600051

Signature/Title: Alicia Melton

Date: 2-6-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Deep Creek Baptist Church

Address: 1995 Linden Rd.
Aberdeen, NC 28315

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Transient Non-Community Water System

Owner Information

Owner: Deep Creek Baptist Church

Address: PO Box 3452
Pinehurst, NC 28374

Phone #: 910-692-8904

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Grave plots</u>	<u>50 used</u>
<u>Grave plots</u>	<u>50 available</u>

Additional Information:

Water System ID: 03-63-474

Signature/Title: *Brandon Brown*

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well #21 - MCPU

Address: 345 Foxfire Rd.
Aberdeen, NC 28315

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>270 gal</u>
<u>Bleach</u>	<u>165 gal</u>

Additional Information:

35.179975, -79.512605

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well #12 - MCPU

Address: 5 Diamondhead Dr. South
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Chlorine</u>	<u>165 gal</u>
<u>caustic.</u>	<u>330 gal</u>

Additional Information:

35.175239, -79.502954

Signature/Title: _____

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well #13 - MCPU

Address: 115 Forest Lane
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>270 gal</u>
<u>Bleach</u>	<u>165 gal</u>
<u>sodium polyphosphate</u>	<u>65 gal</u>

Additional Information:

35.179693, -79.502410

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well #16 - MCPU

Address: 200 Diamondhead Dr. South
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Sodium Polyphosphate</u>	<u>65 gal</u>
<u>Caulstic</u>	<u>330 gal</u>
<u>Chlorine</u>	<u>165 gal</u>

Additional Information:

35.169989, -79.499861

Signature/Title: _____

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Antares Dressage

Address: 1380 Linden Rd.
Aberdeen, NC 28315

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other _____

Owner Information

Owner: Sean & Victoria Kelley

Address: PO Box 3490
Pinehurst, NC 28374

Phone #: 910-295-0075

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Nitrates, bacterial, coliform</u>	<u>unknown</u>

Additional Information:

* Horse boarding and training facility

Signature/Title: Alicia D. Melton

Date: 8-14-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Linden Villas Water System

Address: 940 Linden Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Community
Water System

Owner Information

Owner: Linden Villas Homeowner Association

Address: PO Box 83
Pinehurst, NC 28370

Phone #: 910-295-3791

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Chlorine - Disinfectant</u>	<u>TBD</u>
<u>Polyposphosphate - PH</u>	<u>TBD</u>

Additional Information:

PWSID: 03-63-129

Signature/Title: Alicia Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Elliott's on Linden

Address: 905 Linden Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Transient Non-Community Water System

Owner Information

Owner: Madison Commerical Property *% Mark Elliott*

Address: 905 Linden Rd.
Pinehurst, NC 28374

Phone #: 910-215-0775

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Treatment Chemicals</u>	<u>TBD</u>

Additional Information:

PWSID: ~~03-63-102~~
03-63-596

Signature/Title: *Alicia Melton*

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Clarendon Gardens S/D - Well # 1

Address: 30 Quail Run
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Community
Water System

Owner Information

Owner: Aqua NC, Inc. *Joel Mingus*

Address: 202 Mackenan Court
Cary, NC 27511

Phone #: 910-467-8712

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Polyphosphate</u>	<u>TBD</u>
<u>Chlorine</u>	<u>TBD</u>
<u>Caustic</u>	<u>TBD</u>
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

PWSID: 03-63-102

Signature/Title: *Alicia Melton*

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Clarendon Gardens S/D - Well # 2

Address: 10 Red Fox Run
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Community
Water System

Owner Information

Owner: Aqua NC, Inc. *% Joel Mingus*

Address: 202 Mackenan Court
Cary, NC 27511

Phone #: 910-467-8712

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Polyphosphate</u>	<u>TBD</u>
<u>Chlorine</u>	<u>TBD</u>
<u>Caustic</u>	<u>TBD</u>

Additional Information:

PWSID: 03-63-102

Signature/Title: *Alicia O. Melton*

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pinewild Property Owners Assoc.

Address: _____
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Pinewild Property Owners

Address: PO Box 3975
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Gravesites</u>	<u>Approx 20</u>
<u>Est > 100 years old</u>	

Additional Information:

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 20 - MCPU

Address: 10 Talladale Court
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>100 gal</u>
<u>Chlorine</u>	<u>165 gal</u>

Additional Information:

35.190617, -79.503770

Signature/Title: _____

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 19 - MCPU

Address: Near 808 Linden Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Sodium polyphosphate</u>	<u>65 gal</u>
<u>caustic</u>	<u>165 gal</u>
<u>Chlorine</u>	<u>165 gal</u>
<u>Generac generator - Diesel</u>	<u>350 gal</u>

Additional Information:

35.188801, -79.499070

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

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Facility Information

Facility Name: Well # 18 - MCPU

Address: 35 Idlewild Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>330 gal</u>
<u>Chlorine</u>	<u>200 gal</u>

Additional Information:

35.191922, -79.485478

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 2A - MCPU

Address: Behind 175 McKenzie Rd. West
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Chlorine</u>	<u>100 gal</u>
<u>Sodium polyphosphate</u>	<u>65 gal</u>
<u>Caustic</u>	<u>165 gal</u>
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

35.192736, -79.479469

Signature/Title: [Signature]

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Cole Residence

Address: 8337 Main St.
West End, NC 27376

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- ~~Underground Tank~~
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Lanny & Nancy Cole

Address: 8337 Main St.
West End, NC 27376

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Petroleum Release</u>	<u>see incident</u>
<u>- occurred 3/14/13</u>	<u>description</u>
<u>Closed out on 4/16/13</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

Incident #: 29836

UST #: FA-3916

Signature/Title: Alicia Melton

Date: 2-6-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Mac's Food Store 1

Address: 101 Central Park Ave.
Pinehurst, NC 28374

Phone #: 910-215-0575

Email: _____

Website: www.meneilloilandpropane.com

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Gas Station

Owner Information

Owner: McNeill Oil Co. Inc.

Address: P.O. Box 396
Aberdeen, NC 28315-0396

Phone #: 910-944-2329

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Gasoline, Single Wall Tank (steel)</u> <u>Installed 8/18/1995</u>	<u>10,000 gal.</u>
<u>Gasoline, Single Wall Tank (steel)</u> <u>Installed 8/18/1995</u>	<u>15,000 gal.</u>
<u>Motor Oil, Antifreeze</u>	<u>small qty.</u>

Additional Information:

Cert. #: 00-035325 UST8435 Within 500-ft.	Site Inspected on 10-10-18 by John Hasty UST section, FRO. Site is looking into corrective action. 35.204133, -79.482401
---	---

Signature/Title: Alicia O. Melton

Date: 8-14-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Ernest & Krista Duncan

Address: 85 Harlow Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing

Owner Information

Owner: Ernest & Krista Duncan

Address: 85 Harlow Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Stormwater runoff, spilled liquids, pesticides</u>	<u>incidental</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:
 PCSID: WI0600072
 UIC244

Other: UIC
underground injection control

Signature/Title: Alicia O. Melton

Date: 2-6-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Harris Teeter Fuel Center # 80

Address: 280 Ivey Lane
 Taylortown, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Gas Station

Owner Information

Owner: HT Fuel NC, LLC

Address: 701 Crestdale Rd.
 Matthews, NC 28105

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u> 3 Tanks installed on 5/15/2015 </u>	_____
<u> Gasoline, Gas Mix </u>	<u> (1) - 8,000 gallons </u>
<u> Diesel </u>	<u> (1) - 10,000 gallons </u>
<u> Gasoline, Gas Mix </u>	<u> (1) - 20,000 gallons </u>
_____	_____
_____	_____

Additional Information:

Fac. ID: 0-00-040110
 Cert #: 20180327401

35.203988, -79.483540

Signature/Title: Alicia O. Melton

Date: 2/6/2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 15 - MCPU

Address: 600 Beulah Hill Rd. North
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>330 gal</u>
<u>Bleach</u>	<u>165 gal</u>

Additional Information:

35.203484 , -79.481119

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Taylortown Well # 3

Address: End of Burch Dr.
West End, NC 27376

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: Town of Taylortown / Bruce McFadden
David McHugh

Address: PO Box 1274
Pinehurst, NC 28370

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Soda Ash</u>	<u>150 pounds</u>
<u>Chlorine</u>	<u>30 gal</u>

Additional Information:

No generator onsite

Signature/Title: *[Signature]*

Date: 8-7-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 5A - MCPU

Address: Near 5 Muster Branch Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Batteries for backup</u>	<u>2 - 12 volt</u>

Additional Information:

• Blended w/ well # 9 (no chemicals onsite)

• USGS monitoring well onsite 35.192091, -79.464596

Other: Water Supply
Well

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 9 - MCPU

Address: 10 Muster Branch Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply
Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>caustic</u>	<u>2,000 gal</u>
<u>Chlorine</u>	<u>330 gal</u>
<u>sodium polyphosphate</u>	<u>150 gal</u>

Additional Information:

Blended w/ well 5A

35.195890, -79.460485

Signature/Title: _____

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 7 - MCPU

Address: 1 Brookhaven Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>caustic</u>	<u>330 gal</u>
<u>chlorine</u>	<u>165 gal</u>
<u>Sodium polyphosphate</u>	<u>65 gal</u>

Additional Information:

35.198831, -79.450706

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 10 - MCPU

Address: Midland/Airport Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>330 gal</u>
<u>Bleach</u>	<u>165 gal</u>

Additional Information:

35.203482, -79.446851

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 22 - MCPU

Address: 200 Short Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>caustic (50%)</u>	<u>270 gallon</u>
<u>sodium polyphosphate</u>	<u>100 gallon</u>
<u>Bleach</u>	<u>165 gallon</u>
<u>Onsite Generator - Diesel</u>	<u>350 gallon</u>

Additional Information:

35.204917, -79.462177

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Resort of Pinehurst Golf Course Maintenance

Address: 700 Morganton Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution Incident

Owner Information

Owner: Resorts of Pinehurst, Inc.

Address: PO Box 4000
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants: <u>Open incident</u> <hr/> <u>Incident # 22760</u> <hr/> <u>EA-1215</u> <hr/> <u># No further assessment or corrective action needed.</u> <hr/>	Quantities: <u>Reported: 527-00</u> <hr/> <u>Occured: 5-18-00</u> <hr/> <hr/> <hr/>
--	--

Additional Information:

~~Incident #:~~ 25777

PIRE3189

PCSID: 22760

35.1843063 - 79.466348

Signature/Title: Alicia Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pinehurst Hotel Cleaners

Address: 270 McCaskill Rd.
Pinehurst, NC 28374

Phone #: (919) 707-8365

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: First Bank Corp.

Address: PO Box 508
Troy NC 27371

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

<p>Potential Contaminants:</p> <p><u>Occured 12/30/02</u></p> <p><u>Proj Manager: Delonda Alexander</u></p> <p><u>Superfund Site</u></p> <p><u>* Drycleaning Solvent Cleanup Act Site</u></p>	<p>Quantities:</p> <p><u>See incident description for details</u></p>
---	---

Additional Information:

Incident #: 31065 / 31019 / PCSID: 630001
 PIRF8477

WA-24596 DSCA-ID# DG630001
35.200268, -79.469747

Signature/Title: Alicia Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Hughes Supply

Address: 300 McCaskill Rd.
Pinehurst, NC 28374

Phone #: 910-295-5541

Email: prf566@hajoca.com

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Plumbing Company

Owner Information

Owner: Nick Maneros II, Inc

Address: % Nicholas Manero Jr.
110 Etleville Rd., Greenwich, CT 06831

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Drain Cleaner</u>	<u>36 gals</u>

Additional Information:

Signature/Title: [Signature]

Date: 7-25-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Village of Pinehurst Public Works & Central Maintenance

Address: 600 McCaskill Rd.

Pinehurst, NC 28374

Phone #: 910-295-8668

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst

Address: 395 Magnolia Rd.

Pinehurst, NC 28374

Phone #: 910.295.1900

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Maintenance Shop</u>	<u>6 Bays</u>
<u>Diesel - AST</u>	<u>3000 gals</u>
<u>Gasoline - AST</u>	<u>5000 gals</u>
<u>motor oil - 15W40 / 5W20</u>	<u>330 gal / 330 gal</u>
<u>Antifreeze</u>	<u>55 gal</u>
<u>Hydraulic Oil</u>	<u>55 gal</u>
<u>Fertilizer</u>	<u>100 bags max</u>
<u>Washbay w/ 1,000 gal oil separator</u>	<u>pumped quarterly</u>
<u>waste oil</u>	<u>500 gal</u>

Additional Information:

NCG080699 - 11-16-17 to 10-31-18 for Transportation w/ vehicle maintenance / petroleum Bulk / Oil water separator Stormwater discharge
CC
PRF (old) - Fire Foam Pollution (Abandoned well site)

~~NPDES~~
State Stormwater

Signature/Title: Randy w/ Village of Pinehurst

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Century Link

Address: 270 Magnolia Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: United Telephone Company

Address: 1100 Century Link Dr.
Monroe, LA 71203

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Generator</u>	<u>700 gal diesel</u>
<u>Batteries</u>	<u>72</u>

Additional Information:

Signature/Title: [Signature]

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pinehurst Police Department

Address: 420 Magnolia Rd.
 Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst

Address: _____

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u> Generator </u>	<u> 200 gal Diesel </u>
<u> Fertilizer </u>	_____
<u> Ink </u>	_____
<u> Pesticide </u>	_____
_____	_____
_____	_____
_____	_____

Additional Information:

Signature/Title: *[Signature]*

Date: 7-27-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pinehurst Fire Department

Address: 405 Magnolia Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst

Address: 395 Magnolia Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Fertilizer</u>	<u>50 pounds</u>
<u>Pesticides</u>	<u>5 gal</u>

Additional Information:

Possible Tier II Facility

*** Requested Tier II report on 2/13/19 - Carlton Cole, Fire Chief**

*** Not a Tier II Facility ***

Signature/Title: *Brandon B.*

Date: 7-27-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Village of Pinehurst Storage Facility

Address: 430 Magnolia Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst

Address: 395 Magnolia Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Fire Foam</u>	<u>50 gal</u>
<u>Fertilizer</u>	_____
<u>lime</u>	_____
<u>Pesticide</u>	_____
<u>Generator - Natural Gas</u>	_____
_____	_____
_____	_____

Additional Information:

Signature/Title:

Date: 7-27-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Manor Care Nursing Center

Address: 205 Rattlesnake Trail
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- ~~Underground Tank~~
- Wood Processing
- Other: Pollution Incident

Owner Information

Owner: Manor Care of Pinehurst

Address: PO Box 10086
Toledo, OH 43699-0086

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>minor pollution incident</u>	<u>see incident description for details</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

Cert #: 00-023085
 Incident #: 21790
 UST #: FA1118 UST Closed 4/19/95

Signature/Title: Alicia Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Short Stop 77

Address: 200 Rattlesnake Trail
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident
- Gas Station

Owner Information

Owner: Leemoore Oil Company

Address: Bob Hood, Dir. of Operations
P.O. Drawer 9, Sanford NC 27330

Phone #: 919-775-2301

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Incident Reported 3-19-03</u>	<u>See incident description</u>
<u>Closed 10-7-03</u>	<u>for details</u>
<u>Gasoline Gas Mix</u>	<u>(1) 10,000</u>
<u>Installed 1/1/1983</u>	<u>(1) 4,000</u>
	<u>(1) 6,000</u>

Additional Information:

Cert. #: 00-001199
Incident #: 29053
UST #: FA1749

Signature/Title: Alicia Melton

Date: 9-12-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: J. Edgar Property

Address: 95 McIntyre Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Sherry Sheerin

Address: 55 Turtle Point Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants: <u>Petroleum release from residential</u> <u>UST - March 12, 2012</u> <hr/> <u>* No Further Action 7/3/2012</u> <hr/>	Quantities: <u>see incident description</u> <u>for details</u> <hr/> <hr/>
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Additional Information:

Incident #: 29756
UST #: FA3840

Signature/Title: Alicia O. Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Village Fillin Station

Address: 15 McIntyre Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Tommy Kennedy

Address: PO Box 3640
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

<p>Potential Contaminants:</p> <p><u>2 USTs removed</u></p> <p><u>* No further action needed</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Quantities:</p> <p><u>See incident description</u> <u>for more details</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
--	---

Additional Information:

Cert. #: 0-035245

Incident #: 29982

UST #: FA7693 Tanks Closed 9/14/2011

Signature/Title: Alicia O. Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

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Facility Information

Facility Name: Clark-Chevrolet Collision Center

Address: 35 Dundee Rd.
Pinehurst, NC 28374

Phone #: 910-295-6101

Email: jon.evbanks@clarkcadillac.com

Website: clarkcadillac.com

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Troy Clark

Address: PO Box 1890
Pinehurst, NC 28370

Phone #: 910-295-6101

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Motor oil / Trans Fluid</u>	<u>1500 gal</u>
<u>Used oil</u>	<u>200 gal</u>
<u>Batteries</u>	<u>58</u>
<u>Antifreeze</u>	<u>60 gal</u>

Additional Information:

Signature/Title:

Date: 8-7-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Bill Clark Chevrolet

Address: 35 Dundee Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution Incident

Owner Information

Owner: William Clark, Jr.

Address: PO Box 1890
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

<p>Potential Contaminants:</p> <p><u>• Low risk incident</u></p> <p><u>• Site is on low risk site. closure initiative. list and will be closed in the near future.</u></p>	<p>Quantities:</p> <p><u>See incident description for more detail</u></p>
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Additional Information:

Incident #: 5532

UST #: FA143

Signature/Title: Alicia D Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Clark Chevrolet - Cadillac

Address: 35 Dundee Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Clark Chevrolet

Address: PO Box 1890
Pinehurst NC 28370

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Gasoline</u>	<u>(1) 6000</u>
	<u>(1) 5000</u>
	<u>(1) 3000</u>
<u>Diesel</u>	<u>(1) 2,000</u>

Additional Information:

Cert #: 00-020665
UST4754

Signature/Title: *Alicia Melton*

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Team Express Home Buyers

Address: 275 Dundee Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Mike Pratt, Team Express Home Buyers

Address: 1916 Longleaf Road
Pinehurst, NC 28387

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

<p>Potential Contaminants:</p> <p><u>275 gal residential oil tank removed</u></p> <p><u>* No further action needed</u></p> <p>_____</p> <p>_____</p> <p>_____</p>	<p>Quantities:</p> <p><u>See incident description for details.</u></p> <p>_____</p> <p>_____</p> <p>_____</p>
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Additional Information:

Incident #: 29122

UST#: FA2854

Signature/Title: Alicia O Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pinehurst Middle School

Address: 100 Dundee Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Pinehurst Middle School % Dell Wahala

Address: Kelly Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>- Diesel release</u>	<u>see incident</u>
<u>- 10,000 gal tank removed</u>	<u>description for</u>
_____	<u>details</u>
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

Incident #: 7788
 UST#: FA316

Signature/Title: Alicia Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Community Presbyterian Church

Address: 50 Fields Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Community Presbyterian Church

Address: % Jack Binning
PO Box 1449, Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>• Notice of no further action issued for petroleum release</u>	<u>See incident description for details</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:
Incident #: 29025
UST#: FA1711

Signature/Title: Alicia O Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

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Facility Information

Facility Name: Bicket Property

Address: 225 Midland Rd.
Pinehurst, NC 28374

Phone #: 910-295-4339

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Greg Bicket

Address: 225 Midland Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants: <u>Occurred: 8/23/2011</u> <u>Closed: 10/4/2011</u>	Quantities: <u>See incident description</u> <u>for details</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:
 Incident #: 29722
 UST#: FA3790

Signature/Title: Alicia Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

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Facility Information

Facility Name: Pinehurst EDB - Well 1&9

Address: 700 Morganton Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: Resorts of Pinehurst, Inc.

Address: % George McElroy Associates
PO Box 565048, Dallas, TX 75356

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

<p>Potential Contaminants:</p> <p><u>PIRF: Incident #: 19354</u></p> <p><u>(RAST)</u></p> <p><u>FA-19354</u></p> <p><u>OnGoing Incident</u></p>	<p>Quantities:</p> <p><u>EDB Contamination</u> <u>from unknown</u> <u>source</u></p> <p><u>Traces of MTBE</u></p>
---	---

Additional Information:

Object: 23623
 PCSID: 19354
 PIRF1035
35.195487, -79.462204 (RAST)

Signature/Title: A. Melton

Date: 2-14-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Moore Regional Hospital
 Address: 155 Memorial Drive
Pinehurst, NC 28374
 Phone #: _____
 Email: _____
 Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution Incident

Owner Information

Owner: FirstHealth of the Carolinas, Inc.
 Address: PO Box 3000
Pinehurst, NC 28374
 Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Disinfectants, Pharmaceuticals, Waste</u>	<u>Unknown</u>
<u>Occurred Jan 2011</u>	<u>Removal of</u>
<u>- NO incident ID (FA-3758</u>	<u>20,000 gal heating</u>
<u>* NO further action required</u>	<u>oil tank</u>
<u>(2) Tank installed - 9/14/2010</u>	<u>30,000 gal fuel oil</u>
<u>- 9/14/2010</u>	<u>30,000 gal fuel oil</u>
<u>(Both double wall)</u>	

Additional Information:
 Fac ID # 00-022127
35.20661, -79.45548

Signature/Title: Alicia Melton

Date: 2-13-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Pinehurst Surgical Clinic

Address: 165 Page Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Pollution
Incident

Owner Information

Owner: _____

Address: _____

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Reported 1/15/93</u>	<u>see incident description</u>
<u>Closed out 1/21/1997</u>	<u>for details</u>

Additional Information:

Incident#: 9678

UST#: FA474

Signature/Title: Alicia Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 17 - MCPU

Address: 146 Sakonnet Trail
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Caustic</u>	<u>165 gallon</u>
<u>Chlorine</u>	<u>110 gallon</u>

Additional Information:

35.212485, -79.450303

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: The Pantry

Address: 4410 NC 5 Hwy- 345 Beulah Hill Rd. S.
Pinehurst, NC 28374

Phone #: 910-295-4567

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Gas Station

Owner Information

Owner: Li'l Thrift Food Mart, Inc.

Address: 1007 Arsenal Ave.
Fayetteville, NC 28305

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Gasoline, Gas mix</u>	<u>(3) 10,000 Gal</u>
<u>-installed 5/5/1986</u>	<u>tanks</u>

Additional Information:

Cont#: 00-020905

Signature/Title: *Alicia Melton*

Date: 2-6-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Village of Pinehurst Harness Track

Address: 200 Beulah Rd.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst

Address: 305 Magnolia Rd.
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Desial</u>	<u>500gal</u>
<u>Fertilizer</u>	<u>Based soil test</u>
<u>Lime</u>	
<u>Pesticide</u>	<u>Spray</u>

Additional Information:

Signature/Title:

Date: 8-7-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 11 - MCPU

Address: 605 Monticello Dr.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Batteries</u>	<u>2 - 12 volt</u>

Additional Information:

Blended w/ Well 23

35.175656, -79.469097

Signature/Title: _____

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Well # 23 - MCPU

Address: 675 Monticello Dr.
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: Water Supply Well

Owner Information

Owner: County of Moore Government

Address: PO Box 907
Carthage, NC 28327

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Sodium</u>	<u>150</u>
<u>Bleach</u>	<u>330 gal</u>
<u>Caustic</u>	<u>2000 gal</u>
<u>onsite generator - Diesel</u>	<u>300 gallon</u>

Additional Information:

Blended w/ Well 11

35.172713, -79.463982

Signature/Title:

Date: 7-24-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



#22

Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Camelot Playground
 Address: 90 Woods Rd.
Pinehurst, NC 28374
 Phone #: _____
 Email: _____
 Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst
 Address: _____
 Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Fertilizer</u>	<u>Based off Soil</u>
<u>lime</u>	<u>test</u>
<u>Pesticides</u>	<u>Spot</u>
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

35.204385, -79.464
6116

Signature/Title: Brandon B.

Date: 7-27-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Rassie Wicker Park
 Address: 10 Rassie Wicker Dr.
Pinehurst NC. 28374
 Phone #: _____
 Email: _____
 Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Village of Pinehurst
 Address: _____
 Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Fertilizers</u>	<u>Seasonal</u>
<u>Pesticides</u>	_____
<u>Lime</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:

35.205928, -79.468453

Signature/Title: Alicia Melton

Date: 9/12/18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Reynolds Landscaping
 Address: 15 Carter Ln
Pinehurst NC 28374
 Phone #: 910-638-7379
 Email: _____
 Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Harris Blake, LLC
 Address: PO Box 4266
Pinehurst, NC 28374
 Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
<u>Paint</u>	<u>Small qty</u>
<u>Chemicals</u>	<u>Small qty</u>
<u>Small Equipment Repair</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

Additional Information:
Behind Pinehurst Fire dept #2
35.172926, -79.469506

Signature/Title: Alicia Melton

Date: 8-7-18

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Barrett Property

Address: 8351 Main St. - Taylortown

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing
- Other: _____

Owner Information

Owner: Wysses Barrett, Jr.

Address: PO Box 1503
Pinehurst, NC 28374

Phone #: _____

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

<p>Potential Contaminants:</p> <p><u>PIRF: Incident# 90193</u></p> <p><u>12-19-2015 FA-88378</u></p> <p><u>(RAST)</u></p> <p><u>55 gallon oil drum leaking and abandoned</u></p>	<p>Quantities:</p> <p><u>see incident description for details</u></p>
--	---

Additional Information:

35.205798, -79.485544

Signature/Title: Alicia Melton

Date: 2-13-19

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Site Evaluation Form for Potential Contaminant Sources

Please fill out the following survey to assist with the completion of our wellhead protection program development. This information will be used to develop management strategies for the protection of our drinking water supply. Please list any state permits issued to your entity on the reverse side of this document.

Facility Information

Facility Name: Razooks Building

Address: 105 Chinguapin Rd
Pinehurst, NC 28374

Phone #: _____

Email: _____

Website: _____

Please check all boxes that describe the use of the property:

- Above Ground Tank
- Agriculture Operations
- Animal Boarding
- Auto Repair/Sale
- Carwash
- Cell Tower
- Cemetery
- Chemical Storage
- Demolition Site
- Fertilizer Application
- Food Processing
- Funeral Home
- Golf Course
- Hardware Store
- Laundromat/Dry Cleaner
- Lumber/Parts Store
- Machine Shop/Repairs
- Maintenance Shop
- Manufacturing
- Medical Facility
- Metal Fabrication
- Motor Pool
- Pesticide Application
- Print/Sign Shop
- Recreation Facility
- Salvage Yard
- Septic Tank
- Storage
- Tier II Facility
- Underground Tank
- Wood Processing

Owner Information

Owner: Pineville Corporation

Address: 155 New York Ave., Suite 100
Southern Pines, NC 28387

Phone #: 910-695-1909

Supply/Chemical/Application Inventory

(please attach any additional information as necessary for a complete listing)

Potential Contaminants:	Quantities:
- <u>Closed out: 8-10-07</u>	<u>see incident description</u>
<u>(Reported: 6-30-07)</u>	<u>for details</u>
- <u>Incident ID: 29460</u>	
<u>PA-3331</u>	

Additional Information:

Petroleum release

35.1953, -79.47

Other: Pollution Incident

Signature/Title: Alicia Melton

Date: 2-14-2019

For Questions please contact Brandon Brown, MCPU Water Quality Supervisor, at 910-947-6315 or Alicia Melton, NCRWA, at 919-812-2008.



Glossary of Acronyms and Abbreviations

EPA-Environmental Protection Agency
ERP – Emergency Response Plan
LWPPP – Local Wellhead Protection Program Plan
EAAB – Environmental Affairs Advisory Board
DEQ-Division of Environmental Quality
UST-Underground Storage Tank
AST-Above ground Storage Tank
VOC-Volatile Organic Compound
SOC-Synthetic 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
NCRWA – North Carolina Rural Water Association
ORC-Operator in Responsible Charge
WQCS-Water Quality Collection System
SWAP-Source Water Assessment and Protection
SWDA-Solid Waste Disposal Act
DWR-Division of Water Resources
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
FRO – Fayetteville Regional Office

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

EPA Envirofacts Warehouse: <http://www3.epa.gov/enviro/>

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

Moore County website: <https://www.moorecountync.gov/>

<http://www.moorealive.com/>

Source Water Assessment Report for MCPU-Pinehurst (2017, April 21). Retrieved from:

https://www.ncwater.org/files/swap/SWAP_Reports/0363108_4_21_2017_85_11.pdf

2018 MCPU-Pinehurst Local Water Supply Plan, North Carolina Division of Water Resources:

https://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/report.php?pwdid=03-63-108&year=2018

North Carolina Department of Environmental Quality, Division of Water Resources, UST Section, Ground Water Protection Section, Fayetteville Regional Office Files, 225 Green Street, Suite 714, Fayetteville, North Carolina.

MCPU-Pinehurst 2018 Water Quality Report:

https://www.moorecountync.gov/images/departments/publicworks/ccr/2018/CCR_Pinehurst_2018.pdf

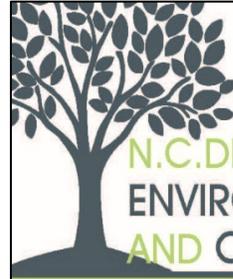
http://www.carolana.com/NC/Counties/moore_county_nc.html

https://en.wikipedia.org/wiki/Moore_County,_North_Carolina

<https://www.ncpedia.org/geography/moore>

N.C. DIVISION OF ENVIRONMENTAL ASSISTANCE AND CUSTOMER SERVICE

Customer service through technical, compliance and financial assistance



N.C. DIVISION OF ENVIRONMENTAL ASSISTANCE AND CUSTOMER SERVICE

The N.C. Division of Environmental Assistance and Customer Service (DEACS) assists citizens, businesses, local governments and communities statewide on a diverse range of environmental issues.

DEACS technical services:

- **Toll-free hotline** with experienced staff to answer your environmental questions
- **On-site assessments** and training for waste, water and energy management
- **Compliance** information and tips
- Environmental **recognition** programs
- **Grants** for recycling businesses and local governments
- **Recycling** infrastructure support
- Statewide points of contact for **permit information** and **environmental assistance**



Within the N.C. Department of Environment and Natural Resources, DEACS works to protect and improve North Carolina's environment while supporting a strong economy.

Environmental Assistance Hotline

1-877-623-6748 (toll-free)

eac@ncdenr.gov

ncenvironmentalassistance.org



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MCPU – Pinehurst Water Shortage Response Plan
Water Shortage Response Plan
Moore County Public Utilities (Pinehurst), North Carolina

The procedures herein are written to reduce potable water demand and supplement existing drinking water supplies whenever existing water supply sources are inadequate to meet current demands for potable water.

I. Authorization

The Moore County Manager shall enact the following water shortage response provisions whenever the trigger conditions outlined in are met. In his absence, the Moore County Public Works Director will assume this role.

Wayne Vest
Manager Moore County
Phone: (910) 947-4001
E-mail: wvest@moorecountync.gov

Randy Gould
Director of Moore County Public Works
Moore County Public Utilities (Pinehurst)
Phone: (910) 947-4300
E-mail: rgould@moorecountync.gov

II. Notification

The following notification methods will be used to inform water system employees and customers of a water shortage declaration: employee e-mail announcements, notices at municipal buildings and, notices in water bills. Required water shortage response measures will be communicated through the Moore County Public Information Officer for distribution to all media outlets such as local newspapers, Public Service Announcement announcements on local radio and cable stations and on the Moore County’s website <http://www.moorecountync.gov/>. Declaration of emergency water restrictions or water rationing will be communicated to all customers by telephone via reverse E911.

III. Levels of Response

Five levels of water shortage response are outlined in the table below with a detailed description of each response level and corresponding water conservation measures

Stage	Response	Description
1	Voluntary Conservation	Water users are encouraged to reduce their water use and improve water use efficiency; however, no penalties apply for noncompliance. Water supply conditions indicate a potential for shortage.
2	Moderate Mandatory Conservation	Water users must abide required water use reduction and efficiency measures; penalties apply for noncompliance. Water supply conditions are significantly lower than the normal seasonal levels and water shortage conditions are expected to persist.
3	Severe Mandatory Conservation	Same as Stage 2
4	Emergency Mandatory Conservation	Water supply conditions are substantially diminished and pose an imminent threat to human health or environmental integrity.
5	Water Rationing	Water supply conditions are substantially diminished and remaining supplies must be allocated to preserve human health and environmental integrity.

All water users in Stage 1 will be encouraged to reduce their normal water use by 20%. Customer education and outreach programs will encourage water conservation and efficiency measures including:

- a. Check plumbing, faucets and toilets for leaks, and, if necessary, repair.
- b. Store drinking water in the refrigerator to avoid trying to run it cool at the tap.
- c. Use shower for bathing purposes or reduce the depth of water used for baths. Limit showers to five (5) minutes where possible.
- d. Refrain from running faucets while shaving, rinsing dishes or brushing teeth.
- e. Install water flow restrictive devices in faucets and showerheads.
- f. Install water-saving devices such as plastic bottles or commercial units in toilet tanks of older model toilets or retrofit older model toilets to low flow type.
- g. Review water uses and where feasible install recycle systems, particularly for commercial and industrial customers.
- h. Limit the use of clothes washers and dishwashers, and when used, operate fully loaded.
- i. Reduce the flushing of toilets to the minimum whenever practical.
- j. Limit lawn watering to only when grass shows signs of withering and apply water as slow as possible to achieve deep penetration to encourage root growth; prevent water waste, runoff and watering impervious surfaces. Irrigate landscapes a maximum of one inch per week.
- k. Limit watering shrubbery to the minimum using spring-loaded nozzles on garden hoses only.
- l. Limit car washing to the minimum using spring-loaded nozzles on garden hoses.
- m. Limit wash downs of outside areas such as sidewalks, patios, driveways, or other similar surfaces unless for health or safety reasons.
- n. Limit hours of operation of water-cooled air conditioners where possible.
- o. Use biodegradable disposable dishes and utensils, both for residential and commercial purposes, where feasible.

All water users in Stage 2 are expected to reduce their water use by 30% in comparison to their previous month's water bill. All industrial, manufacturing and commercial enterprises shall reduce consumption with a goal of at least 30%. Such enterprises shall document the specific efforts they have made to reduce consumption. In addition to continuing to encourage all voluntary reduction actions, the level of the conservation effort shall be increased to require the following mandatory measures. No person shall:

- a. Irrigate lawns, grass, trees, shrubbery, flowers, golf greens or vegetable gardens except between the hours of 5:00 p.m. and 12:00am, twice weekly with even number addresses allowed to irrigate on Mondays and Thursdays; and odd number addresses allowed to irrigate on Tuesdays and Fridays. Total irrigation is limited to a half inch per week.
- b. Introduce water into wading pools or swimming pools except to the extent necessary to replenish losses due to evaporation or spillage, and to maintain operation of chemical feed equipment.
- c. Wash down impervious surfaces such as sidewalks, patios, driveways, or other similar surfaces unless for health or safety reasons.
- d. Introduce water into any decorative fountain, pool or pond except where the water is recycled.
- e. Serve water in a restaurant or similar establishment, except upon request.
- f. Use water for any unnecessary purpose or intentionally waste water.
- g. Wash the exterior of a motor vehicle except for commercial washing or where a private well system is used.
- h. Use water for testing and training purposes (e.g. fire protection).

All water users in Stage 3- must reduce water use by 40% compared to their previous month's water bill and non-essential uses of water are banned except to protect public health and safety. All industrial, manufacturing and commercial enterprises shall reduce consumption with a goal of reduction of at least forty (40%) percent. Such enterprises shall document the specific efforts they have made to reduce consumption. Additionally, a drought surcharge of 1.5 times the normal water rate applies. In addition to continuing to encourage observing the conservation measures in Stage 1 and required to continue observing the mandatory requirements in Stage 2 the level of the conservation effort shall increase to require the following additional mandatory measures. No person shall:

- a. Use water to irrigate any lawn, grass, trees, or golf greens beyond the minimum amount necessary for survival.
- b. Use water to irrigate any vegetable garden or ornamental shrubs beyond the minimum amount necessary for survival.
- c. Use water to fill any wading pool or swimming pool or replenish any filled pool.
- d. Use water for nonessential commercial or public use.
- e. Operate water-cooled air conditioners or other equipment that do not recycle cooling water, except when health and safety are adversely affected.

All water users in Stage 4 must reduce water use by 50% compared to their previous month's water bill and all non-essential uses of water are banned except to protect public health and safety. Additionally, a drought surcharge of 2 times the normal water rate applies. In addition to continuing to encourage observing the conservation measures in Stage 1 and required to continue

observing the mandatory requirements in Stage 2 and 3 the level of the conservation effort shall increase to require the following additional mandatory measure. No person shall:

- a. Use water outside a structure except in an emergency involving fire.
 - b. Operate evaporative air conditioning units which recycle water except during the operating hours of the business.
 - c. Use any swimming pool or wading pool.
 - d. Wash any motor vehicle, including commercial washing unless a private well is used.
- In addition to the conservation measures enumerated above, customers shall use plates, glasses, cups and eating utensils that are disposable and biodegradable.
- e. Use plates, glasses, cups and eating utensils that are disposable and biodegradable.

The goal of Stage 5, is to provide drinking water to protect public health (e.g. residences, residential health care facilities and correctional facilities). Customers shall be encouraged to observe the conservation measures in Stage 1 and required to continue observing the mandatory requirements of Stages 2, 3 and 4. All water users are permitted to use water at the minimum required for public health protection. Drought surcharges increase to 5 times the normal water rate.

The level of the conservation effort shall increase to require the following mandatory measures:

- a. Fire protection will be maintained, but where possible, tank trucks shall use raw water.
- b. All industrial uses of water shall be prohibited.
- c. All other uses of water will be limited to those necessary to meet minimum health and safety needs of the customers as determined by the Moore County Manager upon consultation with the Moore County Public Works Director in light of conditions present.

Pickup locations for distributing potable water will be announced according to Emergency Response Plan. Failure to act in accordance therewith or use of water in any manner or attempt to evade or avoid water rationing restrictions, shall be unlawful.

IV. Triggers

1. **Ground water** - Moore County Public Utilities (Pinehurst)'s primary water source is groundwater from the Middendorf Aquifer. The following measurements of aquifer static water levels, in conjunction with the NC Drought Monitor drought classification, the US Seasonal Drought Outlook for the Moore County area of North Carolina and USGS Streamflow conditions of Moore County area streams, creeks and rivers and local precipitation amounts trigger entry into corresponding water conservation stages.

Stage	Water Conservation Triggers
1	1. Static Water Levels greater than 53 feet below casing level 2. NC Drought Monitor drought classification = None, D0, D1 3. US Seasonal Drought Outlook classification = None, Drought Development Likely 4. Drowning Creek USGS Streamflow conditions = Moderate hydrologic drought 5. Local precipitation amounts below normal for 3 consecutive months.
2	1. Static Water Levels greater than 55 feet below casing level 2. NC Drought Monitor drought classification = D2 3. US Seasonal Drought Outlook classification = Drought ongoing, drought to persist or intensify. 4. Drowning Creek USGS Streamflow conditions = Severe hydrologic drought 5. Local precipitation amounts below normal for 6 consecutive months.
3	1. Static Water Levels greater than 57 feet below casing level 2. NC Drought Monitor drought classification = D3 3. US Seasonal Drought Outlook classification = Drought ongoing, drought to persist or intensify. 4. Drowning Creek USGS Streamflow conditions = Extreme hydrologic drought 5. Local precipitation amounts below normal for 9 consecutive months.
4	1. Static Water Levels greater than 59 feet below casing level 2. NC Drought Monitor drought classification = D4 3. US Seasonal Drought Outlook classification = Drought ongoing, drought to persist or intensify. 4. Drowning Creek USGS Streamflow conditions = Extreme hydrologic drought 5. Local precipitation amounts below normal for 12 consecutive months.
5	1. Static Water Levels greater than 61 feet below casing level 2. NC Drought Monitor drought classification = D4 3. US Seasonal Drought Outlook classification = Drought ongoing, drought to persist 4. Drowning Creek USGS Streamflow conditions = Extreme hydrologic drought 5. Local precipitation amounts below normal for 15 consecutive months.

2. **Purchase Water** - Moore County Public Utilities (Pinehurst)'s purchase water sources are as follows.

- a. East Moore Water District
- b. Town of Southern Pines
- c. Town of Aberdeen

When a purchase water purveyor declares a water shortage Moore County Public Utilities (Pinehurst) will reduce the amount of water purchased from each purveyor according to the purveyor's designated conservation stage requirements.

During this time, Moore County Public Utilities (Pinehurst) Director of Public Works and Utility Operations Manager will closely monitor the Middendorf Aquifer and all purchase water sources and follow the required triggers.

When water shortage conditions have abated and the situation is returning to normal, water conservation measures employed during each phase should be decreased in reverse order of implementation. Permanent measures directed toward long-term monitoring and conservation should be implemented or continued so that the community will be in a better position to prevent shortages and respond to recurring water shortage conditions.

V. Enforcement

The provisions of the Water Shortage Response Plan will be enforced by the Moore County Public Works Department personnel and local law enforcement. Violators may be reported to the County’s phone line. Citations are assessed according to the following schedule depending on the number of prior violations and Stage of water shortage response.

Water Shortage Level	First Violation	Second Violation	Third Violation
Voluntary Conservation Stage 1	N/A	N/A	N/A
Moderate and Severe Mandatory Conservation (Stages 2 and 3)	Warning	\$250	Discontinuation of Service
Emergency Mandatory Conservation Stage 4	\$250	Discontinuation of Service	Discontinuation of Service
Water Rationing Stage 5	\$500	Discontinuation of Service	Discontinuation of Service

Drought surcharge rates are enforced in Stages 3, 4 and 5.

VI. Public Comment

Customers will have multiple opportunities to comment on the provisions of the water shortage response plan. First, a draft plan will be available at Moore County Offices for customers to view. A notice will be included in all customer water bills notifying them of such. Also, notice of the draft plan will be published in *the local newspaper (The Pilot)*. Additionally, notices of all subsequent revisions to the draft plan will be published at least 30 days prior to an adoption vote by Moore County Commissioners.

VII. Variance Protocols

Applications for water use variance requests are available from the Moore County Offices. All applications must be submitted to the County Office for review by the Moore County Manager or his designee. A decision to approve or deny individual variance requests will be determined within two weeks of submittal after careful consideration of the following criteria: impact on water demand, expected duration, alternative source options, social and economic importance, purpose (i.e. necessary use of water) and the prevention of structural damage.

VIII. Effectiveness

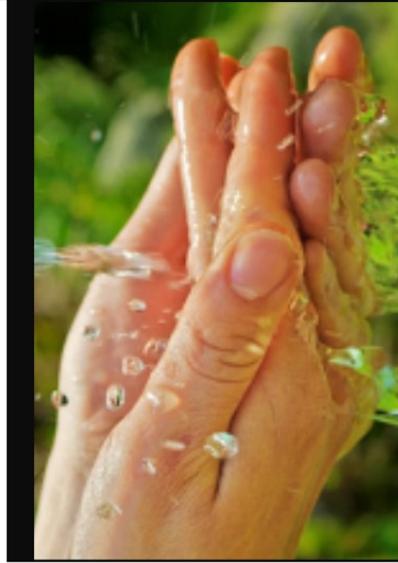
The effectiveness of the Moore County Public Utilities (Pinehurst) water shortage response plan will be determined by comparing the stated water conservation goals with observed water use reduction data. Other factors to be considered include frequency of plan activation, any problem periods without activation, total number of violation citations, desired reductions attained and evaluation of demand reductions compared to the previous year's seasonal data.

IX. Revision

The water shortage response plan will be reviewed and revised as needed to adapt to new circumstances affecting water supply and demand, following implementation of emergency restrictions, and at a minimum of every five years in conjunction with the updating of the Moore County Local Water Supply Plan. Further, a water shortage response planning work group will review procedures following each emergency or response stage to recommend any necessary improvements of the plan to Moore County Board of Commissioners. The Moore County Public Works Director is responsible for initiating all subsequent revisions.



Protecting Your Source Water How Can You Help?



Local Wellhead Protection Program Plan

Moore County Public Utilities—Pinehurst

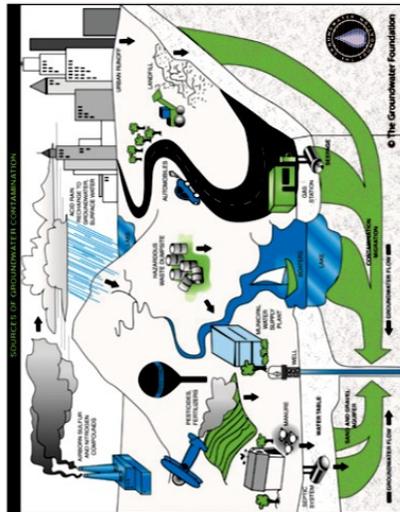
P.O. Box 1927
Carthage, NC 28327
PH: (910) 947-4300
FX: (910) 947-1992

MAINTAIN YOUR SEPTIC SYSTEM

Groundwater contaminated by poorly or untreated household wastewater poses dangers to drinking water and to the environment. Septic system maintenance comes down to four 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.

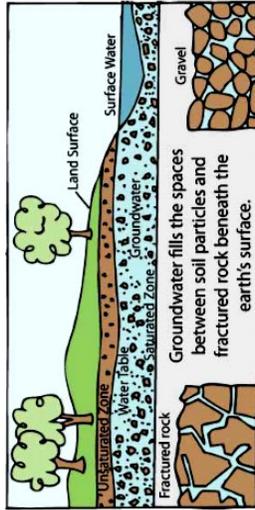


BE AWARE OF THE DANGERS OF GREASE

Grease sticks to the insides of drain pipes and sewer pipes, restricting water flow. As more and more fats, oils and grease accumulate, the 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. Please be proactive in fighting grease., don't pour it down the drain!!!

WHAT IS GROUNDWATER?

Groundwater is the water found underground in the cracks and spaces in soil, sand and rock. It is stored in and moves slowly through geologic formations of soil, sand and rocks called aquifers. Moore County Public Utilities - Pinehurst uses groundwater it pumps from the ground using seventeen (17) wells located in our service area.



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THE WELLHEAD PROTECTION PROGRAM

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

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 other hazardous chemicals on the ground or down the drain. Take them to the local landfill 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 needed.
- Have any unused wells on your property properly abandoned.
- Minimize your use of pesticides and fertilizers, storing them properly.
- 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.



Many of our daily activities can pollute our surface water and groundwater. Sources of groundwater pollution include:

- Used oil, paint thinner, gasoline and other chemicals poured on the ground.
- Leaking fuel storage tanks (aboveground and underground).
- Overuse of pesticides and fertilizers on lawns, golf courses and agriculture fields.
- Chemical spills at businesses, farms and along highways.
- Illegal dumps and poorly managed landfills.
- Failing septic tanks.
- Leaking sewer lines.
- Improperly abandoned wells.
- Unlined waste pits, ponds and lagoons.
- Farm machinery repair shops/ Auto-mobile repair shops
- Cemeteries/Funeral Homes
- Golf Courses
- Animal Feedlot/Animal Waste Storage

LOCAL WELLHEAD PROTECTION PROGRAM PLAN

Managing Agricultural Fertilizer Application



Moore County Public Utilities - Pinehurst

MANAGING FERTILIZER USE NEAR DRINKING WATER SUPPLIES

If improperly managed, elements of fertilizer can move into surface water 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). Crop producers need to match nitrogen applications to crop uptake to minimize nitrate leaching and maximize efficiency. Due to health risk, the EPA set a drinking water maximum contaminant 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 minimize nutrient losses from agricultural land occurring by edge-of-field runoff and by leaching from the root zone. This can be achieved by developing a comprehensive nutrient management plan and using only the types and amounts of nutrients necessary to produce the crop, applying nutrients at the 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 phosphorus 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 conditions.

APPLICATION PRACTICES

- Apply product during maximum crop uptake periods.
- Inspect and calibrate equipment annually to ensure accurate application amounts.
- Correctly place fertilizer in the root zone to enhance plant nutrient uptake which minimalizes loss.
- Manage irrigation water due to the large amount of water applied. Sprinklers, precision applicators, surges and drips can apply water uniformly.

STORAGE

- Follow label directions
- Mix, handle and store away from wellhead area
- Recover and reuse or dispose of spills



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

- Maintain fuel dispensing areas using dry methods such as sweeping or use rags and 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 should be kept on hand.
- Fit fuel dispensing nozzles with automatic shutoffs.
- 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.

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 stormwater quality.
- 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 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 availability.
- All employees should be trained (upon hiring and annually thereafter) on the spill response plan and proper disposal of waste.
- 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.
- Dispose of waste oil properly and recycle used oil filters (NC House Bill 1465 prohibits the disposal of oil filters in landfills).

LOCAL WELLHEAD PROTECTION PROGRAM PLAN

Gas/Service Station Best Management Practices



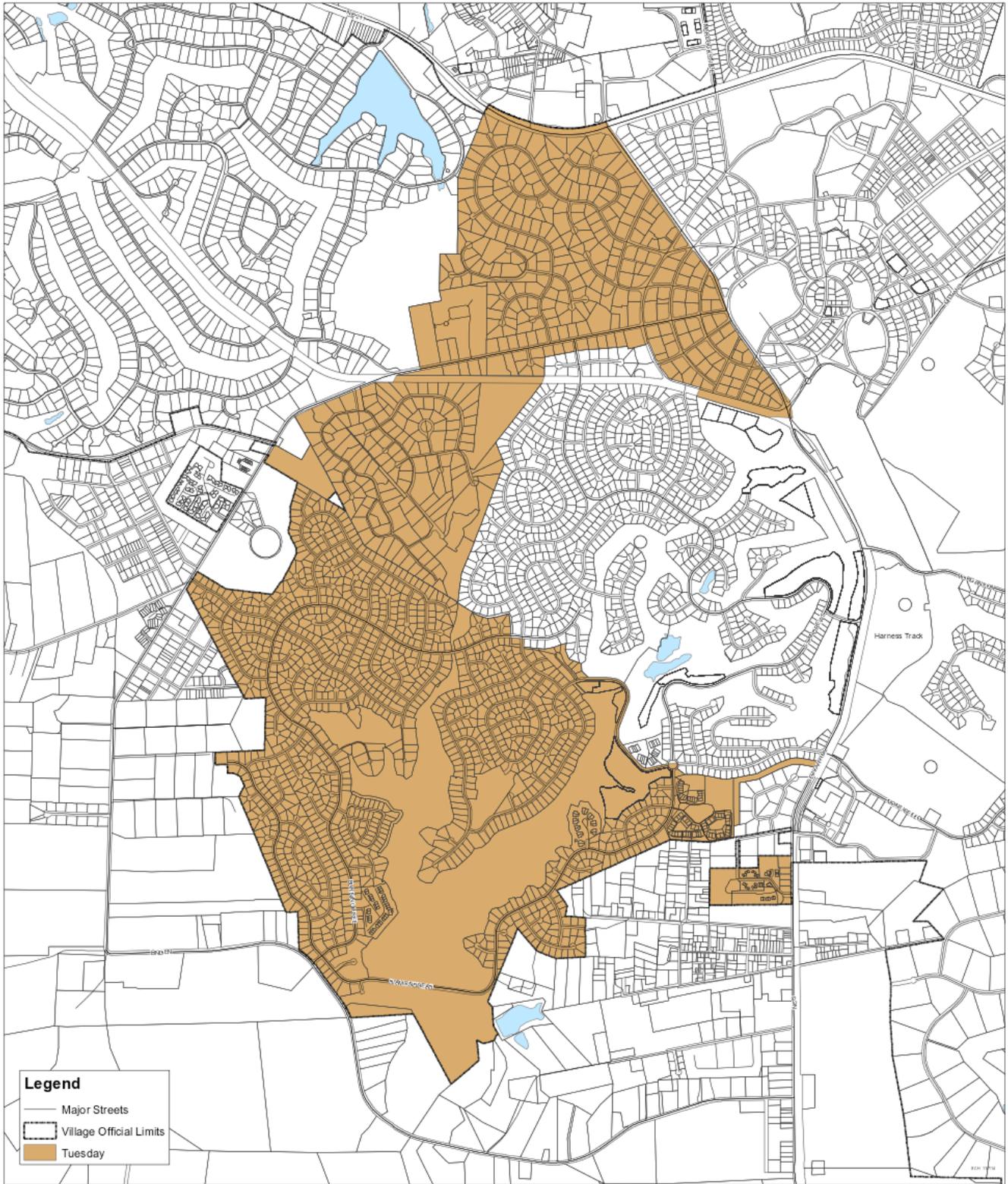
Moore County Public Utilities - Pinehurst

Village of Pinehurst Waste Collection Jurisdiction Maps



2015 SOLID WASTE COLLECTION MAP MONDAY





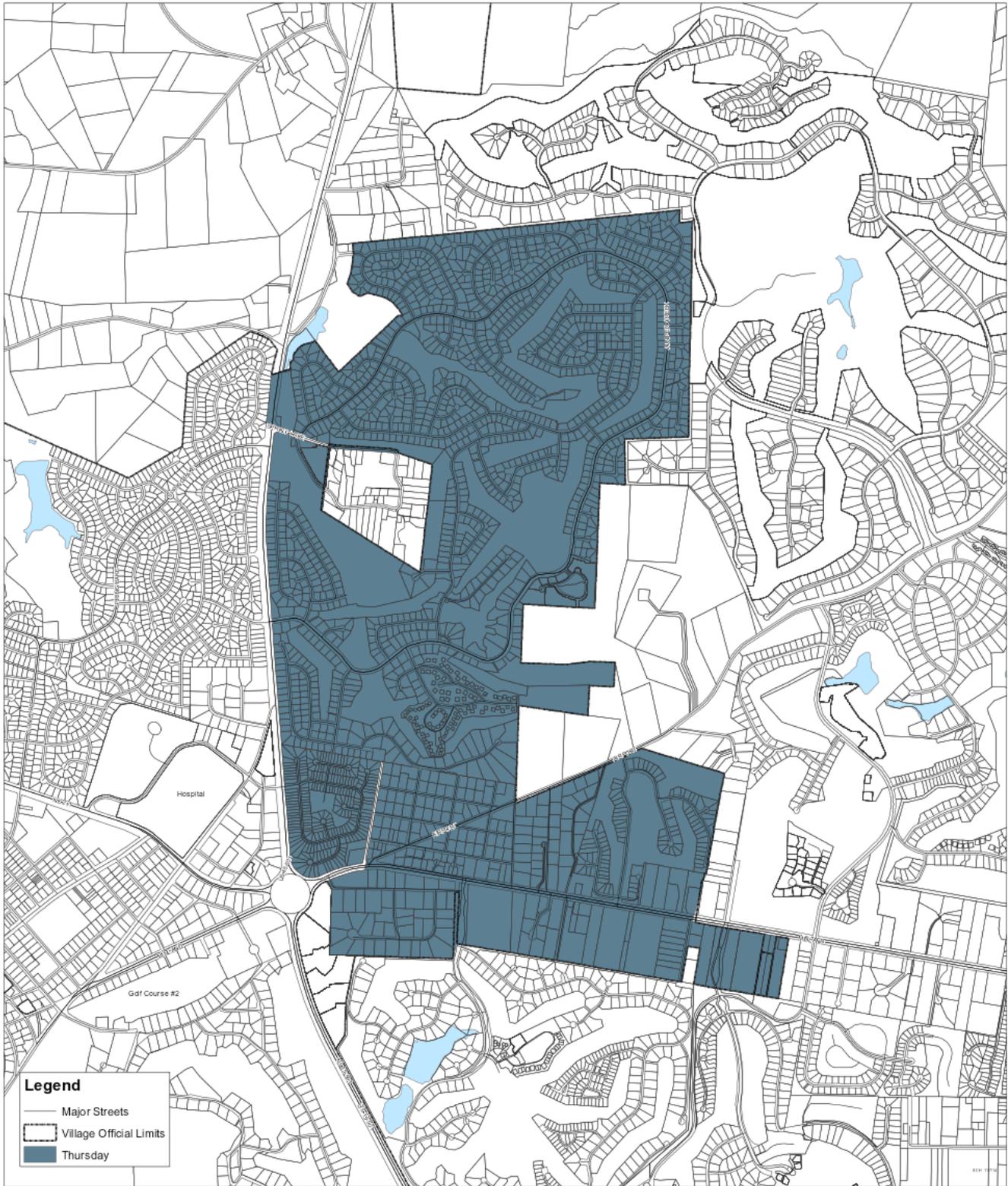
2015 SOLID WASTE COLLECTION MAP TUESDAY





2015 SOLID WASTE COLLECTION MAP WEDNESDAY





2015 SOLID WASTE COLLECTION MAP THURSDAY



Public Notification Example

Public Notice

Please publish the following notice in the *The Pilot Newspaper* once on [DATE]. Once published, please forward a copy of the affidavit to Mr. Randy Gould at Moore County Public Utilities, P.O. Box 1927, Carthage, NC 28327.

Moore County Public Utilities – Pinehurst System
Local Wellhead Protection Program Plan Notice

Moore County Public Utilities, with assistance from the North Carolina Rural Water Association, is in the process of developing a Local Wellhead Protection Program Plan for MCPU – Pinehurst system. 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 wells, possibly contaminating the system’s drinking water supply.

MCPU is asking for your assistance in developing this program. A draft copy of the Wellhead Protection Plan will be available for review and comment at the Moore County Public Utilities office located at 5227 US Hwy 15-501, Carthage. You are invited to review the program, and submit any comments or suggestions to Moore County Public Utilities. 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 Water Quality Supervisor at (910) 947-6315.

Well Construction Records

North Carolina - Department of Environment, Health, and Natural Resources
 Division of Environmental Management - Groundwater Section
 P.O. Box 29578 - Raleigh, N.C. 27626-0578
 Phone (919) 733-3221

FOR OFFICE USE ONLY		
QUAD. NO.	SERIAL NO.	
Lat.	Long.	RO
Minor Basin		
Basin Code		
Header Ent.		GW-1 Ent.

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR: CAROLINA WELL & PUMPA CO., INC. STATE WELL CONSTRUCTION
 DRILLER REGISTRATION NUMBER: 136 PERMIT NUMBER: 238 Well 2A

1. WELL LOCATION: (Show sketch of the location below)
 Nearest Town: Pinhurst County: Moore

	DEPTH	DRILLING LOG
(Road, Community, or Subdivision and Lot No.)	From To	Formation Description
2. OWNER <u>MOWASA</u>	0 - 2	Topsoil
ADDRESS <u>PO Box 726</u>	2 - 12	Sandy Clay
(Street or Route No.)	12 - 28	Fine Sand
<u>Carthage</u> <u>NC</u> <u>28327</u>	28 - 46	sandy clay
City or Town State Zip Code	47 - 75	clay
3. DATE DRILLED <u>2/15/98</u> USE OF WELL <u>Town</u>	75 - 98	sandy clay
4. TOTAL DEPTH <u>155</u>	98 - 155	sand
5. CUTTINGS COLLECTED YES <input type="checkbox"/> NO <input type="checkbox"/>	155 - 172	sandy clay
6. DOES WELL REPLACE EXISTING WELL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	172 - 209	clay
7. STATIC WATER LEVEL Below Top of Casing: <u>58 Ft.</u> (Use "+" if Above Top of Casing)		
8. TOP OF CASING IS <u>2</u> FT. Above Land Surface*		

9. YIELD (gpm): 132 METHOD OF TEST Pump
 10. WATER ZONES (depth): As screened
 11. CHLORINATION: Type HTH Amount 51lbs
 12. CASING: If additional space is needed use back of form

				LOCATION SKETCH
				(Show direction and distance from at least two State Roads, or other map reference points)
From	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
<u>0</u>	<u>To 75</u>	<u>Ft. 18"</u>	<u>3/8</u>	<u>Steel</u>
<u>0</u>	<u>To 107</u>	<u>Ft. 8</u>	<u>40</u>	<u>Steel</u>
From	To	Ft.		

13. GROUT:

From	Depth	Material	Method
<u>0</u>	<u>To 75</u>	<u>Ft. cement</u>	
From	To	Ft.	

14. SCREEN:

From	Depth	Diameter	Slot Size	Material
<u>105</u>	<u>To 120</u>	<u>Ft. 8</u>	<u>in. 30</u>	<u>in. SS</u>
<u>125</u>	<u>To 135</u>	<u>Ft. 8</u>	<u>in. 30</u>	<u>in. SS</u>
<u>140</u>	<u>To 155</u>	<u>Ft. 8</u>	<u>in. 30</u>	<u>in. SS</u>

15. SAND/GRAVEL PACK:

From	Depth	Size	Material
<u>0</u>	<u>To 170</u>	<u>Ft. pea</u>	<u>gravel</u>
From	To	Ft.	

16. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]
 SIGNATURE OF CONTRACTOR OR AGENT DATE
 Submit original to Division of Environmental Management and copy to well owner.

GW-1 REV. 3/96

LAND SURFACE

WELL NO. 4
COURSE NO. 3

WELL NO. 4
COURSE NO. 3

19.5 STATIC
WATER LEVEL

10" Casing

24" PITT CASING

40' ± BOTTOM
PITT CASING

8" STEEL CASING

8" Casing

10ACB	DISCHARGE HEAD
20 H.P. V.H.S. ELECTRIC MOTOR	
1750 R.P.M. 60 CYCLE 3 PHASE 208V.	
WITN. R.R. No. 1.15 S.F.	
11 STAGE 28 EDN. BOWLS	
170 G.P.M. 304 FT. PER CURVE 809.	

50' screen

SCREENS

112'

125' PUMP INTAKE

140'

WELL NO. 4 COURSE NO. 3²
 VERTICALE SCALE
 1" = 20'



NON RESIDENTIAL WELL CONSTRUCTION RECORD

#5A

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

WELL CONTRACTOR CERTIFICATION # 2769

1. WELL CONTRACTOR:

Charles McCaskill
Well Contractor (Individual) Name

Charles R. Underwood, Inc.
Well Contractor Company Name

STREET ADDRESS 2189 Everett Dowdy Rd.

Sanford NC 27330
City or Town State Zip Code

(919) 775-2463
Area code- Phone number

2. WELL INFORMATION:

SITE WELL ID #(if applicable) _____

WELL CONSTRUCTION PERMIT #(if applicable) WS06-01008

OTHER ASSOCIATED PERMIT #(if applicable) _____

3. WELL USE (Check Applicable Box) Monitoring Municipal/Public

Industrial/Commercial Agricultural Recovery Injection
Irrigation Other (list use) _____

DATE DRILLED 6/19/07

TIME COMPLETED 10:00 AM PM

4. WELL LOCATION:

CITY: Pinehurst COUNTY Moore

Palmetto Road

(Street Name, Numbers, Community, Subdivision, Lot No., Parcel, Zip Code)

TOPOGRAPHIC / LAND SETTING:

Slope Valley Flat Ridge Other _____
(check appropriate box)

LATITUDE 35 11.540N

LONGITUDE 79 27.80W

May be in degrees, minutes, seconds or in a decimal format

Latitude/longitude source: GPS Topographic map
(location of well must be shown on a USGS topo map and attached to this form if not using GPS)

5. FACILITY- Is the name of the business where the well is located.

FACILITY ID #(if applicable) Well 5 A

NAME OF FACILITY Moore Co. Public Utilities

STREET ADDRESS Palmetto Road

Pinehurst NC 28327
City or Town State Zip Code

CONTACT PERSON Ben Vaughn

MAILING ADDRESS PO Box 1927

Carthage NC 28327
City or Town State Zip Code

(910) 947-6315

Area code - Phone number

6. WELL DETAILS:

a. TOTAL DEPTH: 132'

b. DOES WELL REPLACE EXISTING WELL? YES NO

c. WATER LEVEL Below Top of Casing: 42.6 FT.
(Use "+" if Above Top of Casing)

d. TOP OF CASING IS 3 FT. Above Land Surface*

*Top of casing terminated at/or below land surface may require a variance in accordance with 15A NCAC 2C .0118.

e. YIELD (gpm): 220 METHOD OF TEST Pump/Orifice

f. DISINFECTION: Type HTH Amount .5 lb.

g. WATER ZONES (depth):

From 92 To 118 From 120 To 130

From _____ To _____ From _____ To _____

From _____ To _____ From _____ To _____

7. CASING:

Depth	Diameter	Thickness/Weight	Material
From <u>+3</u> To <u>92</u> Ft.	<u>6"</u>	<u>4U</u>	<u>Blk Steel</u>
From <u>118</u> To <u>120</u> Ft.	<u>8"</u>	<u>40</u>	<u>Blk Steel</u>
From <u>130</u> To <u>132'</u> Ft.	<u>8"</u>	<u>40</u>	<u>Blk Steel</u>

8. GROUT:

Depth	Material	Method
<u>Pit</u> From <u>0</u> To <u>52</u> Ft.	<u>Cement</u>	<u>Pumped</u>
From <u>0</u> To <u>3.5</u> Ft.	<u>Cement</u>	<u>Pumped</u>
From <u>3.5</u> To <u>75</u> Ft.	<u>Bentonite</u>	<u>Pumped</u>

9. SCREEN:

Depth	Diameter	Slot Size	Material
From <u>92</u> To <u>118</u> Ft.	<u>8"</u> in.	<u>30</u> in.	<u>SS</u>
From <u>120</u> To <u>130</u> Ft.	<u>8"</u> in.	<u>30</u> in.	<u>SS</u>
From _____ To _____ Ft.	_____ in.	_____ in.	_____

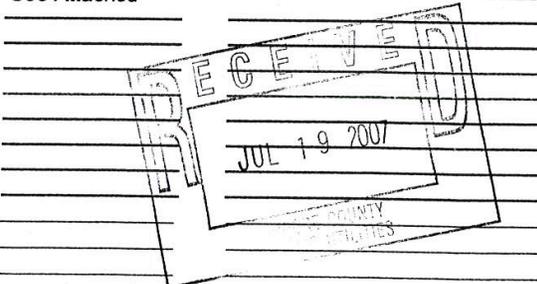
10. SAND/GRAVEL PACK:

Depth	Size	Material
From <u>75</u> To <u>135</u> Ft.	<u>3/16</u>	<u>Gravel</u>
From _____ To _____ Ft.	_____	_____
From _____ To _____ Ft.	_____	_____

11. DRILLING LOG

From _____ To _____ Formation Description

See Attached



12. REMARKS:

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Charles McCaskill 7-1707
SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE

Charles McCaskill
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

Submit the original to the Division of Water Quality within 30 days. Attn: Information Mgt., 1617 Mail Service Center - Raleigh, NC 27699-1617 Phone No. (919) 733-7015 ext 568.

Form GW-1b Rev. 3/07

Charles R. Underwood Inc.
Municipal Pump Sales & Service

2189 Everett Dowdy Road
Sanford, North Carolina 27330

Phone: (919) 775-2463
Fax: (919) 708-7232

Formation Log
Moore County – Pinehurst No. 2
Well # 5A

0 – 9'	Sand
9' – 13'	Sandy Clay
13' – 18'	Clay
18' – 19'	Sandy Clay
19' – 22-1/2'	Sand
22-1/2' – 23'	Clay
23' – 24-1/2'	Sand
24-1/2' – 30'	Clay and Sand Lenses
30' – 48'	Sand
48' – 54'9"	Clay
54' 9" – 119'	Sand
119' – 120'	Sand and Clay Lenses
120' – 130'	Sand
130' – 135'	Clay

Well #7 Pinehurst

North Carolina - Department of Environment and Natural Resources - Division of Water Quality - Groundwater Section
 1636 Mail Service Center - Raleigh, N.C. 27699-1636-Phone (919) 733-3221

WELL CONSTRUCTION RECORD

WELL CONTRACTOR: _____
 WELL CONTRACTOR CERTIFICATION #: _____
 STATE WELL CONSTRUCTION PERMIT#: _____

1. WELL USE (Check Applicable Box): Residential Municipal Industrial Agricultural Monitoring
 Recovery Heat Pump Water Injection Other If Other, List Use: _____

2. WELL LOCATION: (Show sketch of the location below)
 Nearest Town: _____ County: Moore

Well #7 Pinehurst
(Road Name and Numbers, Community, or Subdivision and Lot No.)

3. OWNER Moore County Dept. of Public Utilities DRILLING LOG DEPTH
Formation Description:

Address P.O. Box 1927
(Street or Route No.)
Carthage NC 28327
City or Town State Zip Code

4. DATE DRILLED _____
 5. TOTAL DEPTH 136' 8"
 6. CUTTINGS COLLECTED YES NO
 7. DOES WELL REPLACE EXISTING WELL? YES NO
 8. STATIC WATER LEVEL Below Top of Casing: 54' 7" FT.
(Use "*" if Above Top of Casing)

9. TOP OF CASING IS 2 FT. Above Land Surface*

*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118

10. YIELD (gpm): 150 METHOD OF TEST _____
 11. WATER ZONES (depth): _____

12. CHLORINATION: Type _____ Amount _____ If additional space is needed use back of form

13. CASING:

		Depth		Diameter	Wall Thickness or Weigh/FT.	Material	LOCATION SKETCH <small>(Show direction and distance from at least two State Roads, or other map reference points)</small>
From	To	Ft.	Ft.				
	<u>Top</u>	<u>95</u>		<u>8</u>		<u>Black Iron</u>	
	<u>125</u>	<u>136' 8"</u>		<u>8</u>		<u>Black Iron</u>	
From	To	Ft.	Ft.				

14. GROUT:

From	To	Depth	Material	Method
From	To	Ft.		
From	To	Ft.		

15. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
From	<u>95</u>	<u>99' 4"</u>	<u>8</u>		<u>stainless steel</u>
From	<u>99' 4"</u>	<u>103' 8"</u>	<u>8</u>		<u>stainless steel</u>
From	<u>103' 8"</u>	<u>115</u>	<u>8</u>		<u>stainless steel</u>

From 115 to 135 8 in. stainless steel

16. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
From	To	Ft.		
From	To	Ft.		

17. REMARKS: This information acquired by camera, placed approx. 2ft concrete plug in bottom
All measurement take from top of casing
 I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

FOR OFFICE USE ONLY
 Quad No: _____
 Serial No: _____

 SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE
 Submit original to Division of Water Quality, Groundwater Section within 30 days
 GW-1 REV. 1299

WELL CONSTRUCTION RECORD

Pinehurst Well 9

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) _____ CERTIFICATION # _____
 WELL CONTRACTOR COMPANY NAME Carolina Well & Pump Co. PHONE # (910) 776-3415
 STATE WELL CONSTRUCTION PERMIT# 238 ASSOCIATED WQ PERMIT# _____
 (if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
 Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:
 Nearest Town: Pinehurst County Moore
Muster Branch Rd. 28374
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
 (check appropriate box)
 Latitude/longitude of well location _____

3. OWNER: Moore County
 Address P.O. Box 1927
 (Street or Route No.)
Carthage NC 28327
 City or Town State Zip Code
(910)-947-6315
 Area code- Phone number

(degrees/minutes/seconds)
 Latitude/longitude source: GPS Topographic map
 (check box)

4. DATE DRILLED: 4/25/80
 5. TOTAL DEPTH: 148'
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 47 FT.
 (Use "+" if Above Top of Casing)
 8. TOP OF CASING IS 2 FT. Above Land Surface*
 *Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
 9. YIELD (gpm): 135 METHOD OF TEST Pump
 10. WATER ZONES (depth): As screened

DEPTH		DRILLING LOG
From	To	Formation Description
0	2	TOP SOIL
2	7	CLAY
7	30	SAND
30	39	CLAY
39	41	SAND
41	76	CLAY
76	90	SAND & CLAY
90	110	CLAY
110	137	SAND
137	150	SAND & CLAY
150	171	CLAY

11. DISINFECTION: Type HTH Amount 5 lbs.
 12. CASING: Wall Thickness _____

From	Depth	To	Diameter	Ft.	Material
0	0	88	8"	3/8	steel
118	118	124	8"	3/8	steel
134	134	139	8"	3/8	steel

 13. GROUT: Depth _____ Material Cement Method Pumped
 From UNK To UNK Ft. _____
 14. SCREEN: Depth _____ Diameter _____ Slot Size _____ Material _____
 From 88 To 118 Ft. 8 in. UNK in. SS
 From 124 To 134 Ft. 8 in. UNK in. SS
 15. SAND/GRAVEL PACK:
 Depth _____ Size _____ Material _____
 From 0 To 148 Ft. pea gravel
 From _____ To _____ Ft. _____

171 LOCATION SKETCH Rock
 Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

139 to 144 8" unk SS

16. REMARKS: Screen intervals, total depth, casing diameter determined by camera 2001.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

 SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699-1617, Phone No. (919) 733-7015, within 30 days.
 GW-1 REV. 09/2004

NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
 OFFICE OF WATER AND AIR RESOURCES
 GROUND WATER DIVISION
 P. O. BOX 27687 - RALEIGH, N. C. 27611

WELL RECORD

~~13~~ 13 ~~13~~

DRILLING CONTRACTOR CAROLINA WELL & PUMP CO., INC. REG. NO. 736 WELL CONSTRUCTION PERMIT NO. 37253

1. WELL LOCATION: (Show a sketch of the location on back of form)
 Nearest Town: Pinehurst County: Moore
Forest Lane (Road, Community or Subdivision and Lot No.)
 Quadrangle No. _____

2. OWNER: PINEHURST, INC.

3. ADDRESS: P.O. Box 8200 Pinehurst, NC 28374

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat

5. USE OF WELL: Town well DATE: 11-4-85

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 162 RIG TYPE OR METHOD: Rotary

8. FORMATION SAMPLES COLLECTED: YES No. of Bags _____

9. CASING: Inside Diam. Wall thick. or weight /ft. Type
 From 0 to 20 ft. 18" 3/8 Steel
0 to 80 8" 3/8 Steel
1 to 114 8" 3/8 Steel

10. GROUT: Depth Material Method
 From 0 to 20 ft. cement Pump

11. SCREEN: Depth Diam. Type and Opening
 From 80 to 110 ft. 8" S.S. 30-S

12. GRAVEL: Depth Size Material
 From 0 to 125 ft. 1/8-1/16 Course sand

13. WATER ZONES(depth): 80 - 110

14. STATIC WATER LEVEL: 37.10 ft. ^{above}/_{below} top of casing.
 Casing is 1 ft. above land surface. ELEV. _____
 DATE MEASURED: 11-4-85

15. YIELD(gpm): 140 METHOD OF TESTING: Pump

16. PUMPING WATER LEVEL: 79 ft. after 24 hours
 at 140 gpm.

17. CHLORINATION: Type H.T.H. Amount 2 lbs.

18. WATER QUALITY: good TEMPERATURE(°F) _____

19. PERMANENT PUMP:(Show a sketch of well head on back of form)
 Date installed _____ Type _____ Make _____
 Capacity _____ (gpm) HP _____
 Intake Depth _____ Airline Depth _____

20. HAVE YOU INFORMED THE WELL OWNER OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? _____

21. REMARKS: _____

I do hereby certify that this well record is true and exact.

 SIGNATURE OF CONTRACTOR OR AGENT DATE

Form GW-1

White Copy - Office of Water and Air Resources; Blue - Drillers Copy; Green - Owners Copy

DRILLING LOG		
DEPTH		FORMATION DESCRIPTION
FROM	TO	
0	10	Sand
10	20	Sand, rocks
20	30	Sand, rocks
30	40	Sand, rocks
40	50	Sand
50	60	Clay
60	70	Sand
70	80	Sand
80	90	Sand
90	100	Sand
100	110	Sand
110	120	Clay
120	130	Clay
130	140	Clay
140	150	Clay
150	160	Clay
160	165	Clay, rock

$0/5 = \frac{140}{5} = 28$
 $140/41 = 3.4 \text{ gpm/ft}$
 SUL = 38' top sec = 80 ft
 avail = 42 ft

WELL CONSTRUCTION RECORD

Pinehurst Well 14

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) _____ CERTIFICATION # _____
WELL CONTRACTOR COMPANY NAME _____ PHONE # () _____
STATE WELL CONSTRUCTION PERMIT# _____ ASSOCIATED WQ PERMIT# _____
(if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:
Nearest Town: PINEHURST County MOORE

(Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
(check appropriate box)
Latitude/longitude of well location

(degrees/minutes/seconds)

3. OWNER: Moore County Public Utilities
Address P.O. Box 1927
(Street or Route No.)
Carthage NC 28327
City or Town State Zip Code
()-
Area code- Phone number

Latitude/longitude source: GPS Topographic map
(check box)

DEPTH DRILLING LOG
From To Formation Description

4. DATE DRILLED _____
5. TOTAL DEPTH: 125
6. DOES WELL REPLACE EXISTING WELL? YES NO
7. STATIC WATER LEVEL Below Top of Casing: 51.6 FT.
(Use "+" if Above Top of Casing)
8. TOP OF CASING IS 4 FT. Above Land Surface*
*Top of casing terminated at/or below land surface requires a
variance in accordance with 15A NCAC 2C .0118.
9. YIELD (gpm): 100 METHOD OF TEST _____
10. WATER ZONES (depth): _____

DEPTH	DRILLING LOG	
From	To	Formation Description

LOCATION SKETCH

Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.

11. DISINFECTION: Type _____ Amount _____
12. CASING: Wall Thickness _____
From 4 To 92 Ft. 8 _____
From _____ To _____ Ft. _____
From _____ To _____ Ft. _____
13. GROUT: Depth _____ Material _____ Method _____
From _____ To _____ Ft. _____
From _____ To _____ Ft. _____
14. SCREEN: Depth _____ Diameter _____ Slot Size _____ Material _____
From 92 To 122 Ft. 8 in. 30 in. SS
From _____ To _____ Ft. _____ in. _____ in. _____
15. SAND/GRAVEL PACK: Depth _____ Size _____ Material _____
From _____ To _____ Ft. _____
From _____ To _____ Ft. _____

16. REMARKS: SCREEN INTERVALS, TOTAL DEPTH DETERMINED BY CAMERA 4/14/08.

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699-1617, Phone No. (919) 733-7015, within 30 days.

GW-1 REV. 09/2004

FOR OFFICE USE ONLY			
Quad. No. _____	Serial No. _____		
Lat. _____	Long. _____	Pc. _____	
Minor Basin _____			
Basin Code _____			
Header Ent. _____		GW-1 Ent. _____	

WELL CONSTRUCTION RECORD

Well 17

DRILLING CONTRACTOR CAROLINA WELL & PUMP COMPANY INC.
 DRILLER REGISTRATION NUMBER 136 STATE WELL CONSTRUCTION PERMIT NUMBER: _____

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: _____

 (Road, Community, or Subdivision and Lot No.)

County: MOORE

2. OWNER PINEHURST ENTERPRISES INC.
 ADDRESS P. O. BOX 182
PINEHURST NC 28374
(Street or Route No.)
 City or Town State Zip Code

Depth		DRILLING LOG Formation Description
From	To	
0	12	Clay
12	20	Sand
20	30	Clay
30	34	Clay
34	46	Sand
46	54	Clay
54	120	Sand
120	160	Clay
160	170	Sand
170	182	Clay

3. DATE DRILLED 6-27-88 USE OF WELL TOWN

4. TOTAL DEPTH 178 CUTTINGS COLLECTED Yes No

5. DOES WELL REPLACE EXISTING WELL? Yes No

6. STATIC WATER LEVEL: 45 FT. above TOP OF CASING,
 below TOP OF CASING IS 2 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): 75 METHOD OF TEST ORIFICE

8. WATER ZONES (depth): 80-100 120-130 153-173

9. CHLORINATION: Type HTH Amount 5 LBS.

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>0</u> To <u>80</u> Ft.	<u>8</u>	<u>375</u>	<u>STEEL</u>
From <u>100</u> To <u>120</u> Ft.	<u>8</u>	<u>375</u>	<u>STEEL</u>
From <u>130</u> To <u>153</u> Ft.	<u>8</u>	<u>375</u>	<u>STEEL</u>

If additional space is needed use back of form.

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

11. GROUT:

Depth	Material	Method
From <u>0</u> To <u>20</u> Ft.	<u>CEMENT</u>	<u>PUMPED</u>
From _____ To _____ Ft.	_____	_____

12. SCREEN:

Depth	Diameter	Slot Size	Material
From <u>80</u> To <u>100</u> Ft.	<u>8</u> in.	<u>40</u> in.	_____
From <u>120</u> To <u>130</u> Ft.	<u>8</u> in.	<u>40</u> in.	_____
From <u>153</u> To <u>173</u> Ft.	<u>8</u> in.	<u>40</u> in.	_____

13. GRAVEL PACK:

Depth	Size	Material
From <u>0</u> To <u>183</u> Ft.	<u>1/4</u>	<u>GRAVEL</u>
From _____ To _____ Ft.	_____	_____

14. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

SIGNATURE OF CONTRACTOR OR AGENT _____ DATE _____
 Submit original to Division of Environmental Management and copy to well owner.

Pinehurst Well 18

WELL CONSTRUCTION RECORD

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

WELL CONTRACTOR (INDIVIDUAL) NAME (print) Ronald Patterson CERTIFICATION # 136
 WELL CONTRACTOR COMPANY NAME Carolina Well & Pump Co. PHONE # (910) 776-3415
 STATE WELL CONSTRUCTION PERMIT# 238 ASSOCIATED WQ PERMIT# _____
 (if applicable) (if applicable)

1. WELL USE (Check Applicable Box): Residential Municipal/Public Industrial Agricultural
 Monitoring Recovery Heat Pump Water Injection Other If Other, List Use _____

2. WELL LOCATION:
 Nearest Town: Pinehurst County Moore
Idlewild Rd. 28374
 (Street Name, Numbers, Community, Subdivision, Lot No., Zip Code)

Topographic/Land setting
 Ridge Slope Valley Flat
 (check appropriate box)
 Latitude/longitude of well location _____

3. OWNER: Moore County
 Address P.O. Box 1927
 (Street or Route No.)
Carthage, NC 28327
 City or Town State Zip Code
(910)-947-6315
 Area code- Phone number

(degrees/minutes/seconds)
 Latitude/longitude source: GPS Topographic map
 (check box)

4. DATE DRILLED 6/24/91
 5. TOTAL DEPTH: 132'
 6. DOES WELL REPLACE EXISTING WELL? YES NO
 7. STATIC WATER LEVEL Below Top of Casing: 42 FT.
 (Use "+" if Above Top of Casing)
 8. TOP OF CASING IS 2 FT. Above Land Surface*
 *Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118.
 9. YIELD (gpm): 100 METHOD OF TEST Pump
 10. WATER ZONES (depth): As screened

DEPTH		DRILLING LOG
From	To	Formation Description
0	10	SAND & CLAY
10	20	CLAY & SAND & CLAY
20	50	SAND & CLAY
50	80	SAND
80	90	CLAY & SAND
90	130	SAND
130	150	SAND & CLAY
150	160	CLAY
160	180	CLAY & STREAKS OF SAND
180	210	CLAY

11. DISINFECTION: Type HTH Amount 5 lbs.
 12. CASING:

From	Depth	To	Diameter	Material	Wall Thickness
0	0	90	Ft. 10"	PVC	3/8
130	130	132	Ft. 10"	PVC	3/8

 13. GROUT:

From	Depth	To	Material	Method
UNK	UNK	UNK	Cement	Pumped

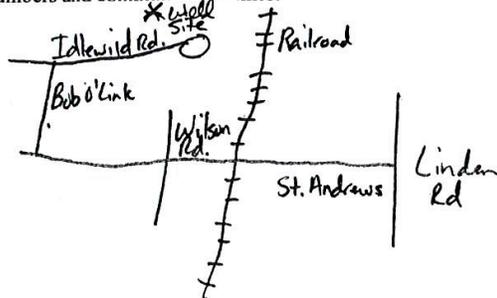
 14. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
90	90	130	Ft. 10 in.	UNK in.	PVC

 15. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
0	0	132	Ft. pea	gravel

LOCATION SKETCH
 Show direction and distance in miles from at least two State Roads or County Roads. Include the road numbers and common road names.



16. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER

Total Depth, Screen Intervals determined by Camera 11/2004
 SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit the original to the Division of Water Quality, Attn: Information Management, 1617 Mail Service Center - Raleigh, NC 27699-1617, Phone No. (919) 733-7015, within 30 days.

GW-1 REV. 09/2004

Well 19

FOR OFFICE USE ONLY

Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

DRILLING CONTRACTOR McCaskey Well Drilling
DRILLER REGISTRATION NUMBER 1181

STATE WELL CONSTRUCTION PERMIT NUMBER: 62-0183-WS-0182

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Pinehurst (Linden Rd)
Scully property
(Road, Community, or Subdivision and Lot No.)

County: Moore County

2. OWNER MAWASA
ADDRESS S.R. 1100 4 miles S.E
Pinebluff N.C.
City or Town State Zip Code

Depth		DRILLING LOG
From	To	Formation Description
0	1	Sandy Top
1	7	yellow sand
7	13	clay orange/Tan
13	17	sand Fine clay L
17	29	Sand
2	36	sand very little clay white
36	39	sand clay tanish
39	42	C & sand
42	75	sand very little CL
75	78	clean sand
78	82	clay & sand lens
82	91	sand very little clay lens
91	99	white clay
99	105	sand & clay lens (over)

3. DATE DRILLED Nov. 15, 1996 USE OF WELL Public supply
4. TOTAL DEPTH 151 ft 4 in. CUTTINGS COLLECTED Yes No
5. DOES WELL REPLACE EXISTING WELL? Yes No

3. STATIC WATER LEVEL: 49 ft. FT. above TOP OF CASING,
 below
TOP OF CASING IS 3 FT. ABOVE LAND SURFACE.

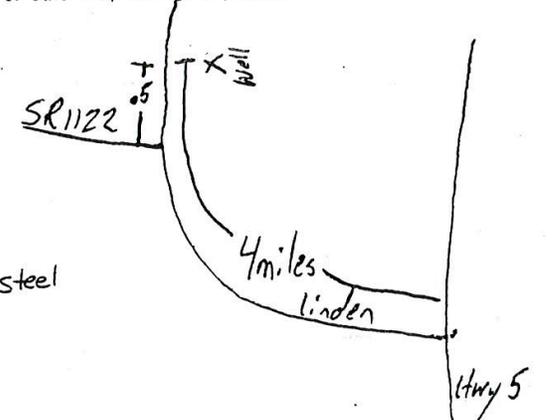
7. YIELD (gpm): 200 METHOD OF TEST Pump
3. WATER ZONES (depth): 82 to 91 105 to 145

3. CHLORINATION: Type HTH Amount 1.5 pd.

0. CASING:

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
-3	858	Ft.	8 in.	STD	Black steel
95	105	Ft.	8 in.	STD	"
146 4 in.	151 4 in.	Ft.	8 in.	STD	"

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points.)



1. GROUT:

From	To	Depth	Material	Method
0	42	Ft.	sand cement	Pumped

12. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
858"	91	Ft.	8	in. 20	in. stainless steel
105	146 4"	Ft.	8	in. 20	in. "
		Ft.	0	in.	in.

13. GRAVEL PACK:

From	To	Depth	Size	Material
42	150	Ft.	3/16	Wash stone

14. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C. WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

[Signature]
SIGNATURE OF CONTRACTOR OR AGENT DATE

Water Wells and Test Holes
Pump Sales and Service

Down Hole T.V.
Electric and Gramma
Logging

Carolina Well & Pump Co. Inc.

Serving the Carolina's since 1961

*Pinewild
Well 1*

PINE WILD DRILLER LOG
DRILLER RONALD PATTERSON

0	10	Sand
10	20	Sand and Streak of Clay
20	30	Clay and Sand
30	40	Sand
40	50	Sand
50	60	Sand
60	70	Sand
70	80	Sand
80	90	Sand
90	100	Sand and Clay
100	110	Clay and Sand and Clay
110	120	Clay and Sand
120	130	Sand
130	140	Sand
140	150	Sand
150	160	Sand
160	170	Sand and Clay
170	180	Sand and Clay
180	190	Sandy Clay
190	200	Sandy Clay
200	210	Sandy Clay

Screened 128'-168'

Worth F. Pickard

Ronald D. Patterson

P.O. Box 1085 • 4900 Carbondon Road • Sanford, NC 27330 • 919-776-3415

Well 21
221179

WELL CONSTRUCTION RECORD

WELL CONTRACTOR: Charles M. McClaskill, McClaskill Well Dr.
WELL CONTRACTOR CERTIFICATION #: 2769
STATE WELL CONSTRUCTION PERMIT#: Permit Pending

1. WELL USE (Check Applicable Box): Residential Municipal Industrial Agricultural Monitoring
Recovery Heat Pump Water Injection Other If Other, List Use: _____

2. WELL LOCATION: (Show sketch of the location below)
Nearest Town: Pinehurst County: Moore

Well #21 FoxFire Rd. SR. 1122
(Road Name and Numbers, Community, or Subdivision and Lot No.)

3. OWNER Moore County Dept. of Public Utilities
Address P.O. Box 1927
(Street or Route No.)
Carthage N.C. 28327
City or Town State Zip Code

DRILLING LOG		DEPTH
From	To	Formation Description
0	1	Top soil
1	10	sand
10	14	sandy clay
14	19	clay
19	48	sand
48	50	clay
50	52	clay with small sand lenses
52	52.5	sand
52.5	54	clay
54	80	sand
80	85	sand fine clay lenses
85	138	sand
138	142	clay
142	160	clay with sand lenses

4. DATE DRILLED 11-1-00
5. TOTAL DEPTH 160
6. CUTTINGS COLLECTED YES NO
7. DOES WELL REPLACE EXISTING WELL? YES NO
8. STATIC WATER LEVEL Below Top of Casing: 68.5 FT.
(Use "*" if Above Top of Casing)
9. TOP OF CASING IS 1.8 FT. Above Land Surface*

*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118
10. YIELD (gpm): 122 METHOD OF TEST Pump/Orifice
11. WATER ZONES (depth): 85 - 138

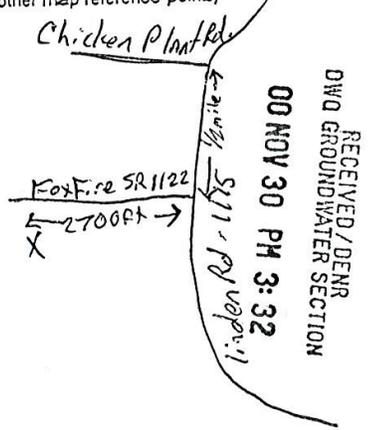
12. CHLORINATION: Type HTH Amount 2 lbs.
13. CASING:

If additional space is needed use back of form

LOCATION SKETCH

From	Depth	To	Diameter	Wall Thickness or Weigh/Vft.	Material
0	0	52.5	18	.315	Black Steel
-1.8	0	110	8	.304	Black Steel
135	0	160	8	.304	Black steel

(Show direction and distance from at least two State Roads, or other map reference points)



14. GROUT:
From 0 To 52.5 Ft. Neat Pump
From 0 To 52 Ft. Neat Pump

15. SCREEN:
From 110 To 135 Ft. 8 in. 60 in. Stainless steel
From _____ To _____ Ft. _____ in. _____ in. _____
From _____ To _____ Ft. _____ in. _____ in. _____

16. SAND/GRAVEL PACK:
From 52 To 160 Ft. Gravel Pack #3 Washed gravel
From _____ To _____ Ft. _____

17. REMARKS: Pump Intake Depth 116'

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

FOR OFFICE USE ONLY
Quad No: _____
Serial No. _____

[Signature]
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE
Submit original to Division of Water Quality, Groundwater Section within 30 days GW-1 REV. 1299

Well 22

WELL CONSTRUCTION RECORD

WELL CONTRACTOR: Charles McCaskill, McCaskill Well Dr.
 WELL CONTRACTOR CERTIFICATION #: 2769
 STATE WELL CONSTRUCTION PERMIT#: Permit Pending

1. WELL USE (Check Applicable Box): Residential Municipal Industrial Agricultural Monitoring
 Recovery Heat Pump Water Injection Other If Other, List Use: _____

2. WELL LOCATION: (Show sketch of the location below)
 Nearest Town: Pinehurst County: Moore

Short St.
 (Road Name and Numbers, Community, or Subdivision and Lot No.)

3. OWNER County of Moore
 Address P.O. Box 1927 Carthage N.C.
Carthage N.C. 28327
 (Street or Route No.) City or Town State Zip Code

DRILLING LOG		DEPTH
From	To	Formation Description
0	2	Sandy Top Soil
2	8	sandy clay
8	10	Clay
10	15	sandy clay
15	20	clay
20	53	sand
53	57	Clay
57	114	sand
114	140	Clay

4. DATE DRILLED 7-26-02
 5. TOTAL DEPTH 119
 6. CUTTINGS COLLECTED YES NO
 7. DOES WELL REPLACE EXISTING WELL? YES NO
 8. STATIC WATER LEVEL Below Top of Casing: 57' FT.
 (Use "*" if Above Top of Casing)
 9. TOP OF CASING IS 2 FT. Above Land Surface*

*Top of casing terminated at/or below land surface requires a variance in accordance with 15A NCAC 2C .0118

10. YIELD (gpm): 111 METHOD OF TEST pump/office
 11. WATER ZONES (depth): 57-114

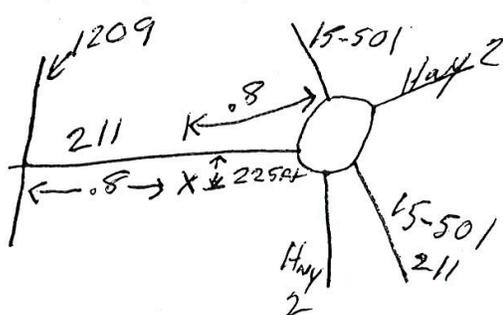
12. CHLORINATION: Type HTH Amount 2 lbs.
 13. CASING:

If additional space is needed use back of form

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)

From	Depth	To	Diameter	Wall Thickness or Weight/Ft.	Material
0	54	18	8	.375	black steel
-2	88	8	8	.375	black steel
114	119	8	8	.375	black steel



14. GROUT:

From	Depth	To	Material	Method
0	54	Neat	pump	
0	52	Sand cement grout	pump	

15. SCREEN:

From	Depth	To	Diameter	Slot Size	Material
0	114	8	30	in.	stainless steel

16. SAND/GRAVEL PACK:

From	Depth	To	Size	Material
52	140	3/16	washed gravel	

17. REMARKS: _____

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15A NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

FOR OFFICE USE ONLY
 Quad No: _____
 Serial No. _____

[Signature] 5-2-02
 SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE
 Submit original to Division of Water Quality, Groundwater Section within 30 days

GW-1 REV. 1299