

# WELLHEAD PROTECTION PLAN

for

**The Village of Pinehurst,**

Moore County, North Carolina

PWS ID # 03-63-108



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**TABLE OF CONTENTS**

<i>Text</i>	<i>Page</i>
Background .....	3
Introduction .....	3
I. The Wellhead Protection Committee .....	5
II. Delineating the Wellhead Protection Area .....	6
III. Inventory of Potential Contaminant Sources .....	7
Risk Analysis .....	8
IV. Managing the Wellhead Protection Area .....	10
A. Village of Pinehurst Ordinances, Wellfield Protection .....	10
B. Public Education .....	16
C. Groundwater Monitoring .....	20
V. Emergency Contingency Plan .....	20
New Public Water Supply Wells .....	23
Public Participation .....	24
Wellhead Protection Program Review .....	24

***Tables***

1. Pinehurst Water Supply Well Data. ....	29
2. Wellhead Protection Area Calculations. ....	30
3. Types of Potential Contaminant Sources. ....	31
4. Area and Linear Potential Contaminant Sources. ....	32
5. Point Potential Sources of Contamination. ....	33
6. Land Use Activities. ....	34
7. Risk Evaluation Criteria. ....	34
8. Numerical Risk Analysis .....	35

***Figures***

Pinehurst Wellhead Protection Area Map Linear Features. ....	40
Pinehurst Well Field Protection Area (Zoomed Area). ....	41
Pinehurst Well Field Protection Area. ....	42

Affidavit of Publication

***Appendix- Pages A1 – A 73***

Well construction records  
 Database inventory results and supporting documentation  
 Potential Contaminant Inventory forms

## BACKGROUND

In 1986, Safe Drinking Water Act 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 affects on the health of persons”. The term wellhead protection area (WHPA) is defined in the law as “the surface and subsurface area surrounding a water well or wellfield, supplying a public water system, through which contaminants are reasonably likely to move toward and reach such water well or wellfield”. North Carolina’s EPA-approved Wellhead Protection Program provides technical support to local governments and public water supply systems in their endeavors to develop and implement their own Wellhead Protection Plans (WHPPs).

**North Carolina’s objective 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. Implementation of a WHPP in North Carolina is voluntary at the present.

## INTRODUCTION

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 Charlottte. Pinehurst, as of 2000, had a population of 9,706 people within the corporate limits area (about 14.3 square miles). This is an increase of 4,615 people from the 1990 census. The population is somewhat seasonal because of the attraction of these 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 course-sands are found in the Pinehurst area. 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. 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.

Moore County Public Utilities provides water to the Village of Pinehurst using groundwater exclusively. More than 16,473 persons are served by the system, which has just over 7,162 connections. The system uses twenty operational water supply wells, and has 2.3 million gallons of storage, using 3 elevated tanks (800,000-gallons) and 2 ground tanks (1,500,000-gallons). The served population consumes 2.1 million gallons per day on average. Maximum daily use is 4.12 million gallons per day. Bleach, caustic and phosphate are injected at the wellheads to disinfect, and to control acidity and corrosion. Moore County Public Utility has contracted to purchase 250,000-gallons per day from the Town of Southern Pines and 400,000 for the Town of Aberdeen. Purchases can reach 720,000 gallons per day and 1,000,000 gallons per day from Southern Pines and Aberdeen respectively, if necessary. A bulk water purchase of 1 million gallons per day from the EMWD East Moore Water District is presently available for the fall of 2008.

Wells are controlled by a custom telemetry system, and the pump cycle is typically less than 16 hours per day, unless drought conditions exist. All available data on the water supply wells is listed in Table 1. The portion of the system located in Pinehurst has interconnections to Aberdeen (routine and emergency, Southern Pines (routine and emergency), and Seven Lakes (one-way only). The majority of the area is served by municipal sewerage, with the exception of Clarendon Gardens subdivision, where privately owned septic tanks are used. Moore County inspects all lift stations one to two times per week. By state regulation, the wells are inspected daily.

Large portions of Pinehurst consist of manicured and irrigated grassy areas, such as golf courses, club houses, horse tracks, parks, and private lawns. The Sandhills setting lends itself to some of the finest golf courses in the world, and portions of ten other golf courses are located within the Wellhead Protection Area, as well as other large recreational-use plots, including Rassic Wicker and Cannon Parks.

An area of increasing concern for the Village of Pinehurst is the large number of privately-owned irrigation wells. Pumping irrigation wells can lower the water table and cause problems for the public water supply wells. A wellhead protection committee was formed to address the increasing number of privately-owned irrigation wells, and a well ordinance was written to restrict the construction of new irrigation wells within 2,000 feet of municipal water supply wells.

The wellhead protection area outlined in this plan and in the village irrigation well ordinance is based on a 2,000 foot buffer zone around each well, with the overlap of radii ignored, and enclaves removed. The 2,000 foot radius is based on maximum pumping



rates, and estimated recharge to the aquifer. Two other water systems which operate municipal water supply wells are located within the village and extraterritorial jurisdiction of Pinehurst. Clarendon Gardens (PWS ID# 03-63-102) operates two water supply wells that provide water to the subdivision, and Moore Regional Hospital (PWS ID#03-63-135) operates one municipal well. These three wells have wellhead protection areas assigned the same radii as the 20 Moore County Public Utilities wells.

## **I. THE WELLHEAD PROTECTION COMMITTEE**

A Wellhead Protection Committee (WPC) was formed to develop a Wellhead Protection Plan for The Village of Pinehurst. The committee consists of:

- Mr. William Thurman, Chairman, Wellhead Protection Committee,
- Mr. Donald Van Roosen, Chairman of the Water Committee
- Mr. John Ruggles, Geologist and Committee Member,
- Mr. Charlie Holbrook, Geologist and Committee Member,
- Mr. Brad Kocher, Chair of Conservation Commission Water Committee,
- Mr. Walter Bennett, Wellhead Committee Member, member of Pinehurst Civic Group,
- Ms. Andrea Correll, Pinehurst Director of Planning and Inspections,
- Mr. Dennis Brobst, Moore County Director of Public Works
- Mr. Ben Vaughn, Utility Operation Manager, Moore County Public Utilities,
- Mr. Keith Starner, North Carolina Rural Water Association.

The mission of the Wellhead Protection Committee is to protect the water supply of the Village of Pinehurst by developing an appropriate village ordinance to limit the number of irrigation wells, and to educate the public, local businesses, and industries on best management practices and standard operating procedures to limit the potential for leaks and spills. The Village hopes to manage the aquifer by anticipating wellfield expansion as it keeps pace with demographic growth.

The Director of Public Utilities the Village Director of Planning and Inspections and the Village Engineer are responsible for implementing the plan. Moore County Public Utilities is responsible for all aspects of the plan addressing the water system operation, emergency response procedures, groundwater monitoring, and education of county personnel. The Village of Pinehurst is responsible for managing the wellhead protection area, using regulations and public education. The Village is responsible for distributing educational materials, mapping, enacting and maintaining ordinances, educating village personnel, and public notification. Both the Village of Pinehurst and Moore County Public Utilities have accepted the recommendations made in the plan by the WPC. The Village of Pinehurst and Moore County Public Utilities will begin implementation of the plan immediately following approval by the Public Water Supply Section of NCDENR and will complete implementation within ninety (90) days. Upon completion of the implementation phase of the WHP Plan, the Village Director of Planning will submit notification to the Public Water Supply Section in accordance with the schedule set forth in the approved WHP Plan.

## II. DELINEATING THE WELLHEAD PROTECTION AREA

The fixed radius from the wellhead plan approved in 2003 was maintained at 2,000 feet about each public well in the Pinehurst wellfield. The minimum required protection radius around each of the wells was also determined using criterion from *The North Carolina Wellhead Protection Guidebook*. A radius of 2,000-feet was chosen to satisfy these minimum protection requirements. Table 2 shows the minimum protection radii based on a ten year time of travel. The calculations used a maximum pumping cycle of 21 hours per day to determine the radii based on maximum pumping time during seasonal peak demands and under drought conditions. The radii for wells located close to one another intersect, and overlaps with adjacent areas were ignored as mentioned in the previous revision of this document. Twenty-four hour pump tests show that the aquifer behaves as a semi-confined aquifer, which receives a tremendous volume of recharge from the surficial aquifer. The sands are highly transmissive and can allow rapid migration of contamination.

The Pinehurst Wellhead Protection Area map shows the location of the wells, and the wellhead protection area. Circular wellhead protection radii were chosen due to the relatively homogenous and highly transmissive nature of the Sandhills sediments. The minimum required protection areas were determined as follows:

- Q = well yield in gallons per day (based on limiting the pumping cycle to less than 22-hours per day),
- W = recharge rate, 600,000-gallons per day per square mile, (Heath and Johnson, 2001),
- A = the area, in square miles, equal to Q/W.

The radii of circular protection areas (r, in feet) are found by the formula:

$$r = \sqrt{A \text{ (sq. miles)} / \pi} \times 5280 \text{ ft/mile}$$

It is anticipated that a radius of 2,000 feet about each municipal well will provide adequate protection, and prevent lowering of the static water level by irrigation wells. Drawdowns of several feet were noticed in non-pumping wells adjacent to pumping wells located 1,700 feet away, which is indicative of confined or semi-confined aquifers. The Clarendon Gardens and Moore County Regional Hospital well construction data is not presented in this report, but by the rationale provided in Table 1 for the 20 Moore County Public Utilities wells, a 2,000 foot fixed radius should provide an adequate buffer for these wells.

The wellhead protection map maintains a protective area around W01 which is permanently abandoned, also Well 5A was drilled in close proximity to Well 5 as a replacement; Well 5 was grouted to land surface. The wellhead protection area is slightly smaller than the plan approved in 2003.

### III. INVENTORY OF POTENTIAL CONTAMINANT SOURCES

All potential contamination sources in the wellhead protection areas were inventoried as listed below:

- A database, file, and literature search of all appropriate Federal, State, and Local databases was conducted. The on-line databases and records searched are listed in the appendix.
- Local records on file at the Village of Pinehurst and Moore County were researched, and the fire departments and county emergency services were contacted to identify past spills, leaks, or other potential sources.
- Records on file at the Fayetteville Regional Office of NCDENR were researched.
- Topographic maps and aerial photographs were used to identify land-use activities, drainage patterns, surface water bodies, and potential contaminant sources no longer in use.
- Windshield and walk-through surveys were conducted to obtain or verify contaminant and owner information.

A database and literature search was conducted to determine potential contamination sources within each protection area. The database and literature search results are listed in the appendix, and potential contaminant sources were added to the inventory for verification and site visits. As a starting point, Pinehurst's "Source Water Assessment Program (SWAP) Report" showed the results of available electronic potential contamination source (PCS) databases with statewide coverage. This search confirmed the location of previously listed potential sources of contamination, but added no new sites. The SWAP Report is available by accessing the PWSS's Source Water Assessment and Protection Web site at <http://swap.deh.enr.state.nc.us/swap/>.

Records of the local fire department and county emergency management services were searched for any past incidents, spills, or potential contaminant sources within the wellhead protection area. Files at the Fayetteville Regional Office of NCDENR were researched for animal waste operations, leaking Underground Storage Tank (UST) incidents, groundwater pollution incidents, well abandonment records, injection well permits, and federally registered UST's. Waste handling facilities, landfills, and hazardous waste site records on file with the Fayetteville Region Solid and Hazardous Waste Section were also researched.

Private irrigation wells are not depicted on the map, because of the large number of these wells in the area. The Village of Pinehurst requires all new (after 2003) irrigation wells to be permitted and inspected, and well construction records are kept at the Village Hall.

On-site visits were conducted at businesses, chemical handling and storage facilities, and other potential contaminant sources listed on the inventory to obtain contact and potential contaminant information. The "Inventory of Potential Contaminant Sources" survey forms are included in the appendix, which list owner contact information

and data collected during the visits. Similar types of potential contaminant sources were categorized to assist in plotting the site locations on the source inventory map. The types of potential contaminant sources and map plot codes are listed in Table 3.

The windshield and walk-through surveys identified the remainder of the potential contaminant sources, and obtained or verified owner contact information and data regarding the type and quantity of contaminants. All the potential contaminant sources identified in the database, literature, file, and on-site surveys are presented in the contaminant source inventory in Table 4.

Table 4 lists the potential contaminant sources, and the individual plot codes used to label the sites plotted on the inventory maps. Where listed on the potential contamination source inventory forms, “small quantities” means less than 100-gallons or 100-pounds. The Pinehurst Wellhead Protection Area map illustrates the location of the potential contaminant sources relative to the wellheads, using the plot codes from the contaminant source inventory.

A map reconnaissance identified land use activities and other terrain features on aerial photos and 1:24,000 scale, 7.5-minute topographic maps. Determining land use activities helps to formulate management strategies, and assists in identifying the types of potential contaminant sources that can be expected in the protection areas. Land use area determination was based on visual percent estimates, and is shown in Table 5.

The land use activity data indicate that management efforts should be directed primarily toward residences, and golf courses. Residents within the protection areas will be targeted for education on irrigation, water conservation, household hazardous waste disposal and storage, and other pertinent materials. Golf courses and resort land owners will be targeted for education on safe agricultural practices, pesticide and herbicide storage, application, and disposal, and safe operating procedures.

## **Risk Analysis**

The highly transmissive sands of the Pinehurst wellfield would allow rapid transport of anthropogenic spills or leaks of contaminants. The semi-confined aquifer is at risk of the vertical migration of contaminants as evidenced by prolific recharge of the deep aquifer by the surficial sand aquifer. Well logs collected by the village show discontinuous clay pods and lenses which make up the leaky semi-confining unit. Because the wells are located in a semi-confined aquifer, the groundwater is at greatest risk from:

- Improper application or storage of pesticides, herbicides, and fertilizers,
- Long-term, leaking underground or above ground storage tanks,
- Existing Groundwater Pollution Incidents, and
- Sudden, large volume surface releases.

The categories of potential contaminant sources from Table 3 that pose the greatest risk to the water table aquifer are from existing pollution incidents, golf courses, irrigation wells, and facilities that store or mix pesticides or herbicides.

The potential contaminant sources were evaluated to determine the risk posed to each well, using proximity, quantity, relative toxicity, and the likelihood of occurrence. These evaluations were used to rank the sites as high, moderate or low risk. Ranges of values were selected to evaluate the proximity of the source to the well, and the quantity of contaminant each source could potentially release. Categories were chosen to rank the relative toxicity of the contaminants and the likelihood of occurrence that a contamination event could occur.

Table 6 shows the value ranges selected to rank proximity, (in feet) and quantity (in gallons and pounds). Also listed in this document are ranking schemes for relative toxicity, (using general chemical and substance categories) and the likelihood of occurrence (using the plot codes from Table 3 to identify the type of potential contaminant source). The likelihood of occurrence was evaluated by estimating the potential for a spill or leak based on the type of contaminant source.

The ranking criteria were applied to the contaminant source inventory to determine the overall risk posed to each well. The numerical risk analysis, Table 7, shows the risk ranking for proximity, quantity, relative toxicity, and likelihood of occurrence. The overall risk was then determined based on these risk rankings.

The distance from each potential source to the affected wells was determined and ranked according to the proximity criteria. The risk estimates for quantity, relative toxicity, and likelihood of occurrence also appear in Table 7, using the risk evaluation criteria.

To determine the overall numerical risk for each source relative to the potentially affected well, the data from the proximity, quantity, toxicity, and likelihood evaluations were combined numerically, by assigning a value of 1 to low-risk, 2 to moderate-risk, and 3 to high-risk evaluations. The numerical values for each of the four risk evaluations, (proximity, quantity, toxicity, and likelihood of occurrence), were added. The Numerical Risk Ranking column of Table 7 has a numerical ranking from 4, the lowest score possible (lowest risk), through 12, the highest score possible (highest risk).

The potential sources of contamination that represent the greatest risk to the wells are existing pollution incident sites, roads and the railroad, and facilities which mix or store pesticides. Table 8, the Overall Risk, uses the numerical ranking from Risk Analysis table to identify the most vulnerable wells.

Although well W01 is abandoned, it is included in the risk analysis. Well W01 is permanently abandoned by grouting, due to contamination from leaking underground storage tanks. Periodic monitoring in the vicinity of the W01 continues through the use of monitor wells near the suspected contaminant release point, as required by the

Fayetteville Regional Office. Well W06 was temporarily abandoned, also due to leaking underground tanks, but has been returned to service .

#### **IV. MANAGING THE WELLHEAD PROTECTION AREA**

The Village of Pinehurst has chosen a dual approach to managing the wellhead areas using a Village ordinance, and public education. Additionally, Moore County Public Utilities is managing the resource by monitoring groundwater conditions.

Amendments to the Pinehurst Development Ordinance, Section 10.2.10 referenced here, will allow approved irrigation wells in the R-210 Zoning District to enable horse farms and other agricultural uses access to needed irrigation water. Also an additional amendment to allow the required lot size in the R-210 Zoning District to be reduced to one acre for public drinking water wells is needed immediately.

##### **A. Village Ordinances**

The Pinehurst Development Ordinance was first revised after the adoption of the original Wellhead Protection Plan in 2003. The Ordinance has subsequently been amended in 2005 with the adoption of a new Pinehurst Development Ordinance and in 2007 with the inclusion of a geothermal energy options.

**Find below the current Pinehurst Development requirements:**

##### **Section 10.2.10 Well Field Protection**

###### **10.2.10.1 Purpose and Scope; Well Field Map Established**

The main source of safe drinking water for the Village is the Pinehurst Well Field that consists of municipal wells that tap the Middendorf Aquifer that lies beneath the Village. The Middendorf Aquifer is the only available aquifer in the area to supply safe drinking water for the Village. The Pinehurst Well Field is shown on a map on file in the Department of Planning and Inspection and that may be redrawn from time to time by the addition of new municipal wells. The Pinehurst Well Field is established by drawing a circle with a 2,000-foot radius from the center point of each municipal well as now or hereafter established and including any area created as an enclave within the exterior boundaries of such circles. The Pinehurst Well Field map as now or hereafter drawn is hereby adopted and made a part of this Ordinance.

Lots and parcels that are shown on the Well Field Map as being partially within and partially outside the designated well field area may be permitted to construct an irrigation well as a special exception within the part of the lot or parcel within the well field protection area provided that the Zoning Board of Adjustment finds based on factual evidence presented, that no reasonable alternative exists for the construction of an irrigation well on the portion of the lot or parcel that lies outside of the well field area. In approving the construction of an irrigation well within the well field area, the Zoning Board of Adjustment may place such reasonable conditions and safeguards as the Board may deem appropriate to protect the public health, safety and general welfare.

### **10.2.10.2 Well Field Development Regulations**

Within the Pinehurst Well Field the following regulations shall apply, and no development permit shall be issued without the permits and approvals required herein having been obtained:

(a) Public Utility Wells

Public utility wells owned and/or operated by the public utility are exempt from this Section;

(b) Irrigation Wells

- (1) Irrigation wells for the purpose of this Ordinance are defined as wells constructed for irrigation only and not for human consumption;
- (2) All irrigation wells require a development permit issued to the property owner or well driller. The development permit must be issued before well drilling operations may commence. To receive a development permit, the well must be drilled by a drilling contractor licensed by the State of North Carolina and must be constructed to meet or exceed State Specifications;
- (3) No development permits for irrigation wells will be issued for new irrigation wells within the boundaries of The Pinehurst Well Field as now or hereafter fixed except as provided for in 10.2.10.1 above;
- (4) Irrigation wells outside the Pinehurst Well Field shall meet the set back requirements listed below:
  - (i) Two thousand (2,000) feet from a suspected contaminant plume;
  - (ii) Twenty-five (25) feet from a sewer line;
  - (iii) Twenty-five (25) feet from a building foundation;
  - (iv) Fifty (50) feet from an above ground chemical or petroleum tank, above ground or underground storage tank, or other similar known source of potential pollution;
  - (v) Ten (10) feet from external property lines and ten (10) feet from the full pond of any adjoining lake.

In addition, irrigation wells shall be screened in accordance with Section 10.2.6.5 and shall not be located in a front yard.

- (5) Irrigation well permits will be issued for requests outside of The Pinehurst Well Field according to following procedures:



The Permit and Approval Process will be a four-part procedure:

- (i) The permit will be issued by the Village to the owner and faxed to Moore County Utility (MCPU) the same day the permit is issued, and the permit will be valid for six (6) months;
- (ii) The driller must notify the MCPU by phone of desired commencement date for the well. A MCPU Inspector will meet driller on location for site inspection and approval to commence drilling;
- (iii) The driller will notify MCPU to inspect well when the driller reaches "Total Depth" and will provide a MCPU Inspector, an accurate Driller's Log and Well Record along with a Well Construction Plan. At that time, the Inspector will make a decision to determine if the well and proposed Construction Plan are in compliance with the Irrigation Well Ordinance;

The Well Construction Plan will show the depth of the well, size of the casing, position of the screen or screens, top of the gravel pack and the depth of grouting. The Inspector may require additional grouting to the top of the gravel pack. Grouting will be pumped not poured;

- (iv) If the Well and Construction Plan are in compliance, the Inspector may give the Driller approval on site, to proceed with Construction of the Well and upon return to the MCPU office the Inspector will fax the approved permit (marked approved) back to the Village of Pinehurst Planning and Inspections Department. The Inspector will also fax or forward the Driller's Log and Well Record to the Pinehurst Planning and Inspections Department.

If the Well Construction Plan and accurate Driller's Log are not in compliance with the Ordinance, the Inspector will advise the Drilling Contractor on the required steps to become compliant and will withhold approval for well construction to proceed until the Drilling Contractor has satisfied the requirements.

(c) Potable Wells

- (1) Potable wells for the purposes of this ordinance are defined as private drinking water wells;
- (2) Permits for new potable wells will be issued only if no public water supply is available for the location within 300 feet;

- (3) Permit requirements will be the same as for irrigation wells outside the Pinehurst Well Field;
  - (4) The permit will require that all potable wells will be drilled by a drilling contractor licensed by the State of North Carolina and the permit will further require that the well will be constructed to meet or exceed minimum State Specifications.
- (d) Injection Wells
- (1) Injection wells for the purposes of this ordinance are defined as wells drilled to circulate groundwater through ground coupled heating and air conditioning units;
  - (2) An injection well may be drilled only if groundwater is the only fluid to be circulated through the system. No chemicals may be added to the circulation system;
  - (3) The permitting process will be the same as for irrigation wells outside the Pinehurst Well Field;
  - (4) The Ordinance requires that all injection wells will be drilled by a drilling contractor licensed by the State of North Carolina and the permit will further require that the well be constructed to meet or exceed minimum State Specifications.
- (e) Septic Tanks
- (1) Septic systems for the purposes of this ordinance are defined as private wastewater disposal systems for private home use;
  - (2) Permits for new Septic Systems may be issued only if no public sewerage system is available for the location within 300 feet;
  - (3) A permit will be issued in these cases with the requirement that when the public sewer system is available within 300 feet of the location, the septic system will be properly abandoned and pumped out and the owner will be required to connect to the public sewer system within a period of one year at the owner's expense.
- (f) Under Ground Storage Tanks
- (1) Permits for new Under Ground Storage Tanks containing home heating oil, gasoline, pesticides or other hazardous materials will not be issued for properties within the boundaries of the Pinehurst Well Field;
  - (2) Permits for new Under Ground Storage Tanks containing butane and propane gas will be issued as long as they meet permitting requirements of this Ordinance.

(g) Above Ground Storage Tanks

- (1) Permits for new Above Ground Storage Tanks containing hazardous materials will be issued only if the Above Ground Storage Tank is equipped with a containment structure capable of containing the total capacity of the tank in order to prevent leaks from spilling on to the ground.

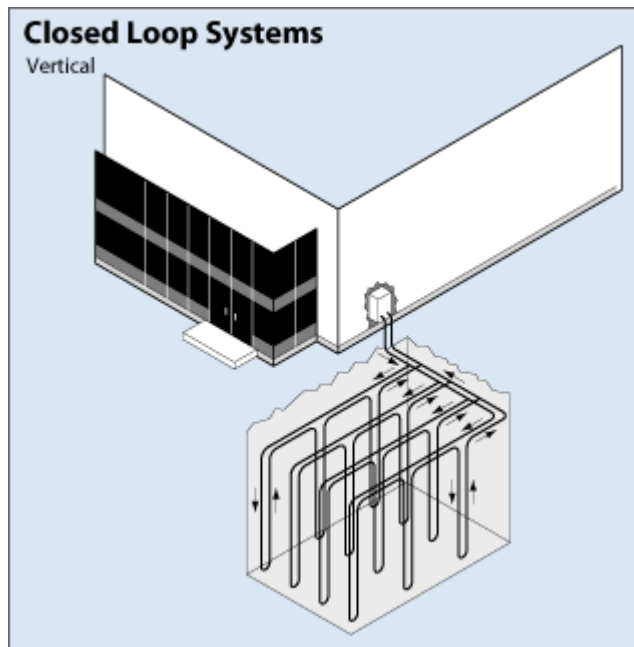
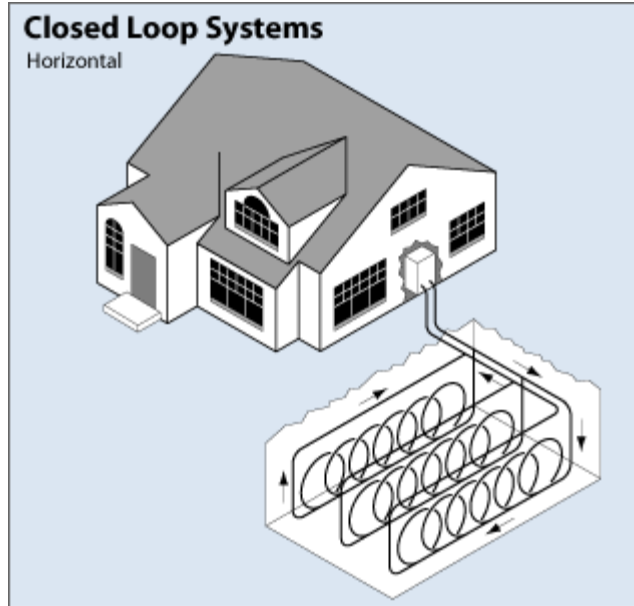
(h) Fertilizer/Pesticide Mixing and Storage Areas and Animal Waste Piles

- (1) Fertilizer and pesticide mixing and storage areas and animal waste piles must be equipped with a containment structure capable of containing the total capacity of the product being handled to prevent leaching and leaks from infiltrating the ground;
- (2) The containment structures mentioned above as they apply to storage of material must have a ground barrier and a cover or cap to prevent leaching into the soil.

(i) Geothermal Heating and Cooling Closed Loop System

Geothermal Heating and Cooling Closed Loop Systems are permitted both inside and outside of the Pinehurst Well Field Protection Area. To be approved, applications for geothermal systems must be made to the following specifications:

- (1) A geothermal system employing drilled well(s) as the earth loop is a permitted application. The application must provide a site plan specifying the location of the well(s) and comply with all applicable Village of Pinehurst and Moore County ordinances and requirements for wells;
- (2) A geothermal system employing horizontal closed loops is a permitted application. The applicant shall provide a site plan depicting the layout of the horizontal or vertical closed loop within the property boundaries and its relation to the existing and proposed structures of the site.



## **B. Public Education**

The Chairman of the Water Committee have primary responsibility for implementing the public education program; the alternate responsibility lies with the Planning Director. The Wellhead Protection Committed may be consulted as required.

A Wellhead Protection Brochure (tri-fold) will be delivered to each resident, farming operation, business, and industry within the Wellhead Protection Area. Copies of this brochure will be made available at the Pinehurst Village Hall, for public education on Wellhead Protection. In general, the brochure will convey to each citizen/business the following information:

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

The Village of Pinehurst will provide information to each golf course, business, and industry located within the WHPA 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. The Village of Pinehurst will also provide information regarding the North Carolina Division of Pollution Prevention and Environmental Assistance (DPPEA) to each golf course, business and industry located within the WHPA. Owners/operators of potential contamination sources will be encouraged to contact the DPPEA.

Personnel at Village-owned and/or operated facilities will be educated on Wellhead Protection and steps they can take to reduce the potential for contamination (e.g., information about best management practices, standard operating procedures, waste handling practices, etc.). County Public Utility personnel will also receive similar training. The water system and the Village of Pinehurst will also contact the State Division of Pollution Prevention and Environmental Assistance (DPPEA) to investigate steps that both entities can take to reduce the amount of waste released into the air and water and on or near the protected areas.

DPPEA provides free technical and other non-regulatory assistance to reduce the amount of waste released into the air and water and on the land. DPPEA serves as a

central repository for waste reduction and pollution prevention information. DPPEA 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, DPPEA may be contacted at (919) 715-6500 or (800) 763-0136.

The Village of Pinehurst will contact all golf courses, facilities, or agricultural operations within the WHPA that store pesticides, or that are otherwise involved with the application of pesticides, to ensure that they are licensed by the State of North Carolina and that proper records are maintained to ensure observance of NC Pesticide Laws. The Village of Pinehurst will provide information to these facilities or agricultural operations regarding waste handling practices, best management practices, standard operating procedures, and proper waste disposal methods which could be employed to reduce the potential for ground water contamination. These facilities will also be provided with information regarding the North Carolina Division of Pollution Prevention and Environmental Assistance (DPPEA).

The Village of Pinehurst will provide EPA Source Water Protection Practices Bulletins regarding turfgrass and agricultural fertilizer application, and small- and large-scale use of pesticides to those involved in the application of these materials, (i.e., businesses, golf courses, athletic fields, lawns, natural areas, etc.).

If any of the residences, businesses, and industries in the WHPA are found to have septic tanks, they will be distributed a copy of the Wellhead Protection Brochure and any other information the system can obtain from County and/or State agencies on proper septic tank maintenance. Information on home heating oil tank maintenance and leak prevention may also be distributed to homeowners.

In the event of a spill, the Moore County Emergency Coordinator will be contacted at the following number:

**Moore County Emergency Management: (910) 947-6317**

Owners of improperly constructed/abandoned wells identified within the WHPA will be provided information regarding the threat posed to the water supply by these wells. Owners of improperly constructed/abandoned wells will be encouraged to have these wells properly abandoned in accordance with state well construction standards found in 15A NCAC 2C, "Criteria and Standards Applicable to Water Supply and Certain Other Wells". If information exists that a well is improperly constructed or is contributing to the contamination of groundwater, The Village of Pinehurst will notify the Aquifer Protection Section of the Division of Water Quality.

All owners/operators of regulated USTs and other facilities subject to federal and/or state regulations located within the WHPAs will be requested to supply

documentation that their facility is in compliance with said regulations. Operators of USTs will be asked to supply the system with a copy of their UST permit. If any UST sites are found to be non-compliant, the Underground Storage Tank Section of the State Division of Waste Management will be notified.

If an abandoned UST site is found, the village will contact the North Carolina Division of Waste Management, UST Section, to determine if a closure report was submitted demonstrating that no soil or groundwater contamination was identified during closure. If a closure report was not submitted, The Village of Pinehurst 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 the WHPA, The Village of Pinehurst 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 Village will bring to the attention of the State agencies with oversight responsibilities for remediation any failures by the responsible parties to comply with required monitoring and corrective action. The Village of Pinehurst will also notify the State agencies with oversight responsibilities for remediation of the location of the facilities within the WHPA and their proximity to a public water supply well. The Village 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 WHPAs and will request a review of this assessment.

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

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

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

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.

Facilities with an underground buried storage capacity of more than 42,000-gallons of oil, or an aggregate above ground storage capacity greater than 1,320-gallons of oil, or an above ground 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. These facilities must prepare and implement a Spill Prevention Control and Countermeasures (SPCC) Plan. The Village will verify the status of the SPCC Plan for each subject facility located within the WHPA. The North Carolina General Statutes require registration of any facilities storing more than 21,000-gallons of petroleum product. Subject facilities not in compliance with these regulations will be notified of their regulatory responsibility under this regulation. The Village will also notify the Division of Water Quality, Aquifer Protection Section, if such facilities do not promptly come into compliance.

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

The Village of Pinehurst will contact the Division of Water Quality regarding facilities permitted to discharge wastewater to the land surface (Non-NPDES Permitted Facilities) to ensure that any such operations located within the WHPAs are in compliance with applicable regulatory and permit requirements pertaining to environmental protection, such as routine monitoring and reporting requirements.

The county operates an annual household hazardous waste collection day when funds permit, with cooperation from the NC Cooperative Extension Service and the NC Department of Agriculture. Notification of this service through the news media will be made to those living within the wellhead protection areas. The Village of Pinehurst will make every effort to notify the public of hazardous waste collection days through public service announcements on local news media.

### **C. Monitoring Groundwater Conditions**

The risk analysis identified declining water levels as a risk to the longevity of the wells. The water system will be responsible for monitoring static and pumping water levels in the wells. Static water levels will be measured (well conditions allowing) quarterly after all pumping has been stopped for at least (off) one pump cycle. The static water levels will be graphed against time to determine trends or changes in static water



levels. Identifying trends can support and assist in long term water supply decision-making. Comparing the intake level with the pumping water levels can be used to estimate the life expectancy of the wells or to predict well maintenance.

The specific capacity of the wells will be taken annually (well conditions allowing). Specific capacity is the pumping rate in gallons per minute, divided by the draw down in feet. Draw down, or pumping water level is measured after the water has stabilized some time after pumping (a minimum of 3 to 4 hours, but preferably at the end of a pump cycle). Measuring specific capacity will be part of a well maintenance schedule, to predict:

- The need to repair or rehabilitate a well,
- Life expectancy estimation for the wells,
- Declines in static water levels, and
- Pump failure

Well rehabilitation should be considered when the specific capacity of wells is lowered by forty- to fifty-percent of the original specific capacity values measured after well construction.

## **V. EMERGENCY CONTINGENCY PLAN**

The Moore County Director of Public Utilities is the primary individual responsible for implementing contingency plans. The alternate responsibility lies with the Field Engineer. The WPC may be involved in decision-making in the event that response actions are required.

### **Short Term (less than 48 hours) Contingency**

Should a major oil or chemical spill occur within the Wellhead Protection Area, the local volunteer fire departments and the Moore County Emergency Coordinator will be notified first:

**Fire Department 911**

**Moore County Emergency Coordinator (910) 947-6315**

For tank alarms, leaks and fires:

**Moore County Public Utilities Emergency Number – (910) 947-6315**

**Ben Vaughn (Operations Manager) 910-295-3653 or 910-690-3977**

Moore County Public Utilities Water Quality Division maintains an on-call schedule for after-hours and holiday emergency contact information. Emergency number for various contingencies, such as alternate water source connections, EMS, fire, storm shelters, and other contact information is also maintained by the county.

**ADDITIONAL EMERGENCY CONTACT NUMBERS FOR CONTINGENCIES AND THE ON-CALL SCHEDULE ARE INCLUDED IN THE APPENDIX.**

If evidence exists that a well is contaminated, it will immediately be taken off-line and not returned to service until it is determined that water quality from the impacted well is in compliance with standards governing public water supplies. If one of the wells becomes contaminated, it will be isolated from the rest of the system by the Public Works Director, by closing the valve at the wellhead. The contaminant source inventory may prove useful in determining sources of contamination and providing emergency response contact numbers.

If it is determined that contaminants entered the distribution system, residents shall be notified not to drink the water until further notice, by using the emergency notification plan. Media contacts will be used to rapidly get information to the water users supplied by the Village of Pinehurst.

**Media Contacts:****Channel 40, WKFT**

Carolina Capital Communications, Inc.  
230 Donaldson Street  
Fayetteville, North Carolina 28301  
Phone: (910) 323-4040

**550 AM WIOZ**

200 Short Road  
Southern Pines, NC 28387  
(910) 692- 2107, (800) 737-1069, Fax: (910) 692- 6849  
Fax: (910) 323-3924

**The Pilot**

145 Pennsylvania Avenue,  
P.O. Box 58  
Southern Pines, NC 28388  
(910) 692-7271, Fax: (910) 692-9384

**AM WEEB**

Post Office Box 1855  
Southern Pine, NC 28388  
Fax: (910) 692-7372

High-risk water users, such as the schools, day care centers, and churches, will be notified of water contamination by telephone. For long-term contamination or water outages, public notice will be mailed to all utility customers.

If contamination occurs, the regional office of the Public Water Supply Section shall be notified immediately of the situation and asked for assistance. Sampling (i.e. bacteriological, VOCs, SOCs, etc.) will begin to determine the contaminant involved and the extent of contamination. A systematic flushing of the distribution system will begin with follow-up sampling conducted as needed until the system is determined to be free of contamination and in compliance with standards governing public water supplies. After consultation with the Public Water Supply Section, residents will be notified that The Village of Pinehurst water is once again safe for consumption.

**Long-Term (greater than 48 hours) Contingency**

In addition to contamination, long-term disruptions (greater than 48 hours) in service could result from:

- Long-term power outages,
- Pump failure,
- Decreased well yield, or
- Other system failures.

If power is lost to the wells on a long-term basis, there are six portable generators (three - 65-kW, two 40-kW, and one 25-kW) and three permanent generators are available at the Moore County Public Utilities building. Generators may also be available through the North Carolina Army National Guard on an emergency, as-available basis. Pump failure or decreased yield in one well can be resolved until it is repaired or rehabilitated, by pumping from the unaffected wells. The system can use interconnections to the Town of Southern Pines (one-way and can gravity flow) and the Town of Aberdeen (two-way). A one-way only interconnection exists to deliver water to the Seven Lakes water system (can be two-way for short periods), which is also managed by Moore County. Interconnection valves for Southern Pines and Aberdeen are controlled by both entities; system schematics with valve locations and distribution lines are available at Moore County Public Utilities offices.

Ice storms, hurricanes, and floods can potentially disrupt water service. All storage tanks will be filled before any major weather events that could disrupt service. County personnel will place a priority on restoring well operation once an outage is identified. Generators will be used to run the most critically needed wells and can be rotated from one well to the next to fill storage tanks.

## **NEW PUBLIC WATER SUPPLY WELLS**

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

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

## **PUBLIC PARTICIPATION**

The Village of Pinehurst incorporated public participation into the Wellhead Protection Plan by:

- Using public education as a method of managing the WHPAs.
- Informing local business owners and industry of best management practices and providing information on groundwater protection.
- Keeping this plan in the Pinehurst Village Hall for public review at any time.

After the plan is approved, a tri-fold brochure showing the Wellhead Protection Area, including the information listed in Section III, will be mailed to all residents living in the WHPA.

The Draft Wellhead Protection Plan was made available for thirty days for review and comment after publishing a notice in the local paper. A copy of the public notice as printed is included in the appendix. No comments were received. However, the plan will be kept available for public review in the corporation offices. Any substantive comments received from the public will be incorporated into the plan, after review by the WPC.

## **WELLHEAD PROTECTION PROGRAM REVIEW**

The Village of Pinehurst is aware that an effective local Wellhead Protection Program is an ongoing process requiring review and updating of an approved WHP Plan. Therefore, Eastern Pines Water Corporation's WHP Committee will monitor the Wellhead Protection Area for any new or previously unidentified potential contaminant sources (PCSs) and activities occurring within the approved area. The Village 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 Village's groundwater source of drinking water. Additionally, the PCS inventory will be updated annually using the same procedures used to develop the original PCS inventory. The individual responsible for implementation of the WHP Plan will submit notification to the Public Water Supply Section annually upon completion of the PCS inventory update. Any amended sections of the approved WHP Plan resulting from this update should also be submitted at this time.

**WEBSITE AND DATABASE SEARCH:**

1. 2002 Water Supply System Report:  
[http://www.ncwater.org/Water\\_Supply\\_Planning/Local\\_Water\\_Supply\\_Plan/search.php](http://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/search.php)
2. EPA's Envirofacts data warehouse (including Enviromapper) for information on air, community water sources, water dischargers, toxic releases, hazardous waste and superfund sites: <http://www.epa.gov/enviro/index.html>
3. Sourcewater Protection and Assessment in NC for information on Animal Operations, CERCLIS, NPL, NPDES, PCS, RCRA, septage disposal, soil remediation, and Tier II sites, non-discharge permits, landfills, pollution incidents, and UIC and UST permits: <http://204.211.89.20/Swap/>

**Table 1 Pinehurst Water Supply Well Data**

Well	Depth	Constr.	Casing	Screened	PWL	SWL	Test	Yield (gpm)
		Date	Dia.	Interval			Date	
W2A	170'	2/15/98	8"	105'-155'	-	58'	-	132
W03	205'	8/1/72	8"	88'-130'	102'	47.3'	8/1/72	204
W04	140'	-	8"	84'-112'	-	10.5'	-	170
W05A	132	6/19/07	8"	92'-130'	91.0'	42.6'	7/27/97	220
W06	164'	5/23/72	8"	67'-117'	70.6'	19.5'	5/24/72	208
W07	142'	5/31/78	-	-	-	-	-	160
W08	-	-	-	-	-	-	-	42
W09	144'	-	-	-	-	-	-	130
W10	168'	-	8"	96'-156'	-	-	-	90
W11	-	-	-	-	-	-	-	60
W12	208'	-	-	-	-	-	-	150
W13	162'	11/4/85	8"	80'-110'	79'	37'	11/4/85	140
W14	165'	5/30/86	-	-	-	-	-	100
W15	216'	-	-	-	109'	78'	-	90
W16	164'	-	-	-	-	-	-	140
W17	178'	6/27/88	8"	80'-173'	-	45'	-	75
W18	210'	6/24/91	-	-	-	-	-	90
W19	151'	11/5/96	8"	85'-146'	-	49'	-	200
W20	210'	-	-	-	-	-	-	150
W21	160'	11/1/00	8"	110'-135'	-	68'	11/8/00	122
W22	119'	7/26/02	8"	84'-114'	-	57' 1"	-	111
W23	180'	3/20/03	8"	91'-110'	-	52'	-	50
W24	180'	4/2/03	8"	91'-111'	-	61'	-	50
Clarendon 1	Well is not is not part of Moore Co. Public Utilities System 03-63-108							
Clarendon 2 MC Hospital	"							

**Table 2 Wellhead Protection Area Calculations**

Well	Yield gpm	min/ day	Yield (Q) gpd	Area* (mi <sup>2</sup> )	radius** (mi)	(ft)
W2A	132	1260	166,320	0.277	0.297	1,568
W03	204	1260	257,040	0.428	0.369	1,950

W04	170	1260	214,200	0.357	0.337	1,780
W05	210	1260	264,600	0.441	0.375	1,978
W06	208	1260	262,080	0.437	0.373	1,969
W07	160	1260	201,600	0.336	0.327	1,727
W08	42	1260	52,920	0.088	0.168	885
W09	130	1260	163,800	0.273	0.295	1,556
W10	90	1260	113,400	0.189	0.245	1,295
W11	60	1260	75,600	0.126	0.200	1,057
W12	150	1260	189,000	0.315	0.317	1,672
W13	140	1260	176,400	0.294	0.306	1,615
W14	100	1260	126,000	0.210	0.259	1,365
W15	90	1260	113,400	0.189	0.245	1,295
W16	140	1260	176,400	0.294	0.306	1,615
W17	75	1260	94,500	0.158	0.224	1,182
W18	90	1260	113,400	0.189	0.245	1,295
W19	200	1260	252,000	0.420	0.366	1,931
W20	150	1260	189,000	0.315	0.317	1,672
W21	122	1260	153,720	0.256	0.286	1,508
W22	111	1260	139,860	0.233	0.272	1,438
W23	50	1260	63,000	0.105	0.183	965
W24	50	1260	63,000	0.105	0.183	965
Not part of system 03-63-108, regulated by village ordinance						
CG1						
CG2						
MCRH						

Totals: 2,874 3,621,240

\* Area = Q/W, where W = 600,000 gpd/mi<sup>2</sup>

\*\* r = (Area/pi)<sup>-1</sup>



**Table 3 Types of Potential Contaminant Sources**

<b>Type of Potential Source</b>	<b>Code</b>
Major Road	<b>A</b>
Power line	<b>B</b>
Railroad	<b>C</b>
Aboveground Storage Tank (AST)	<b>D</b>
Car Wash	<b>E</b>
Chemical storage	<b>F</b>
Golf Course	<b>G</b>
Cleaner	<b>H</b>
Funeral Home	<b>I</b>
Irrigation wells	<b>J</b>
Lift Station	<b>K</b>
Septic system	<b>L</b>
Solid waste	<b>M</b>
Underground Storage Tank (UST)	<b>N</b>
Pollution Incident	<b>O</b>

**Table 4. Area and Linear Potential Sources of Contamination**

Description	Source Type
National Golf Club	Golf Course
Resorts Course 1	Golf Course
Resorts Course 2	Golf Course
Resorts Course 3	Golf Course
Resorts Course 4	Golf Course
Resorts Course 5	Golf Course
Resorts Course 6	Golf Course
Resorts Course 7	Golf Course
Resorts Club House & courts	Golf Course
Pinewild Farm Course	Golf Course
Magnolia & Club House	Golf Course
Race Track & barns	Golf Course
Closed Landfill	Solid waste
Rassie Wicker Park	Village Park
Cannon Park	Village Park
US 15 Highway	Primary Road
NC Highway 2	Primary Road
NC Highway 5	Primary Road
NC Highway 211	Primary Road
Powerline North	Power line
Powerline Central	Power line
Powerline South	Power line
CSX Railroad	Railroad
Clarendon Garden Subdivision	Septic tanks

Table 5 Point Potential Sources of Contamination

<b>Description</b>	<b>Source Type</b>	<b>Map Label</b>
Lift stations	Lift stations	See legend
Pinehurst Maintenance Garage	AST	<b>D-1</b>
Abandoned Bulk Facility	AST	<b>D-2</b>
Village Car Wash	Car Wash	See legend
Village Paint Store	Chemical Storage	<b>F-1</b>
Southern Landscape Group	Chemical Storage	<b>F-2</b>
Golf Course Maintenance	Chemical Storage	<b>F-3</b>
Pinehurst Hardware & Rental	Chemical Storage	<b>F-4</b>
Davis Paint	Chemical Storage	<b>F-5</b>
Antex Exterminating Co.	Chemical Storage	<b>F-6</b>
Village Printer	Storage	<b>F-7</b>
Kelly Road Cleaners	Cleaners	<b>H-1</b>
Tufts Cleaners	Cleaners	<b>H-2</b>
Boles Funeral Home	Funeral Home	See legend
Macks Food Store 1	UST	<b>N-1</b>
Short Stop 78	UST	<b>N-2</b>
Pinehurst Elementary School	UST	<b>N-3</b>
Bill Clark Chevrolet Cadillac	UST	<b>N-4</b>
Village Market Gas Station	UST	<b>N-5</b>
Short Stop 77	UST	<b>N-6</b>
Moore County Regional Hospital	UST	<b>N-7</b>
MCPU Well W01	Pollution incident	<b>O-1</b>
MCPU Well W06	Pollution incident	<b>O-2</b>
Manor Care Nursing Center	Pollution incident	<b>O-3</b>

**Table 6. Land Use Activities**

Land Use	Percent
Residential	48%
Golf Course	22%
Agriculture	12%
Business	8%
Forest	7%
Rights of way	3%

**Table 7. Risk Evaluation Criteria**

Risk	Proximity to Well	Quantity		Relative Toxicity	Likelihood of Occurrence
		Liquid	Dry		
<b>HIGHER</b> <b>(H = 3)</b>	< 750 feet	> 1,500-gal.	> 1,000-lbs.	Pesticides Herbicides Metals Solvents	Major Road Railroad Chemical Storage Pollution Incident
<b>MODERATE</b> <b>(M = 2)</b>	750-1,500 feet	100-1,500-gal.	100-1,000-lbs.	Petroleum Fertilizers Sewage Bacteria	AST Cleaners Irrigation wells Solid Waste UST
<b>LOWER</b> <b>(L = 1)</b>	> 1,500 feet	< 100-gal.	< 100-lbs.	Grease Chloride	Powerline Car Wash Golf Course Funeral Home Lift Station Septic Tanks

**Table 8 Numerical Risk Analysis**

<b>Well</b>	<b>Potential Source Description</b>	<b>Proximity to Well</b>	<b>Quantity or volume</b>	<b>Relative Toxicity</b>	<b>Likelihood of Occurrence</b>	<b>Numerical Risk Ranking</b>
<b>W01</b>	NC Highway 5	3	3	3	3	<b>12</b>
	CSX Railroad	3	3	3	3	<b>12</b>
	Golf Course Maintenance	2	3	3	3	<b>11</b>
	MCPU Well W01	3	3	2	3	<b>11</b>
	Resorts Course 1	2	1	3	1	<b>7</b>
	Resorts Course 2	2	1	3	1	<b>7</b>
	Resorts Course 4	2	1	3	1	<b>7</b>
	Resorts Course 5	3	1	3	1	<b>8</b>
	Resorts Clubhouse & Courts	2	1	3	1	<b>7</b>
	Race Track & Stables	3	1	3	1	<b>8</b>
<b>W2A</b>	NC Highway 5	1	3	3	3	<b>10</b>
	CSX Railroad	3	3	3	3	<b>12</b>
	Resorts Course 3	2	1	3	1	<b>7</b>
<b>W03</b>	NC Highway 5	1	3	3	3	<b>10</b>
	CSX Railroad	1	3	3	3	<b>10</b>
	Resorts Course 1	3	1	3	1	<b>8</b>
	Race Track & Stables	3	1	3	1	<b>8</b>
	Boles Funeral Home	1	2	2	1	<b>6</b>
<b>W04</b>	Resorts Course 3	3	1	3	1	<b>8</b>
	Resorts Course 5	1	1	3	1	<b>6</b>
<b>W5A</b>	NC Highway 2	3	3	3	3	<b>12</b>
	CSX Railroad	3	3	3	3	<b>12</b>
	Resorts Course 2	3	1	3	1	<b>8</b>
	Resorts Clubhouse & Courts	2	1	3	1	<b>7</b>
<b>W06</b>	NC Highway 5	2	3	3	3	<b>11</b>
	Powerline Central	2	1	3	1	<b>7</b>
	CSX Railroad	2	3	3	3	<b>11</b>
	Pinehurst Hardware & Rental	2	2	3	3	<b>10</b>

**Table 8 Numerical Risk Analysis (continued)**

<b>Well</b>	<b>Potential Source Description</b>	<b>Proximity to Well</b>	<b>Quantity or volume</b>	<b>Relative Toxicity</b>	<b>Likelihood of Occurrence</b>	<b>Numerical Risk Ranking</b>
<b>W06, Cont'd</b>	Resorts Course 5	1	1	3	1	<b>6</b>
	Boles Funeral Home	1	2	2	1	<b>6</b>
	MCPU Well W06	3	3	2	3	<b>11</b>
	Short Stop 78	2	3	2	2	<b>9</b>
<b>W07</b>	US Highway 15	3	3	3	3	<b>12</b>
	NC Highway 211	2	3	3	3	<b>11</b>
	National Golf Club	1	1	3	1	<b>6</b>
	Resorts Course 2	2	1	3	1	<b>7</b>
	Resorts Course 7	3	1	3	1	<b>8</b>
	Lift Station	2	2	2	1	<b>7</b>
<b>W08</b>	CSX Railroad	3	3	3	3	<b>12</b>
	Pinehurst Maint. Garage	3	3	2	2	<b>10</b>
	Abandoned Bulk Facility	2	3	2	2	<b>9</b>
	Village Car Wash	2	1	2	1	<b>6</b>
	Village Paint Store	2	2	3	3	<b>10</b>
	Southern Landscape Group	2	3	3	3	<b>11</b>
	Davis Paint	1	2	3	3	<b>9</b>
	Antex Extermination Co.	1	2	3	3	<b>9</b>
	Village Printer	1	1	3	3	<b>8</b>
	Kelly Road Cleaners	2	2	3	2	<b>9</b>
	Tufts Cleaners	2	2	3	2	<b>9</b>
	Closed Landfill	1	3	3	2	<b>9</b>
	Pinehurst Elementary School	1	3	2	2	<b>8</b>
	Bill Clark Chevrolet Cadillac	2	3	2	2	<b>9</b>
	Village Market Gas Station	2	3	2	2	<b>9</b>
<b>W09</b>	NC Highway 2	3	2	3	3	<b>11</b>
	CSX Railroad	2	3	3	3	<b>11</b>
	Resorts Course 2	3	1	3	1	<b>8</b>

**Table 8 Numerical Risk Analysis (continued)**

<b>Well</b>	<b>Potential Source Description</b>	<b>Proximity to Well</b>	<b>Quantity or volume</b>	<b>Relative Toxicity</b>	<b>Likelihood of Occurrence</b>	<b>Numerical Risk Ranking</b>
<b>W09,</b>	Resorts Course 4	1	1	3	1	<b>6</b>
<b>Cont'd</b>	Pinehurst Elementary School	1	3	2	2	<b>8</b>
<b>W10</b>	US Highway 15	2	3	3	3	<b>11</b>
	NC Highway 2	3	3	3	3	<b>12</b>
	Powerline North	1	1	3	1	<b>6</b>
	National Golf Club	1	1	3	1	<b>6</b>
<b>W11</b>	NC Highway 5	3	3	3	3	<b>12</b>
	CSX Railroad	3	3	3	3	<b>12</b>
	Resorts Course 1	2	1	3	1	<b>7</b>
	Resorts Course 5	3	1	3	1	<b>8</b>
	Race Track & Stables	3	1	3	1	<b>8</b>
	Pinehurst Hardware & Rental	2	2	3	3	<b>10</b>
	Boles Funeral Home	2	2	2	1	<b>7</b>
	Macks Food Store 1	1	2	2	1	<b>6</b>
<b>W12</b>	Powerline South	2	1	3	1	<b>7</b>
<b>W13</b>	Powerline South	3	1	3	1	<b>8</b>
<b>W14</b>	NC Highway 2	3	3	3	3	<b>12</b>
	NC Highway 5	3	3	3	3	<b>12</b>
	CSX Railroad	3	3	3	3	<b>12</b>
	Golf Course Maintenance	1	2	3	3	<b>9</b>
	Resorts Course 2	2	1	3	1	<b>7</b>
	Resorts Course 3	3	1	3	1	<b>8</b>
	Resorts Course 4	2	1	3	1	<b>7</b>
	Resorts Course 5	3	1	3	1	<b>8</b>
	Resorts Clubhouse & Courts	3	1	3	1	<b>8</b>
	Lift Station	1	2	2	1	<b>6</b>

**Table 8 Numerical Risk Analysis(continued)**

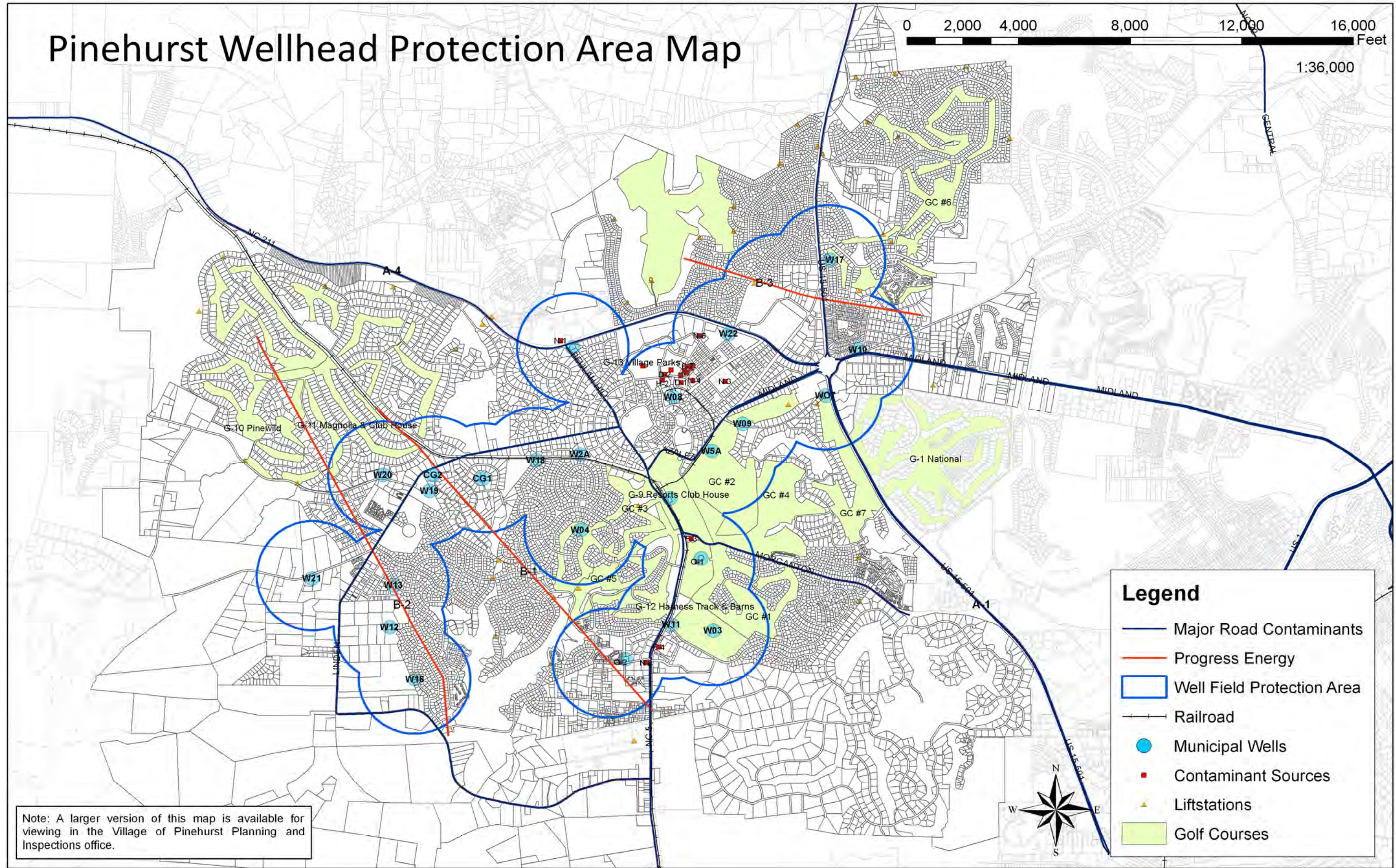
<b>Well</b>	<b>Potential Source Description</b>	<b>Proximity to Well</b>	<b>Quantity or volume</b>	<b>Relative Toxicity</b>	<b>Likelihood of Occurrence</b>	<b>Numerical Risk Ranking</b>
<b>W15</b>	NC Highway 5	3	3	3	3	<b>12</b>
	NC Highway 211	3	3	3	3	<b>12</b>
	Macks Food Store 1	3	2	2	1	<b>8</b>
<b>W16</b>	Powerline South	3	1	3	1	<b>8</b>
	Lift Station	1	2	2	1	<b>6</b>
<b>W17</b>	US Highway 15	3	3	3	3	<b>12</b>
	Powerline North	1	1	3	1	<b>6</b>
	Resorts Course 6	3	1	3	1	<b>8</b>
	Lift Station	1	2	2	1	<b>6</b>
<b>W18</b>	CSX Railroad	3	3	3	3	<b>12</b>
	Clarendon Gardens Subdiv.	2	1	2	1	<b>6</b>
<b>W19</b>	Powerline Central	3	1	3	1	<b>8</b>
	CSX Railroad	2	3	3	3	<b>11</b>
	Magnolia Course Clubhouse	1	1	3	1	<b>6</b>
	Clarendon Gardens Subdiv.	3	1	2	1	<b>7</b>
<b>W20</b>	Powerline Central	2	1	3	1	<b>7</b>
	CSX Railroad	2	3	3	3	<b>11</b>
	Pinewild Farm Course	1	1	3	1	<b>6</b>
	Magnolia Course Clubhouse	3	1	3	1	<b>8</b>
	Clarendon Gardens Subdiv.	2	1	2	1	<b>6</b>
<b>W21</b>	None noted	0	0	0	0	<b>0</b>
<b>W22</b>	NC Highway 211	3	3	3	3	<b>12</b>
	Davis Paint	1	2	3	3	<b>9</b>
	Antex Extermination Co.	1	2	3	3	<b>9</b>
	Village Printer	1	1	3	3	<b>8</b>
	Kelly Road Cleaners	1	2	3	2	<b>8</b>
	Macks Food Store 1	1	2	2	1	<b>6</b>
	Lift Station	1	2	2	1	<b>6</b>



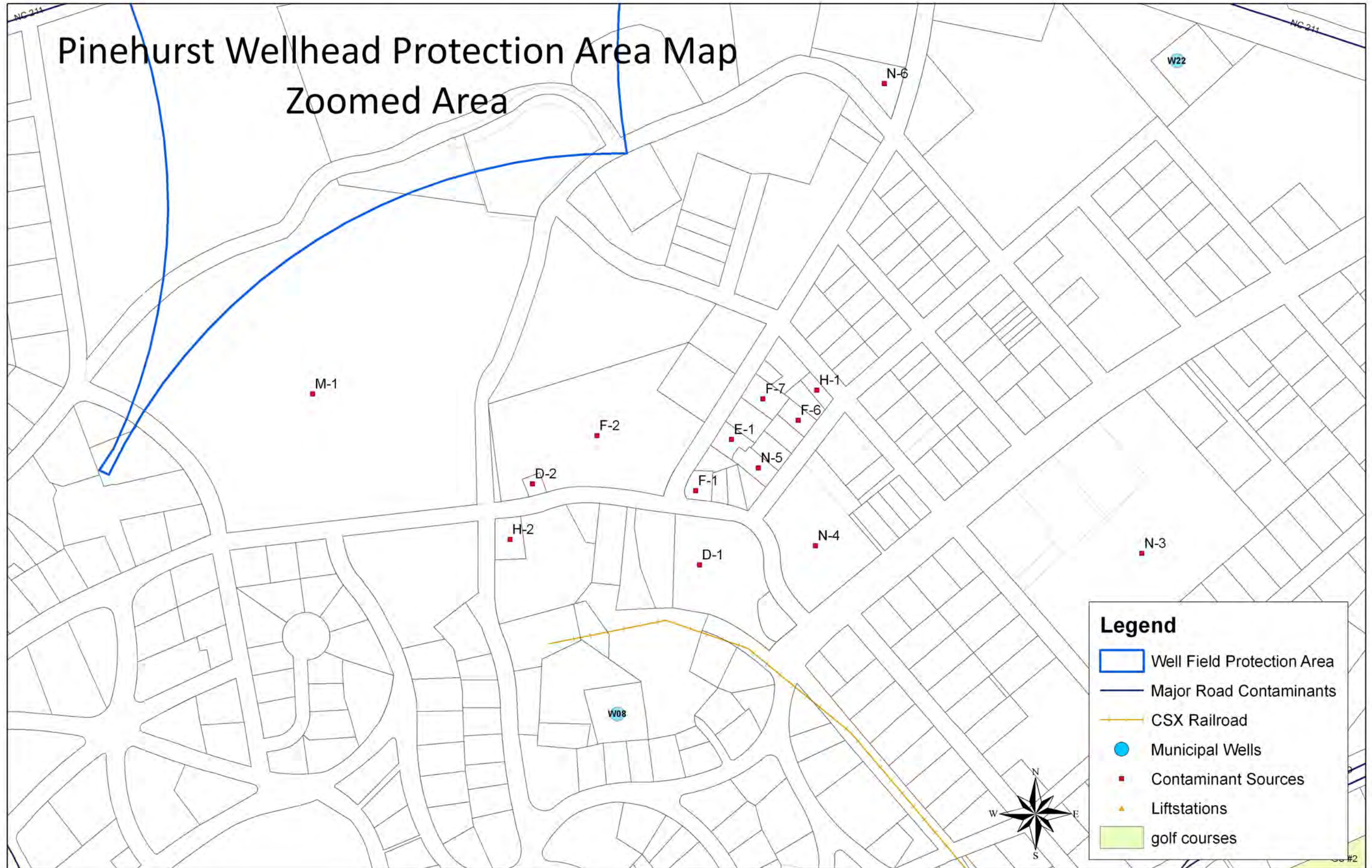
**Table 8 Numerical Risk Analysis (continued)**

<b>Well</b>	<b>Potential Source Description</b>	<b>Proximity to Well</b>	<b>Quantity or volume</b>	<b>Relative Toxicity</b>	<b>Likelihood of Occurrence</b>	<b>Numerical Risk Ranking</b>
<b>W23</b>	NC Highway 211	1	3	3	3	<b>10</b>
	Pinehurst Maint. Garage	1	3	2	2	<b>8</b>
	Abandoned Bulk Facility	2	3	2	2	<b>9</b>
	Village Car Wash	1	1	2	1	<b>5</b>
	Village Paint Store	1	2	3	3	<b>9</b>
	Southern Landscape Group	2	3	3	3	<b>11</b>
	Davis Paint	1	2	3	3	<b>9</b>
	Village Printer	1	1	3	3	<b>8</b>
	Tufts Cleaners	3	2	3	2	<b>10</b>
	Village Market Gas Station	1	3	2	2	<b>8</b>
	Village Parks	3	1	2	1	<b>7</b>
	Closed Landfill	3	3	3	2	<b>11</b>
	<b>W24</b>	NC Highway 211	3	3	3	3
Abandoned Bulk Facility		1	3	2	2	<b>8</b>
Village Car Wash		1	1	2	1	<b>5</b>
Village Paint Store		1	2	3	3	<b>9</b>
Southern Landscape Group		1	3	3	3	<b>10</b>
Davis Paint		1	2	3	3	<b>9</b>
Antex Extermination Co.		1	2	3	3	<b>9</b>
Village Printer		1	1	3	3	<b>8</b>
Kelly Road Cleaners		1	2	3	2	<b>8</b>
Village Parks		3	1	2	1	<b>7</b>
Manor Care Nursing Center		2	2	2	3	<b>9</b>
Village Market Gas Station		1	3	2	2	<b>8</b>





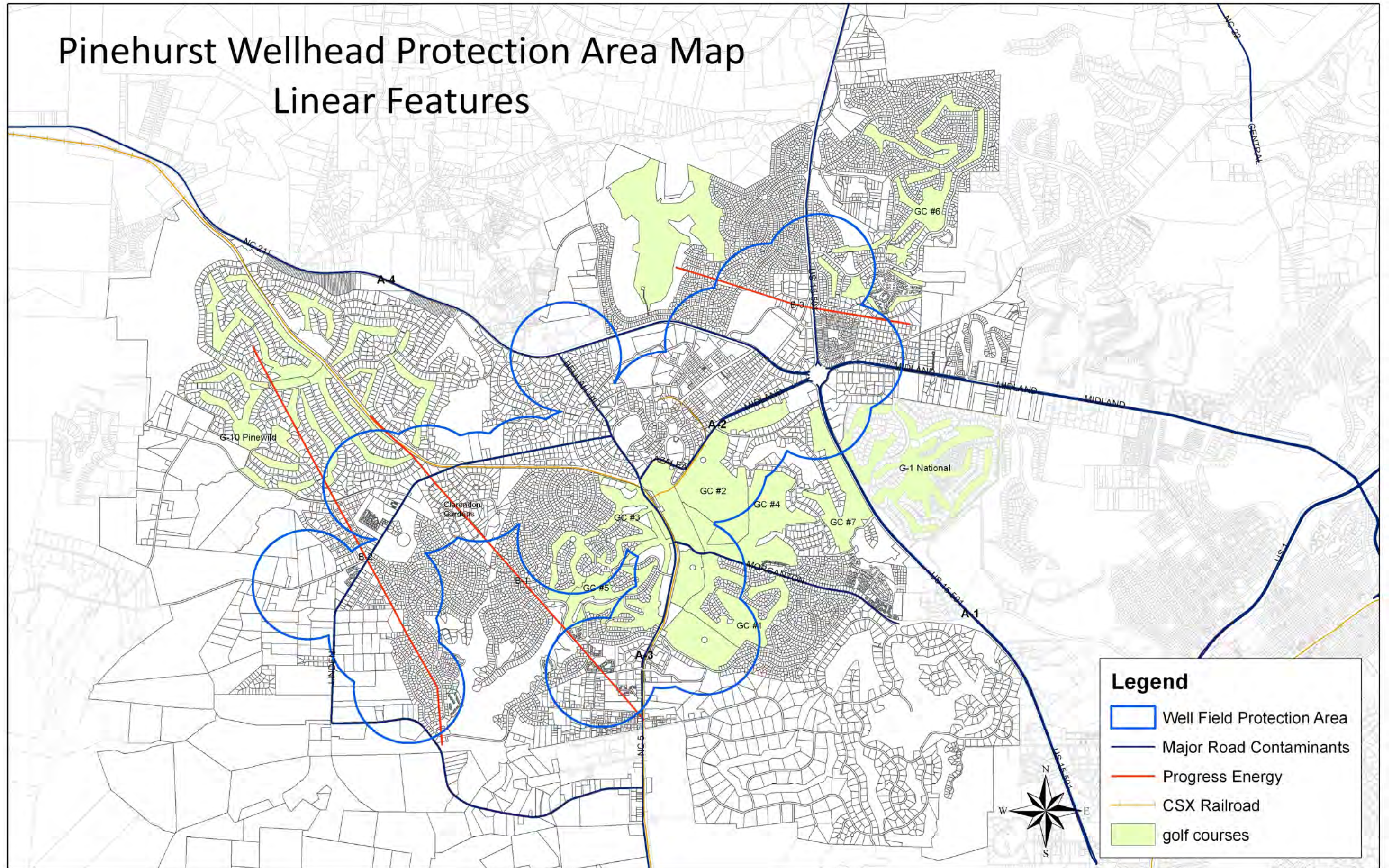






# Pinehurst Wellhead Protection Area Map

## Linear Features



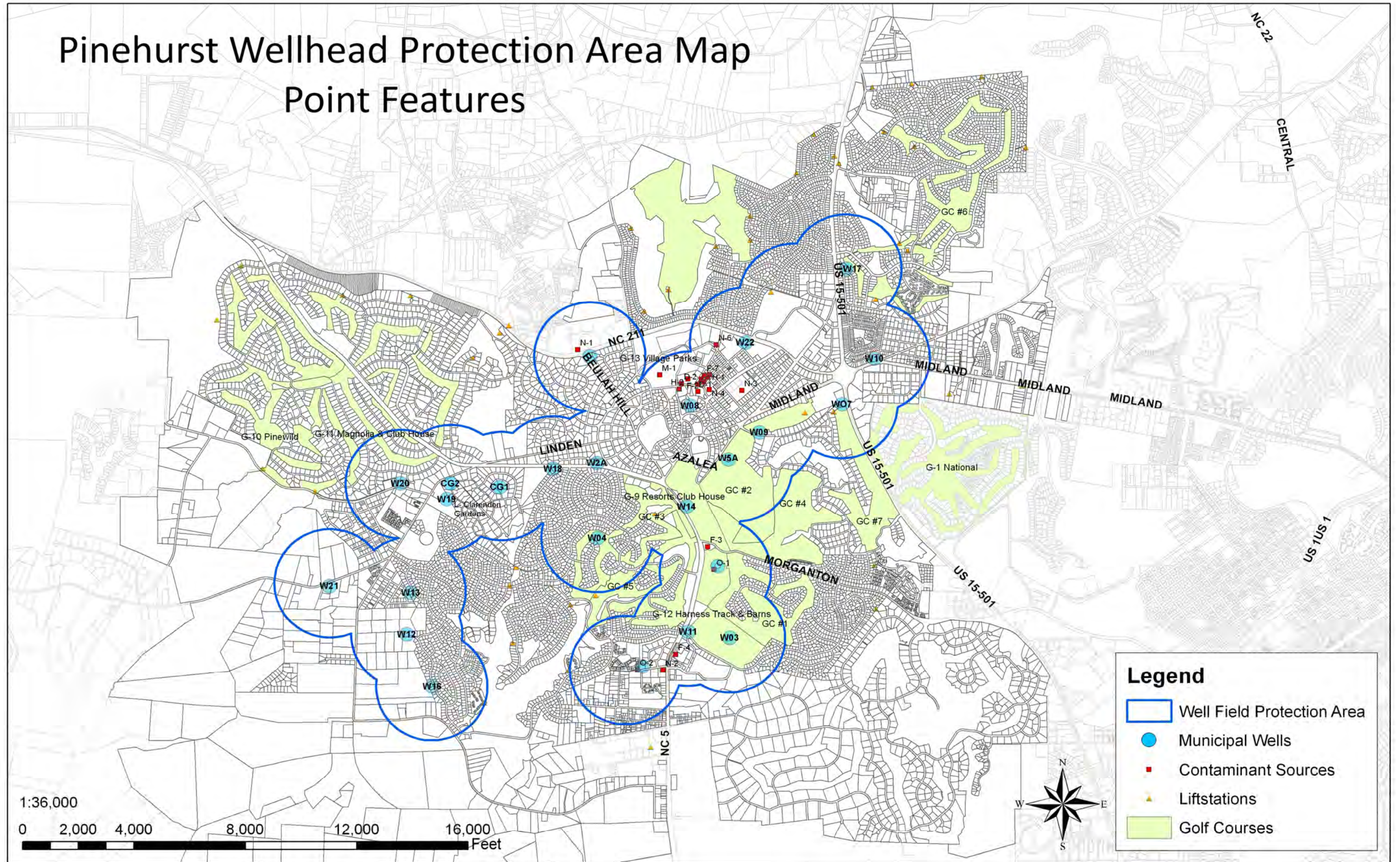
**Legend**

- Well Field Protection Area
- Major Road Contaminants
- Progress Energy
- CSX Railroad
- golf courses



# Pinehurst Wellhead Protection Area Map

## Point Features







**APPENDIX**

**WELLHEAD PROTECTION PLAN**

for

**The Village of Pinehurst,**  
Moore County, North Carolina  
PWS ID # 03-63-108

Website & Database Search Results

Well Construction Records

Inventory of Potential Contamination Sources

WEBSITE & DATABASE SEARCH FOR POTENTIAL SOURCES OF CONTAMINATION

1. 2002 Water Supply System Report:  
[http://www.ncwater.org/Water\\_Supply\\_Planning/Local\\_Water\\_Supply\\_Plan/search.php](http://www.ncwater.org/Water_Supply_Planning/Local_Water_Supply_Plan/search.php)
2. EPA's Envirofacts data warehouse (including Enviromapper) for information on air, community water sources, water dischargers, toxic releases, hazardous waste and superfund sites: <http://www.epa.gov/enviro/index.html>
3. Sourcewater Protection and Assessment in NC for information on Animal Operations, CERCLIS, NPL, NPDES, PCS, RCRA, septage disposal, soil remediation, and Tier II sites, non-discharge permits, landfills, pollution incidents, and UIC and UST permits: <http://204.211.89.20/Swap/>



**NC SWAPinfo**

Refresh Overview Map Zoom In Zoom Out Pan Previous Extent Full Extent Identify Query Locator PWS Buffer Select Clear Measure Set Units SWAP Reports Print Contact Us Help

To view the changes made in the visible column, press the refresh button above.

**Public Water Supply Sources**  
Visible Active

- Adjacent
- Campground
- Community
- Non-Transient Non-Community
- Transient Non-Community

Show Group Hide Group

**Wellhead Protection Areas**  
Visible Active

- Wellhead Protection Areas

Show Group Hide Group

**Ground Water Assessment Areas**  
Visible Active

- Ground Water Delineated Area
- Ground Water Zone A

Show Group Hide Group

**Surface Water Assessment Areas - Zones**  
Visible Active

- Watershed Boundary
- Protected Area Boundary (WS-IV and V only)
- Critical Area (NA for WS-I)
- Stream Zone

Show Group Hide Group

**Potential Contaminant Sources**  
Visible Active

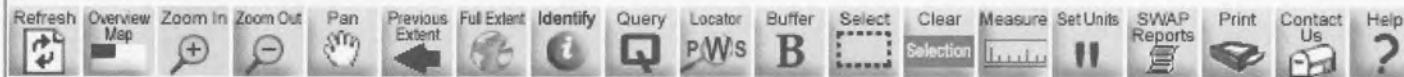
- Animal Operations

North

South

W E

NC SWAPinfo



To view the changes made in the visible column, press the refresh button above.

**Public Water Supply Sources**

Visible Active

- Adjacent
- Campground
- Community
- Non-Transient Non-Community
- Transient Non-Community

Show Group Hide Group

**Wellhead Protection Areas**

Visible Active

- Wellhead Protection Areas

Show Group Hide Group

**Ground Water Assessment Areas**

Visible Active

- Ground Water Delineated Area
- Ground Water Zone A

Show Group Hide Group

**Surface Water Assessment Areas - Zones**

Visible Active

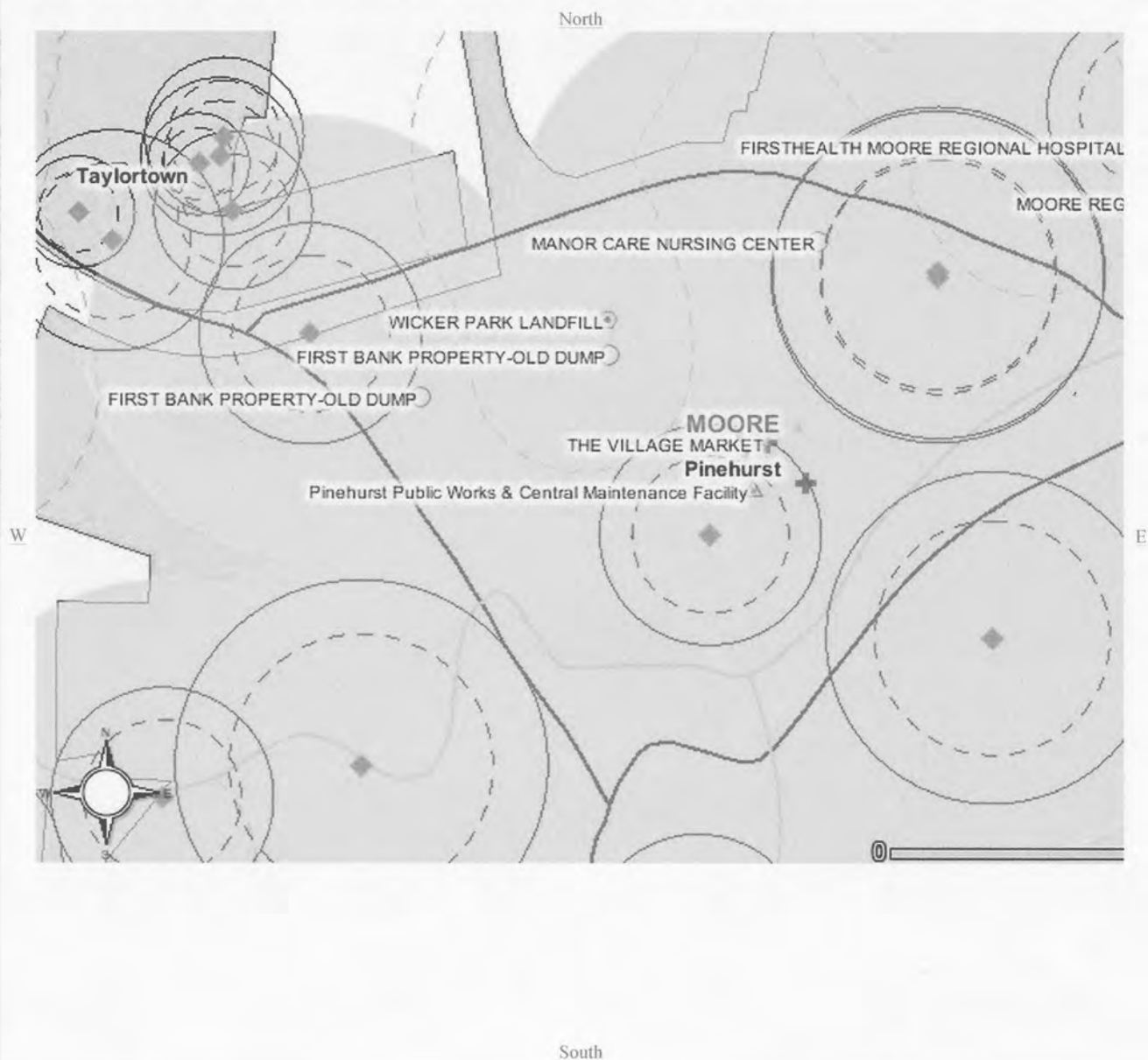
- Watershed Boundary
- Protected Area Boundary (WS-IV and V only)
- Critical Area (NA for WS-I)
- Stream Zone

Show Group Hide Group

**Potential Contaminant Sources**

Visible Active

- Animal Operations



**NC SWAPinfo**

Refresh Overview Zoom In Zoom Out Pan Previous Extent Full Extent Identify Query Locator Buffer Select Clear Measure Set Units SWAP Reports Print Contact Us Help

To view the changes made in the visible column, press the refresh button above.

**Public Water Supply Sources**  
Visible Active

- Adjacent
- Campground
- Community
- Non-Transient Non-Community
- Transient Non-Community

Show Group Hide Group

**Wellhead Protection Areas**  
Visible Active

- Wellhead Protection Areas

Show Group Hide Group

**Ground Water Assessment Areas**  
Visible Active

- Ground Water Delineated Area
- Ground Water Zone A

Show Group Hide Group

**Surface Water Assessment Areas - Zones**  
Visible Active

- Watershed Boundary
- Protected Area Boundary (WS-IV and V only)
- Critical Area (NA for WS-I)
- Stream Zone

Show Group Hide Group

**Potential Contaminant Sources**  
Visible Active

- Animal Operations

North

W E

South

Well Construction Records for wells in the Pinehurst System (PWSID 03-63-108)

W2A

W03

W04

W5A Replaces abandoned (grouted to land surface) well W05

W06

W07

W08 No construction record available

W09

W10

W11 No construction record available

W12

W13

W14

W15

W16

W17

W18

W19

W20

W21

W22

W23 Well is not part of system 03-63-108 (Irrigation for parks; not connected)

W24 Well is not part of system 03-63-108 (monitoring only, not connected)

CG1 Well is not part of system 03-63-108

CG2 Well is not part of system 03-63-108

MC Hosp Well is not part of system 03-63-108

W2A

**WELL CONSTRUCTION RECORD**

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

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

(Road, Community, or Subdivision and Lot No.)

2. OWNER MOWASA

ADDRESS PO Box 726

(Street or Route No.)

Carthage NC 28327

City or Town State Zip Code

3. DATE DRILLED 2/15/98 USE OF WELL Town

4. TOTAL DEPTH 155-170

5. CUTTINGS COLLECTED YES  NO

6. DOES WELL REPLACE EXISTING WELL? YES  NO

7. STATIC WATER LEVEL Below Top of Casing: 58 Ft.  
 (Use "+" if Above Top of Casing)

8. TOP OF CASING IS 2 FT. Above Land Surface\*

\* Casing Terminated at/or below land surface is illegal unless a variance is issued in accordance with 15A NCAC 2C .0118

9. YIELD (gpm): 132 METHOD OF TEST Pump

10. WATER ZONES (depth): As screened

11. CHLORINATION: Type HTH Amount 5lbs

12. CASING:

DEPTH		DRILLING LOG
From	To	Formation Description
0	2	Topsoil
2	12	Sandy Clay
12	28	Fine Sand
28	46	sandy clay
47	75	clay
75	98	sandy clay
98	155	sand
155	172	sandy clay
172	209	clay

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	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	75	Ft.	18"	3/8	Steel
0	107	Ft.	8	40	Steel
From	To	Ft.			

13. GROUT:

From	To	Depth	Material	Method
0	75	Ft.	cement	
From	To	Ft.		

14. SCREEN:

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

15. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
0	170	Ft.	pea	gravel
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.

*Wanda F. ...*

SIGNATURE OF CONTRACTOR OR AGENT

DATE

Submit original to Division of Environmental Management and copy to well owner.



Q/s = 3.64 @ 204

WELL RECORD

NORTH CAROLINA DEPARTMENT OF WATER AND AIR RESOURCES  
DIVISION OF GROUND WATER  
BOX 9392 - RALEIGH, N. C.

W03

Well 13

Drilling Contractor Carolina Well & Pump Co., Inc. Reg. No. 136

Well Permit No. 718

1. Town Pinehurst, N.C.  
2. Location well at race track

*Test well No 5*

County Moore

Quadrangle No. R49

Show a sketch of location on back of form

3. Owner Pinehurst, Inc.  
Address Pinehurst, N.C.

4. Topography: draw, slope, hilltop, valley, flat  
5. Use of Well town Date Completed 8/1/72

6. Rig type or method Rotary Total Depth 205 (154.8)

7. Casing: Depth 0 to 37 ft. Diam. 24 in. Type 94 1/2 S.S.

8. Grout: Depth 0 to 37 ft. Material \_\_\_\_\_ Method \_\_\_\_\_

9. Screen: Depth \_\_\_\_\_ Diam. \_\_\_\_\_ Type and opening \_\_\_\_\_  
From \_\_\_\_\_ to \_\_\_\_\_ ft. in. see attachment

11. Water Zones (depth) \_\_\_\_\_

12. Static Water Level: 47.3 ft. above 2 ft. below top of casing  
which is 2 ft. above land surface.  
Date 8/1/72

13. Yield (gpm) 204 Method of testing Pump

14. Pumping Water Level: 102 ft. after 24 hrs.  
at 204 gpm.  $Q_s = 204/103-49 = 204/56 = 3.64$

15. Water Quality \_\_\_\_\_

16. Well sterilization method 1 lb. of H.T.H.

17. Remarks: \_\_\_\_\_


(place this sheet over correct square on map, match corners and circle a dot at well location.)

10. Permanent Pump:

Installed- Date \_\_\_\_\_

By \_\_\_\_\_

Type \_\_\_\_\_ Make \_\_\_\_\_

Capacity \_\_\_\_\_ (gpm) Hp. \_\_\_\_\_

Intake depth \_\_\_\_\_

Airline depth \_\_\_\_\_

Temperature (°F) \_\_\_\_\_

RECEIVED

APR 24 1973

GROUND WATER DIVISION  
RALEIGH, N. C.

I do hereby certify that this well record is true and exact.

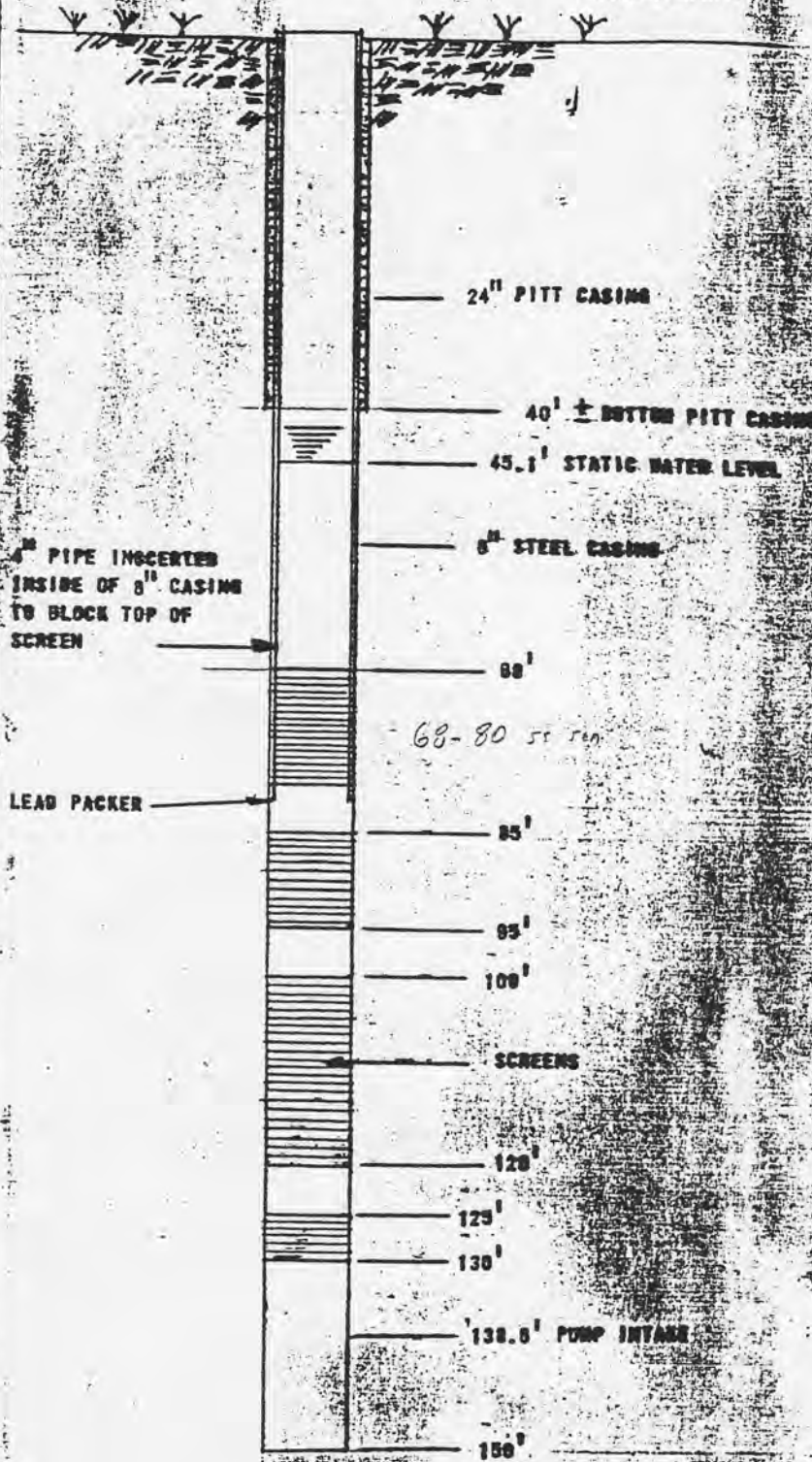
Walter B. Richard, Jr.  
SIGNATURE OF CONTRACTOR OR AGENT

PERMIT WELL

White copy - Department of Water & Air Resources; Blue-Drillers copy; Green-Owner's copy.

W03

LAND SURFACE



10ACS DISCHARGE HEAD  
 15 H.P. V.H.S. ELECTRIC MOTOR  
 1750 R.P.M. 60 CYCLE 3 PHASE 208V.  
 WP-1, 1.15 S.F., W/N.R.R.  
 22 STAGE 6 RM. BOWLS  
 160 S.P.M. 273 FT. PER CURVE 67.1

WELL NO. 3 - 1 MILE TRACK

VERTICAL SCALE

1" = 20'

W04

LAND SURFACE

WELL NO. 4  
COURSE NO. 3

WELL NO. 4  
COURSE NO. 3

19.5 STATIC  
WATER LEVEL

24" PITT CASING

40' ± BOTTOM OF  
PITT CASING

8" STEEL CASING

10000	DISCHARGE HEAD
20	H.P. V.H.S. ELECTRIC MOTOR
1750	R.P.M. 60 CLCLE 3 PHASE 208V.
WITH	N.R.R., No. 1, 15 S.F.
11	STAGE 8 EDK BOWLS
170-6	P.M. 304 FT. PER CURVE 809.

50' screens

SCREENS

112'

125' PUMP INTAKE

140'

WELL NO. 4 COURSE NO. 3

VERTICAL SCALE

1" = 20'





W5A

# NON RESIDENTIAL WELL CONSTRUCTION RECORD

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:

From	To	Depth	Diameter	Thickness/Weight	Material
From +3	To 92	Ft. 8"		40	Blk Steel
From 118	To 120	Ft. 8"		40	Blk Steel
From 130	To 132'	Ft. 8"		40	Blk Steel

### 8. GROUT:

Depth	Material	Method
From 0 To 52 Ft.	Cement	Pumped
From 0 To 3.5 Ft.	Cement	Pumped
From 3.5 To 75 Ft.	Bentonite	Pumped

### 9. SCREEN:

Depth	Diameter	Slot Size	Material
From 92 To 118 Ft.	8" in.	30 in.	SS
From 120 To 130 Ft.	8" in.	30 in.	SS
From To Ft.	in.	in.	

### 10. SAND/GRAVEL PACK:

Depth	Size	Material
From 75 To 135 Ft.	3/16	Cravel
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.

SIGNATURE OF CERTIFIED WELL CONTRACTOR DATE 7-17-07

Charles McCaskill  
PRINTED NAME OF PERSON CONSTRUCTING THE WELL

WELL RECORD

W06

NORTH CAROLINA DEPARTMENT OF WATER AND AIR RESOURCES  
DIVISION OF GROUND WATER  
BOX 9392 - RALEIGH, N. C.

WELL PH-60  
Pine Hill Tennis  
Club

R49x3

Drilling Contractor Carolina Well & Pump Co., Inc. Reg. No. 136

Well Permit No. 529

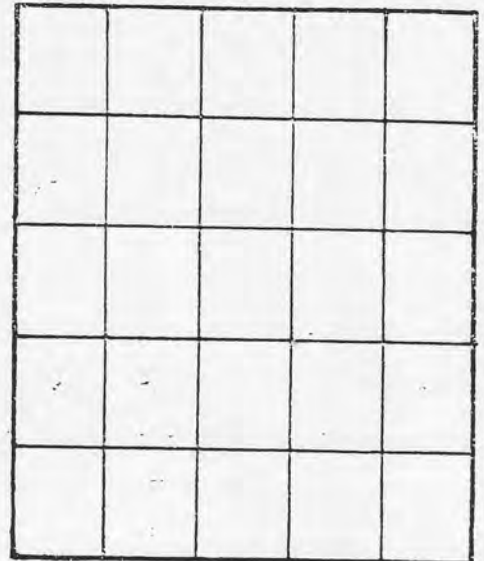
1. Town Pinehurst, N.C.

County Moore

2. Location \_\_\_\_\_  
Show a sketch of location on back of form # 6

Quadrangle No. \_\_\_\_\_

3. Owner Pinehurst, Inc.  
Address Pinehurst, N.C.



4. Topography: draw, slope, hilltop, valley, flat

5. Use of Well Town Date Completed 5/23/72

6. Rig type or method Rotary Total Depth 164

From	Depth	Diam.	Type
0	to 67	8 in.	29 Steel
90	94	8	29 Steel
117	140	8	29 Steel

8. Grout: Depth 0 to 141.4 ft. Material Cement Method Pump

From	Depth	Diam.	Type and opening
67	to 90	8 in.	S.S. 50
94	117	8	S.S. 50

11. Water Zones (depth) 67-117 (= 50') probably lower than aquifer interval

10. Permanent Pump:  
Installed- Date \_\_\_\_\_  
By \_\_\_\_\_  
Type \_\_\_\_\_ Make \_\_\_\_\_  
Capacity \_\_\_\_\_ (gpm) Hp. \_\_\_\_\_  
Intake depth \_\_\_\_\_  
Airline depth \_\_\_\_\_

12. Static Water Level: 19.5 ft. above/below top of casing  
which is 2 ft. above land surface.

Date 5/24/72 205 Avg

13. Yield (gpm) 208 Method of testing Pump

14. Pumping Water Level: 70.6 ft. after 24 hrs.  
at 208 gpm.

15. Water Quality \_\_\_\_\_ Temperature (°F) \_\_\_\_\_

16. Well sterilization method 5 lbs. H.T.H.

17. Remarks: \_\_\_\_\_

$AS = 56.1 \quad Q/S = 208/56.1 = 4.07$

PERMIT

I do hereby certify that this well record is true and exact.

WELL  
Signature of Contractor or Agent

RECEIVED  
MAY 24 1972

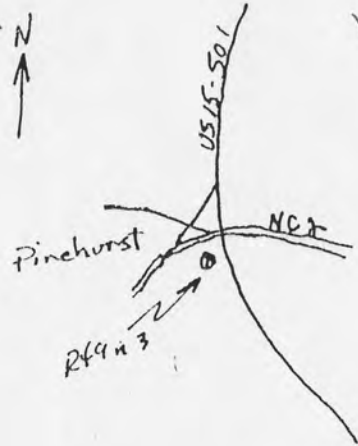
GROUND WATER DIVISION  
RALEIGH, N. C.

Well P14-7  
Hall of Fame  
R49r1

W07

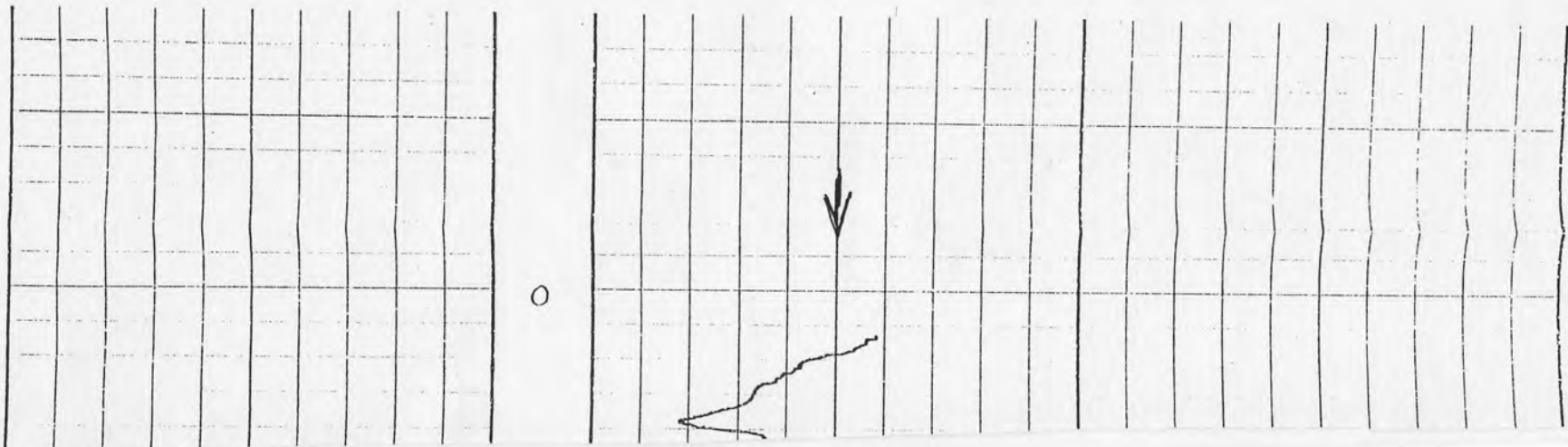
# GEOFYSICAL LOG

NORTH CAROLINA  
DIVISION OF GROUND WATER  
DEPARTMENT OF WATER AND AIR RESOURCES



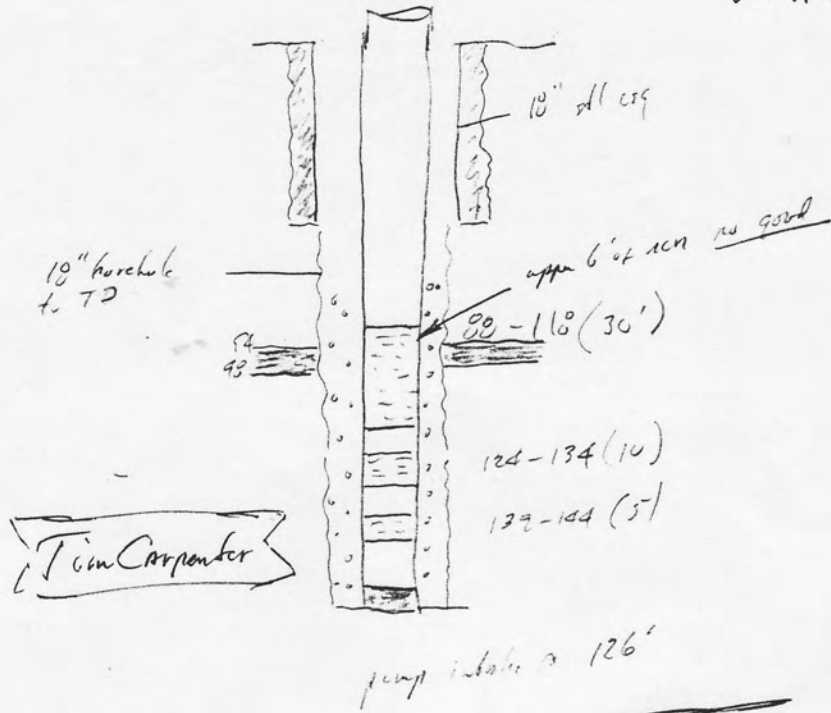
Pinehurst #11

LOG BY: R. L. Haynes DATE: 5-31-78 LOG NO. 1226  
 WELL NO. R-40, ~~used~~ R-1  
 LOCATION: Pinehurst COUNTY: Moore WCP 2698  
1000' S. of Int. of NC 2 and US 15-501 and 260' W. of US 15-501 at World Golf Hall of Fame  
 OWNER: Town of Pinehurst DRILLER: Carolina Well & Pump DATE DRILLED: 5-31-78  
 DEPTH: 142 ft. DIA.: 10 in CASING: none ft. ELEV.: \_\_\_\_\_ ref. MSL  
 POTENTIAL: 50 mv/10 div. RESISTIVITY: \_\_\_\_\_ ohms/10 div.  
 MR/HR: .005  
 LOGGING RATE: PR \_\_\_\_\_ .ft./min. GAMMA: 16 ft./min. T. C.: 2



W09

Well 19



Tim Carpenter

Cap of MB

K<sub>1</sub> = 240,000 income

2 1/2%

click set-up

water code

click short-cut

get screen R-hand side e-mail click

click on you want

~~Don-1~~

27 Craig R.  
Joan

Joan (HARVEY FARVER)

Kinsler  
MB-449-0782

Plc Circle  
put in mail



W10

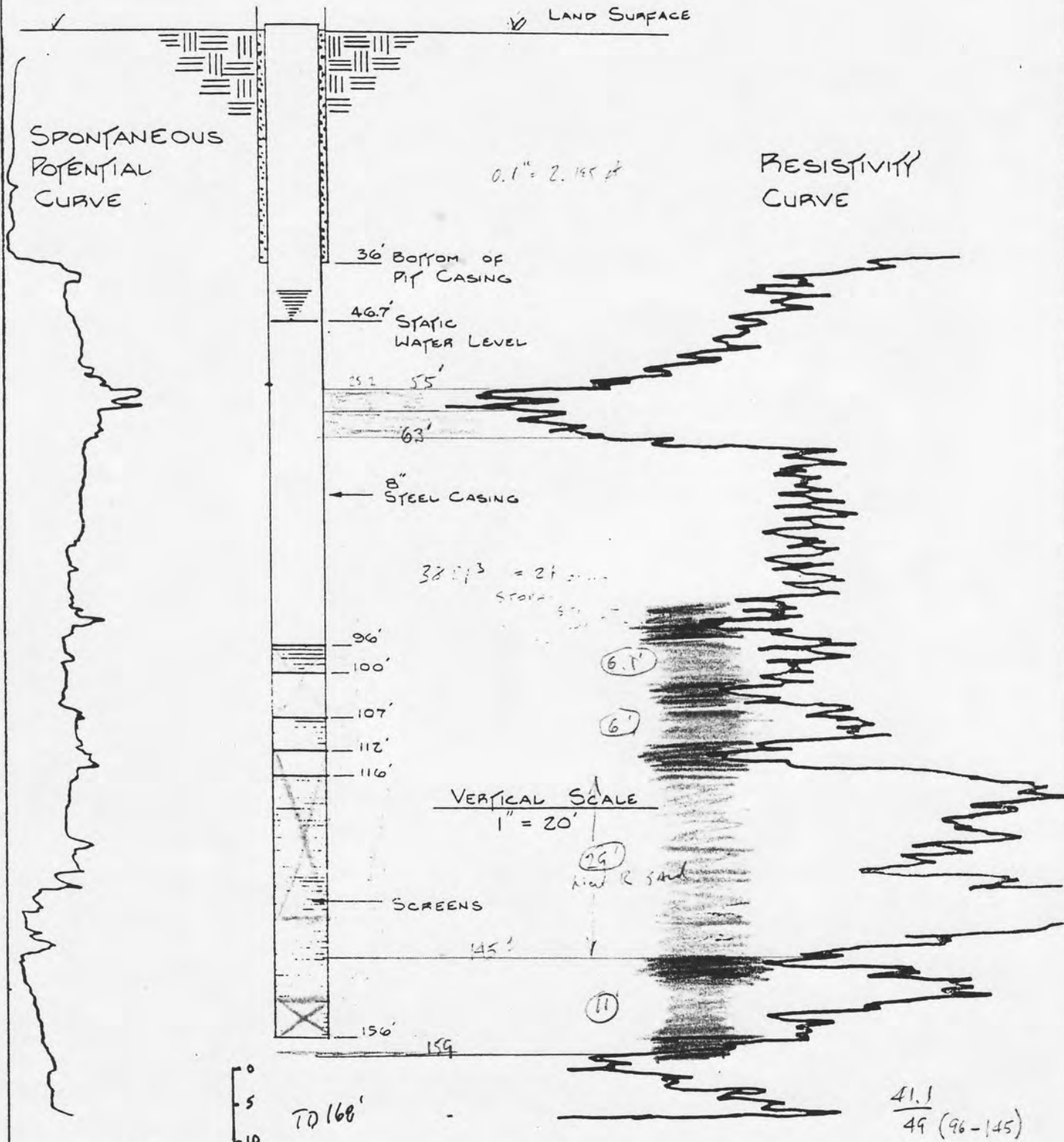


Figure 1 - Well Construction Details and Electric Log of Well No. 10

LMA = 96 - 156 (= 60')  
sands = 52'

52/60

41.1  
49 (96-145)

5 sands  
6.1  
6.0  
29

---

11  
52 normal

W12

PHASE II - TEST WELL NO. 1

PRODUCTION WELL NO. 12

PINEHURST WATER COMPANY

0 - 6	SAND
6 - 14	SAND - CLAY
14 - 26	CLAY
26 - 41	SAND
41 - 52	CLAY
52 - 56	SAND
56 - 63	CLAY
63 - 130	SAND
130 - 140	SAND - CLAY
140 - 204	CLAY
204 - 208	ROCK

W13

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

~~13~~ 13 ~~12/17~~

WELL RECORD

DRILLING CONTRACTOR CAROLINA WELL & PUMP CO., INC. REG. NO. 726 WELL CONSTRUCTION PERMIT NO. 37253

1. WELL LOCATION: (Show a sketch of the location on back of form)  
Nearest Town: Pinhurst County: Moore  
Forest Lane (Road, Community or Subdivision and Lot No.)  
Quadrangle No. \_\_\_\_\_

2. OWNER: PINEHURST, INC.  
3. ADDRESS: P.O. Box 8200 Pinhurst, 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 Wall thick. or Diam. weight /ft. Type  
From 0 to 20 ft. 18" 3/8 Steel  
0 80 8" 3/8 Steel  
1 114 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. <sup>above</sup> ~~38~~ 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: \_\_\_\_\_

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

$Q/S = \frac{140}{24} = 5.83$       $\frac{140}{41} = 3.4 \text{ gpm/ft}$   
 SUL = 38'     App sen = 80 ft  
 avail s = 42 ft

I do hereby certify that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT \_\_\_\_\_ DATE \_\_\_\_\_

W14

GEOPHYSICAL LOG

RH-14

NORTH CAROLINA GEOLOGICAL SURVEY SECTION

ORIGINAL

Well Code: 110-T-3-86 X-Ref: R 499 Date Drilled: 5/30/86 Date Logged: 5/30/86

County: Moore Latitude: 351117 Longitude: 792809 Elevation: 500 ft. (MSL) TD 165 ft.

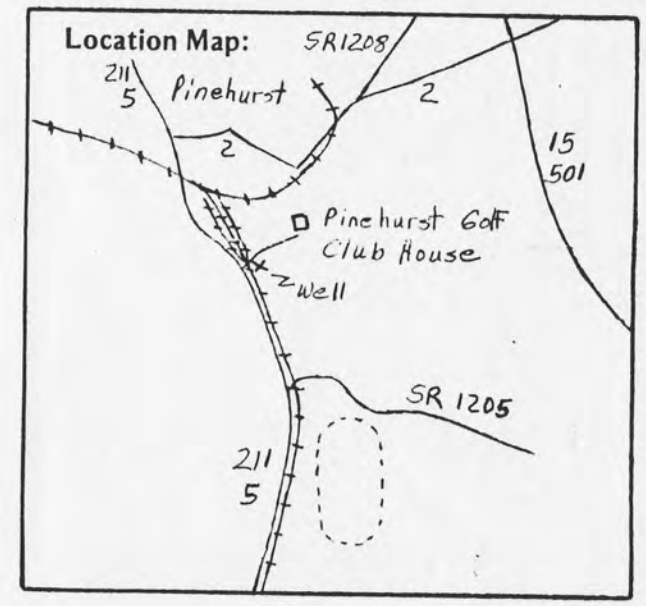
Owner: Pinehurst Enterprises Driller: Carolina Well & Pump (R. Patterson) Borehole Fluid: Super Gel X

Open-hole Diameter: 9 in. Casing Depth: 0 ft. Casing Diameter: N/A in. Witness: R. Patterson

Operator: J. Carraway Remarks: Well #14

Logging Parameters:

	scale	speed	direction	TC
Gamma	<u>25</u> units/in.	<u>18</u> ft./min.	<u>uphole</u>	<u>4</u> sec.
SP	<u>        </u> mv/in.	<u>        </u> ft./min.	<u>        </u>	<u>        </u>
SPR	<u>        </u> ohms/in.	<u>        </u> ft./min.	<u>        </u>	<u>        </u>

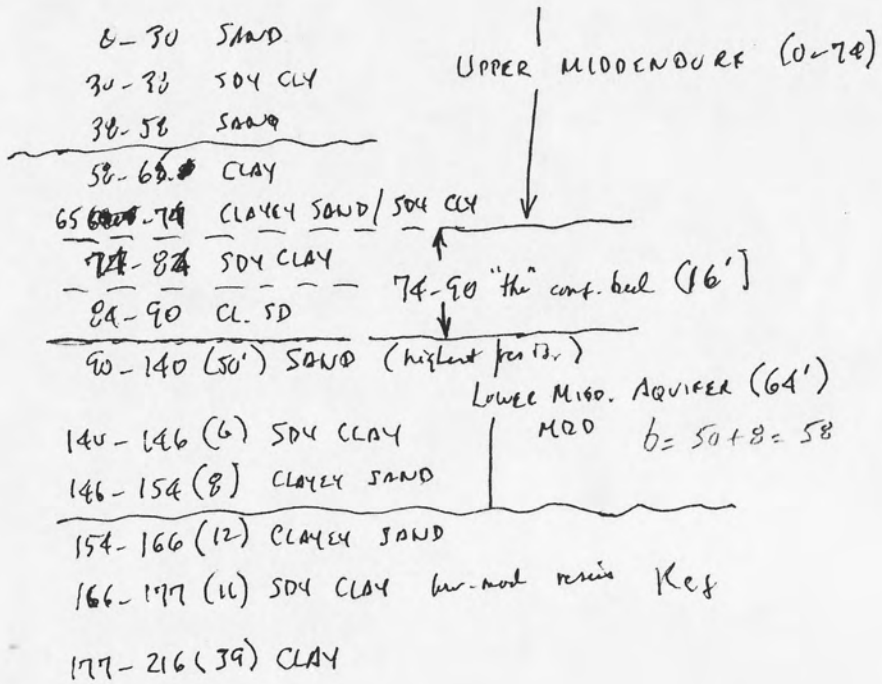


REQUESTED COPY



W15

Well 15



W16

Pinehurst Well # 16  
Lots 467-468

- 0 - 1 Top - Soil
- 1 - 16 Yellow sandy clay
- 16 - 23 Clay
- 23 - 48 Sand. Dry
- 48 - 67 Sandy clay
- 67 - 103 Good Sand
- 103 - 104 - Clay
- 104 - 113 - Sand.
- 113 - 125 Soft clay
- 125 - 140 Clay
- 140 - 144 hard clay

Herman GATTIS

JOE McDUGON

W17

17

**WELL CONSTRUCTION RECORD**

FOR OFFICE USE ONLY	
Quad. No. _____	Serial No. _____
Lat. _____	Long. _____ Pc _____
Minor Basin _____	
Basin Code _____	
Header Ent. _____	GW-1 Ent. _____

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: \_\_\_\_\_

County: MOORE

(Road, Community, or Subdivision and Lot No.)

2. OWNER PINEHURST ENTERPRISES INC.

ADDRESS P. O. BOX 182  
(Street or Route No.)  
PINEHURST NC 28374  
City or Town State Zip Code

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>

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

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.

W18

# Carolina Well & Pump Co. Inc.

Serving the Carolina's since 1961

DRILLER'S LOG  
PINEHURST  
WELL # 18  
DRILLER RONALD PATTERSON  
6-24-91

0	10	Sand & Clay	
10	20	Clay & Sand & Clay	
20	30	Sand & Clay	
30	40	Sand & Clay	
40	50	Sand & Clay	
50	60	Sand	
60	70	Sand	
70	80	Sand	
80	90	Clay & Sand	<i>= casing bed</i>
90	100	Sand	<i>Lower Middle Aquifer 90-150 (60')</i>
100	110	Sand	<i>90-130-40'</i>
110	120	Sand	
120	130	Sand	
130	140	Sand & Clay	<i>20' of cl. sands</i>
140	150	Sand & Clay	
150	160	Clay	
160	170	Clay & Straecks of Sand	
170	180	Clay & Streak of Sand	
180	190	Clay	
190	200	Clay	
200	210	Clay	

W19

**WELL CONSTRUCTION RECORD**

FOR OFFICE USE ONLY			
Quad. No.	Serial No.		
Lat.	Long.	Pc	
Minor Basin			
Basin Code			
Header Ent.		GW-1 Ent.	

DRILLING CONTRACTOR McClaskill 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 MONASA  
 ADDRESS S.R. 1100 4 miles S.E.  
Pine Bluff 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 151ft 4 in. CUTTINGS COLLECTED  Yes  No

5. DOES WELL REPLACE EXISTING WELL?  Yes  No

6. STATIC WATER LEVEL 49ft. FT.  above TOP OF CASING,  
 below TOP OF CASING IS 3 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): 200 METHOD OF TEST Pump

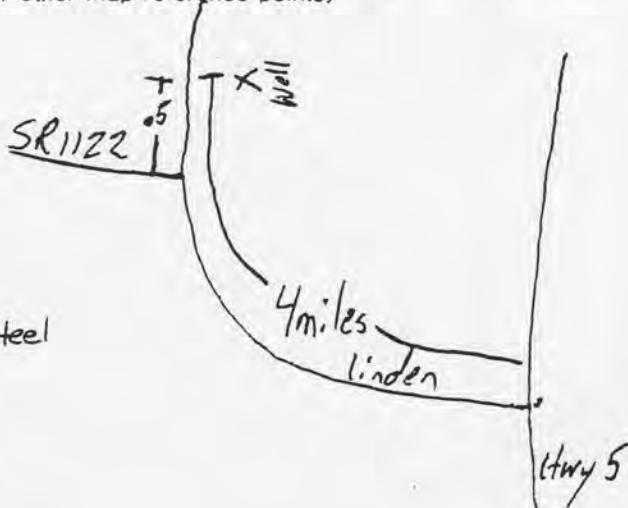
8. WATER ZONES (depth): 82 to 91 105 to 145

9. CHLORINATION: Type HTH Amount 1.5 pd.

10. CASING:

Depth	Diameter	Wall Thickness or Weight/Ft.	Material
From <u>-3</u> To <u>858</u> Ft.	<u>8 in.</u>	<u>STD</u>	<u>Black steel</u>
From <u>95</u> To <u>105</u> Ft.	<u>8 in.</u>	<u>STD</u>	<u>"</u>
From <u>146 4/8</u> To <u>151 4/8</u> Ft.	<u>8 in.</u>	<u>STD</u>	<u>"</u>

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>42</u> Ft.	<u>sand cement</u>	<u>Pumped</u>
From _____ To _____ Ft.	_____	_____

12. SCREEN:

Depth	Diameter	Slot Size	Material
From <u>858"</u> To <u>91</u> Ft.	<u>8</u> in.	<u>20</u> in.	<u>stainless steel</u>
From <u>105</u> To <u>146 4"</u> Ft.	<u>8</u> in.	<u>20</u> in.	<u>"</u>
From _____ To _____ Ft.	<u>0</u> in.	_____ in.	_____

13. GRAVEL PACK:

Depth	Size	Material
From <u>42</u> To <u>150</u> Ft.	<u>3/16</u>	<u>Wash stone</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 [Signature] DATE 11/20/96



W20

# Carolina Well & Pump Co. Inc.

*Serving the Carolina's since 1961*

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

Worth F. Pickard

Ronald D. Patterson

P.O. Box 1085 • 4900 Carbonton Road • Sanford, NC 27330 • 919-776-3415

221179

**WELL CONSTRUCTION RECORD**

WELL CONTRACTOR: Charles M. McClaskill, McClaskill Well Dr.  
 WELL CONTRACTOR CERTIFICATION #: 2769  
 STATE WELL CONSTRUCTION PERMIT#: Permit Pending

W21

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 Fo Fine 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  
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 lense
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

(Show direction and distance from at least two State Roads, or other map reference points)



From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	52.5	Ft.	18	.315	Black steel
-1.8	110	Ft.	8	.304	Black steel
135	160	Ft.	8	.304	Black steel

14. GROUT:

From	To	Depth	Material	Method
0	52.5	Ft.	Neat	Pump
0	52	Ft.	Neat	Pump

15. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
110	135	Ft.	8	60	in. Stainless steel
_____	_____	Ft.	_____	_____	_____
_____	_____	Ft.	_____	_____	_____

16. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
52	160	Ft.	Gravel Pack #3	Washed gravel
_____	_____	Ft.	_____	_____

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. \_\_\_\_\_

Charles M. McClaskill  
 SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE

Submit original to Division of Water Quality, Groundwater Section within 30 days

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 NC  
Carthage N.C. 28327  
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: 57.1 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

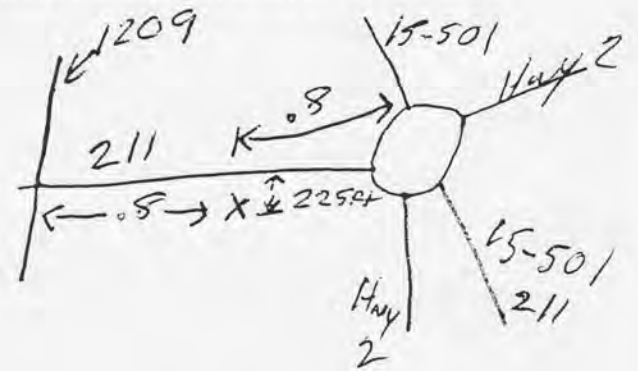
12. CHLORINATION: Type HTH Amount 2 lbs.  
13. CASING:

If additional space is needed use back of form

From	To	Depth	Diameter	Wall Thickness or Weight/Ft.	Material
0	54	Ft.	18	.275	black steel
-2	28	Ft.	8	.275	black steel
114	119	Ft.	8	.315	black steel

LOCATION SKETCH

(Show direction and distance from at least two State Roads, or other map reference points)



14. GROUT:

From	To	Depth	Material	Method
0	54	Ft.	Neat	pump
0	52	Ft.	Sand cement grout	pump

15. SCREEN:

From	To	Depth	Diameter	Slot Size	Material
0	114	Ft.	8	30 in.	Stainless steel
_____	_____	Ft.	_____	_____	_____
_____	_____	Ft.	_____	_____	_____

16. SAND/GRAVEL PACK:

From	To	Depth	Size	Material
52	140	Ft.	3/16	washed gravel
_____	_____	Ft.	_____	_____

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. \_\_\_\_\_

Charles McCaskill  
SIGNATURE OF PERSON CONSTRUCTING THE WELL DATE 8-2-02  
Submit original to Division of Water Quality, Groundwater Section within 30 days



## Inventory of Potential Contaminant Sources

National Golf Club  
Resorts Course 1  
Resorts Course 2  
Resorts Course 3  
Resorts Course 4  
Resorts Course 5  
Resorts Course 6  
Resorts Course 7  
Resorts Club House & courts  
Pinewild Farm Course  
Magnolia & Club House  
Race Track & barns  
Closed Landfill (Wicker Park or First Bank property)  
Rassie Wicker Park  
Cannon Park  
US 15 Highway  
NC Highway 2  
NC Highway 5  
NC Highway 211  
Powerline North  
Powerline Central  
Powerline South  
CSX Railroad  
Clarendon Gardens Subdivision  
Lift stations  
Pinehurst Maintenance Garage  
Abandoned Bulk Facility  
Village Car Wash  
Village Paint Store  
Southern Landscape Group  
Golf Course Maintenance  
Davis Paint  
Antex Exterminating Co.  
Village Printer  
Kelly Road Cleaners  
Tufts Cleaners  
Boles Funeral Home  
Macks Food Store 1  
Short Stop 78  
Pinehurst Elementary School  
Bill Clark Chevrolet Cadillac  
Village Market Gas Station  
Short Stop 77  
Moore County Regional Hospital  
MCPU Well W01  
MCPU Well W06  
Manor Care Nursing Center  
Irrigation Wells are not depicted due to ubiquity

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

FACILITY NAME: NATIONAL GOLF CLUB

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: PINEHURST NATIONAL GOLF CLUB, INC.

ADDRESS: ONE ROYAL TROON DR.  
PINEHURST, NC 28374

PHONE #: \_\_\_\_\_

CLOSEST WELL # W07, W10

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W07 1400'  
W10 1800'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: RESORTS COURSE 1

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC.

ADDRESS: 301 COMMERCE ST., STE 1900  
FT WORTH TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W03 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W01 500'  
W03 750'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: RESORTS COURSE 2

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST, STE 1900  
FT WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W09, W5A, W07, VILLAGE OF PINEHURST  
W14, W01

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W09 100'  
W05 100'  
W07 900'  
W14 600'  
W01 1100'

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

GH

FACILITY NAME: RESORTS COURSE 3

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST., STE 1900  
FT WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W04, W14 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W04 100'  
W14 300'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

43

FACILITY NAME: RESORTS COURSE 4

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST., STE 1900  
FT, WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W14 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W101  
W01 600  
W14 500  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES GG

FACILITY NAME: RESORT COURSE 5

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST, STE 1900  
FT WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W01 W11 W14 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W01 700  
W11 <500  
W14 600'  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: RESORTS COURSE 6

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST., STE. 1500  
FT WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W17

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>PESTICIDES HERBICIDES, FORT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

100' W17  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



INVENTORY OF POTENTIAL CONTAMINATION SOURCES 98

FACILITY NAME: RESORTS COURSE 7

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC.

ADDRESS: 301 COMMERCE ST., STE 1100  
FT. WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W07

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>PESTICIDES, HERBICIDES, FERT,</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W07 100'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: RESORTS CLUB HOUSE & COURTS

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST., STE 1900  
FT. WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W14 W05 W01 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDES, HERBICIDES, FERT.</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY'S</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W01 700'  
W05 1200'  
W14 100'  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: PINEWILD FARM COURSE

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: PINEWILD COUNTRY CLUB

ADDRESS: PO BOX 3369  
PINEHURST, NC 28374

PHONE #: \_\_\_\_\_

CLOSEST WELL # W20 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDES, HERBICIDES</u>	<u>SMALL</u>
<u>FERTILIZER, APPLICATION</u>	<u>QTY'S</u>
<u>@ AGRICULTURAL RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W20 500'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

FACILITY NAME: MAGNOLIA & CLUB HOUSE

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: PINEHURST COUNTRY CLUB

ADDRESS: PO BOX 3369  
PINEHURST, NC 28374

PHONE #: \_\_\_\_\_

CLOSEST WELL # W20 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>PESTICIDE, HERBICIDE, FERT</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W20 700'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

G12

FACILITY NAME: RACE TRACK & BARN

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: VILLAGE OF PINEHURST

ADDRESS: PO BOX 5589  
PINEHURST, NC 28374

PHONE #: \_\_\_\_\_

CLOSEST WELL # W11, W03, W11 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDE, HERBICIDE, FERT,</u>	<u>SMALL</u>
<u>APPLICATION @ AGRICULTURAL</u>	<u>QTY</u>
<u>RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W01 400'  
W03 400'  
W11 400'  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: CLOSED LANDFILL (FRYE PROPERTY)

ADDRESS: HWY 211  
PINEHURST, NC (FIRST BANK PROP.)

PHONE #: \_\_\_\_\_

OWNER'S NAME: FIRST BANK - ANNA G. MANESS

ADDRESS: PO BOX 508  
TROY, NC 27271

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>SOLID WASTE</u>	<u>HIGH*</u>
_____	_____
<u>* ARBITRARY</u>	_____
_____	_____
<u>INCIDENT 10157</u>	_____
<u>NOTICE OF REGULATORY REQUIREMENTS</u>	_____

8/28/01 REQUIRED SOIL REPORT OR LIMITED SITE ASSESSMENT

ADDITIONAL INFORMATION:

W23 400'

W08 1600'

VILLAGE GARBAGE FROM 1900-

1970

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

Source Code \_\_\_\_\_

Closest Well \_\_\_\_\_

FACILITY NAME: RASSIE WICKER PARK

ADDRESS:  
\_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER/RP:  
VILLAGE OF PINEHURST  
PO BOX 5589  
PINEHURST, NC 28344

PHONE #: (910) 295-1900

MUNICIPALITY: \_\_\_\_\_

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>LARGE OPEN AREA,</u> <u>WALKING PATHS.</u>	
<u>HERBICIDES, PESTICIDES,</u> <u>APPLICATION</u>	<u>FERTILIZER</u> <u>SMALL</u> <u>QTY'S</u>

ADDITIONAL INFORMATION:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

Source Code \_\_\_\_\_

Closest Well \_\_\_\_\_

FACILITY NAME: CANNON PARK

ADDRESS:  
\_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER/RP:  
VILLAGE OF PINEHURST  
PO BOX 5529  
PINEHURST, NC 28344

PHONE #: (910) 295-1900

MUNICIPALITY: \_\_\_\_\_

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>SOCCER &amp; BALL FIELDS</u>	
<u>HERBICIDES, PESTICIDES, FERTILIZERS</u>	<u>SMALL</u>
<u>APPLICATION</u>	<u>QTY'S</u>
_____	
_____	

ADDITIONAL INFORMATION:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

FACILITY NAME: US HIGHWAY 15

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: NC DOT

ADDRESS: P O BOX 1067  
ABERDEEN, NC 28315

PHONE #: (910) 944-7621

CLOSEST WELL # 7, 10, 17

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>TANKER TRUCKS</u>	_____
<u>PETROLEUM</u>	<u>± 10,000-gal</u>
<u>ACID-BASES-SOLVENTS</u>	_____
<u>CHEMICALS, INDUSTRIAL</u>	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

7 - 500'  
10 - 1000'  
17 - 600  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: NC HIGHWAY 2

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: NC DOT

ADDRESS: P O BOX 1067  
ABERDEEN, NC 28315

PHONE #: (910) 944-7621

CLOSEST WELL # W10, W09, W5A, W07 VILLAGE OF PINEHURST  
W14

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>TANKER TRUCKS:</u>	_____
<u>PETROLEUM</u>	<u>± 10,000-gal</u>
<u>ACID-BASE - SOLVENTS</u>	_____
<u>INDUSTRIAL CHEMICALS</u>	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W5A > 500'  
W09 > 1000'  
W07 > 1000'  
W10 < 500'  
W14 < 1000'

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: NC HIGHWAYS

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: NCDOT

ADDRESS: PO BOX 1067  
ABERDEEN, NC 28315

PHONE #: (910)944-7621

CLOSEST WELL # W15, W2A, W14, W01 VILLAGE OF PINEHURST  
W11, W06

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>TANKER TRUCKS</u>	_____
<u>PETROLEUM</u>	<u>± 10,000-gal</u>
<u>ACIDS BASES SOLVENTS</u>	_____
<u>INDUSTRIAL CHEMICALS</u>	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W15 < 500      W06 1400

W2A > 1500'

W14 \$100

W01 1100

W11 > 100'

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: NC HIGHWAY 211

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: NC DOT

ADDRESS: P O BOX 1067  
ABERDEEN, NC 28315

PHONE #: (910) 944-7621

CLOSEST WELL # W15, W10, W07, W07 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>TANKER TRUCKS</u>	_____
<u>PETROLEUM</u>	<u>±10,000 gal</u>
<u>ACIDS BASES SOLVENTS</u>	_____
<u>INDUSTRIAL CHEMICALS</u>	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W15 100'  
W10 300'  
W24 500'  
W07 800'

# INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: CPEL POWER LINE NORTH

ADDRESS: SEE MAP

PHONE #: \_\_\_\_\_

OWNER'S NAME: PROGRESS ENERGY

ADDRESS: \_\_\_\_\_

PHONE #: (800) 452-2777

CLOSEST WELL # W17, W18

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>POWER LINE -</u>	<u>SMALL</u>
<u>HERBICIDES APPLICATION</u>	
<u>AT AGRICULTURAL RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W17 1500'

W18 2000'

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

B2

FACILITY NAME: CPEL POWER LINE CENTRAL

ADDRESS: SEE MAP

PHONE #: \_\_\_\_\_

OWNER'S NAME: PROGRESS ENERGY

ADDRESS: \_\_\_\_\_

PHONE #: (800) 452-2777

CLOSEST WELL # W20 W19 W06 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>POWER LINE</u>	_____
<u>HERBICIDE APPLICATION</u>	<u>SMALL</u>
<u>AT AGRICULTURAL RATES</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W20 74500'

W19 700'

W06 500'

\_\_\_\_\_

\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: CPEL POWER LINE SOUTH

ADDRESS: SEE MAP

PHONE #: \_\_\_\_\_

OWNER'S NAME: PROGRESS ENERGY

ADDRESS: \_\_\_\_\_

PHONE #: (800) 452-2777

CLOSEST WELL # W20 W13 W12 W16 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>POWER LINE</u>	<u>SMALL</u>
<u>HERBICIDE APPLICATION</u>	
<u>AT AGRICULTURAL RATES</u>	
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W20 1500

W13 200'

W12 >1000'

W16 >1000'

\_\_\_\_\_

\_\_\_\_\_

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

FACILITY NAME: NO CSX RAILROAD

ADDRESS: PUBLIC SAFETY COORDINATION CENTER

EMER. PHONE #: (800) 232-6144

OWNER'S NAME: CSX

ADDRESS: \_\_\_\_\_

ENVIRONMENTAL: \_\_\_\_\_  
PHONE #: \_\_\_\_\_

CLOSEST WELL # W20, W19, W18, W2A, W14, W01, W11, W06, W5A, W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES: QUANTITY:

<u>RAILROAD TANKER CARS</u>	_____
<u>PETROLEUM</u>	<u>± 20,000-gal</u>
<u>ACIDS BASICS SOLVENTS</u>	_____
<u>INDUSTRIAL CHEMICALS</u>	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

<u>W20</u>	<u>1500</u>	<u>W01</u>	<u>600'</u>
<u>W19</u>	<u>1100</u>	<u>W11</u>	<u>300'</u>
<u>W18</u>	<u>250'</u>	<u>W06</u>	<u>1000'</u>
<u>W2A</u>	<u>500'</u>	<u>W05</u>	<u>300'</u>
<u>W14</u>	<u>200'</u>	<u>W08</u>	<u>500'</u>



INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: SEPTIC SYSTEMS @

ADDRESS: CLARENDON GARDENS  
PINEHURST, NC

PHONE #: \_\_\_\_\_

OWNER'S NAME: VARIOUS

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

CLOSEST WELL # W18 W19 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

SEPTIC TANKS, ABOUT	- LOW -*
90-120	_____
AVE WATER USE ~ 3000-gal	_____
MO.	_____
_____	_____
_____	_____
* ARBITRARILY RANKED	_____

ADDITIONAL INFORMATION:

W18 1100'  
W19 200'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

FACILITY NAME: LIFT STATIONS

ADDRESS: SEE MAP.

PHONE #: (910) 947-6315

OWNER'S NAME: MOORE CO. PUBLIC UTILITIES

ADDRESS: PO BOX 1927  
CARTHAGE, NC 28327

PHONE #: \_\_\_\_\_

CLOSEST WELL # \_\_\_\_\_ VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>SEWAGE</u>	<u>± 1000 - gal</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

INSPECTED 3X WEEK

INVENTORY OF POTENTIAL CONTAMINATION SOURCES DI

FACILITY NAME: PINEHURST MAINTENANCE GARAGE

ADDRESS: M<sup>c</sup>CASKILL ROAD E.  
PINEHURST

PHONE #: (910) 295-0005

OWNER'S NAME: VILLAGE OF PINEHURST

ADDRESS: PGA BLVD, PO BOX 5589  
PINEHURST, NC 28374

PHONE #: (910) 295-1900

CLOSEST WELL # W08

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>AST DIESEL</u>	<u>3000-gal</u>
<u>AST GAS</u>	<u>5000-gal</u>
<u>CLOSED OUT: 250, 550, 550,</u>	
<u>\$ 10,000-gal UST</u>	

ADDITIONAL INFORMATION:

W08 600'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES D-2

FACILITY NAME: ABANDONED BULK FACILITY

ADDRESS: LOT 109 110, MCCASKIL RD  
PINEHURST, NC

PHONE #: \_\_\_\_\_

OWNER'S NAME: JOHN O'MALLEY, O'MALLEY INVESTMENTS

ADDRESS: 5200 W LOOMIS RD  
GREEN DALE, WI 53129

PHONE #: \_\_\_\_\_

ZONE # W08 MUNICIPALITY: PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>AST'S, MULTIPLE</u>	<u>N 30,000-gal</u>
<u>NO CONTAINMENT BERM</u>	_____
<u>TANKS ARE EMPTY</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

FIRE MARSHALL INSPECTED  
TANKS W/ MEMBER OF WELLHEAD  
COMMITTEE

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: VILLAGES CAR WASH

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: GENE BURNS

ADDRESS: 32413 HWY 1 S  
ABERDEEN, NC 28315

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>AUTOMOBILE RESIDUALS TO</u>	<u>SMALL QTY</u>
<u>STORM SEWER</u>	
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W08 1200'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES F1

FACILITY NAME: VILLAGE PAINT STORE

ADDRESS: OWENS  
1595

PHONE #: \_\_\_\_\_

OWNER'S NAME: MS OWENS

ADDRESS: 1095 MORGANTOWN RD  
PINEHURST, NC 28374

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

PAINTS, SOLVENTS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

~ 1500-gal TOT.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ADDITIONAL INFORMATION:

W08 < 1000'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FZ

FACILITY NAME: SOUTHERN LANDSCAPE GROUP

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: MOORE INVESTMENT GROUP

ADDRESS: PO BOX 1823  
PINEHURST, NC 28370

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

FERTILIZER  
\_\_\_\_\_  
PESTICIDES  
\_\_\_\_\_  
HERBICIDES  
\_\_\_\_\_  
SPRAYERS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

~ 1500 lbs  
\_\_\_\_\_  
\_\_\_\_\_  
200-gal  
\_\_\_\_\_  
\_\_\_\_\_

ADDITIONAL INFORMATION:

W08 1200'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES F3

FACILITY NAME: RESORTS GOLF COURSE MAINTENANCE

ADDRESS: MORGANTOWN RD  
PINEHURST, NC

PHONE #: (910) 295-6811

OWNER'S NAME: RESORTS OF PINEHURST, INC

ADDRESS: 301 COMMERCE ST, STE 1900  
FT WORTH, TX 76102

PHONE #: \_\_\_\_\_

CLOSEST WELL # W01

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>PESTICIDES</u>	<u>~ 200-gal</u>
<u>HERBICIDES</u>	<u>~ 200-gal</u>
<u>FERTILIZER</u>	<u>&gt; 1000- bbls</u>
<u>WASTE OIL</u>	<u>500-gal</u>
<u>BATTERY ACID</u>	<u>~ 50-gal</u>
<u>UST HTG OIL</u>	<u>550-gal</u>
_____	_____

ADDITIONAL INFORMATION:

W01 1000'

INCIDENT NO. 22760  
PHASE II LSA REQUIRED

INVENTORY OF POTENTIAL CONTAMINATION SOURCES F4

FACILITY NAME: DAVIS PAINT

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: GREGG BENNETT

ADDRESS: 141 POND VIEW LN  
CARTHAGE, NC 28327

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

PAINTS, SOLVENTS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

~ 1500-gal  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ADDITIONAL INFORMATION:

W08 1500'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

F5

FACILITY NAME: ANTEK EXTERMINATING CO.

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: W. D. PROPERTIES (PROPERTY)

ADDRESS: PO BOX 582  
SOUTHERN PINES, NC 28388

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08

VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

PESTICIDES  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

< 500-gal  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ADDITIONAL INFORMATION:

W08 1500'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES F6

FACILITY NAME: VILLAGE PRINTER

ADDRESS: 50 RATTLESNAKE TR.  
PINEHURST, NC 28347

PHONE #: 295-6317

OWNER'S NAME: TONY GILLEY

ADDRESS: PO BOX 2139  
PINEHURST NC 28347

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>SOLVENTS</u>	<u>&lt;50-gal</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:  
W08 1500'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

H1

FACILITY NAME: KELLY RD CLEANERS

ADDRESS: KELLY RD, MCINTYRE RDS.  
PINEHURST

PHONE #: (910) 295-4932

OWNER'S NAME: HARBOUR LAUNDRY CENTER.

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>DRY CLEANING</u>	<u>&lt; 200-gal</u>
<u>SOLVENTS</u>	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W08 1300  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



INVENTORY OF POTENTIAL CONTAMINATION SOURCES H2

FACILITY NAME: TUFTS CLEANERS

ADDRESS: PO BOX 4065  
PINEHURST, NC 28374

PHONE #: \_\_\_\_\_

OWNER'S NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>DRY CLEANING SOLVENTS</u>	<u>&lt; 200-gal</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W08 800'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES

FACILITY NAME: BOLES FUNERAL HOME

ADDRESS: 35 PARKER LANE  
PINEHURST

PHONE #: (910) 692-6262

OWNER'S NAME: BOLES FUNERAL HOME

ADDRESS: \_\_\_\_\_  
SOUTHERN PINES, NC

PHONE #: \_\_\_\_\_

CLOSEST WELL # W11 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>EMBALMING FLUIDS</u>	<u>2200 gal</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

W11 1100'  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES *NI*

FACILITY NAME: MACKS FOOD STORE 1

ADDRESS: HWY 211 & NC 5 N  
PINEHURST, NC 28374

PHONE #: (910) 215-0575

OWNER'S NAME: MENDEL OIL CO

ADDRESS: PO BOX 396  
ABERDEEN, NC 28315

PHONE #: (910) 944-2329

CLOSEST WELL # W15 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>UST GAS</u>	<u>10,000-gal</u>
<u>UST GAS</u>	<u>15,000-gal</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

ADDITIONAL INFORMATION:

W15 <500'

INVENTORY OF POTENTIAL CONTAMINATION SOURCES 112

FACILITY NAME: SHORT STOP 78

ADDRESS: PO BOX 3842 / HWY 5  
PINEHURST, NC 28374

PHONE #: (910) 295-4567

OWNER'S NAME: LIL THRIFT FOOD MART, INC.

ADDRESS: 1007 ARSENAL AVE  
FAYETTEVILLE, NC 28305

PHONE #: (910) 433-4490

CLOSEST WELL # W06 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>UST GAS</u>	<u>10,000-gal</u>
<u>" "</u>	<u>10,000-gal</u>
<u>" "</u>	<u>10,000-gal</u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

ADDITIONAL INFORMATION:

W06 - 900'

INVENTORY OF POTENTIAL CONTAMINATION SOURCES N3

FACILITY NAME: PINEHURST ELEMENTARY SCHOOL

ADDRESS: PO BOX 79, DUNDGE RD.  
PINEHURST, NC 28374

PHONE #: (910) 295-6969

OWNER'S NAME: MOORE CO. BOARD OF EDUCATION

ADDRESS: PO BOX 1180  
CARTHAGE, NC 28327

PHONE #: (910) 947-2258

CLOSEST WELL # W09, W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>UST HEATING OIL</u>	<u>10,000 gal</u>
<u>(5000-gal UST CLOSED BY</u>	
<u>REMOVAL 5/26/90)</u>	

ADDITIONAL INFORMATION:

W08 1800  
W09 1600

INVENTORY OF POTENTIAL CONTAMINATION SOURCES N4

FACILITY NAME: BILL CLARK CHEVROLET CADILLAC

ADDRESS: 35 DUNOFF ROAD  
PINEHURST, NC 28374

PHONE #: (910) 295-6101

OWNER'S NAME: ~~RP:~~ FRANK MCNEIL

ADDRESS: MCNEIL OIL CO, PO BOX 396  
ABERDEEN, NC 28315

PHONE #: \_\_\_\_\_

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

_____	UST	GAS	_____	5000-gal
_____		GAS	_____	6000-gal
_____		GAS	_____	3000-gal
_____		GAS	_____	2000-gal
_____	UST'S PULLED IN 1980:			_____
_____	2000, 2000, 4000, 4000, 4000 (ALL GAS)			_____

ADDITIONAL INFORMATION:

W08 1200'  
NEEDS FOLLOW-UP  
FREE PRODUCT - AS OF 2/6/92  
INCIDENT NO. 5532



INVENTORY OF POTENTIAL CONTAMINATION SOURCES N5

FACILITY NAME: VILLAGE MARKET GAS STATION

ADDRESS: 120 MCINTYRE RD.  
PINEHURST, NC 28374

PHONE #: (910) 295-1927

OWNER'S NAME: CARY BRIGGS

ADDRESS: PO BOX 5487  
PINEHURST, NC 28374

PHONE #: (910) 245-2134

CLOSEST WELL # W08 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>UST GAS</u>	<u>6000-gal</u>
<u>UST GAS</u>	<u>6000-gal</u>
<u>AST KERO</u>	<u>550-gal</u>

ADDITIONAL INFORMATION:

W08 1100'

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

Source Code NG

Closest Well W22

FACILITY NAME: SHORT STOP 77

ADDRESS:  
RATTLESNAKE TRAIL  
PINEHURST, NC

PHONE #: \_\_\_\_\_

OWNER/RP:  
L'IL TRIFT FOOD MART, INC  
1007 ARSINAL AVE  
FAYETTEVILLE, NC 28305

PHONE #: (910) 433-4490

MUNICIPALITY: \_\_\_\_\_

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

<u>UST GAS</u>	<u>10,000-gal</u>
<u>" "</u>	<u>10,000-gal</u>
<u>" "</u>	<u>10,000-gal</u>

ADDITIONAL INFORMATION:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

Source Code N 7

Closest Well \_\_\_\_\_

FACILITY NAME: MOORE COUNTY REGIONAL HOSPITAL

ADDRESS: 155 MEMORIAL DRIVE PO BOX 3000  
PINEHURST, NC 28374

PHONE #: (910) 715-1000

OWNER/RP:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

MUNICIPALITY: PINEHURST

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>HEATING OIL UST</u>	<u>5000-gal</u>
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES 0-1

FACILITY NAME: MCPV WELL W01

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

<sup>RP:</sup>  
OWNER'S NAME: RESORTS OF PINEHURST

ADDRESS: P O BOX 4000  
PINEHURST, NC 28315

PHONE #: \_\_\_\_\_

CLOSEST WELL # W06 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
_____	_____
_____	_____
_____	_____
_____	_____
INCIDENT NO. 23723	_____
PHASE II LSA DATED AUG 8	_____
7001	_____
_____	_____

ADDITIONAL INFORMATION:

TEMP ABANDONED  
NO RP FOUND  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

INVENTORY OF POTENTIAL CONTAMINATION SOURCES 0-2

FACILITY NAME: MCPV WELL W06

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

OWNER'S NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

PHONE #: \_\_\_\_\_

CLOSEST WELL # W01 VILLAGE OF PINEHURST

POTENTIAL CONTAMINATION SOURCES:

QUANTITY:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

ADDITIONAL INFORMATION:

POLLUTION INCIDENT 19354

WELL WAS TEMPORARILY ABANDONED  
BUT NOW IN USE

**INVENTORY OF POTENTIAL CONTAMINATION SOURCES**

Source Code 0-3

Closest Well \_\_\_\_\_

FACILITY NAME: MANOR CARE NURSING CENTER

ADDRESS:  
205 RATTLESNAKE TRAIL  
PINEHURST, NC

PHONE #: \_\_\_\_\_

OWNER/RP:  
MANOR HEALTHCARE CORP.  
10750 COLUMBIA PIKE  
SILVER SPRINGS, MD 20901

PHONE #: (301) 593-9600

MUNICIPALITY: \_\_\_\_\_

POTENTIAL CONTAMINATION SOURCES:	QUANTITY:
<u>GASOLINE UST LEAK</u>	<u>5M. QTY5</u>
<u>SOIL CONTAMINATED</u>	
_____	
_____	
_____	

ADDITIONAL INFORMATION:  
INCIDENT NO. 21790  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_