8185B

PW 4712

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

1. SEPTIC / TYPE APPLICATION: ☐ N/A ☐ NEW SYSTEM ☒ ALTERATION ☐ REPAIR ☐ MODIFIED PLOT PLAN

2. WELL / TYPE APPLICATION: ☐ N/A ☒ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

3. JOB LOCATION INFORMATION:
TAX PARCEL NUMBER: 11308234
STREET ADDRESS: 6625 Amos Smith Rd.
CITY: Charlotte
STATE: NC ZIP: 28214
SUBDIVISION NAME: L301
LOT #: 35 + ADJ LOT SIZE (acres): .3121 ACRES
TOWNSHIP: 1956
☒ 6-MECKLENBURG ☐ 3-CORNELIUS ☐ 6-HUNTERSVILLE
☐ 1-CHARLOTTE ☐ 4-PINEVILLE ☐ 7-MINT HILL
☐ 2-DAVIDSON ☐ 5-MATTHEWS

4. BUILDING INFORMATION:
BUILDING TYPE:
☐ SINGLE MOBILE HOME ☐ MODULAR HOME
☐ DOUBLE WIDE ☐ MULTIPLE FAMILY
☒ HOUSE ☐ OTHER _____
HEATED SQUARE FOOTAGE: 956 sf
NUMBER OF BEDROOMS: 2
NUMBER OF OCCUPANTS: 2
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☒ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

5. IF PLANNING TO EXPAND OR ALTER THE EXISTING SEPTIC SYSTEM PLEASE COMPLETE THE FOLLOWING SECTION: ☐ N/A

NUMBER OF BEDROOMS TO BE ADDED: 1 NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: 0

6. WATER SUPPLY: ☐ MUNICIPAL ☒ PRIVATE WELL ☐ PUBLIC WELL ☐ SHARED WELL ☐ OTHER _____

7. PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☒ POTABLE (DRINKING WATER) ☐ OTHER _____

8. PLEASE INDICATE AND RANK DESIRED SEPTIC SYSTEM TYPE(S) IN ORDER OF PREFERENCE *(1-MOST DESIRED 5-LEAST DESIRED)*:

☐ N/A ☒ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER _____

8A. RANK: -ANY TYPE- PRE-FABRICATED POROUS BLOCK PANEL SYSTEM

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES ☒ NO		GRADING/SOIL REMOVAL PERFORMED	☐ YES ☒ NO	
EXISTING WASTEWATER (SEPTIC) SYSTEMS	☒ YES ☐ NO		JURISDICTIONAL WETLANDS	☐ YES ☒ NO	
WELLS, SPRINGS, OR WATER LINES	☒ YES ☐ NO		APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	☐ YES ☒ NO	
EASEMENTS OR RIGHT-OF-WAYS	☐ YES ☒ NO		WASTEWATER OTHER THAN DOMESTIC SEWAGE	☐ YES ☒ NO	
CHEMICAL/PETROLEUM STORAGE TANKS	☐ YES ☒ NO		KNOWN UNDERGROUND CONTAMINATION	☐ YES ☒ NO	
WASTE STORAGE	☐ YES ☒ NO		GROUNDWATER USE RESTRICTIONS/VARIANCES	☒ YES ☐ NO	

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? JUNE 1987 ☐ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 9/1/2010 ☐ N/A

12. PROPERTY OWNER:
NAME: Estate of Mary Virginia Mothershed
ADDRESS: 1906 Pacolet Hwy.
CITY: Gaffney
STATE: SC ZIP: 29340
HOME PHONE: 864-489-3817
WORK PHONE:
MOBILE PHONE:
FAX:

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Carol Lambert
ADDRESS: 1425 Colwick Lane
CITY: Rock Hill
STATE: SC ZIP: 29732
HOME PHONE: 803-230-4303
WORK PHONE:
MOBILE PHONE:
FAX:

Rachel Jeff Filer
5610 Wintercrest Ln
28209
704-383-9903
prospective buyer

fax 803-753-0131

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for either sixty (60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

JF (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issuance.

JF (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below.

Property Owner's or Owner's Legal Representative Signature

7/21/2010
Date

OFFICE USE ONLY

☐ SURVEY PLAT TO SCALE SUBMITTED ☐ SCALED SITE PLAN SUBMITTED ☐ UN-SCALED SITE PLAN SUBMITTED

SEPTIC APPLICATION FEES RECEIVED: $ 200.00 CC appl 084642 DATE FEE RECEIVED: 7/21/10

WELL APPLICATION FEES RECEIVED: $ _____ DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: JC

GWS FILE NUMBER ASSIGNED: 8185B

APPLICATION ID NUMBER ASSIGNED: 4712

COMMENTS:

UST denied $ 500 is add'l fee for Alteration permit cost

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST. SUITE 211 CHARLOTTE, NC 28202, OFFICE: 704-336-5103, FAX: 704-336-6894

GWS Septic System Design Review

GWS File #: 81858

	Approved	Disapproved
Design Review: CG 9/15/10	☒	☐
Field Review: PW 9/10/10	☒	☐

*Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

Residential Subsurface Wastewater Treatment and Disposal System Design

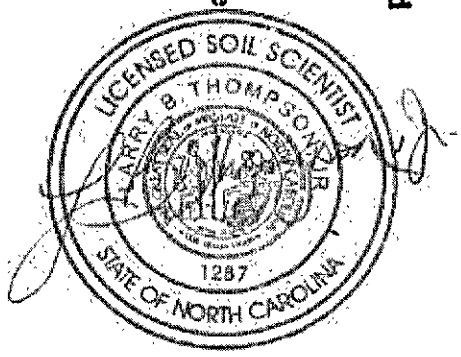
for

6625 Amos Smith Road
Charlotte, North Carolina

Tax Parcel # 113-082-34
July 28, 2010

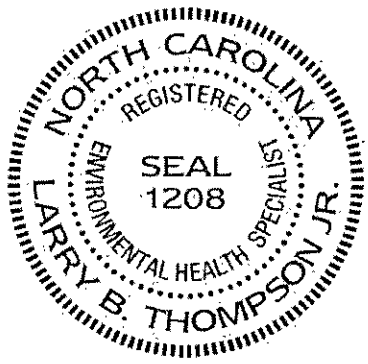
Prepared for:

Jeff and Rachel Filer
5610 Wintercrest Lane
Charlotte, NC 28209
803-240-8182 (Rachel)



Prepared by:

Larry Thompson, REHS, PWS, LSS
Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748
Phone: 704-301-4881
Fax: 704-888-6066
larry@thompsonenv.com



cc: Mr. Philo Walker, RS
Mecklenburg County Environmental Health

Details

Mr. and Mrs. Filer have contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a proposal for an on-site wastewater treatment and disposal system proposal that might allow for the renovation of a single family residence located at 6625 Amos Smith Road in Charlotte, North Carolina.

The existing 2 bedroom residence would be expanded to a 3 bedroom residence that will be served by a single family well. There are currently two existing wells on the property (one 6 inch well currently in service and a 3 inch well that is no longer being used) that would be required to be abandoned and a new well constructed if the following proposal is approved.

Based upon an investigation performed by TEC it was determined that a sufficient amount of "Suitable" Group IV soils are available on this property for the installation of a prefabricated porous block panel system (PPBPS). The property has been established to be a lot of record prior to January 1, 1983 and meets the requirements set forth in .1945(c)(1) to be repair exempt. It also meets the requirements set forth in .1951(a)(1) to be exempt from several of the minimum horizontal distance requirements described in .1950.

Mr. and Mrs. Filer request that the county consider issuing an Improvement Permit and Construction Authorization for a 3 bedroom residence to be located at 6625 Amos Smith Road based upon the following proposal.

Location

From Charlotte, travel south on I-85 and exit left at the Sam Wilson Road exit. Turn left onto Sam Wilson Road and travel south approximately 1.5 miles. Turn right onto Old Dowd road and travel approximately 0.4 of a mile. Turn left onto Amos Smith Road. The subject property is the last house on the left.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, August 2007.

Onsite Wastewater Treatment and Disposal Systems; EPA 625/R-00/008 Design Manual, February 2002.

Design, Installation and Maintenance of the T & J Panel Wastewater Treatment System; Sixth Edition, published by T & J Panel.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
Professional Wetland Scientist No. 1346
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

The following proposal is for a gravity flow PPBPS system that begins at the septic tank. Waste from the residence will be delivered to the septic tank by way of a sewage pump capable of handling at least 2-inch solids (do not use an ejector pump or effluent pump for this application). The sewage pump and its vault/holding tank fall under the North Carolina Plumbing Code and is, therefore, not a part of this proposal.

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1500 gallons in capacity.
2. The septic tank will be fitted with an approved effluent filter and riser for easy access and periodic maintenance.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tank has had time to properly cure and is free of cracks or other structural deficiencies.

B. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.

C. Distribution Method

1. Wastewater from the septic tank will be directed to a distribution box for equal distribution to five (5) PPBPS drain lines.
2. The distribution box shall be level, watertight, and the flow adjusted (equalized) at the time of the final inspection.

D. Backfill

1. Backfill sand shall be a clean, washed, medium sand that is naturally occurring and falls within the gradation of ASTM C-33 specification (used in the ready mix industry and is readily available).

E. Drainfield Installation

1. The drainfield and the proposed septic tank location has been marked on-site utilizing metal stemmed flags. Once this area has been approved by the county, the property owner/builder should mark this area and isolate it as much as possible from construction traffic. Prior to the system installation, the septic contractor shall contact the county for a preconstruction conference at which time the drainfield area will be re-verified.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition. If the installer has doubts as to whether or not the drain field area is dry enough to begin construction, the environmental health specialist for this area should be contacted for permission to proceed with the installation.
3. The specified system is a Type IIIe pre-fabricated permeable block panel system – specifically the 16 inch high panel system manufactured by T&J Panel Wastewater Treatment System, Patent No. 4013559; telephone: 1-800-222-2577. The installer must follow the manufacturer's guidelines for installing the T&J Panel System and should request an installation manual from the manufacturer prior to beginning construction.
4. The initial drain field consists of five (5) lateral trenches 3 feet wide by 35 feet in length.
5. It is essential that the lateral trenches be constructed on contour with the land, with each trench being excavated level from beginning to end. The use of a tripod mounted engineer's level is essential to assure that each trench is constructed as level as possible.
6. The maximum trench depth for this system shall be **40 inches**. Each trench shall be placed on a minimum of 9 foot on centers.
7. Once trenches are dug, the side walls shall be raked and a light dusting of lime applied.
8. Backfill the trench with 6 inches of sand and level to grade. Once leveled, place 1 x 4 or 6 inch boards on top of the sand the entire length of each trench. Once the grade boards have been set, the panels may be set into the trench. The panels should be placed 6 inches apart.
9. Once the panels have been set, line the top chamber of each panel with 10 – 12 pounds of clean particle sand (medium sand blasting sand). Coverage depth should be approximately 1 inch thick. *Please note that this sand is not the same material specified for backfill.*
10. Tar seal rope, or approved foam, should be placed in the "U" outs of each end of the panel to form seals. Once the tar rope is in place, the 1¼ inch Schedule 40 PVC connectors can be added and the seal completed by the addition of more tar rope on the top and sides of the pipe. Now that the connection and seals are complete, a block cap is placed on each end of the panel so that all openings are covered.
11. Once the panels for each trench have been installed and the top of the panels closed, the trench is ready to be backfilled to the top with the sand used in the trench bottom. At this point, the trenches should be left open for the final inspection by the county environmental health specialist.

F. Final Landscaping

1. The drainfield shall be shaped to shed rainwater and be free from low spots.
2. The entire area of the drainfield should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

G. Utility Conflicts

1. The builder and property owner must take special care in planning for utilities (water, power, gas, telephone, cable lines, etc.). All utilities shall be kept clear of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation.
2. There is a 10 foot corridor along the right sideline that can be used for routing water and any other underground utilities. If there are any questions regarding preferred routes, contact the county environmental health specialist as soon as possible.
3. Water lines must be kept at least ten (10) feet from any portion of the septic system.
4. Irrigation systems should not be placed in the drain field area.

Maintenance

H. Operation and Maintenance

The designed system is classified as a Type IIIe wastewater treatment and disposal system and will require periodic maintenance.

1. The septic should be pumped/cleaned out when the solids within the tank reach an elevation that is equivalent to 25% of the volume of the tank. In some situations, the tanks may need to be pumped more frequently; for example, if you are using a garbage disposal, it is recommended that the septic and pump tanks be cleaned out annually (TEC recommends that a garbage disposal not be used with this system). At a minimum, the septic tank should be cleaned out every 3-5 years. A reputable septic contractor or certified septic inspector can help you establish a pumping frequency after you have been in the home for a few years.
2. The effluent filter should be inspected once per year. When it becomes necessary to clean the effluent filter, the filter should be removed and the accumulated debris washed back into the septic tank – not onto the lawn.
3. The drain field area should be maintained to prevent over growth of vegetation. Any damp areas, leakages or malfunctions should be addressed immediately.
4. Divert surface water runoff away from the septic tank and drainfield area.

I. Suggestions to the Homeowner

1. As previously mentioned, a garbage disposal is not recommended. The ground up garbage adds large amounts of solids into a septic tank that tend to degrade at a very slow rate.
2. Grease, cooking oils, coffee grounds and non-degradable solids (disposable diapers, cigarettes and solid paper wastes) should never be put into a septic tank.
3. Used motor oil or any oily liquids should not be disposed of in a septic tank.
4. Be aware of the amount of water that you are using in your home. Water saving fixtures and devices can be installed on sinks, toilets and showers to reduce the volume of wastewater that you are sending to your drain field.
5. Run dishwashers and washing machines only when you have a full load.
6. Use liquid detergents. Powdered detergents have binding agents in them that tend to solidify in the wastewater disposal system.
7. Repair leaky faucets and toilets. Small drips equal large volumes of water over time and can over burden your drain field.
8. Do not use chemical additives in your system. Studies have indicated that they do not increase the biological activity that naturally occurs in the septic system and in some cases certain additives have been found to be detrimental to the life of a system.

Design Specifics

Daily Design Flow:	360 GPD – 3 bedroom house
Septic Tank Size:	1500 Gallons (2 compartments)
Effluent Loading Rate:	Design = 0.343 GPD per sq. ft. (50 % reduction for the PPBPS)
Distribution Method:	Distribution Box (D-Box)
Number and Size of Drainlines:	(5) 3 Foot Wide x 35 Foot Long
Maximum Trench Depth:	40 Inches Deep
Drainline Spacing:	9 Foot on Centers
Total Length of Drainline:	175 Feet
Number of Panels Per Line:	8
Total Number of Panels:	40

Thompson Environmental Consulting, Inc.
114 Orchard Ridge Road
Locust, NC 28097-8748
704-301-4881

SHEET 1 OF 1

COUNTY: Mecklenburg
TAX ID: 113-082-34

OWNER: Mary Virginia Mothershed
LOCATION: 6625 Amos Smith Road

DATE: July 22, 2010

PROFILES		Pit 1	Pit 2	Pit 3							
LANDSCAPE POSITION	.1940	ls	ls	ls							
SLOPE (%)	.1940										
HORIZON 1 DEPTH	.1943	0-9	0-5	0-16							
TEXTURE	.1941 (a)(1)	scl									
CONSISTENCE	.1941	fr									
STRUCTURE	.1941 (a)(2)	gr									
CLAY MINERALOGY	.1941 (a)(3)	se									
HORIZON 2 DEPTH	.1943	9-52+	5-9	16-24							
TEXTURE	.1941 (a)(1)	sc	scl	scl							
CONSISTENCE	.1941	fi	fr	fr							
STRUCTURE	.1941 (a)(2)	sbk	gr	gr							
CLAY MINERALOGY	.1941 (a)(3)	se	se	se							
HORIZON 3 DEPTH	.1943		9-52+	24-57+							
TEXTURE	.1941 (a)(1)		sc	sc							
CONSISTENCE	.1941		fi	fi							
STRUCTURE	.1941 (a)(2)		sbk	sbk							
CLAY MINERALOGY	.1941 (a)(3)		se	se							
HORIZON 4 DEPTH	.1943										
TEXTURE	.1941 (a)(1)										
CONSISTENCE	.1941										
STRUCTURE	.1941 (a)(2)										
CLAY MINERALOGY	.1941 (a)(3)										
SOIL WETNESS	.1942										
RESTRICTIVE HORIZON	.1944										
SAPROLITE	.1943/.1956										
CLASSIFICATION	.1948										
L.T.A.R. (gpd/ft^2)	.1955	0.35	0.35	0.35							

OTHER FACTORS (.1946):
AVAILABLE SPACE (.1945):
SITE CLASSIFICATION (.1948):

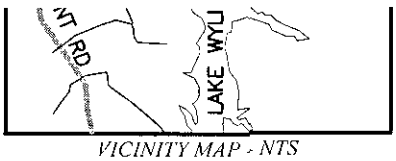
SITE LTAR (gpd/ft^2): 0.35

SYSTEM TYPE: PPBPS

EVALUATED BY: Larry Thompson
OTHERS PRESENT: G. Huneycutt and P. Walker

COMMENTS: *The abscense of a "A" horizon description is due to Pits 2 and 3 being excavated in a gravel drive.

EHD on site and agree w/ soils description



VICINITY MAP - NTS

MAPS PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEDERAL INSURANCE ADMINISTRATION, DATED MARCH 2, 2009

COMMUNITY PANEL NO: 370158 4503K; ZONE 'AE'

SEAL L-4430 LAND SURVEYOR JUSTIN F. CLONINGER PR NC

RONALD D. GRAHAM & SUZANNE C. GRAHAM
D.B. 6917, PG. 807
PIN: 113-081-01

AMOS SMITH RD
(15' D.B. 5529-612 & 6917-807)

150.97' (TOTAL) S59°37'09"W
15.11'
S36°26'05"E 117.56'
N67°33'29"W 57.75'
GRAVEL
EIP
EIR
NIR

TRACT II
1,837 SQ. FT.
0.0422 ACRE

TRACT I
3,171 SQ. FT.
0.0728 ACRE

MARY VIRGINIA MOTHERSHED
D.B. 5529, PG. 610

N60°07'30"E 38.07'
12.5'
EDGE OF GRAVEL
WELL
X Pit 3
N43°26'13"W 100.20'
S42°59'34"E 55.80'
PP
CHAINLINK FENCE
CONCRETE
S72°06'12"W 51.77'

X Pit 1
27.6'
0.5'
8.6'
20' SETBACK
SHED 14.9'
CONC. WALK
12.1'
5.0'
100' BUFFER
7.4'
STOOP
17.0'
33.9'
1 STORY WOOD #6625
34.5'
32.2'
30.1'
5.1'
HVAC PAD
5' SIDE YARD
14.7'
16.0'
DECK
STEPS

JENNIFER LEIGH JONES & JESSICA LYNN CARNEVALE
D.B. 4451, PG. 648
LOTS 33, 34 & PART OF 32
M.B. 3, PG. 571
PIN: 113-082-33

MAP REFERENCE: M.B. 44, PG. 351

TDW HOLDINGS LLC
D.B. 19752, PG. 183
M.B. 44, PG. 351
PIN: 113-222-01

N59°41'41"E 145.88'
141.51'
5' SIDE YARD
S54°55'27"W 132.34'
35' REAR YARD

LOT 35
8,586 SQ. FT.
0.1971 ACRE

APPROX. SCALED FLOOD LINE
ZONE 'X'
10.3'
SHED
20.5'
FIELD LOCATED EXISTING FLOOD LINE
L8 L9 L6 L7 L5 L4 L3 L2 L1
4.37'
FEMA FLOODWAY
PROPERTY LINE FOLLOWS FULL POND LINE=100.0'
PIER
WATER LEVEL 6/10/10 = 97.4'

LAKE WYLIE

LINE	BEARING	DISTANCE
L1	S31°09'07"E	3.76'
L2	N49°11'09"W	6.08'
L3	N41°25'38"W	15.71'
L4	N60°52'25"W	17.05'
L5	N54°15'54"W	13.80'
L6	S55°45'43"E	6.61'
L7	N50°00'44"W	4.01'
L8	N61°48'40"W	3.14'
L9	N83°32'21"W	1.36'

NOTES:

1. THIS PLAT IS NOT FOR RECORDATION AS PER G.S. 47-30 AS AMENDED.
2. ALL CORNERS MONUMENTED AS SHOWN.
3. NO RECOVERABLE NGS MONUMENT LOCATED WITHIN 2,000 FEET OF SUBJECT PROPERTY.
4. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS MAP IS APPROXIMATE, BASED ON INFORMATION PROVIDED BY OTHERS OR BY FIELD LOCATION. UTILITY LOCATIONS AS SHOWN HEREON ARE INTENDED FOR PLANNING ONLY. ACTUAL LOCATION, SIZE, OR DEPTH OF LINE SHOULD BE VERIFIED WITH THE INDIVIDUAL UTILITY COMPANY BEFORE CONSTRUCTION.
5. THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF A TITLE COMMITMENT REPORT. R.B. PHARR & ASSOCIATES, P.A. DOES NOT CLAIM THAT ALL MATTERS OF RECORD WHICH MAY OR MAY NOT AFFECT THE SUBJECT PROPERTY ARE SHOWN HEREON.
6. SUBJECT PROPERTY ZONING: R-5
SETBACK: 20', SIDE YARD: 5', REAR YARD: 35'
7. BROKEN LINES INDICATE PROPERTY LINES NOT SURVEYED.
8. THE OFF-SITE RIGHT-OF-WAY SHOWN HEREON IS FOR ILLUSTRATIVE PURPOSES ONLY. THE UNDERSIGNED CERTIFIES ONLY TO THE RIGHT-OF-WAYS SURVEYED, AND DOES NOT CERTIFY TO THE RIGHT OF WAY WIDTH OF ANY ADJACENT PROPERTIES.
9. THIS PROPERTY FALLS INSIDE A 100 FOOT WATER QUALITY BUFFER.

TOTAL AREA
13,595 SQ. FT.
0.3121 ACRE

LEGEND:

D.B. - DEED BOOK
ECM - EXISTING CONCRETE MONUMENT
EIP - EXISTING IRON PIPE
EIR - EXISTING IRON ROD
EMM - EXISTING METAL MONUMENT
EN - EXISTING NAIL
HVAC - AIR CONDITIONING
M.B. - MAP BOOK

GRAPHIC SCALE
30 0 15 30

SURVEY FOR:
JEFFREY H. FILER
RE: MARY VIRGINIA MOTHERSHED PROPERTY
MECKLENBURG COUNTY, N.C.

GWS Septic System Design Review

GWS File #: 8185B

Design Review: ☒ Approved ☐ Disapproved — 9/15/10

Field Review: ☒ — 9/10/10 ☐

"Projects are not considered "APPROVED" until both sections above are completed and indicate an APPROVED status.

CONDITIONS OF IMPROVEMENT PERMIT for an ALTERATION TO AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit Number: **8185B** Tax Number: **11308234**

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be **NO** grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is **NOT** transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement: ☐ Yes ☒ No ☐ Partial Basement

Primary Wastewater System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☐ Innovative or Experimental:

.0343 Long-term acceptance rate (GPD/ft^2)	360 Max gallons/day wastewater flow	405 Absorption Area (ft^2)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☒ Yes ☐ No	1500 Gallon septic tank	175 Total trench length (ft)	40 Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
3 Bedrooms in residence	NA Gallon pump tank	NA Depth of media (in)	

Any surface water present: **YES** Type: **LAKE WYLIE** Minimum separation distance (ft): **100**

Additional conditions: **KEEP THE SEPTIC SYSTEM >100' FROM LAKE HIGH WATER MARK AND 50' FROM ANY WELLS.**

Repair Area System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☒ Other MAXIMUM AVALIABLE
☐ Innovative or Experimental:

____ Absorption Area (ft^2) ____ Total trench length (ft)	__ Depth of media (in)	__ Trench spacing (min. on centers) (ft)	__ Maximum trench depth (in)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage Treatment, and Disposal Systems in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation Approval is granted by this Department.

*** This Improvement permit is transferable.

Phillip Miller RS 9/15/10

DENR Authorized Agent Date

Owner/Agent Signature Date

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE: (704) 336-5103
FAX: (704) 336-6894

NC DENR
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

CONDITIONS OF IMPROVEMENT PERMIT for an ALTERATION TO AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit Number: 8185B Tax Number: 11308234

- The IMPROVEMENT PERMIT is subject to revocation if site plans or the intended use change. There is to be NO grading, filling, or disturbance of the soil in the area of the septic tank system or repair area.
- CONSTRUCTION AUTHORIZATION must be obtained prior to receiving a Building Permit. The Construction Authorization is NOT transferable. Do not clear, grade, fill or disturb soil prior to obtaining a Construction Authorization.
- Domestic-type wastewater only. No industrial process wastewater may be discharged into the system.

Basement: ☐ Yes ☒ No ☐ Partial Basement

Primary Wastewater System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☐ Other
☐ Innovative or Experimental:

.0343 Long-term acceptance rate (GPD/ft^2)	360 Max gallons/day wastewater flow	405 Absorption Area (ft^2)	9 Trench spacing (min. on centers) (ft)
Serviced by private well: ☒ Yes ☐ No	1500 Gallon septic tank	176 Total trench length (ft)	40 Maximum trench depth (in) (At least 12" of provisionally suitable soil must remain between trench bottom and unsuitable soil conditions.)
3 Bedrooms in residence	NA Gallon pump tank	NA Depth of media (in)	

Any surface water present: YES Type: LAKE WYLIE Minimum separation distance (ft): 100

Additional conditions: KEEP THE SEPTIC SYSTEM >100' FROM LAKE HIGH WATER MARK AND 50' FROM ANY WELLS.

Repair Area System

Type: ☐ I ☐ II ☒ III ☐ IV ☐ V ☐ VI

☐ Conventional
☒ Prefabricated, permeable block panel system
☐ Shallow Placed Conventional
☐ Low Pressure Pipe
☐ Large Diameter Pipe
☐ Fill
☒ Other MAXIMUM AVALIABLE
☐ Innovative or Experimental:

____ Absorption Area (ft^2) ____ Total trench length (ft)	__ Depth of media (in)	__ Trench spacing (min. on centers) (ft)	__ Maximum trench depth (in)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department has approved the Request for the Job Location contained in this document. The approval is granted in accordance with the provisions of Laws and Rules For Sewage Treatment, and Disposal Systems in effect at the time of issuance of the permit and is subject to the following provisions:

*** No work shall be conducted on the septic tank system until an Installation Approval is granted by this Department.

*** This improvement permit is transferable.

Phillip Walker RS 9/15/10
DENR Authorized Agent Date

9/16/10
Owner/Agent Signature Date

MECKLENBURG COUNTY
GROUNDWATER & WASTEWATER SERVICES
700 N. TRYON ST., SUITE 211
CHARLOTTE, NC 28202
PHONE: (704) 336-5103
FAX: (704) 336-6894

NC DENR
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

CHC 649

FEE: 100
DATE: 6/14/10
CRT [ ]

APPLICATION FOR APPROVAL TO USE AN EXISTING ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM
MECKLENBURG COUNTY - GROUNDWATER & WASTEWATER SERVICES
700 N. Tryon St., Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

GWS – UES.APP 06/07

FILE #: 8185B

TYPE APPLCATION: 4665 PW

- [x] ADDITION - INCREASE ROOMS/OCCUPANCY/MOBILE HOME SIZE (A / M)
- [ ] ADDITION - RENOVATION OR GARAGE WITH NO MAJOR CHANGES (X)
- [ ] EXCHANGE MOBILE HOME - SAME # BEDROOMS (Y)
- [ ] COMMERCIAL OR INDUSTRIAL (N)

PERSON FILING APPLICATION:
NAME: Rachel Filer
ADDRESS: 5610 Wintercrest Ln
CITY: Charlotte, NC
STATE: NC ZIP: 28209
PHONE: 803-240-8182
ALTERNATE PHONE:

PROPERTY OWNER:
NAME:
ADDRESS:
CITY:
STATE: ZIP:
PHONE:
ALTERNATE PHONE:

JOB LOCATION INFORMATION
TAX/PARCEL #: 113-082-34
STREET ADDRESS: 6625 Amos Smith Rd.
CITY: Charlotte
STATE: NC ZIP: 28214
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #:

TOWNSHIP:
- [ ] 0-MECKLENBURG
- [ ] 1-CHARLOTTE
- [ ] 2-DAVIDSON
- [ ] 3-CORNELIUS
- [ ] 4-PINEVILLE
- [ ] 5-MATTHEWS
- [ ] 6-HUNTERSVILLE
- [ ] 7-MINT HILL

WATER SUPPLY:
- [ ] MUNICIPAL (M)
- [ ] COMMUNITY (C)
- [x] PRIVATE WELL (P)
- [ ] SHARED WELL (S)
- [ ] OTHER 'SPRINGS' (O)

RESIDENTIAL PROPERTY TYPE:
- [x] HOUSE (H)
- [ ] MODULAR HOME (M)
- [ ] MULTIPLE FAMILY (U)
- [ ] SINGLE MOBILE HOME (S)
- [ ] DOUBLE WIDE (D)
- [ ] OTHER (O)

OCCUPANCY (both fields are required):
NUMBER OF BEDROOMS: 2
NUMBER OF OCCUPANTS: 2

COMMERCIAL / INDUSTRIAL PROPERTY TYPE:
TYPE OF BUSINESS:
EMPLOYEES PER SHIFT:
OF SHIFTS:
INDUSTRIAL WASTES? [ ] YES [ ] NO
UNDERGROUND STORAGE TANKS? [ ] YES [ ] NO

ADDITION TYPE ATTACHED TO EXISTING STRUCTURE:
- [x] BEDROOM
- [x] BATHROOM
- [x] KITCHEN
- [ ] DINING ROOM
- [ ] LIVING ROOM
- [ ] DEN
- [ ] GARAGE
- [ ] SUNROOM
- [ ] PORCH
- [ ] DECK
- [ ] OTHER

ADDITION TYPE DETACHED FROM EXISTING STRUCTURE:
- [ ] DETACHED GARAGE
- [ ] DETACHED GARAGE WITH PLUMBING
- [ ] POOL HOUSE
- [ ] SHOP
- [ ] BARN
- [ ] STORAGE SHED
- [ ] DETACHED PORCH / DECK
- [ ] OTHER

*The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Rachel Filer — Owner's/Agent's Signature
6/14/10 — Date

*The undersigned, an authorized agent of the Mecklenburg County Health Department, certifies that the Department has approved the Request for the Job Location contained in this document. This approval is granted in accordance with the provisions of Laws and Rules for Sanitary Sewage Collection, Treatment and Disposal in effect at the time of issuance of the permit and is subject to the following provisions:

- No work shall be conducted on the septic tank system until an installation, construction, alteration and/or repair approval is granted y this Department.
- This permit is not transferable.

- [ ] ADDITION / RENOVATION APPROVAL - VALID 1 YEAR FROM ISSUANCE
- [ ] MOBILE HOME EXCHANGE APPROVAL - VALID 6 MONTHS FROM ISSUANCE

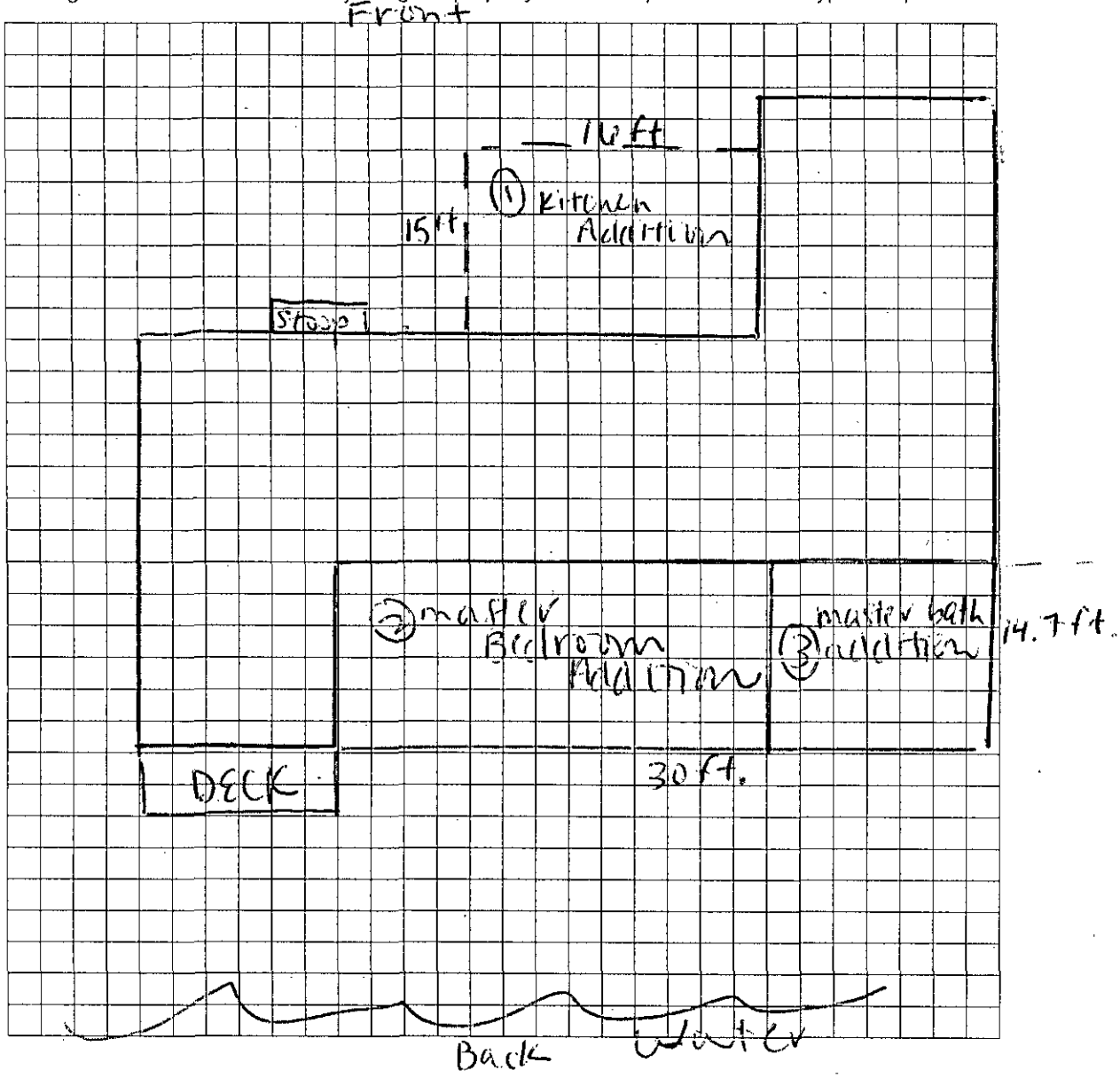
UES Denied, Watershed Restrictions
100' Buffer.
Philip Walker RS 6/23/10
EHS Signature — Date

Mecklenburg County
Land Use & Environmental Service Agency
Groundwater & Wastewater Services
700 N. Tryon St., Suite 211
Charlotte, NC 28202
Phone: (704) 336-5103
Fax: (704) 336-6894

File # 8185B
Date_____

PROPOSED PLOT PLAN

A map showing existing and proposed property lines and easements with dimensions, the location of the single family residence, non-single family residence, or other facility, and appurtenances, the site for the proposed well, and the location of existing or proposed sewer lines and/or sewage disposal systems, surface water bodies, aboveground or underground storage tanks. Name all roads adjoining the property. If this a repair indicate the type of repair.



Owner/Agent Signature	Rachel Trein
Date	6/14/10

LBC 12/15/04

MECKLENBURG COUNTY

Land Use & Environmental Services Agency
Groundwater & Wastewater Services

June 22, 2010

RACHEL FILER
5610 WINTERCREST LN
CHARLOTTE NC 28209

Re: Application for approval to use an existing on-site wastewater treatment & disposal system.
Property Location: 6625 AMOS SMITH RD
Health Department file number: **8185B**

Dear Property Owner or Owner's Agent:

On June 22, 2010 the Mecklenburg County Health Department, Groundwater & Wastewater Services Section, evaluated the above-referenced property to determine if approval to use an existing on-site wastewater treatment & disposal system could be granted for your proposed project. This evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes, Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .1900 and related rules, and the Mecklenburg County Groundwater Well Regulations.

Based on the information provided in the application, dated June 14, 2010, and findings from the site evaluation conducted by our office, your request for approval to use an existing on-site wastewater treatment & disposal system is **not** being granted. This decision is based on the following conditions that were identified during the site visit:

- ☐ The existing on-site wastewater treatment & disposal system was not functioning properly at the time the site evaluation was conducted.
- ☒ The proposed plans do not meet the required setbacks for the on-site wastewater treatment & disposal system serving the property.
- ☐ The proposed plans do not meet the required setbacks for the reserved repair area for an on-site wastewater treatment & disposal system.
- ☐ The proposed plans do not meet the required setbacks for water supply wells.
- ☐ The proposed project will exceed the permitted daily design flow for the existing on-site wastewater treatment & disposal system. System alteration will be required in order to accommodate your proposed project.

If you need any additional information or assistance please contact our office at (704) 336-5103.

Sincerely,

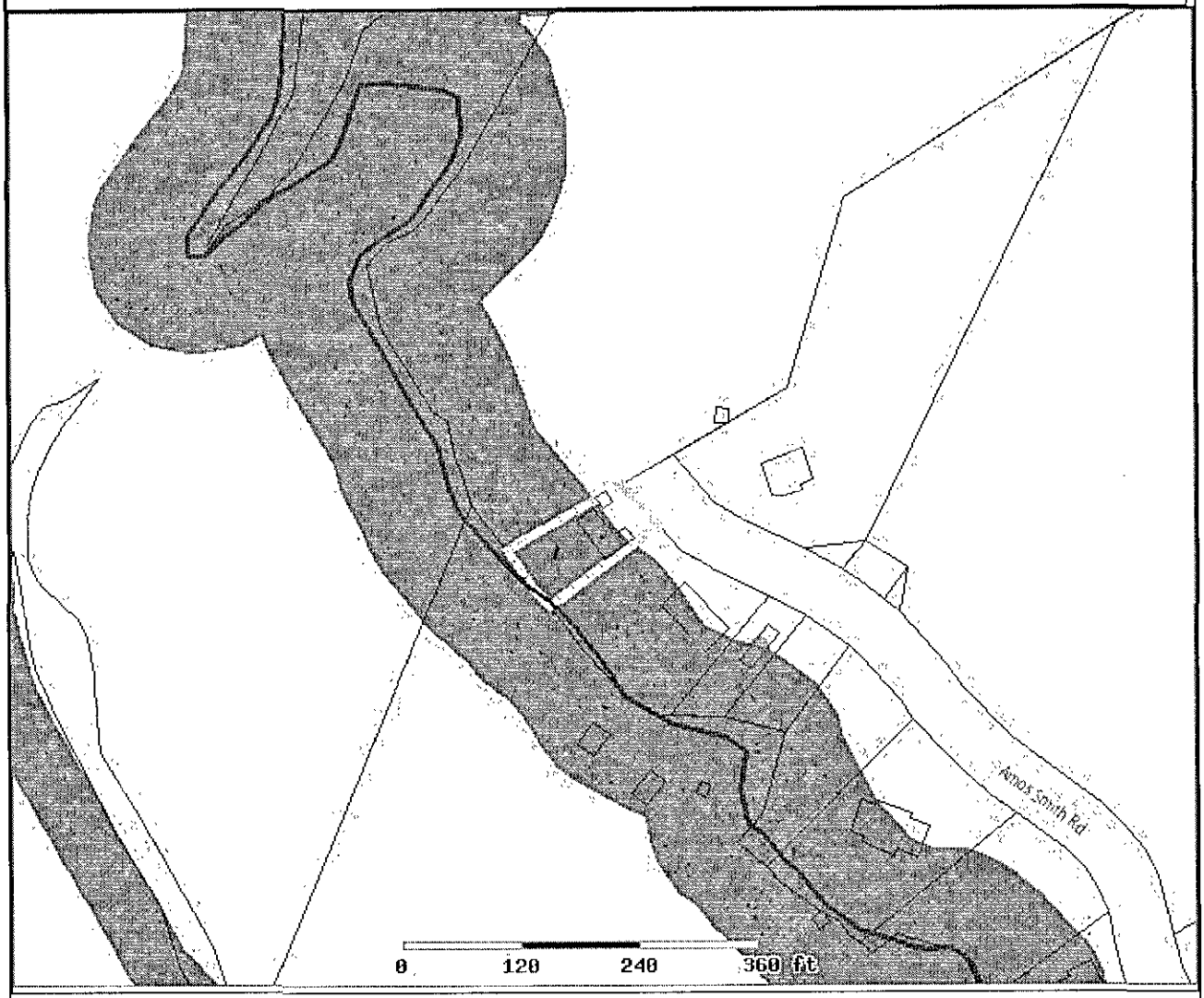
Philo Walker RS

PHILO WALKER RS
Environmental Specialist

Encl: (1) Application

Floodzone Interactive Mapping

Mecklenburg County Storm Water Services | Questions? Call: (704) 432-RAIN(7246)



Results for 6625 AMOS SMITH RD

Parcel ID	Ownership			
11308234	MARY VIRGINIA MOTHERSHED			
Watershed	**Zone**	**Community**	**Panel**	**Date**
Lake Wylie (CRITICAL)	AE	370158	4503K	03/02/2009

- Elevation Data Points
- Structure Not in Floodplain by FEMA Letter
- Streams
- Buildings
- Selected Parcel
- Tax Parcels
- Water Quality Buffer

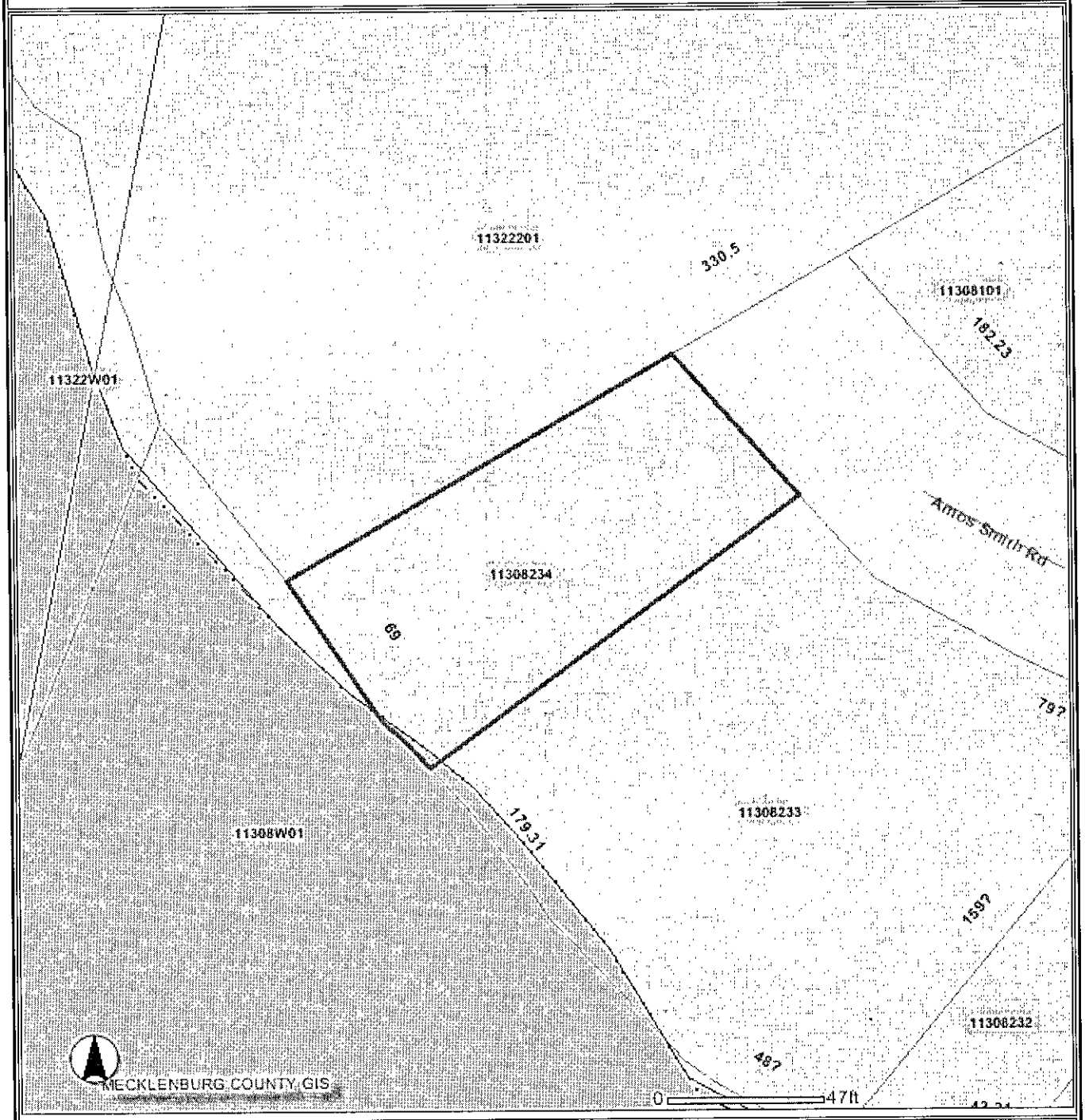
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Mecklenburg County, North Carolina

POLARIS

Property Ownership Land Records Information System

Date Printed: Tue Jun 22 10:07:48 EDT 2010



This map is prepared for the inventory of real property within Mecklenburg County and is compiled from recorded deeds, plats, tax maps, surveys, planimetric maps, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification. Mecklenburg County and its mapping contractors assume no legal responsibility for the information contained herein.