5726B

MECKLENBURG COUNTY
HEALTH DEPARTMENT

App #6765

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: 195-211-12
STREET ADDRESS: 3330 Rusty Ct
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Mayhew Country Estates (M32-156)
LOT #: 4 LOT SIZE (acres): 1.06
TOWNSHIP:

○ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ◉ MINT HILL

4. **BUILDING INFORMATION:**

BUILDING TYPE:

○ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
◉ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: 2,500
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:

○ CONCRETE SLAB ◉ BASEMENT WITH PLUMBING
○ CRAWL SPACE ○ BASEMENT 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: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

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:** 1 2 ____ ____ ____

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?** 11/2/99 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** 5/1/14 ☐ N/A

12. **PROPERTY OWNER:**

NAME: Anatoliy Meyko (buyer)
ADDRESS: 6221 Gold Wagon Ln
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: (704) 378-3320
MOBILE PHONE: (908) 453-3314
FAX: _____
E-MAIL: ameyko1@yahoo.com

13. **OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:**

NAME: _____
ADDRESS: _____
CITY: _____
STATE: _____ ZIP: _____
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

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

Revised on: 12/15/10

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.

AM (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.

_____ (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. A PROPOSED PLOT PLAN is required to be submitted with each application.

Property Owner's or Owner's Legal Representative Signature

4-4-14
Date

OFFICE USE ONLY

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

SEPTIC APPLICATION FEE RECEIVED: $ 250 DATE FEE RECEIVED: 4/4/14

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

APPLICATION PROCESSED BY: Lewis

GWS FILE NUMBER ASSIGNED: 57268

APPLICATION ID NUMBER ASSIGNED: 6765

COMMENTS:

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

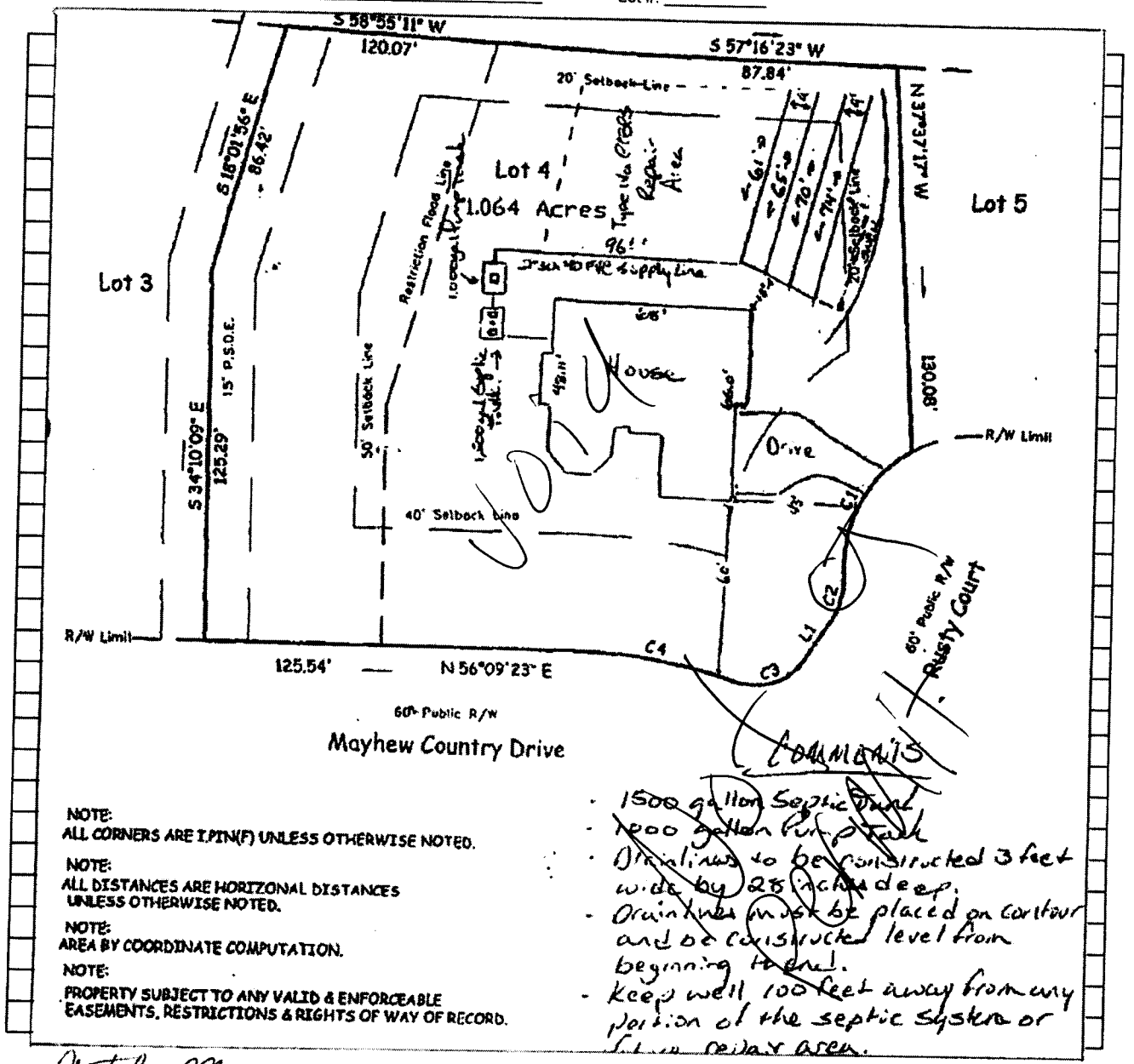
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 3330 Rusty Ct Tax Parcel #: 195-211-12

Subdivision Name: Mayhew Country Estates Lot #: 4



NOTE:
ALL CORNERS ARE I.PIN(F) UNLESS OTHERWISE NOTED.

NOTE:
ALL DISTANCES ARE HORIZONAL DISTANCES UNLESS OTHERWISE NOTED.

NOTE:
AREA BY COORDINATE COMPUTATION.

NOTE:
PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.

- 1500 gallon Septic Tank
- 1000 gallon Pump Tank
- Drainlines to be constructed 3 feet wide by 28 inches deep.
- Drainlines must be placed on contour and be constructed level from beginning to end.
- Keep well 100 feet away from any portion of the septic system or future repair area.

Antoly Mayb
Property Owner's or Owner's Legal Representative Signature

4-4-14
Date

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 04/04/14
Receipt #: 89005
Check / Auth #: VISA 015242
Received By: SADERLW

Amount: 250.00
Tendered: 250.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: MEYKO ANATOLIY
Attn:
Address: 6221 GOLD WAGON LN
Address:
City/State/Zip: MINT HILL, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 3330 RUSTY CT		1	250.00	250.00

----------Outstanding Balances----------

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
20.00	265.00	2,049.65			

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Property ID: 195-211-12
Lot #: 4
File #: 5726B
AppID: 6765

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Anatoliy Meyko
Applicant: Anatoliy Meyko
Address: 6221 Gold Wagon Ln, Mint Hill, NC 28227
Date Evaluated: 4/15/2014
Proposed Facility: 4 BR Residence
Design Flow (.1949): 480 GPD
Property Size: 1.06 ac
Location of Site: 3330 Rusty Ct., Mint Hill, NC 28227
Property Recorded: 11/2/99
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Pit, Boring, or Profile #	(1) Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY (1941) (2) 1941 Structure/ Texture	(3) 1941 Consistence & Mineralogy	(4) PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Saprolite Class	1944 Restr. Horiz.	(5) General Comments	Profile Depth & LTAR	Maximum Trench Bottom Depth for Conventional Trench
Boring #1	SS %14	0 - 8	wfsbk CL	FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		8 - 40	mfsbk C	FR SEXP							
		40 - 53	mfsbk CL	FR SEXP							
Boring #2	LS 13%	0 - 8	wfsbk CL	FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		8 - 45	mfsbk C	FR SEXP							
		45 - 53	mfsbk CL	FR SEXP							
Boring #3	LS 12%	0 - 4	gr CL	FR SEXP	2 chroma @ 30"	36	NA	NA		PS IV 0.25	14" (Need Cover)
		4 - 30	mfsbk C	FI SEXP							
		30 - 36	wfsbk C	VFI EXP							
Boring #4		0 - 36	**Possible Fill**							US	NA
Boring #5	LS 11%	0 - 8	wfsbk CL	FR SEXP	2 chroma @ 40"					PS IV 0.28	24"
		8 - 40	mfsbk C	FI SEXP							
		40 - 52	mfabk SIC	FI SEXP							

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	Iva	Iva
Site LTAR (gpd/sq ft)	0.3	0.28

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Bradley W Hallman
Others Present:

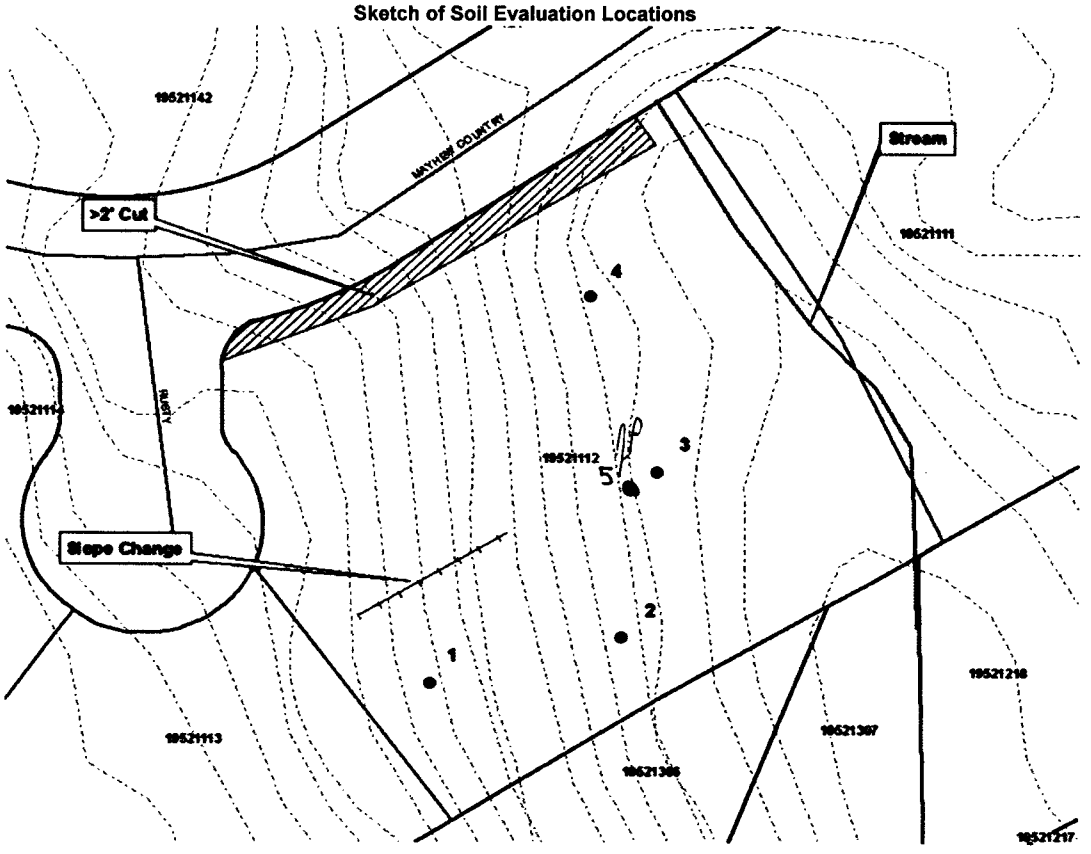
COMMENTS:

Sheet: 2 of 2
File #: 5726B
AppID: 6765

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
		SiL-Silt Loam		m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Property ID: 195-211-12
Lot #: 4
File #: 5726B
AppID: 6765

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Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Profile #	.1941 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence/ Mineralogy/ pH	PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro. Class	.1944 Restr. Horiz.	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
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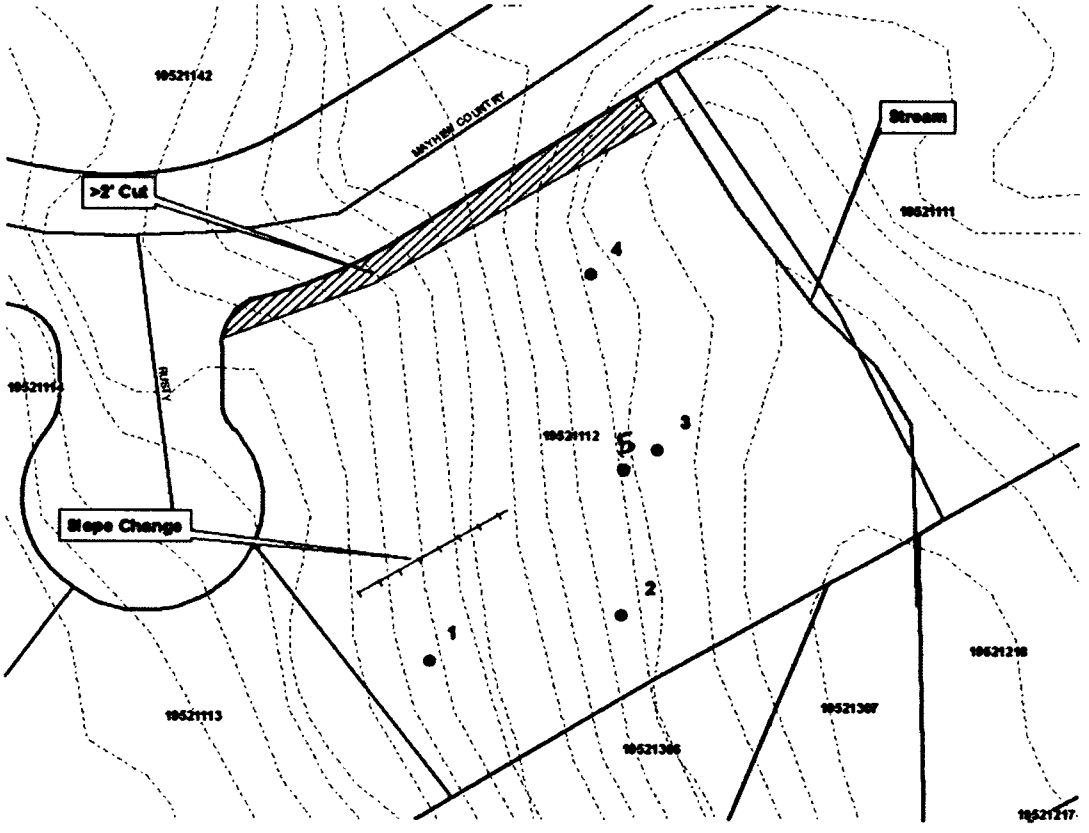
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Jeremy Michael
Others Present: Jeremy Michael

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
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		NA-Not Applicable

Sketch of Soil Evaluation Locations



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

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006765** GWS File #: **5726B** Tax Parcel #: **195-211-12**

- This 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.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 5/30/2019

Type of Installation: Residential - New System Lot Number: 4

Structure Type: HOUSE Size (ft^2): 2500 # Bedrooms: 4 # Occupants: 4

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	801	Total Trench Length (ft):	267
Maximum Trench Depth (in):	32	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.28	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	857	Total Trench Length (ft):	286
Maximum Trench Depth (in):	22	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 5/30/2014

Owner/Legal Agent: Anatoliy Meyko
Print Name

Signature: Anatoliy Meyko

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

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006765** GWS File #: **5726B**

IV. Permit Conditions/Comments:

- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- "Traffic Rated" tank(s) is required due to tank installation depth(s) and/or location.
- The invert of the sewer pipe exiting the structrue should be kept as high as possible in order to achieve gravity flow to the drain field. A dosing tank will be required if gravity flow to the drain field can not be achieved.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 25 feet from any foundation drain.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

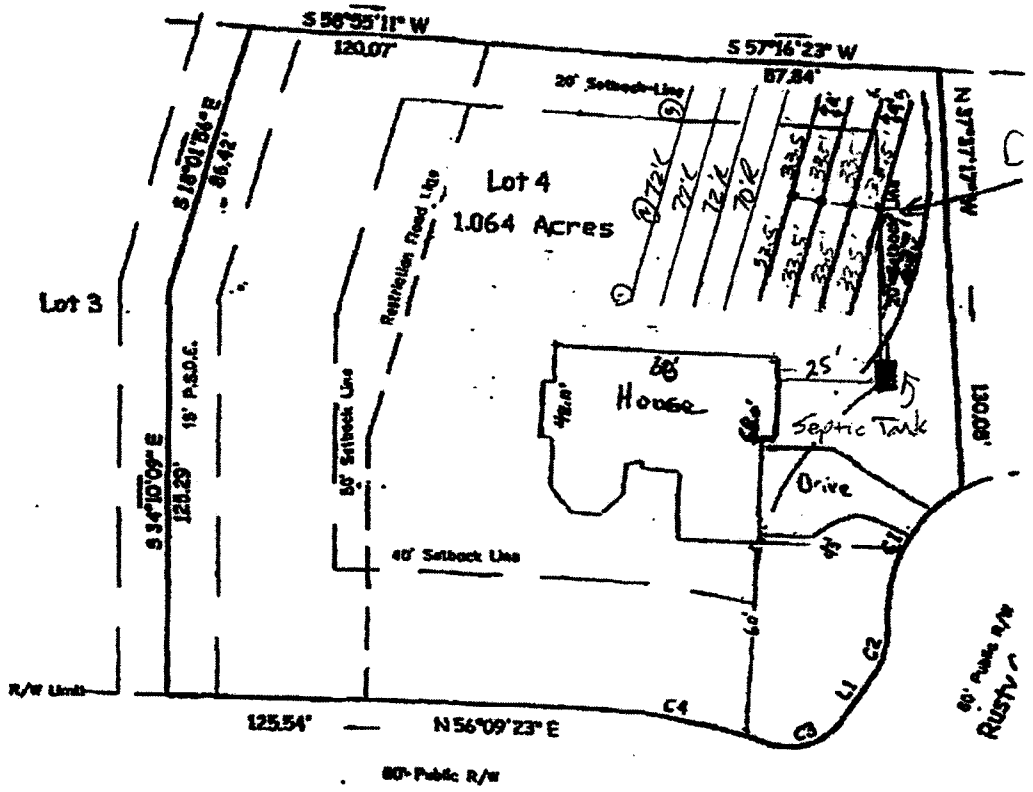
Date Issued: 6/30/2014

Owner/Legal Agent: Anatoliy Meyko
Print Name

Signature: Anatoliy Meyko

Septic Layout

CURVE	LENGTH	RADIUS	BEARING	C
C1	50.26'	45.00'	N 06°29'18" W	
C2	16.68'	25.00'	S 20°18'59" E	
C3	26.36'	20.00'	S 36°33'06" W	
C4	57.04'	180.00'	N 65°14'09" E	



NOTE:
ALL CORNERS ARE I.PIN(F) UNLESS OTHERWISE NOTED.

NOTE:
ALL DISTANCES ARE HORIZONAL DISTANCES UNLESS OTHERWISE NOTED.

NOTE:
AREA BY COORDINATE COMPUTATION.

NOTE:
PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.

SUBJECT PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FLOOD INSURANCE RATE MAP.

NOTE:
THIS PLAT IS OF A SURVEY OF AN EXISTING PARCEL or PARCELS OF LAND.

* This is not a survey.

Tax Parcel:
E.C. = 1' : 10,000' ±
Deed Ref:
Map Book: 32 / 156

COMMENTS

- 1500 gallon Septic Tank
- D
- Drainlines to be construct wide by 18 inches deep
- Drainlines must be placed and be constructed level beginning to end.
- Keep well 100 feet away portion of the septic sy future repair area.

Scale
1 inch = 50 fee

Anatoliy Meyke

Anatoliy Meyke

6/19/14

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

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Building Foundation: Basement With Plumbing Water Supply: Private Well

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Initial System Specifications:

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Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	801	Total Trench Length (ft):	267
Maximum Trench Depth (in):	32	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.28	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	857	Total Trench Length (ft):	286
Maximum Trench Depth (in):	22	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

- No work shall be conducted on the septic system until an INSTALLATION APPROVAL is granted by the Department.
- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 5/30/2014

Owner/Legal Agent: Anatoliy Meyko
Print Name

Signature: Anatoliy Meyko

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

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006765** GWS File #: **5726B** Tax Parcel #: **195-211-12**

- This 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.

I. This Improvement Permit Shall: Expire in Five (5) Years **Expiration Date (If Applicable):** 5/30/2019

Type of Installation: Residential - New System Lot Number: 4

Structure Type: HOUSE Size (ft^2): 2500 # Bedrooms: 4 # Occupants: 4

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: PPBPS (gravity) **System Classification:** IIIe

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	801	Total Trench Length (ft):	267
Maximum Trench Depth (in):	32	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

III. Repair System Type: PPBPS (gravity) **System Classification:** IIIe

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.28	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	857	Total Trench Length (ft):	286
Maximum Trench Depth (in):	22	Depth of Media (in):	N/A	Distribution Device:	Drop Boxes		

IV. Permit Conditions/Comments:

(Please See the Following Page for Permit Conditions.)

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment, and Disposal Systems* and is subject to the following provisions:

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- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michael Signature: _____

Date Issued: 5/30/2014

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

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006765** GWS File #: **5726B**

IV. Permit Conditions/Comments:

- The septic system shall be installed in accordance with the plans submitted by the wastewater system design consultant.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.
- All components of the septic system must be located at least 100 ft. (50 ft. minimum) from all private wells.
- All waterlines must be located a minimum of 10 ft. from any part of the septic system.
- Upon completion of the project the system designer shall provide Groundwater & Wastewater Services with a letter certifying that the system was installed in accordance with the approved design.
- "Traffic Rated" tank(s) is required due to tank installation depth(s) and/or location.
- The invert of the sewer pipe exiting the structrue should be kept as high as possible in order to achieve gravity flow to the drain field. A dosing tank will be required if gravity flow to the drain field can not be achieved.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- The septic system shall be located at least 25 feet from any foundation drain.

The undersigned, an authorized agent of the MECKLENBURG COUNTY HEALTH DEPARTMENT, certifies that the Department is issuing an IMPROVEMENT PERMIT for the above referenced property. This permit is being issued in accordance with the *Laws and Rules For Sewage Treatment and Disposal Systems* and is subject to the following provisions:

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- The septic system installer shall be a registered septic contractor with Mecklenburg County Health Department.
- The permitted system shall be installed in accordance with the included PLOT PLAN.
- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 6/30/2014

Owner/Legal Agent: Anatoliy Meyko
Print Name

Signature: Anatoly Meyko

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

IMPROVEMENT PERMIT for a RESIDENTIAL ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

Permit #: **30006765** GWS File #: **5726B**

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- This IMPROVEMENT PERMIT is transferable.

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

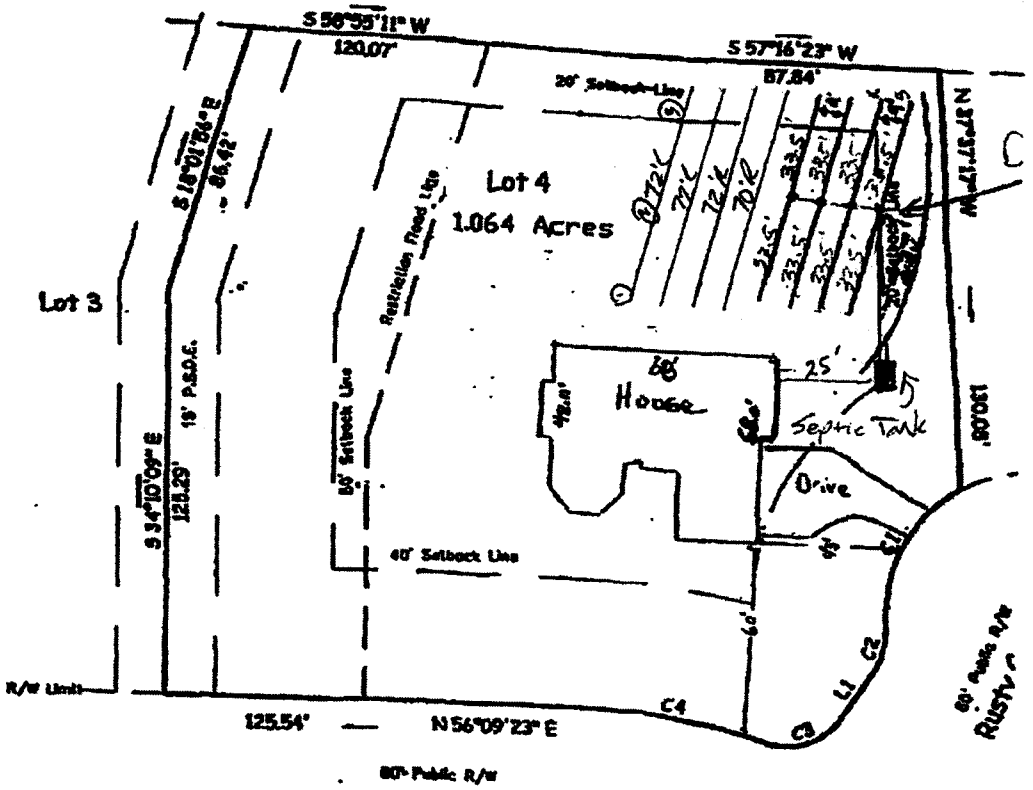
Date Issued: 6/30/2014

Owner/Legal Agent: _____
Print Name

Signature: _____

Septic Layout

CURVE	LENGTH	RADIUS	BEARING	C
C1	50.26'	45.00'	N 06°29'18" W	
C2	16.68'	25.00'	S 20°18'59" E	
C3	26.36'	20.00'	S 36°33'06" W	
C4	57.04'	180.00'	N 65°14'05" E	



COMMENTS

- 1500 gallon Septic Tank
- D
- Drainlines to be construct wide by 28 inches deep
- Drainlines must be placed and be constructed level beginning to end.
- Keep well 100 feet away portion of the septic sy future repair area.

NOTE:
ALL CORNERS ARE I.PIN(F) UNLESS OTHERWISE NOTED.

NOTE:
ALL DISTANCES ARE HORIZONAL DISTANCES UNLESS OTHERWISE NOTED.

NOTE:
AREA BY COORDINATE COMPUTATION.

NOTE:
PROPERTY SUBJECT TO ANY VALID & ENFORCEABLE EASEMENTS, RESTRICTIONS & RIGHTS OF WAY OF RECORD.

SUBJECT PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FLOOD INSURANCE RATE MAP.

NOTE:
THIS PLAT IS OF A SURVEY OF AN EXISTING PARCEL or PARCELS OF LAND.

Scale
1 inch = 50 fee

* This is not a survey.

Tax Parcel:
E.C. = 1' : 10,000' +
Deed Ref:
Map Book: 32 / 156

Anatoliy Meyke

Anatoly Meyke

6/19/14

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

Lot 4 – Mayhew Estates
3330 Rusty Court
Mint Hill, North Carolina

Tax Parcel # 195-211-12
MCGWS File # 5726B
June 11, 2014

GWS Septic System Design Review

GWS File #: 5726B **Approved** ☑ **Disapproved** ☐

Design Review: ☑

Field Review: ☑

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

Prepared for:

Anatoliy Meyko
6221 Gold Wagon Ln
Mint Hill, NC 28227
(908) 453-3314

LICENSED SOIL SCIENTIST
LARRY B. THOMPSON JR.
1287
STATE OF NORTH CAROLINA

Prepared by:

Larry Thompson, REHS, PWS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
Fax: 704-888-6066
larry@thompsonenv.com

NORTH CAROLINA REGISTERED ENVIRONMENTAL HEALTH SPECIALIST SEAL 1208 LARRY B. THOMPSON JR.

cc: Mr. Bradley Hallman, REHS
Mecklenburg County Environmental Health

Details

Anatoliy Meyko has contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a proposal for an on-site wastewater treatment and disposal system that would allow for the construction of a 4-bedroom single family residence served by a private water supply to be located at 3330 Rusty Court, Mint Hill, North Carolina.

Based upon a soils investigation performed by Mecklenburg County Groundwater and Wastewater Services (MCGWS) it has been determined that a sufficient amount of "Suitable" Group IV soils are available on this property for the installation of a gravity flow prefabricated porous block panel system (PPBPS). The proposed repair system would be a gravity flow at-grade PPBPS with a 12 inch soil cap.

Mr. Meyko would like to request MCGWS consider issuing an Improvement Permit and Construction Authorization for a 4-bedroom residence to be located at 3330 Rusty Court based upon the following revised resubmittal.

Location

The subject property is located in Mayhew Country Estates (Lot 4 physical address: 3330 Rusty Court) in the town of Mint Hill, North Carolina. Traveling southwest on NC 51 out of Mint Hill, turn left on Mintwood Drive, right onto Mayhew Country Drive and left onto Rusty Court. 3330 Rusty Court is located 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, October 2011.

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
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Owner must assure that all utilities are routed around the proposed septic drainfield and its repair area. These areas must be protected from traffic and any form of encroachment.

All plumbing must exit the first floor – Basement will not be plumbed.

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved traffic rated tank (Section .1953 of 15A NCAC 18A) that is 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.
4. Tank shall be set, at a minimum, 25 feet off of the house foundation.
5. It is the responsibility of the homeowner and builder to assure that the plumbing from the house to the septic tank will be at an elevation that will allow a gravity flow installation without the drainlines being deeper than the maximum trench depth. A preconstruction conference with a licensed septic installer is strongly encouraged in order to establish the appropriate plumbing elevation.
6. The septic tank shall be a "traffic rated" or load bearing tank if final cover is 3 feet or more. A traffic rated tank will not be required if the final cover over the septic tank is less than 3 feet.

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. The drainfield will utilize a drop boxes to center feed each drainline.

D. Backfill

1. Backfill sand shall be 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 have 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 four (4) lateral trenches, each being 3-feet wide by 67 feet in length. The drainlines will be centered fed with drop boxes and will extend 33.5 feet in each direction.
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 **32 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 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. Water lines must be kept at least ten (10) feet from any portion of the septic system.
3. 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:	480 GPD – 4 bedroom house
Septic Tank Size:	1500 Gallons
Effluent Loading Rate:	Design = 0.3 GPD per sq. ft. (50 % reduction - PPBPS)
Drainfield Type:	Gravity Flow PPBPS
Distribution Method:	Drop Boxes (center feed)
Number and Size of Drainlines:	(4) 3' Wide x 67' Long
Maximum Trench Depth:	28 Inches Deep
Drainline Spacing:	9 Foot on Centers
Total Length of Drainline:	268 Feet
Number of Panels Per Line:	14
Total Number of Panels:	56

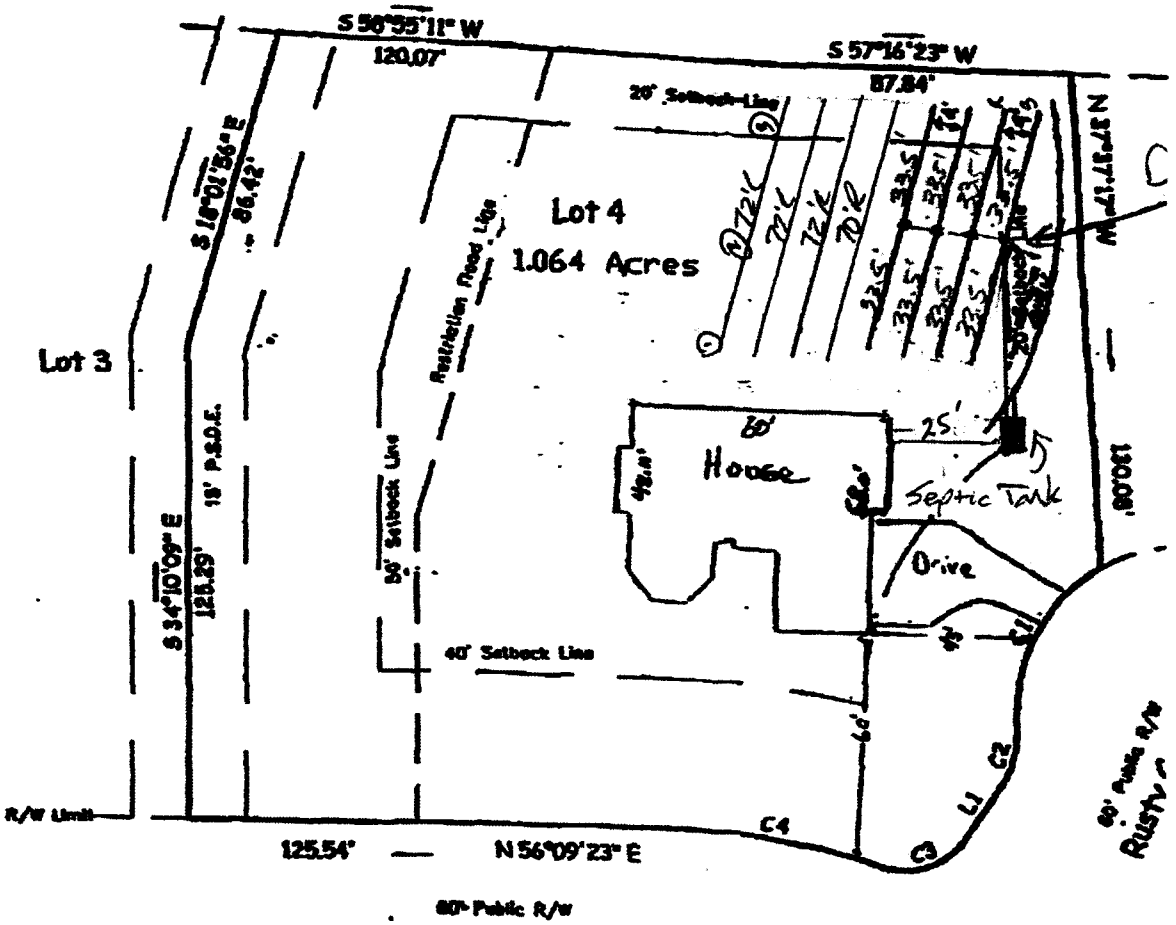
Repair Specifics

Effluent Loading Rate For Repair System:	0.28 GPD per sq. ft.
Repair Drainfield Type:	Gravity Flow PPBPS
Distribution Method:	Drop Boxes (center feed)

Number of Drainlines:	4
Drain Lines:	(4) 3' W x Varying Lengths (1) at 70 Feet (3) at 72 Feet
Maximum Trench Depth:	22 Inches Deep (at-grade)
Soil Cover:	12 Inches Minimum
Drainline Spacing:	9 Foot on Centers
Total Length of Drainline:	286 Feet
Number of Panels Per Line:	16
Total Number of Panels:	64

Septic Layout

CURVE	LENGTH	RADIUS	BEARING	C
C1	50.26'	45.00'	N 06°29'18" W	
C2	16.68'	29.00'	S 20°18'59" E	
C3	26.36'	20.00'	S 36°33'06" W	
C4	57.04'	180.00'	N 65°14'05" E	



COMMENTS

- 1500 gallon Septic Tank
-
- Drainlines to be construct wide by 28 inches deep
- Drainlines must be placed and be constructed level beginning to end.
- Keep well 100 feet away portion of the septic sy future repair area.

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AREA BY COORDINATE COMPUTATION.

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SUBJECT PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FLOOD INSURANCE RATE MAP.

NOTE:
THIS PLAT IS OF A SURVEY OF AN EXISTING PARCEL or PARCELS OF LAND.

Scale
1 inch = 50 fee

* This is not a survey.

Tax Parcel:
E.C. = 1' : 10,000' +
Deed Ref:
Map Book: 32 / 156

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
704-301-4881

SHEET 1 OF 1

COUNTY: Mecklenburg
TAX ID: 195-211-12

OWNER: Anatoliy Meyko
LOCATION: 3330 Rusty Court

DATE: May 22, 2014

PROFILES		SB-1	SB-2	SB-3							
LANDSCAPE POSITION	.1940	ls	ls	ls							
SLOPE (%)	.1940	11%	11%	11%							
HORIZON 1 DEPTH	.1943	0-9	0-8	0-8							
TEXTURE	.1941 (a)(1)	cl	cl	cl							
CONSISTENCE	.1941	fr	fr	fr							
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk							
CLAY MINERALOGY	.1941 (a)(3)	se	se	se							
HORIZON 2 DEPTH	.1943	9-39	8-40	8-36							
TEXTURE	.1941 (a)(1)	c	c	c							
CONSISTENCE	.1941	fr	fr	fr							
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk							
CLAY MINERALOGY	.1941 (a)(3)	se	se	se							
HORIZON 3 DEPTH	.1943	39-45+	40-44+	36-44+							
TEXTURE	.1941 (a)(1)	scl	cl	cl							
CONSISTENCE	.1941	fr	fr	fr							
STRUCTURE	.1941 (a)(2)	sbk	sbk	sbk							
CLAY MINERALOGY	.1941 (a)(3)	se	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	ps	ps	ps							
L.T.A.R. (gpd/ft^2)	.1955	0.3	0.3	0.3							

OTHER FACTORS (.1946):

SITE LTAR (gpd/ft^2): 0.3

AVAILABLE SPACE (.1945): provisionally suitable

SITE CLASSIFICATION (.1948): provisionally suitable

SYSTEM TYPE: PPBPS

EVALUATED BY: Larry Thompson

OTHERS PRESENT:

COMMENTS:

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 195-211-12
Lot #: 4
File #: 5726B
AppID: 6765

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Anatoliy Meyko
Applicant: Anatoliy Meyko
Address: 6221 Gold Wagon Ln, Mint Hill, NC 28227
Date Evaluated: 4/15/2014
Proposed Facility: 4 BR Residence
Design Flow (.1949): 480 GPD
Property Size: 1.06 ac
Location of Site: 3330 Rusty Ct., Mint Hill, NC 28227
Property Recorded: 11/2/99
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941		b PROFILE FACTORS				General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
			1941 Structure/ Texture	1941 Consistence Mineralogy	1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz			
Boring #1	SS %14	0 - 8	wfsbk CL	FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		8 - 40	mfsbk C	FR SEXP							
		40 - 53	mfsbk CL	FR SEXP							
Boring #2	LS 13%	0 - 8	wfsbk CL	FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		8 - 45	mfsbk C	FR SEXP							
		45 - 53	mfsbk CL	FR SEXP							
Boring #3	LS 12%	0 - 4	gr CL	FR SEXP	2 chroma @ 30"	36	NA	NA		PS IV 0.25	14" (Need Cover)
		4 - 30	mfsbk C	FI SEXP							
		30 - 36	wfsbk C	VFI EXP							
Boring #4		0 - 36	**Possible Fill**							US	NA

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)	0.3	0.25

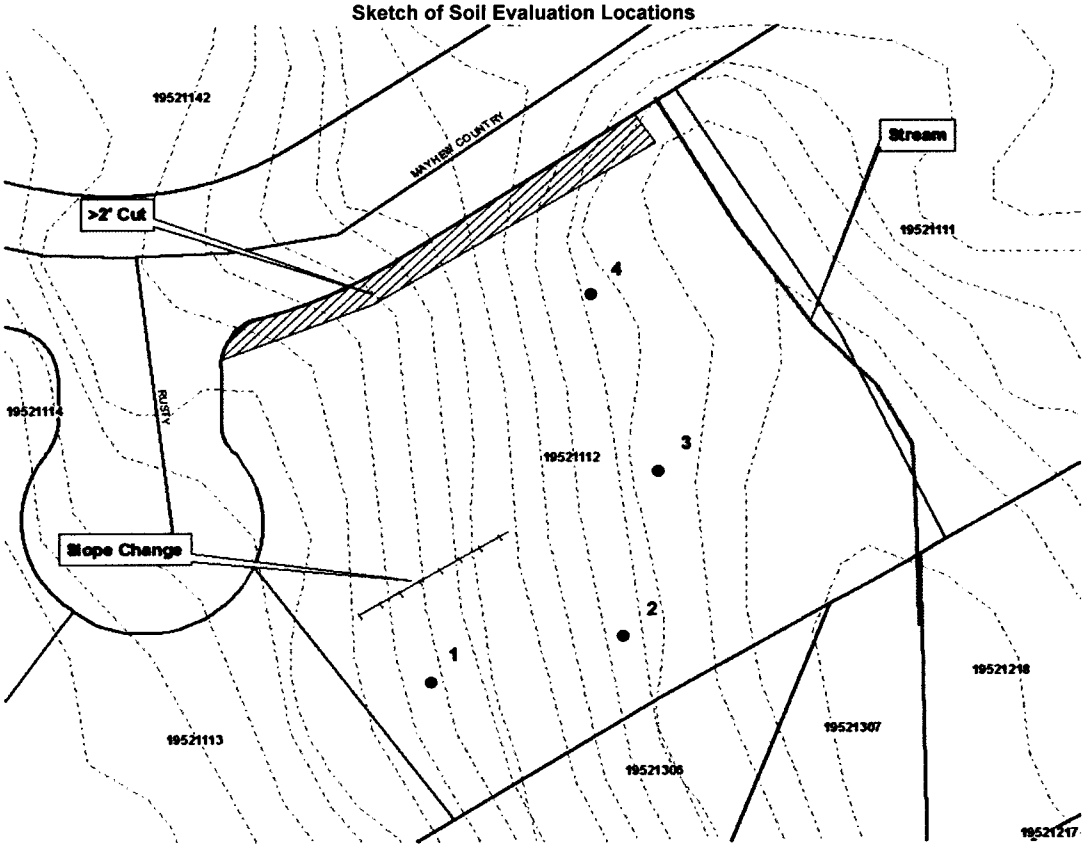
Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
LS-Linear Slope				cr-Crumb
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6	gr-Granular
NS-Nose Slope		L-Loam		sbk-Subangular Blocky
HS-Head Slope				abk-Angular Blocky
CC-Concave Slope	III	Si-Silt	0.6 - 0.3	pl-Platy
CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
		SiL-Silt Loam		m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations



FEE: 200.00

DATE: 4/23/2018

CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 5726B

PERMIT NUMBER: 30006765

PARCEL NUMBER: 19521112

JOB LOCATION INFORMATION

ADDRESS: 3330 RUSTY CT

CITY: CHARLOTTE **STATE: NC** **ZIP:** 28227

ISSUED TO: GARRICK & MORGAN OLIAN

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 4/23/2018

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30006765, AND THE ATTACHED SITE PLAN WITH SYSTEM DETAILS. CONSTRUCTION AND INSTALLATION MUST ALSO MEET ALL REQUIREMENTS SET FORTH IN THE RULES GOVERNING SANITARY SEWAGE COLLECTION, TREATMENT, AND DISPOSAL AND ANY OTHER APPLICABLE RULES AND LAWS.

2. A PRE-CONSTRUCTION MEETING MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A LICENSED SEPTIC TANK CONTRACTOR WITH THE NORTH CAROLINA ONSITE WASTEWATER CONTRACTOR INSPECTOR CERTIFICATION BOARD.

3. ANY ALTERATION IN SITE OR SOIL CONDITIONS (INCLUDING LOCATION OF STRUCTURES AND APPURTENANCES) OR MODIFICATION IN USE, DESIGN WASTEWATER FLOW, OR WASTEWATER CHARACTERISTICS AS SPECIFIED IN THE ASSOCIATED IMPROVEMENT PERMIT AND APPLICATION, MAY SUBJECT THIS CONSTRUCTION AUTHORIZATION AND ASSOCIATED PERMIT(S) TO REVOCATION.

4. THIS CONSTRUCTION AUTHORIZATION AS PROVIDED IN G.S. 130A-335(f) AND G.S. 130A-336(b) SHALL BE VALID FOR A PERIOD EQUAL TO THE VALIDITY OF THE IMPROVEMENT PERMIT, AND MAY BE ISSUED AT THE SAME TIME THE IMPROVEMENT PERMIT IS ISSUED.

Authorized Agent Signature Jeremy Mikel

Sader, Linda

From: anatoliy meyko <ameyko1@yahoo.com>
Sent: Friday, April 04, 2014 1:08 PM
To: Sader, Linda
Cc: Michael, Jeremy; Presley, Jacob
Subject: Re: 3330 Rusty Ct
Attachments: Septic Application_Meyko_3330 Rusty Ct.pdf; OLD Septic Report - 3330 Rusty Ct.pdf

Linda,

Attached is the septic application for 3330 Rusty Ct. I included the originally approved plot plan for the proposed house on the last page. I am ok with this house size, layout and location. As Jeremy mentioned below, let's see if it's possible for the County to permit directly with another type of more conventional system. If not, I would like to just use the previous report and original design from Larry as I am ok with the house location. Also attached is original permit and septic design for convenience. I will call you with payment for the $250 application fee.

Jacob,

I would like to get the lot re-permitted as soon as possible as I will need to close by May 1. Please let me know if you can come out next week to do the testing.

Thanks,

Anatoliy Meyko
(908) 453-3314

From: "Michael, Jeremy" <Jeremy.Michael@mecklenburgcountync.gov>
To: anatoliy meyko <ameyko1@yahoo.com>
Sent: Thursday, January 16, 2014 4:26 PM
Subject: RE: 3330 Rusty Ct

If the property has not been graded and stayed the same than the soil conditions should not have changed drastically. However our current soil scientist would re-evaluate the property and may come up with a slightly different loading rate or description. It's doubtful that the soils would be considered unsuitable for septic.

Because the permit expired and several years have passed, we would treat it as if it was never permitted. The reason Larry was involved is because it looked like there was limited available space for a septic system and he drew it up for a 50% reduction panel system with low pressure pipe dispersal. These types of systems require a design consultant to submit plans to the county. We will see if we can permit it ourselves with another type of system but if this cannot be done you can contact Larry about a re-design. He could possibly tweak the plan he originally submitted with an up-to-date house location, and layout the drain lines again for our review. When you apply you can contact Jacob Presley to determine what his schedule looks like to evaluate the soil. We evaluate lots in the order the applications come in. The property lines would need to be marked and the house location reflagged in the field prior to work being done. It may be possible to get an

answer in 1.5 weeks but if we are waiting on Larry for something or Jacob has a busy schedule it could take longer.

Thanks,

Jeremy Michael, REHS
Environmental Supervisor
Groundwater & Wastewater Services
Land Use & Environmental Services Agency
Office: 704-432-4258
Cell: 704-622-5032
Jeremy.Michael@MecklenburgCountyNC.gov
http://groundwater.charmeck.org

From: anatoliy meyko [mailto:ameyko1@yahoo.com]
Sent: Thursday, January 16, 2014 2:43 PM
To: Michael, Jeremy
Cc: Presley, Jacob; Sader, Linda
Subject: Fw: 3330 Rusty Ct

Jeremy,

I am interested in purchasing a vacant lot on 3330 Rusty Ct. I spoke with Linda again today and she told me that the improvement permit on that lot expired last year (see attached). I understand that I will have to pay $250 to get a new permit from the County.

The original permit had a system designed by Larry Thompson (also attached). Is there any particular reason that I can't just use that design again? I don't see why the design would change as the condition of the land is the same (untouched). Will your re-evaluation (soil investigation) possibly come to a different conclusion? (such as not having to go with that special design)

With this particular foreclosed lot, I only have 10 days due diligence once they accept an offer. Is 10 days (basically 1.5 weeks) even enough time for you to re-issue the permit once I file an application? I assume that since the lot once perked, that it would do so again. But I want to confirm this (by updating the permit) before I submit my offer to the Bank.

Thanks,

Anatoliy Meyko
(908) 453-3314

----- Forwarded Message -----
From: "Sader, Linda" <Linda.Sader@mecklenburgcountync.gov>
To: anatoliy meyko <ameyko1@yahoo.com>
Sent: Tuesday, December 17, 2013 10:53 AM
Subject: RE: 3330 Rusty Ct

Anatoliy,

I have attached the first two pages of the design by Thompson. The system would have to be the same as what was designed for it, the home location and size would need to be the same as well. It **may** be possible to change the size of the home or maybe move the home location slightly, but that would involve applying for a change in plot plan ($100 fee).

Linda W. Sader
Mecklenburg County Health Department
Environmental Management and Support Services
Clerk to the Groundwater Advisory Committee
700 N. Tryon St., Suite 211
Charlotte, NC 28202
704-336-7291 (Phone) 704-336-6894 (Fax)
Linda.Sader@MecklenburgCountyNC.gov

From: anatoliy meyko [mailto:ameyko1@yahoo.com]
Sent: Tuesday, December 17, 2013 10:27 AM
To: Sader, Linda
Subject: Re: 3330 Rusty Ct

Linda,

Thanks for the information. So it looks like a preliminary permit was issued, pending a design of septic system (so the property itself perked?). I am assuming it is probably a more costly system if it required further design (prefabricated, permeable block panel).

Can I go ahead and get a quote for getting a septic system designed (and installed) using the attached soil evaluation and map? Or would a new soil evaluation (and $250 fee) be required?

Thanks,

Anatoliy

From: "Sader, Linda" <Linda.Sader@mecklenburgcountync.gov>
To: anatoliy meyko <ameyko1@yahoo.com>
Sent: Tuesday, December 17, 2013 9:50 AM
Subject: RE: 3330 Rusty Ct

Good morning,
I have attached some information for you. A soil evaluation was completed. The lot had to have a septic system designed. There were never any final permits issued.

Linda W. Sader
Mecklenburg County Health Department
Environmental Management and Support Services
Clerk to the Groundwater Advisory Committee
700 N. Tryon St., Suite 211
Charlotte, NC 28202
704-336-7291 (Phone) 704-336-6894 (Fax)
Linda.Sader@MecklenburgCountyNC.gov

From: anatoliy meyko [mailto:ameyko1@yahoo.com]
Sent: Monday, December 16, 2013 4:36 PM
To: Sader, Linda
Subject: 3330 Rusty Ct

Hello Linda,

I was wondering if a soil evaluation (permit) was ever issued for parcel # 195-211-12. The street address is 3330 Rusty Ct in Mint Hill. The lot is only one of a few remaining properties in the subdivision.

Thanks,

Anatoliy Meyko

Presley, Jacob

From: Rozzelle, Rusty
Sent: Thursday, April 10, 2014 3:14 PM
To: anatoliy meyko; Presley, Jacob; McCulloch, John
Cc: Hallman, Bradley; Ceccarelli, Don
Subject: RE: Mayhew Country Estates Subdivision - 3330 Rusty Court - Mint Hill

Anatoliy,

This parcel is somewhat different because it is located in the Goose Creek watershed whereas 13900 Idlewild Road is located in the Yadkin watershed; however, they are both exempt from the buffer provisions but just for different reasons. 3330 Rusty Court is exempt from the buffer requirements based on a Common Law Vested Right, which applies when there is a substantial expenditure of resources (time, labor, money) based on a good faith reliance upon having received a valid governmental approval to proceed with a project. It is my understanding that the subdivision was approved in 1999, which satisfies the government approval requirement. In addition, land development permits were obtained and the roads and other infrastructure were substantially completed prior to March 11, 2010, which is the effective date of the Goose Creek requirements. This satisfies the requirement for the expenditure of resources, including time, labor or money. Therefore, 3330 Rusty Court is exempt from all the water quality buffer requirements as well as the post-construction ordinance requirements. This email will serve as your formal notification of this exemption.

If you have any questions, please give me a call.

Thank you.

Rusty Rozzelle, Program Manager
Charlotte-Mecklenburg Storm Water Services
Mecklenburg County Water Quality Program
700 North Tryon Street
Charlotte, N.C. 28202
Office: 704-336-5449
Fax: 704-336-4391
rusty.rozzelle@mecklenburgcountync.gov



Please consider the environment before printing this email.

From: anatoliy meyko [mailto:ameyko1@yahoo.com]
Sent: Thursday, April 10, 2014 2:19 PM
To: Presley, Jacob; Rozzelle, Rusty; McCulloch, John
Cc: Hallman, Bradley
Subject: Re: Mayhew Country Estates Subdivision - 3330 Rusty Court - Mint Hill

Jacob,

I actually had contacted Rusty Rozzelle on this topic last year on my other lot off 13900 Idlewild Rd. The new Post Construction Buffer is 100 ft for new subdivisions after 2007. His interpretation of the Post Construction Ordinance was the same as mine. Similarly, the Mayhew Country Estates subdivision plan was submitted and approved in 1999, long before the June 2007 ordinance. Therefore, the new 100 ft buffer does not apply.

Here is the response I received for the Idlewild Rd lot. Mint Hill adopted the ordinance on the same date as well:

"The post-construction buffer would not apply if a preliminary subdivision plan application or in the case of minor subdivisions, construction plan for required improvements, was submitted and accepted for review by the Town of Matthews prior to June 30, 2007 and provided the parcel lines are unchanged from what was shown on this subdivision plan application."

Rusty,

Please take this as my formal request for 3330 Rusty Ct. Please reconfirm that this lot is also "grandfathered in" and that the new buffer does not apply.

Thank you,

Anatoliy Meyko

From: "Presley, Jacob" <Jacob.Presley@mecklenburgcountync.gov>
To: anatoliy meyko <ameyko1@yahoo.com>
Cc: "Hallman, Bradley" <Bradley.Hallman@mecklenburgcountync.gov>
Sent: Thursday, April 10, 2014 10:43 AM
Subject: FW: Mayhew Country Estates Subdivision - 3330 Rusty Court - Mint Hill

Anatoliy, currently there is a 100' water quality buffer from the stream on the lot, which is limiting space. In 2004 when the old improvement permit was issued this did not exist. When I was out on the lot yesterday I pulled 100' off of the stream and the space for the septic system and repair area was severely limited, also part of the house pad you flagged was within the 100' buffer. The property may possibly be "grandfathered in" and we may be able to utilize space up to 50' from the stream. In order to determine this you will need to follow the instructions below from John with Water Quality. You can email him your request.
The other option would be for you to hire a consultant to see if they can make something work while staying out of the buffer with all proposed structures and septic areas.
If you have any questions feel free to contact me.
Thanks and have a great day!

Jacob Presley, LSS, REHSI
Sr. Environmental Health Specialist
Mecklenburg County Groundwater & Wastewater Services

Mobile (980) 721-2060
Office (704) 336-5440
Fax (704) 336-6894

From: McCulloch, John
Sent: Thursday, April 10, 2014 10:12 AM
To: Presley, Jacob
Cc: Farmer, Richard; Rozzelle, Rusty
Subject: Mayhew Country Estates Subdivision - 3330 Rusty Court - Mint Hill

Jacob,

The owner of the subject property will need to request a formal Ordinance Interpretation to determine whether or not the Post-Construction and SWIM buffers apply. Upon submittal of this written/email request, Water Quality will provide them with a letter explaining the regulatory status of the property.

Let me know if you have any questions.

Thanks.

John McCulloch, Environmental Supervisor
Charlotte-Mecklenburg Storm Water Services
Water Quality Program
700 N. Tryon Street
Charlotte, NC
Office: 704/336-5455
Mobile: 980/721-3760
Fax: 704/336-4391
http://stormwater.charmeck.org/

Consider the environment before printing this email or the attachment.

Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet: 1 of 2
Property ID: 195-211-12
Lot #: 4
File #: 5726B
AppID: 6765

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Anatoliy Meyko
Address: 6221 Gold Wagon Ln, Mint Hill, NC 28227
Proposed Facility: 4 BR Residence
Design Flow (.1949): 480 GPD
Location of Site: 3330 Rusty Ct., Mint Hill, NC 28227
Water Supply: [X] Public [X] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

Applicant: Anatoliy Meyko
Date Evaluated: 4/15/2014
Property Size: 1.06 ac
Property Recorded: 11/2/99

PROFILE #	a 1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941 1941 Structure/ Texture	1941 Consistence Mineralogy	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	General Comments	Profile Class & LTAR	Maximum Trench Bottom Depth for 3' Wide Conventional Trench
Boring #1	SS %14	0 - 8	wfsbk CL	FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		8 - 40	mfsbk C	FR SEXP							
		40 - 53	mfsbk CL	FR SEXP							
Boring #2	LS 13%	0 - 8	wfsbk CL	FR SEXP	>53"	53	NA	NA		PS IV 0.3	36"
		8 - 45	mfsbk C	FR SEXP							
		45 - 53	mfsbk CL	FR SEXP							
Boring #3	LS 12%	0 - 4	gr CL	FR SEXP	2 chroma @ 30"	36	NA	NA		PS IV 0.25	14" (Need Cover)
		4 - 30	mfsbk C	FI SEXP							
		30 - 36	wfsbk C	VFI EXP							
Boring #4		0 - 36	**Possible Fill**							US	NA

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR (gpd/sq ft)		

Other Factors (.1946):
Soil Evaluation By: Jacob Presley, LSS
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS:

Landscape Position	Group	Texture	.1955 LTAR	Structure
R-Ridge	I	S-Sand	1.2 - 0.8	sg-Single Grain
SS-Shoulder Slope		LS-Loamy Sand		mass-Massive
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CV-Convex Slope		SiCL-Silty Clay Loam		pr-Prismatic
T-Terrace				Sap-Saprolite
FP-Flood Plain		CL-Clay Loam		**Structure Prefixes**
D-Drainage Way		SCL-Sandy Clay Loam		w-weak
		SiL-Silt Loam		m-moderate
				s-strong
				f-fine
	IV	SC-Sandy Clay	0.4 - 0.1	m-medium
		SiC-Silty Clay		c-coarse
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	SS-Slightly Sticky	SEXP-Slightly Expansive
FR-Friable	S-Sticky	EXP-Expansive
FI-Firm	VS-Very Sticky	
VFI-Very Firm	NP-Non-Plastic	**Classification**
EFI-Extremely Firm	SP-Slightly Plastic	US-Unsuitable
	P-Plastic	PS-Provisionally Suitable
	VP-Very Plastic	S-Suitable
		NA-Not Applicable

Sketch of Soil Evaluation Locations

