Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

P317369 4/11/11 Revised

GWS File #: 82290 WASPS App #: 2455

Primary ES assigned to project: YJ

Secondary ES assigned to project: _____

Project Type: New System ☑ Alteration ☐ Repair ☐ Modified Plot Plan ☐

I. File Review:

Rule or Law	Permit Application			
.1937(d)	Is the Application complete	Yes ☑	No ☐	N/A ☐
.1937(d)	Is there a Site plan/Plat with application	Yes ☑	No ☐	N/A ☐
.1937(d)	Is the Facility shown?	Yes ☑	No ☐	N/A ☐
.1937(d)	Are appurtenances shown	Yes ☑	No ☐	N/A ☐
	Site Evaluation Information			
.1939 (a)(1)	Topography and Landscape Position Recorded?	Yes ☑	No ☐	N/A ☐
.1940 (a-g)	Slope % Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Texture Class Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Structure type Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(3)	Soil Wetness Condition Recorded?	Yes ☐	No ☐	N/A ☑
.1939 (a)(4)	Soil Depth to Rock or Parent Material Recorded When Encountered	Yes ☐	No ☐	N/A ☑
.1939 (a)(5)	Depth to Restrictive Horizons Recorded When Encountered?	Yes ☐	No ☐	N/A ☑
.1939 (a)(6)	Sufficient Available Space Recorded?	Yes ☑	No ☐	N/A ☐
.1937(m)	Are the Profile Locations Shown?			
.1939(a)	Are the S/PS Profiles in system & in repair area?	Yes ☑	No ☐	N/A ☐
& .1945(b)	Number of auger borings made: 5			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR .3 orig .225 repair	Yes ☑	No ☐	N/A ☐
	Improvement Permit/Construction Authorization			
.1937(g) 130A-336(a)	Proposed System Type stated-Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Proposed System Type stated-Repair	Yes ☑	No ☐	N/A ☐
130A-336 (a)(3)	System location identifiable by setbacks - Initial	Yes ☑	No ☐	N/A ☐
.1937(g) .1945(b)	System components shown – Initial	Yes ☑	No ☐	N/A ☐
.1945(b)	Repair area shown	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Does System design match facility, flow & WWcharacteristics?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is System design consistent with soil/site conditions?	Yes ☑	No ☐	N/A ☐
.1937 (f)(g)	Is the System located in the approved area?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Is the Design flow (gpd) indicated?	Yes ☑	No ☐	N/A ☐

130A-336(a)	Number of Bedrooms, employees, seats, etc. indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench depth indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench width indicated?	Yes ☑	No ☐	N/A ☐
.1937(g)	Trench length indicated?	Yes ☑	No ☐	N/A ☐
130A-336(a)(1)	Proposed/existing well shown?	Yes ☐	No ☐	N/A ☑
130A-336(a)(1)	Property line lengths shown?	Yes ☑	No ☐	N/A ☐
130A-336(a)	Facility/appurtenance setbacks shown from fixed points?	Yes ☑	No ☐	N/A ☐
	Operation Permit			
.1937(i)	System type as described in table V(a) of rule .1961	Yes ☐	No ☐	N/A ☐
.1937(i)	Conditions for system performance, operation, maintenance, monitoring and reporting.	Yes ☐	No ☐	N/A ☐

II. WASPS Review:

Construction authorization issued	Yes ☐	No ☐	N/A ☐
Installation approval issued	Yes ☐	No ☐	N/A ☐
Operation permit issued	Yes ☐	No ☐	N/A ☐
Other related documentation	Yes ☐	No ☐	N/A ☐

Items requiring correction/modification: _____

Comments:

_____

_____

_____

_____

_____

IA issued date: 1/12

OP issued date: 2/12

Review performed by: JR Date performed: 3-10-11

RC 0702
$100
CK # 2455
mlb
8229B
2nd
139-034-38
#2455

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: 139-032-37
STREET ADDRESS: 8133 BRIEF RD
CITY: MINT HILL
STATE: NC **ZIP:** 28227
SUBDIVISION NAME: STONEBRIDGE
LOT #: **LOT SIZE (acres):**
TOWNSHIP:
☐ 0-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: N 4700
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 5
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: _____ 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: ____ ____ ____ ____ ____

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? _____ ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? _____ ☑ N/A

12. PROPERTY OWNER:
NAME: Jeff Cowan
ADDRESS: 8133 Brief Road
CITY: Mint Hill
STATE: NC ZIP: 28227
HOME PHONE:
WORK PHONE: 405-842-8558
MOBILE PHONE: 405-501-4403
FAX:

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Leslie J Ryan
ADDRESS: 8215 Carter Creek Dr. #208
CITY: Charlotte
STATE: NC ZIP: 28227
HOME PHONE: (704) 321-1147
WORK PHONE:
MOBILE PHONE: (704) 904-9434
FAX:

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

Revised on: 7/1/08

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.

_____ (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.

Leslie J Ryan

_____ _____

Property Owner's or Owner's Legal Representative Signature Date

---

OFFICE USE ONLY

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

SEPTIC APPLICATION FEES RECEIVED: $ 400.00 CK DATE FEE RECEIVED: 3/14/11

WELL APPLICATION FEES RECEIVED: $ _____ 348.0 DATE FEE RECEIVED: _____

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

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

Revised on: 7/1/08

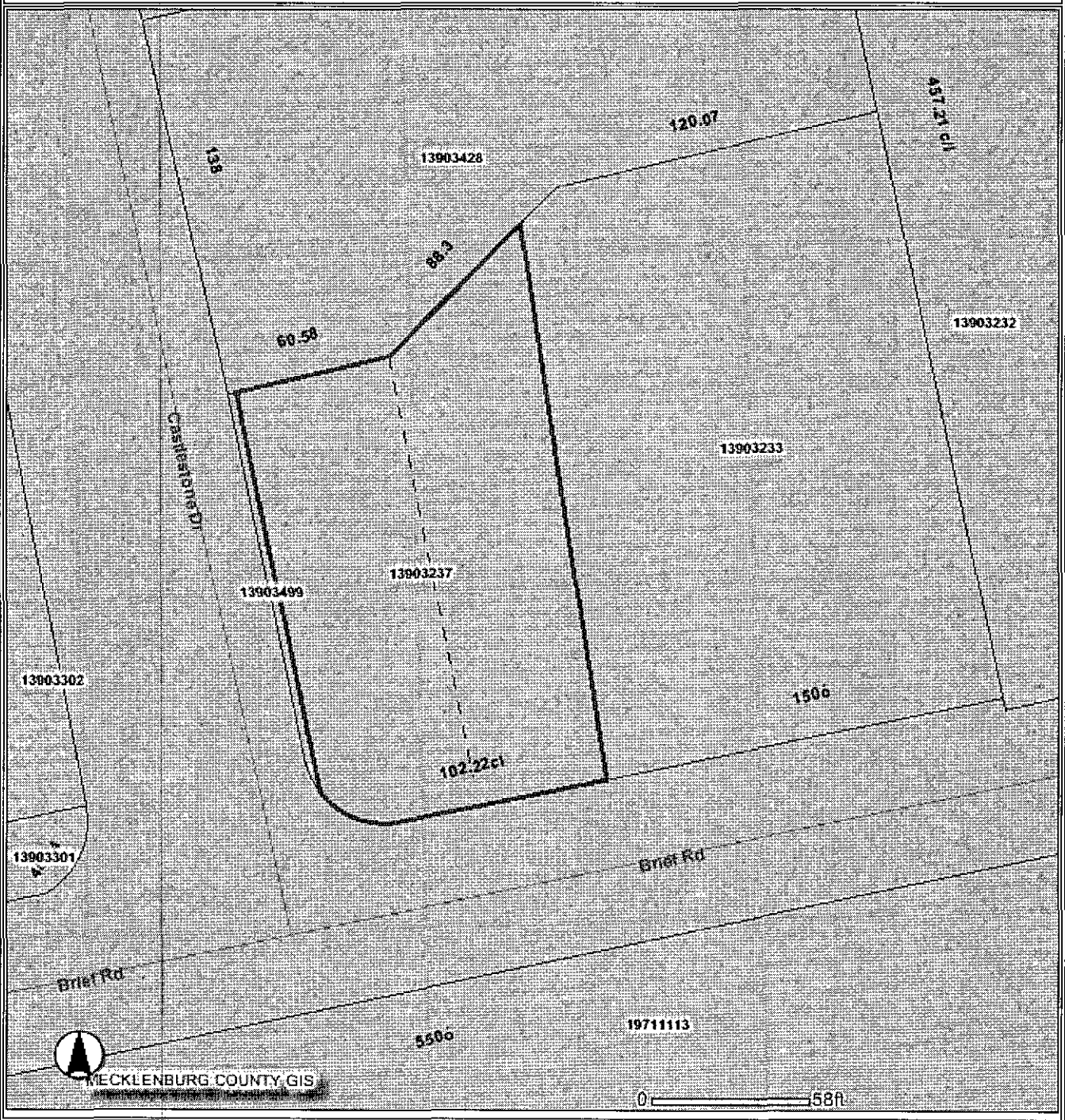
2nd site evaluation 8229

Mecklenburg County, North Carolina

POLARIS

Property Ownership Land Records Information System

Date Printed: Wed Nov 3 12:54:56 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.

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

Sheet: 1 of 2
Property ID: 13903428
Lot #: 109
File #: 8229B
AppID: 4808

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Parcarso and Leslie Ryan
Applicant: Same
Address: 8215 Carter Creek Dr. Charlotte, NC 28227
Date Evaluated: 11/2/2010
Proposed Facility: Residence
Design Flow (.1949): 480 GPD
Property Size: .7 ac
Location of Site: 8124 Castlestone Dr. Mint Hill, NC 28227
Property Recorded: Feb-07
Water Supply: [X] Public [ ] Individual [] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN)	SOIL MORPHOLOGY 1941 1941 Structure/ Texture	1941 Consistence Mineralogy	PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN)	1956 Sapro Class	1944 Restr Horiz	Profile Class
1	LS 3-4%	0-3	GR/SCL	SS/SP/FRI/SEXP		51			"PS" Group IV 0.225 GPD/FT^2
		3-15	SBK/SCL	SS/SP/FI/SEXP					
		15-51	ABK/C	S,P,FI,SEXP					
2	LS 3-4%	0-3	GR/SCL	SS/SP/FRI/SEXP		25			U Group IV 0.225 GPD/FT^2 To 25"
		3-25	ABK/C	S/P/FI/SEXP					
		25-34	ABK-PL/C	S/P/FI/SEXP					
		34-51	ABK/C	S/P/FI/SEXP					
3	LS 3-4%	0-11	GR/SCL	SS/SP/FRI/SEXP		29			U Group IV 0.225 GPD/FT^2
		11-29	ABK/C	S/P/FI/SEXP					
		29-57	M/CL	SS/SP/FRI/SEXP					

Description	Initial System	Repair System
Available Space (.1945)	PS easement	PS
System Type(s)	IIIbg	IIIbg/Shallow Placed
Site LTAR	0.3	0.225

Other Factors (.1946):
Soil Evaluation By: Bill Marlin, Jeremy Michael
Others Present: Larry Thompson
Site Classification (.1948): PS
Site Evaluation By: Jeremy Michael Jeremy Michael
Others Present: Larry Thompson

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH
ON-SITE WASTEWATER SECTION

Sheet ___ *of* ___
PROPERTY ID #: ___
COUNTY: Meck

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Leslie Ryan — APPLICATION DATE: 10/19/2010
ADDRESS: 8215 Carter Creek Dr. Charlotte, NC 28227 — DATE EVALUATED: 12/22/2010
PROPOSED FACILITY: 4 bedroom — PROPOSED DESIGN FLOW (.1949): 480gpd — PROPERTY SIZE: .702
LOCATION OF SITE: Lot 109 Castlestone-Mint Hill — PROPERTY RECORDED: 2/2007
WATER SUPPLY: ☐ Private √ Public ☐ Well ☐ Spring ☐ Other ___
EVALUATION METHOD: √ Auger Boring ☐ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	LS 12%	0 - 2	WFGr SL	Fr SS NP	PS	PS	N/A	N/A	PS 0.3
		6 – 10	WFSBK SCL	Fr SS SP					
		10 – 32	MMSBK C	Fi SS SP					
		32 – 42	MFABK CL	Fi S SP					
2	LS 12%	0 – 4	WFSBK SCL	Fr SS NP	PS	PS	N/A	N/A	PS 0.3
		4 – 36	MMABK C	Fi S SP					
		36 – 44	WFSBK C	Fr SS SP					
3									
4									

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	5 X 80' PS	532' PS
System Type(s)	Innov	Innov At-Grade
Site LTAR	0.3	0.225

OTHER FACTORS (.1946): ___
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: OVERBY
OTHER(S) PRESENT: J. Michael Jeremy Michael

COMMENTS: ___

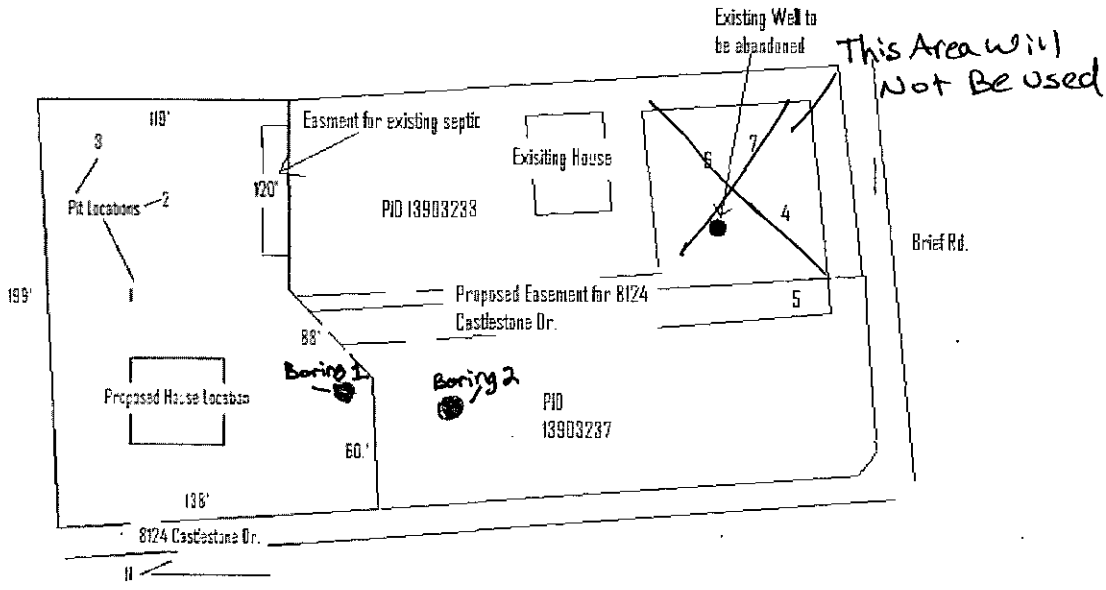
Sheet: 2of2

COMMENTS: Septic System will be in area where auger borings 6-7 are located. FILE #: 8229B

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		M-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		CL-Clay Loam		
FP-Flood Plain		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



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

Sheet: 1 of 2
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Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY 1941		b PROFILE FACTORS				Profile Class
			1941 Structure/ Texture	1941 Consistence Mineralogy	1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	
1	LS 3-4%	0-3	GR/SCL	SS/SP/FRI/SEXP		51			"PS" Group IV 0.225 GPD/FT^2
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Description	Initial System	Repair System
Available Space (.1945)	PS easement	PS
System Type(s)	IIIbg	IIIbg/Shallow Placed
Site LTAR	0.3	0.225

Other Factors (.1946):
Soil Evaluation By: Bill Marlin, Jeremy Michael
Others Present: Larry Thompson
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Department of Environment, Health, and Natural Resources
Division of Environmental Health
On-site Wastewater Section

Sheet:
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SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

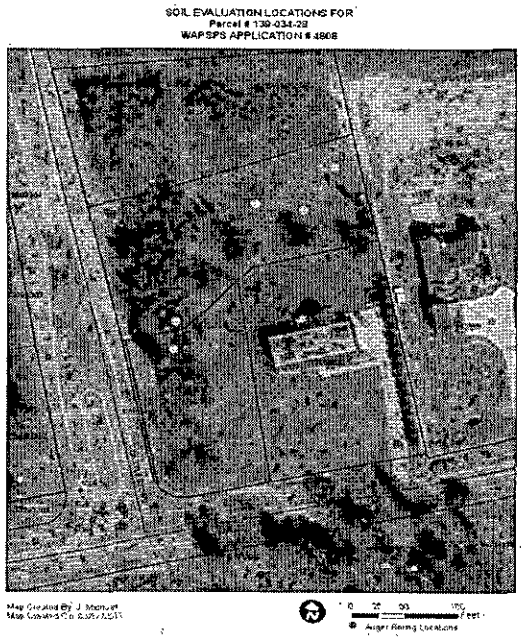
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			1941 Structure/ Texture	1941 Consistence Mineralogy	1942 Soil Wetness/ Color	1943 Soil Depth (IN.)	1956 Sapro Class	1944 Restr Horiz	
1	LS 12%	0-2	WFGr/SL	Fr/SS/NP	PS	PS	N/A	N/A	PS IV 0.3
		6-10	WFSBK C	Fr/SS/SP					
		10-32	MMSBK C	Fi/SS/SP					
		32-42	MF ABK CL	FI/S/SP					
2	LS 12%	0-4	WFSBK SCL	Fr SS NP	PS	PS	N/A	N/A	PS IV 0.3
		4-36	MMABK C	Fi S SP					
		36-44	WFSBK C	FR SS SP					

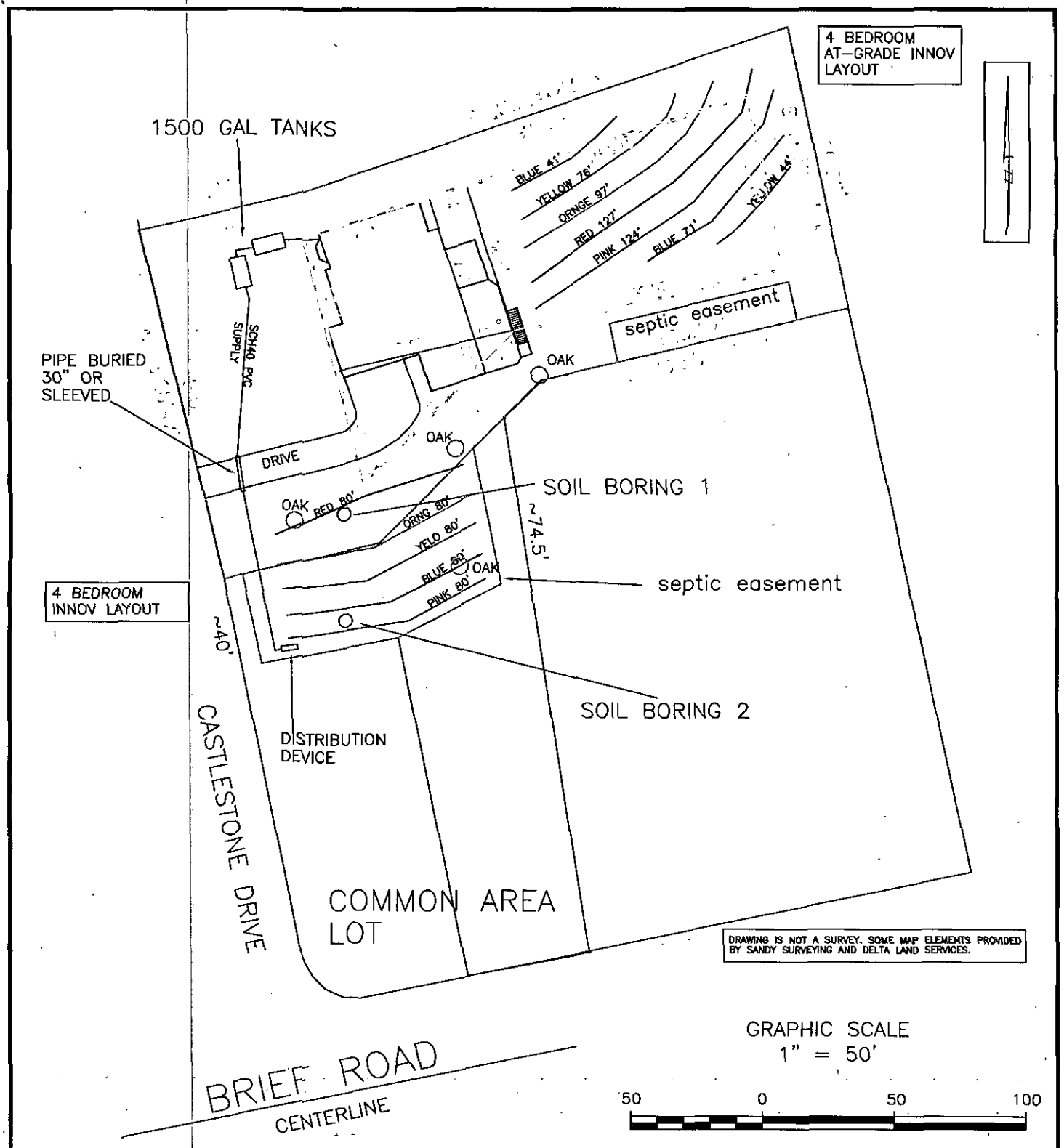
COMMENTS: **See extra profiles for easement soil report.**

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		M-Massive
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EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations





REV	SHEET TITLE	PROJECT NAME		
12/22/10	4 BEDROOM SEPTIC SYSTEM LAYOUT SKETCH MAP	LESLIE RYAN LOT 109 CASTLESTONE MECKLENBURG COUNTY, NORTH CAROLINA JANUARY 2011	S&EC	Soil & Environmental Consultants, PA 11010 Raven Ridge Road • Raleigh, North Carolina 27614 • Phone (704)720-9405 • Cell (704) 239-2001

SCALE: 1" = 50'
W.O.
FIELD WORK
W.O.
DRAWN BY
W.O.
PROJECT MGR.
5-104052

Lot 109 Castlestone Subdivision
Septic System Layout for 4 Bedroom Home

S&EC #5-1646s3 December '10

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINES	DESIGN LENGTH
TBM		3.8			100.00		
INSTR. 1			103.80				
			SYSTEM				
1	Pink			2.70	101.10	80	
2	Blue			3.80	100.00	80	
3	Yellow			4.90	98.90	80	
4	Orange			6.00	97.80	80	
5	Red			7.30	96.50	80	
			REPAIR				
		2.2	102.2				
1	Yellow			5.90	96.30	44	44
2	Blue			6.60	95.60	71	68
3	Pink			7.10	95.10	124	124
4	Red			7.90	94.30	127	124
5	Orange			8.60	93.60	97	96
6	Yellow			9.60	92.60	76	76
7	Blue			10.70	91.50	41	0

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	INNOV TYPE	DISTRIBUTION	TRENCH DEPTH
SYSTEM	400	0.3	Innov	Chamber	P. Manifold or Dbox	24
REPAIR	532	0.225	At-grade Innov	Chamber	P. Manifold or washer box	12

Notes:
- **TBM is assumed to be 100'; one of property line stakes
- **Nitrification lines are demonstrated on contour via colored pin flags
- **BS, HI, and FS indicate rod readings

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 #: **30004808** GWS File #: **8229B** Tax Parcel #: **139-034-28**

- 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):** 3/9/2016

Type of Installation: Residential - New System Lot Number: 109

Structure Type: HOUSE Size (ft^2): 4600 # Bedrooms: 4 # Occupants: 5

Building Foundation: Basement With Plumbing Water Supply: Municipal

II. Initial System Type: ~~Conventional~~ Pump To Approved **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1200	Total Trench Length (ft):	400
Maximum Trench Depth (in):	24	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: Pump to Shallow Placed Conventional **System Classification:** IIIb

Repair System Specifications:

Design Flow (gpd):	480	LTAR (gpd/ft^2):	0.225	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1000
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1600	Total Trench Length (ft):	533
Maximum Trench Depth (in):	12	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

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 Owner/Legal Agent: Leslie Ryan
Print Name

Signature: Jeremy Michael Signature: Leslie J Ryan

Date Issued: 3/9/2011

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700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

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

Permit #: **30004808** GWS File #: **8229B**

IV. Permit Conditions/Comments:

- Easement agreement forms shall be on file and the property shall be deeded and recorded prior to issuance of Construction Authorization.
- This type of septic system requires an inspection once every 5 years by our office. The system owner is responsible for any fees, as determined by the Mecklenburg County Board of Commissioners, associated with this inspection.
- This Improvement Permit is being issued based on a supplemental soil investigation performed by staff from our office.
- 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.
- The supply pipe shall be installed with a minimum of 30" of compacted cover over the pipe or properly sleeved under areas that are subject to vehicular traffic.
- Flow from all gutters and downspouts shall be directed not to discharge water onto or across any part of the septic system.
- Foundation drains shall be constructed not to discharge water onto or across any part of the septic system.
- No soil shall be cut from the original grade of the repair or initial septic system.

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DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael

Date Issued: 3/9/2011

Owner/Legal Agent: Leslie Ryan
-Print Name-

Signature: Leslie J. Ryan

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700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-6894

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Repair System Specifications:

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

Signature: Jeremy Michael Signature: _____

Date Issued: 3/9/2011

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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: 3/9/2011

Owner/Legal Agent: _____
Print Name

Signature: _____

FOR REGISTRATION J. DAVID GRANBERRY
REGISTER OF DEEDS
MECKLENBURG COUNTY, NC
2011 MAR 04 12:38:50 PM
BK:26334 PG:741-747 FEE:$34.00

INSTRUMENT # 2011027067



2011027067

SEPTIC SYSTEM EASEMENT AGREEMENT

Drawn by and mail to:
Tony C. Johnson, Esq.
PO Box 23297
Mint Hill, NC 28227

THIS EASEMENT made this **28th** day of **February, 2011** by and between

GRANTOR: **Jeff D. Cowan and wife, Beverly A. Cowan**
whose address is: 16700 Kingsley Road, Edmond, OK 73012
(herein referred to collectively as **Grantor**) and

GRANTEE: **Pacarso M. Ryan and wife, Leslie J. Ryan**
whose address is: 8124 Castlestone Drive, Mint Hill, NC 28227
(herein referred to collectively as **Grantee**)

The designation Grantor and Grantee as used herein shall include said parties, their heirs, successors, and assigns, and shall include singular, plural, masculine, feminine or neuter as required by context.

W I T N E S S E T H:

That the Grantor, for a valuable consideration paid by the Grantee, the receipt of which is hereby acknowledged, has bargained and sold, and by these presents does grant, bargain, sell and convey unto the Grantee an easement as hereinafter described, to run with the land upon that certain lot or parcel of land owned by Grantor and situated in the City of **Mint Hill,** County of **Mecklenburg,** State of North Carolina, and being more particularly described as follows:

SEE EXHIBIT "A" ATTACHED HERETO AND INCORPORATED HEREIN BY REFERENCE

SEE THE PLAT ATTACHED HERETO AS "EASEMENT EXHIBIT" AND THE PARCEL SHOWN THEREON IDENTIFIED WITH THE GRANTOR'S NAME FOR THE LEGAL DESCRIPTION OF GRANTOR'S PARCEL AND OF THE SEPTIC SYSTEM EASEMENT AREA LOCATED THEREON, SAID PARCEL LABELED THEREON AND HEREINAFTER REFERRED TO AS THE "EASEMENT PARCEL."

Grantor hereby imposes said easement for the benefit of Grantee as the present owner and for the benefit of future owners of the following lot or parcel of land, situated in the City of **Mint Hill**, County of **Mecklenburg**, State of North Carolina, and being more particularly described as follows:

BEING ALL OF LOT 109 OF STONEBRIDGE, PHASE 2, MAP 1, AS SAME IS SHOWN ON A MAP THEREOF RECORDED IN MAP BOOK 45, AT PAGE 984, IN THE MECKLENBURG COUNTY PUBLIC REGISTRY, AND REVISED IN MAP BOOK 46, AT PAGE 453, IN THE MECKLENBURG COUNTY PUBLIC REGISTRY.

SEE THE PLAT ATTACHED HERETO AS "EASEMENT EXHIBIT" AND THE PARCEL SHOWN THEREON IDENTIFIED WITH GRANTEE'S NAME FOR THE LEGAL DESCRIPTION OF GRANTEE'S PARCEL, SAID PARCEL LABELED THEREON AND HEREINAFTER REFERRED TO AS THE "BENEFITED PARCEL."

Said easement shall enable the Grantee to place, if, as and when needed, such need to be determined by the Grantee in his sole discretion, an underground septic tank and drain field or portions thereof, upon the Septic System Easement Area "A" and "B" on the Easement Parcel and to inspect, maintain, repair and replace components of said septic system at any time and from time to time. Grantee shall install and maintain all equipment on the Septic System Easement Area "A" and "B" according to the latest standards and specifications as adopted by the Mecklenburg County Health Department. Grantee agrees that immediately upon completion of any work on said Septic System Easement Area "A" and "B" or Grantee's entry on said Septic System Easement Area "A" and "B" or Easement Parcel, Grantee will repair and restore said premises to its condition which existed prior to the commencement of such work or entry. Maintenance or repair access to the Septic System Easement Area "A" and "B" shall be from Lot 109, and Grantee shall be responsible for any damages resulting to the Easement Parcel. *This Easement may not be altered, amended or cancelled without the express written permission of the Mecklenburg County Health Department and Grantor, which written permission must be part of any document recorded to alter, amend or cancel this easement.* This easement shall automatically expire, however, should Grantee ever hook up the structure located or to be located on the Benefited Parcel to a public of community sanitary sewage system but shall otherwise be perpetual.

Grantor acknowledges and that the Septic Tank System Easement Area "A" and "B" cannot be used and will not be used for any of the following activities or in any of the following ways:

- Grading or filling
- Parking or driving heavy equipment in the Area or in any other way compacting the soil in the Area
- Excavating soil from the Area
- Placing footings or foundations or engaging in any other construction activity in the Area
- Placing in-ground or above-ground swimming pools in the Area
- Placing irrigation systems in the Area
- Placing underground utility lines or cables in the Area
- Planting trees or gardens in the Area
- Removing any large trees in the Area unless dead or diseased

- Using the Area for the burial of stumps, trash, or any other type of construction material
- Using the Area for gravesites
- Diverting the natural flow of water onto the Area by way of drainage ditches or diversion ditches or using the Area to receive water from any gutter or downspout discharges

IN WITNESS WHEREOF, *the Grantor and Grantee have duly executed the foregoing as of the* day and year first above written.

3/2/11 (SEAL)
Jeff D. Cowan

(SEAL)
Beverly A. Cowan

(SEAL)
Pacarso M. Ryan

(SEAL)
Leslie J. Ryan

STATE OF NORTH CAROLINA
COUNTY OF MECKLENBURG

I, **Tony C. Johnson**, a Notary Public of the County of Mecklenburg and State aforesaid, certify that **Pacarso M. Ryan and Leslie J. Ryan** *personally* appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

WITNESS my hand and Notarial stamp or seal, this **28th** day of **February, 2011.**

Notary Public: _____
Print or type name: **Tony C. Johnson**

(Affix Seal)

TONY C. JOHNSON NOTARY PUBLIC MECKLENBURG COUNTY, N. C.

My Commission Expires: **February 25, 2013**

STATE OF OKLAHOMA
COUNTY OF Oklahoma

I, Kristi L. Dunkle, a Notary Public of the County of Oklahoma and State aforesaid, certify that **Jeff D. Cowan and Beverly A. Cowan** personally appeared before me this day and acknowledged the due execution of the foregoing instrument for the purposes therein expressed.

WITNESS my hand and Notarial stamp or seal, this 3rd day of **March, 2011.**

Notary Public: Kristi L Dunkle
Print or type name: Kristi L. Dunkle

My Commission Expires:

(Affix Seal)

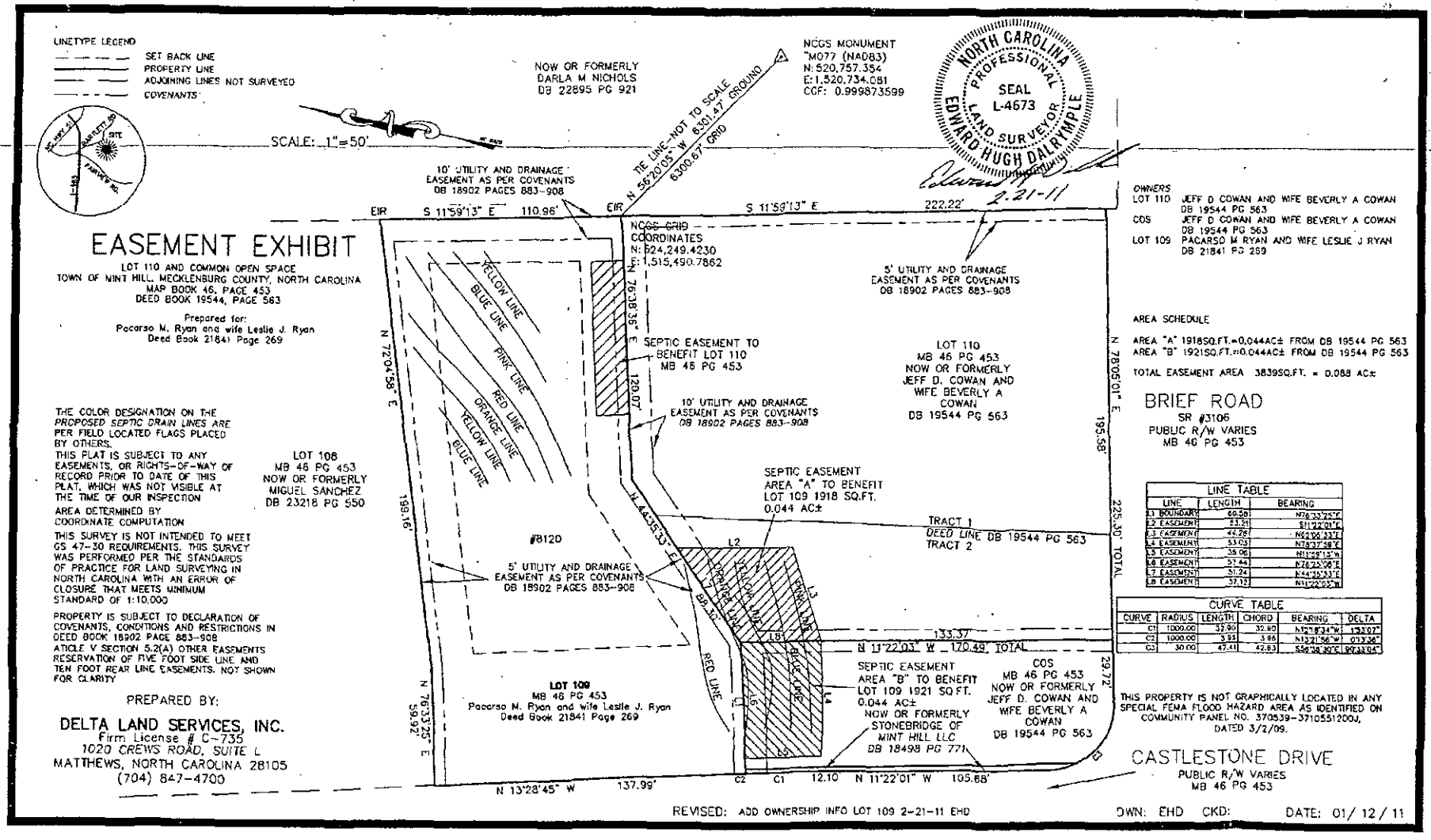
KRISTI L. DUNKLE
Notary Public, State of Oklahoma
Commission # 10000185
My Commission Expires January 11, 2014

EXHIBIT "A"

BEGINNING at an iron bar found in the northerly right-of-way margin of Brief Road (S.R. No. 3106) and in the southwesterly corner of the William D. Nichols and Darla M. Nichols (now or formerly) property as described by Deed recorded in Book 12236, at Page 237, Mecklenburg County Public Registry, and running thence from said BEGINNING with the northerly right-of-way margin of Brief Road, S. 78-04-59 W. 252.23 feet to an iron bar found in the southwesterly corner of the property conveyed to Myron Lee Pigg, Jr. and wife, Annette G. Pigg by Deed recorded in Book 8092, at Page 638, Mecklenburg County Public Registry; thence with the westerly line of said property, N. 11-59-13 W. 173.92 feet to a point; thence with three (3) new lines as follows: (1) N. 76-33-25 E. 57.74 feet to a point; (2) N. 44-51-18 E. 88.96 feet to a point; and, (3) N. 76-38-36 E. 120.07 feet to a point in the westerly line of the Nichols property as hereinbefore described; thence with the Nichols property line, S. 11-59-13 E. 227.22 feet to the point and place of BEGINNING, the same containing 1.195 acres and designated as Lot 110 on survey by Gary R. Volmer, NCPLS, dated August 24, 2005, reference to said survey being hereby made for a more particular description.

BEING the southerly portions of the properties conveyed to Myron Lee Pigg, Jr. and Annette G. Pigg (f/k/a Karen Annette Griffin) by Deeds recorded in Book 5392, at Page 156, and Book 8092, at Page 638, Mecklenburg County Public Registry.

BEING a portion of the property conveyed to Jeff D. Cowan and wife, Beverly A. Cowan by deed recorded in Book 19544, at Page 563, Mecklenburg County Public Registry.


LINETYPE LEGEND
SET BACK LINE
PROPERTY LINE
ADJOINING LINES NOT SURVEYED
COVENANTS
SCALE: 1"=50'
NOW OR FORMERLY
DARLA M NICHOLS
DB 22895 PG 921
NCGS MONUMENT
"MO77 (NAD83)
N: 520,757.354
E: 1,520,734.081
CGF: 0.999873599
TIE LINE-NOT TO SCALE
N 56°20'05" W 6301.47' GROUND
6300.67' GRID
NORTH CAROLINA
PROFESSIONAL
SEAL
L-4673
LAND SURVEYOR
EDWARD HUGH DALRYMPLE
2.21-11
10' UTILITY AND DRAINAGE EASEMENT AS PER COVENANTS DB 18902 PAGES 883-908
EIR S 11°59'13" E 110.96'
EIR S 11°59'13" E 222.22'
NCGS GRID COORDINATES
N: 524,249.4230
E: 1,515,490.7862
5' UTILITY AND DRAINAGE EASEMENT AS PER COVENANTS DB 18902 PAGES 883-908
OWNERS
LOT 110 JEFF D COWAN AND WIFE BEVERLY A COWAN DB 19544 PG 563
COS JEFF D COWAN AND WIFE BEVERLY A COWAN DB 19544 PG 563
LOT 109 PACARSO M RYAN AND WIFE LESLIE J RYAN DB 21841 PG 269
AREA SCHEDULE
AREA "A" 1918SQ.FT.=0.044AC± FROM DB 19544 PG 563
AREA "B" 1921SQ.FT.=0.044AC± FROM DB 19544 PG 563
TOTAL EASEMENT AREA 3839SQ.FT. = 0.088 AC±
EASEMENT EXHIBIT
LOT 110 AND COMMON OPEN SPACE
TOWN OF MINT HILL, MECKLENBURG COUNTY, NORTH CAROLINA
MAP BOOK 46, PAGE 453
DEED BOOK 19544, PAGE 563
Prepared for:
Pacarso M. Ryan and wife Leslie J. Ryan
Deed Book 21841 Page 269
YELLOW LINE
BLUE LINE
PINK LINE
RED LINE
ORANGE LINE
YELLOW LINE
BLUE LINE
N 76°38'35" E 120.07'
SEPTIC EASEMENT TO BENEFIT LOT 110 MB 46 PG 453
LOT 110
MB 46 PG 453
NOW OR FORMERLY
JEFF D. COWAN AND WIFE BEVERLY A COWAN
DB 19544 PG 563
10' UTILITY AND DRAINAGE EASEMENT AS PER COVENANTS DB 18902 PAGES 883-908
N 7°20'58" E 198.16'
N 7°05'01" E 195.58'
SEPTIC EASEMENT AREA "A" TO BENEFIT LOT 109 1918 SQ.FT. 0.044 AC±
TRACT 1
DEED LINE DB 19544 PG 563
TRACT 2
225.30' TOTAL
THE COLOR DESIGNATION ON THE PROPOSED SEPTIC DRAIN LINES ARE PER FIELD LOCATED FLAGS PLACED BY OTHERS.
THIS PLAT IS SUBJECT TO ANY EASEMENTS, OR RIGHTS-OF-WAY OF RECORD PRIOR TO DATE OF THIS PLAT, WHICH WAS NOT VISIBLE AT THE TIME OF OUR INSPECTION
AREA DETERMINED BY COORDINATE COMPUTATION
THIS SURVEY IS NOT INTENDED TO MEET GS 47-30 REQUIREMENTS. THIS SURVEY WAS PERFORMED PER THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA WITH AN ERROR OF CLOSURE THAT MEETS MINIMUM STANDARD OF 1:10,000
PROPERTY IS SUBJECT TO DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS IN DEED BOOK 18902 PAGE 883-908
ARTICLE V SECTION 5.2(A) OTHER EASEMENTS RESERVATION OF FIVE FOOT SIDE LINE AND TEN FOOT REAR LINE EASEMENTS. NOT SHOWN FOR CLARITY
LOT 108
MB 46 PG 453
NOW OR FORMERLY
MIGUEL SANCHEZ
DB 23218 PG 550
#8120
5' UTILITY AND DRAINAGE EASEMENT AS PER COVENANTS DB 18902 PAGES 883-908
N 44°55'33" E
L2
L3
L1
L4
L5
L6
L7
L8
L9
BRIEF ROAD
SR #3106
PUBUC R/W VARIES
MB 46 PG 453
LINE TABLE
L1 BOUNDARY 69.58 N76°33'25"E
L2 EASEMENT 53.21 S11°22'01"E
L3 EASEMENT 44.28 N62°06'33"E
L4 EASEMENT 53.03 N78°37'58"E
L5 EASEMENT 35.06 N11°58'13"W
L6 EASEMENT 51.44 N76°33'08"E
L7 EASEMENT 51.24 N44°55'33"E
L8 EASEMENT 57.12 N11°22'01"W
CURVE TABLE
C1 1000.00 32.90 32.90 N12°18'34"W 1°53'07"
C2 1000.00 3.93 3.93 N13°21'56"W 0°13'36"
C3 30.00 47.41 42.63 S56°38'39"E 90°33'04"
133.37'
N 13°22'01" W 170.49' TOTAL
29.72'
SEPTIC EASEMENT AREA "B" TO BENEFIT LOT 109 1921 SQ.FT. 0.044 AC± NOW OR FORMERLY STONEBRIDGE OF MINT HILL LLC DB 18498 PG 771
COS
MB 46 PG 453
NOW OR FORMERLY
JEFF D. COWAN AND WIFE BEVERLY A COWAN
DB 19544 PG 563
LOT 109
MB 46 PG 453
Pacarso M. Ryan and wife Leslie J. Ryan
Deed Book 21841 Page 269
N 76°33'25" E 59.92'
N 13°28'45" W 137.99'
C2 C1 12.10 N 11°22'01" W 105.68'
THIS PROPERTY IS NOT GRAPHICALLY LOCATED IN ANY SPECIAL FEMA FLOOD HAZARD AREA AS IDENTIFIED ON COMMUNITY PANEL NO. 370539-3710551200J, DATED 3/2/09.
CASTLESTONE DRIVE
PUBLIC R/W VARIES
MB 46 PG 453
PREPARED BY:
DELTA LAND SERVICES, INC.
Firm License # C-735
1020 CREWS ROAD, SUITE L
MATTHEWS, NORTH CAROLINA 28105
(704) 847-4700
REVISED: ADD OWNERSHIP INFO LOT 109 2-21-11 EHD
DWN: EHD CKD:
DATE: 01/12/11



J. DAVID GRANBERRY
REGISTER OF DEEDS, MECKLENBURG
COUNTY & COURTS OFFICE BUILDING
720 EAST FOURTH STREET
CHARLOTTE, NC 28202

PLEASE RETAIN YELLOW TRAILER PAGE

It is part of the recorded document, and must be submitted with original for re-recording and/or cancellation.

****

Filed For Registration:	03/04/2011 12:38:50 PM
Book:	RE 26334 Page: 741-747
Document No.:	2011027067
	ESMT 7 PGS $34.00
Recorder:	KRISTIN PRUITT



2011027067

8229B JAM 4808

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: 13903428
STREET ADDRESS: 8124 Castlestone Drive
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Stonebridge
LOT #: 109 LOT SIZE (acres): 0.702
TOWNSHIP:

☐ 0-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: 4600 s/ft
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: 5
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: _____ 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:** ____ ____ ____ ____ ____

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?** 2/2007 ☐ UNKNOWN

11. **WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?** _____ ☑ N/A

12. **PROPERTY OWNER:**

NAME: Pacarso & Leslie Ryan
ADDRESS: 825 Carter Creek Dr. # 208
CITY: Charlotte,
STATE: NC ZIP: 28227
HOME PHONE: (704) 321-1147
WORK PHONE:
MOBILE PHONE: (704) 236-5659
FAX:

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

NAME:
ADDRESS:
CITY:
STATE: ZIP:
HOME PHONE:
WORK PHONE:
MOBILE PHONE:
FAX:

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

Revised on: 7/1/08

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.

PMR (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.

Property Owner's or Owner's Legal Representative Signature

10/19/2010
Date

OFFICE USE ONLY

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

SEPTIC APPLICATION FEES RECEIVED: $ 250.00 chk 2452 DATE FEE RECEIVED: 10/20/10

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

APPLICATION PROCESSED BY: JC

GWS FILE NUMBER ASSIGNED: 8229B

APPLICATION ID NUMBER ASSIGNED: 4808

COMMENTS:

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

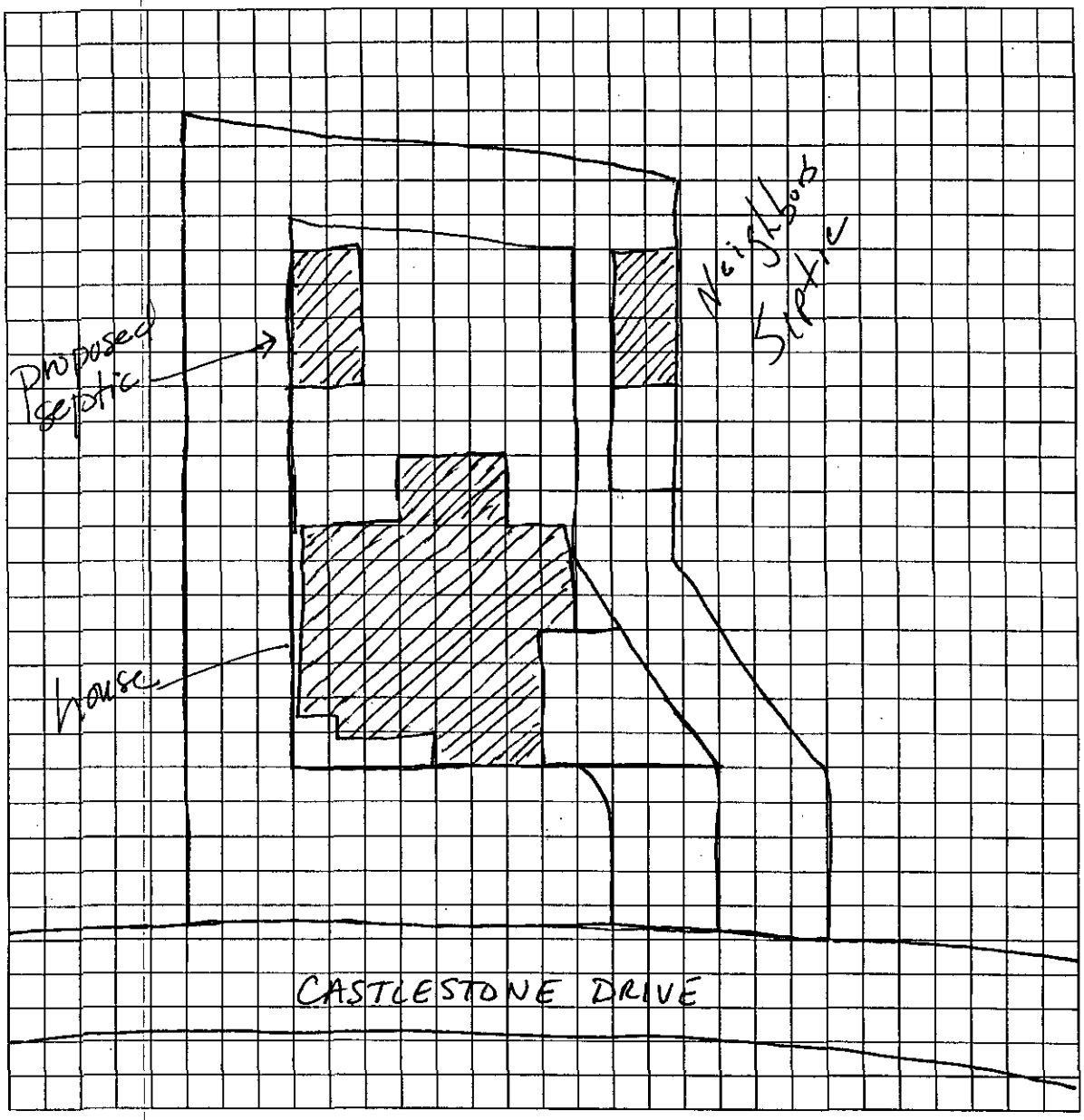
Revised on: 7/1/08

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 # 8229B
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	Pacan M. Ryan
Date	10/19/2010

LBC 12/15/04

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

Sheet: 1 of 2
Property ID: 13903428
Lot #: 109
File #: 8229B
AppID: 4808

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Parcarso and Leslie Ryan
Applicant: Same
Address: 8215 Carter Creek Dr. Charlotte, NC 28227
Date Evaluated: 11/2/2010
Proposed Facility: Residence
Design Flow (.1949): 600
Property Size: .7 ac
Location of Site: 8124 Castlestone Dr. Mint Hill, NC 28227
Property Recorded: Feb-07
Water Supply: [X] Public [ ] Individual [] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [X] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.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	Profile Class
1	LS 3-4%	0-3	GR/SCL	SS/SP/FRI/SEXP		51			"PS" Group IV 0.225 GPD/FT^2
		3-15	SBK/SCL	SS/SP/FI/SEXP					
		15-51	ABK/C	S,P,FI,SEXP					
2	LS 3-4%	0-3	GR/SCL	SS/SP/FRI/SEXP					U Group IV 0.225 GPD/FT^2 To 25"
		3-25	ABK/C	S/P/FI/SEXP					
		25-34	ABK-PL/C	S/P/FI/SEXP					
		34-51	ABK/C	S/P/FI/SEXP					
3	LS 3-4%	0-11	GR/SCL	SS/SP/FRI/SEXP			29"		U Group IV 0.225 GPD/FT^2
		11-29	ABK/C	S/P/FI/SEXP					
		29-57	M/CL	SS/SP/FRI/SEXP					

Description	Initial System	Repair System
Available Space (.1945)	U	U
System Type(s)		
Site LTAR	0.225	0.225

Other Factors (.1946):
Soil Evaluation By: Bill Marlin, Jeremy Michael
Others Present: Larry Thompson
Site Classification (.1948): Unsuitable
Site Evaluation By: Jeremy Michael
Others Present: Larry Thompson

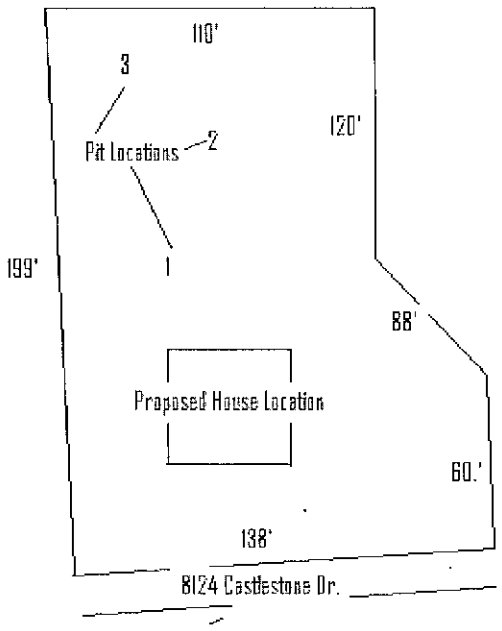
Jeremy Michael

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		M-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				
FP-Flood Plain		CL-Clay Loam		
		SCL-Sandy Clay Loam		
	IV	SC-Sandy Clay	0.4 - 0.1	
		SIC-Silty Clay		
		C-Clay		

Consistence Moist	Consistence Wet	Mineralogy
VFR-Very Friable	NS-Non-Sticky	SEXP-Slightly Expansive
FR-Friable	SS-Slightly Sticky	EXP-Expansive
FI-Firm	S-Sticky	
VFI-Very Firm	VS-Very Sticky	
EFI-Extremely Firm	NP-Non-Plastic	
	SP-Slightly Plastic	
	P-Plastic	
	VP-Very Plastic	

Sketch of Soil Evaluation Locations



MECKLENBURG COUNTY
Health Department

November 2, 2010

Mr. and Mrs. Ryan
8215 Carter Creek Dr.
Charlotte, NC 28227

Re: Application for improvement permit for:
Property Site: 8124 Castlestone Dr.
Health Department file number: **8229B**

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on November 2, 2010 evaluated the above-referenced property at the site designated on the site plan that accompanied your improvement permit application. According to your application the site is to serve a 5 bedroom residence, with a daily design flow of 600 gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .l900 and related rules.

Based on the criteria set out in Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rules .1940 through .1948, the evaluation indicated that the site is **UNSUITABLE** for a ground absorption sewage system. Therefore, your request for an improvement permit is ***DENIED.*** A copy of the site evaluation is enclosed. The site is unsuitable based on the following:

- ☐ Unsuitable soil topography and/or landscape position (Rule .1940)
- ☐ Unsuitable soil characteristics (structure or clay mineralogy) (Rule .1941)
- ☐ Unsuitable soil wetness condition (Rule .1942)
- ☐ Unsuitable soil depth (Rule .1943)
- ☐ Presence of restrictive horizon (Rule .1944)
- ☒ Insufficient space for septic system and repair area (Rule .1945)
- ☐ Unsuitable for meeting required setbacks (Rule .1950)
- ☐ Other (Rule .1946)

These severe soil or site limitations could cause premature system failure, leading to the discharge of untreated sewage on the ground surface, into surface waters, directly to ground water or inside your structure.

The site evaluation included consideration of possible site modifications, and modified, innovative or alternative systems. However, the Health Department has determined that none of the above options will overcome the severe conditions on this site. A possible option might be a system designed to dispose of sewage to another area of suitable soil or off-site to additional property.

For the reasons set out above, the property is currently classified **UNSUITABLE,** and an improvement permit shall not be issued for this site in accordance with Rule .1948 (c).

However, the site classified as **UNSUITABLE** may be classified as **PROVISIONALLY SUITABLE** if written documentation is provided that meets the requirements of Rule .1948(d). A copy of this rule is enclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which your site could be reclassified as **PROVISIONALLY SUITABLE.**

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an informal review by the N. C. Department of Environment and Natural Resources regional soil specialist. A request for informal review must be made in writing to the local health department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 6714 Mail Center, Raleigh, NC 27699-6714. To get a copy of a petition form, you may write the Office of Administrative Hearings or call the office at (919) 733-0926 or from the OAH web site at www.oah.state.nc.us/form.htm. The petition for a contested case hearing must be filed in accordance with the provision of North Carolina General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. N. C. General Statue 130A-335(g) provides that your hearing would be held in the county where your property is located.

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is November 2, 2010. Meeting the 30-day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you might request. Do not wait for the outcome of any informal review if you wish to file a formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, you are required by law (N.C. General Statute 150B-23) to send a copy of your petition to the North Carolina Department of Environment and Natural Resources. Send the copy to: Office of General Counsel, N. C. Department of Environment and Natural Resources, 1601 Mail Service Center, Raleigh, NC. 27699-1601. Do **NOT** send the copy of the petition to your local health department. Sending a copy of your petition to the local health department will **NOT** satisfy the legal requirement in N.C. General Statute 150B-23 that you send a copy to the Office of General Counsel, NCDENR.

You may call or write the local health department if you need any additional information or assistance.

Sincerely,

Jeremy Michael REHS.

Jeremy Michael
Authorized Agent - DENR

Encl: (2)

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

OPERATION PERMIT for an ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 8229B Permit #: _____ Tax Parcel #: 139-034-28

Property Owner: Pacarso & Leslie Ryan

Job Location Address: 8124 Castlestone Dr.

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: 02/08/2012 Contractor Name: Jerry Wetter

Permitted Design Flow: 480 GPD

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: 1000 gallons

Effluent Pump Model: Liberty 1/2 HP (280)

Drainfield Installation ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 400 feet

# of Lines: 5 @ 80 feet

Depth of Media: 12 inches (Type) Quick 4 Chambers

Depth of Cover: 12 inches

Distribution Device: Pressure Manifold

Bed Installation *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Depth of Cover: _____ inches

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

System Installation Setbacks

Distance from Building Foundation: 5 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

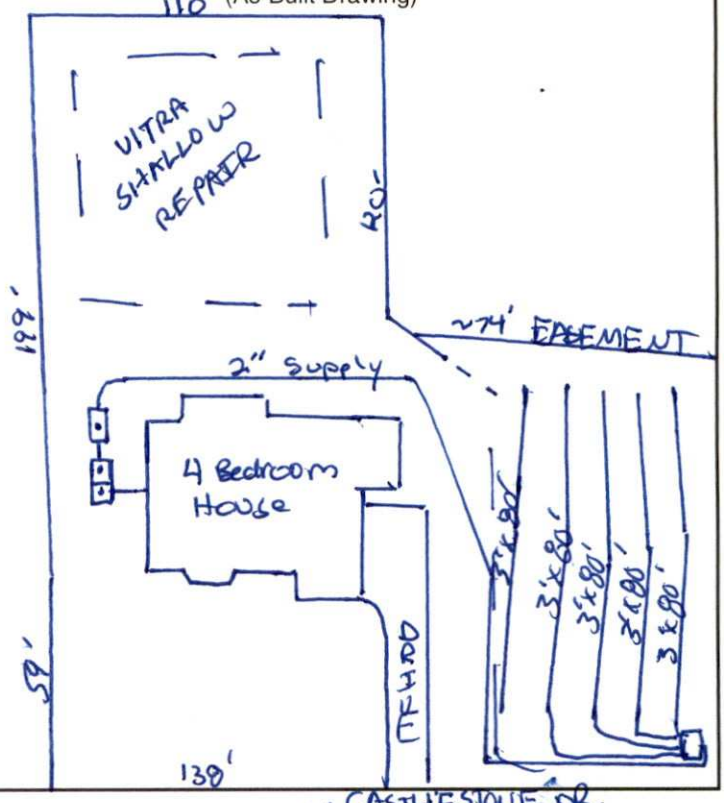
Inspection Dates

Tank(s) Inspected: 02/08/2012

Excavation Inspected: 02/08/2012

Pump & Controls Inspected: 02/08/2012

SKETCH OF SYSTEM INSTALLATION (As-Built Drawing)



The undersigned has inspected the Septic Tank System described above, and certifies it has been ☒ installed ☐ altered ☐ repaired ☒ as detailed in the plot above ☐ in accordance with the permit issued and meets the provisions of 15A NCAC 18A. 1900, "Laws and Rules for Sewage Treatment and Disposal Systems" in effect on the date of issuance of the permit. The issuance of this Operation Permit does not in any way guarantee that the system will operate properly or relieve any person now or hereafter owning, controlling, or using such system from any liability resulting from the failure of the system to operate properly. This document is issued subject to those restrictions and conditions shown on the permit(s) and the provisions of 15A NCAC 18A. 1900 in addition to those listed below under "Comments." This document shall be null and void if any information contained in the application is untrue or if any additions are made to the property which would increase the requirements for said system.

Notice: Disturbance of the designated repair area may result in the Suspension or Revocation of this permit.

Comments: System Classification & Type: III bg IQ4, P, NA, NA

DENR Authorized Agent: Jeremy Michael Signature: Jeremy Michael REHS.

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

OPERATION PERMIT for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 8229B Permit #: _____ Tax Parcel #: 139-034-28

Property Owner: Pacarso & Leslie Ryan

Job Location Address: 8124 Castlestone Dr.

City: Charlotte State: NC Zip Code: 28227

OPERATION PERMIT CONDITIONS:

I. Performance: System shall perform in accordance with 15A NCAC 18A .1961.

II. Monitoring: System shall be monitored as required by 15A NCAC 18A .1961.

III. Maintenance: Ground absorption sewage treatment and disposal systems shall be checked, and the contents of the septic tank removed, periodically from all compartments, to ensure proper operation of the system. The contents shall be pumped whenever the solids level is found to be more than 1/3 of the liquid depth in any compartment.

IV. Operation: System shall be operated in accordance with 15A NCAC 18A .1961.

System Classification: IIIbg

*Operation Permits for Type V and VI systems expire five (5) years from the date of issuance (in accordance with Table V(a)). The system owner must contact GWS six (6) months prior to expiration for permit renewal.

Subsurface system operator required: Yes ☐ No ☒

☐ This type of system requires the system owner to maintain a contract with a certified operator to perform system inspection, maintenance, and reporting as required in 15A NCAC 18A .1961. and Table V(a). The system owner is responsible for all fees associated with these services.

☐ System does not require inspection by GWS on a routine frequency.

☒ System requires inspection by GWS once every five (5) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every three (3) years. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every twelve (12) months. The system owner is responsible for all fees associated with the inspection.

☐ System requires inspection by GWS once every six (6) months. The system owner is responsible for all fees associated with the inspection.

V. Other:

_____

_____

_____

_____

DENR Authorized Agent: Jeremy Michael Date: 02/08/2012

Signature: Jeremy Michael

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

INSTALLATION APPROVAL for an
ON-SITE WASTEWATER TREATMENT & DISPOSAL SYSTEM

File #: 82298 Permit #: 30004808 Tax Parcel #: 139-034-28

Property Owner: Pacarso & Leslie Ryan

Job Location Address: 8124 Castlestone Dr.

City: Charlotte State: NC Zip Code: 28227

Installation Approval Issuance Date: 01-17-2012

Permission is hereby given to ☑ install ☐ alter ☐ repair an on-site wastewater treatment & and disposal system, with subsurface soil absorption and effluent discharge, as specified herein at the described location. This approval is granted based upon the application information submitted to our office. All work shall be completed on or before 2-17-12, after which date this approval shall be null and void. The system shall meet all of the construction requirements of 15A NCAC 18A. 1900 which are in effect on the date of granting this approval. An **Operation Permit** must be obtained from the Mecklenburg County Health Department before any system can be covered up or placed into service. The issuance of this permit does not in any way guarantee that the system anticipated to be constructed will operate properly, or relieve any person now of hereafter owning, controlling or using such system from any liability resulting from the failure of the system to operate properly.

***NOTICE: This system shall not be installed while soils are in a wet condition.**

Permitted Design Flow: 480 GPD

Site LTAR: 0.3 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: 1000 gallons

Drainfield Design ☐ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 400 feet

# of Lines: 5 @ 80 feet

Depth of Media: 12 inches (Type) 25% Reduction

Distribution Device: Pressure Manifold

Bed Design *(For Repair Installations ONLY.)* ☒ N/A

Bed Depth: _____ inches

Bed Width: _____ feet

Total line length: _____ feet

# of Lines: _____ @ _____ feet

Depth of Media: _____ inches (Type) _____

Distribution Device: _____

Water Supply Source

☒ Municipal ☐ Private Well ☐ Community Well

☐ Other _____

Minimum System Setbacks

Distance from Building Foundation: 10 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 10 feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

Install per S&EC Design and permit on file with MctD.

Comments: System Classification & Type: IIIb g system

DENR Authorized Agent: Jeremy Michael Signature: Jeremy Michael

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date: 11/03/10
Receipt #: 69484
Check / Auth #: CHECK 2455
Received By: BEACHMS

Amount: 100.00
Tendered: 0.00
Returned: 0.00

Account Information

Account #: 200000
Contractor: RYAN, LESLIE
Attn:
Address: 8215 CARTER CREEK DRIVE
Address: #208
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0702	Optional Site Evaluations 8133 BRIEF ROAD		1	100.00	100.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
10.00					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	03/14/11	**Amount:**	200.00
Receipt #:	71858	**Tendered:**	200.00
Check / Auth #:	CHECK 2480	**Returned:**	0.00
Received By:	CRAIGGY		

Account Information

Account #: 200000
Contractor: RYAN LESLIE J
Attn:
Address: 8215 CARTER CREEK DR APT 208
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 8124 CASTLESTONE DR/FILE 8229B		1	200.00	200.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	03/14/11	**Amount:**	200.00
Receipt #:	71859	**Tendered:**	200.00
Check / Auth #:	CHECK 2480	**Returned:**	0.00
Received By:	CRAIGGY		

Account Information

Account #: 200000
Contractor: RYAN LESLIE J
Attn:
Address: 8215 CARTER CREEK DR APT 208
Address:
City/State/Zip: CHARLOTTE, NC 28227

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 8124 CASTLESTONE DR/FILE 8229B		1	200.00	200.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance