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 #: 66398 Permit #: 1080 Tax Parcel #: 019-243-18

Property Owner: ORLEANS HOMES

Job Location Address: 13708 Paulrai Estates Drive

City: Huntersville State: NC Zip Code: 28278

Operation Permit Issuance Date: 6/25/12 Contractor Name: Willy Christenbury

Permitted Design Flow: 600 GPD

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: 1500 gallons

Effluent Pump Model: SCHEFF 45

Drainfield Installation ☒ N/A

Trench Depth: 24 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 430 feet

# of Lines: 5 @ 86 feet

Depth of Media: 12 inches (Type) IQ4W

Depth of Cover: 12 inches

Distribution Device: P. 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: >10' feet

Distance from Property Line: >10' feet

Distance from Water Supply Source: >50' feet

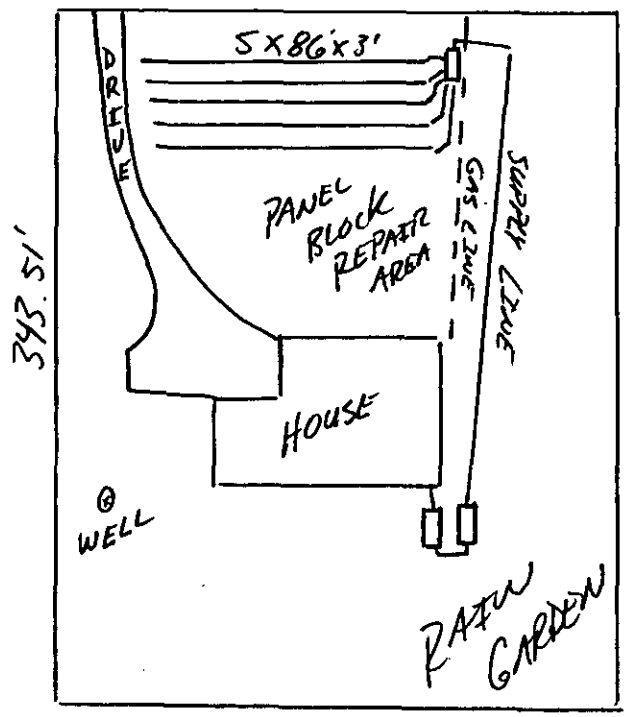
Inspection Dates

Tank(s) Inspected: 6/25/12

Excavation Inspected: 6/25/12

Pump & Controls Inspected: 6/25/12

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-b, IQ4W, PRESSURE, NA, NA

DENR Authorized Agent: Jeremy Michael REITS Signature: Jeremy Michael REITS

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

File #: 66598 Permit #: 1080 Tax Parcel #: 019-243-18

Property Owner: Orleans Homes

Job Location Address: 13408 Fountain Estates Drive

City: Huntersville State: NC Zip Code: 28078

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: IIIb

*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 Mcclain, REHS Date: 6/25/12

Signature: Jeremy Mcl. REHS

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

File #: 66398 Permit #: 1080 Tax Parcel #: 019-243-18

Property Owner: ORLEANS HOMES

Job Location Address: 13408 PAVILION ESTATES DRIVE (LOT #7)

City: HUNTERSVILLE State: NC Zip Code: 28278

Installation Approval Issuance Date: 5/29/12

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 7/29/12, 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: 600 GPD Site LTAR: 0.35 GPD/ft² (For new installations only.)

Liquid Capacity of Septic Tank: 1500 gallons Liquid Capacity of Dosing Tank: 1500 gallons

Drainfield Design ☐ N/A
Trench Depth: 30 inches
Trench Width: 3 feet
Line Spacing: 9 feet (O.C.)
Total line length: 480 feet
# of Lines: 5 @ 86 feet
Depth of Media: 12 inches (Type) 25% RED
Distribution Device: P. 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: >75' feet
Distance from Property Line: >10' feet
Distance from Water Supply Source: >50' feet

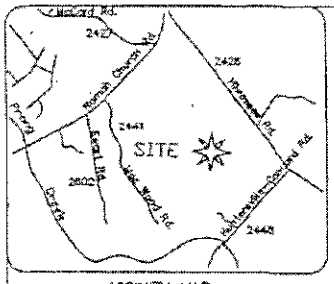
SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

INSTALL AS PERMITTED

* TEMPORARY DRIVEWAY NEEDS MOVED TO PROPERTY LINE.

Comments: System Classification & Type: III b Pump to 25% RED.

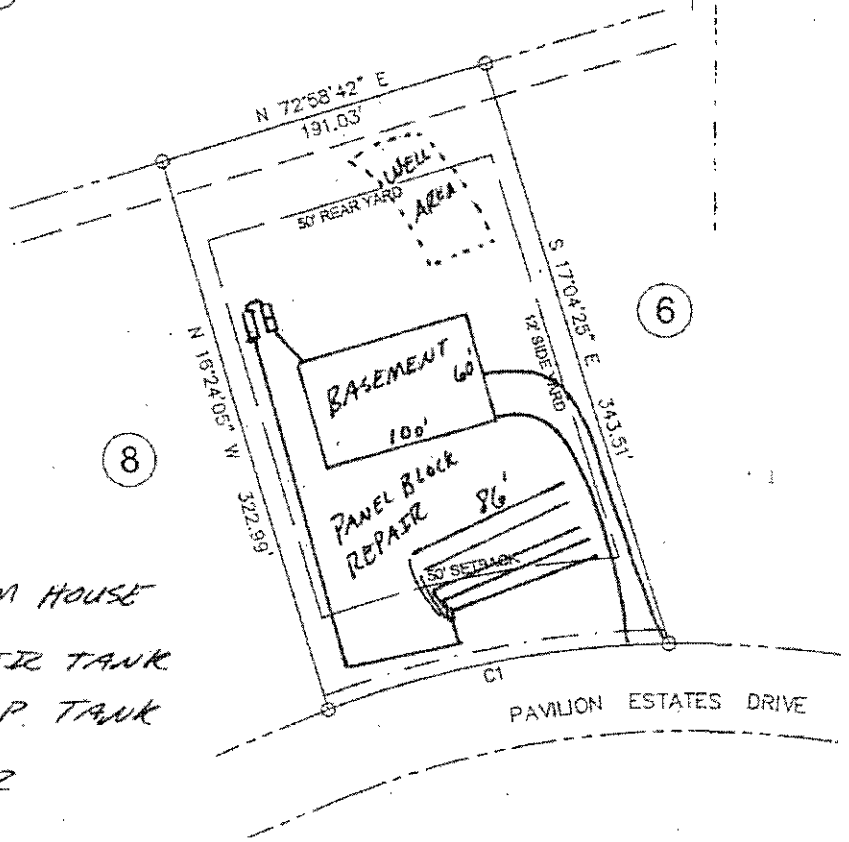
DENR Authorized Agent: Jeremy Nicholson, REHS Signature: Jeremy Nicholson, REHS



VICINITY MAP

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD
C1	196.88'	575.00'	S 78°59'45" W	195.92'

6639B



→ 5 BEDROOM HOUSE
→ 1500 SEPTIC TANK
→ 1500 PUMP TANK
→ 0.35 LTAR
→ 430 TLF
→ 5 LINES X 86' X 3 W/ PRESSURE MANIFOLD
→ TYPE IIIg System
→ TYPE IVa LPP PANEL REPAIR (285')

Tony Mueller P.E.

LEGEND

- ⊙ SET IRON PIN (#5 REBAR)
- ● EXISTING IRON PIN (AS DESCRIBED)
- TIE LINE
- BOUNDARY AS SURVEYED
- BOUNDARY BY DEED OR PLAT
- RIGHT OF WAY
- EASEMENT

PLOT PLAN _____ SURVEY

PROPERTY OF: LOT 7 THE PAVILION

HUNTERSVILLE TWP., MECKLENBURG CO., NC

ADDRESS: 13408 PAVILION ESTATES DRIVE, HUNTERSVILLE, NC

LOT 7 BLOCK ____, THE PAVILION

SCALE: 1 IN = 100 FT. DATE: JUNE 21, 20 06

0 100 200 300

CONCORD ENGINEERING & SURVEYING, INC.
ENGINEERS - SURVEYORS - PLANNERS
45 SPRING STREET SW CONCORD (704) 786-5404
CONCORD, NC 28025 FAX (704) 786-7454
ACAD FILE: LOT 7.DWG

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JOB NO.: 050306.001

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NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: **30001080** GWS File #: **6639B** Tax Parcel #: **019-242-32**

- 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):** 1/26/2012

Type of Installation: Residential - New System Lot Number: 7

Structure Type: HOUSE Size (ft^2): 0 # Bedrooms: 5 # Occupants: 6

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: Pump to Approved Accepted **System Classification:** IIIb

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.35	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1286	Total Trench Length (ft):	429
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Pressure Manifold		

III. Repair System Type: PPBPS (pressurized) **System Classification:** IVa

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.35	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	858	Total Trench Length (ft):	286
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Manifold (LPP Distri		

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 Michelone

Signature: Jeremy Michelone, R.S.

Date Issued: 1/26/2007

Owner/Legal Agent: Rick Jasinski

Print Name

Signature: Rick Jasinski

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

Permit #: **30001080** GWS File #: **6639B**

IV. Permit Conditions/Comments:

- 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.
- All components of the septic system must be installed in accordance with the required setbacks listed on the corresponding plot plan.

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 Michelone

Signature: Jeremy Michelone, R.S.

Date Issued: 1/26/2007

Owner/Legal Agent: Rick Jasinski
Print Name

Signature: Rick Jasinski

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

Sheet: 1 of 2
Property ID: Po 019-242-32
Lot #: 7
File #: 6639B
AppID: 1080
Code: 2

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Simoni Builders
Applicant: Kenn Owens
Address: 1910 South Boulevard, Suite 200, Charlotte, N. C. 28203
Date Evaluated: 11/15/06
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.45a
Location of Site: 13408 Pavilion Estates Drive
Property Recorded:
Water Supply: [ ] Public [x] Individual [x] 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 .1941 Structure/ Texture	.1941 Consistence Mineralogy	PROFILE FACTORS b .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr. Horiz	Profile Class & LTAR
1	LS, 10	0-6	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	N/A	NONE	PS, IV
		6-40	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		40-48	SBK/CL	FR/SEXP/SS/SP					
2	LS, 8	0-4	GR/CL	"	>40" TO SOIL WETNESS	40	"	"	PS, III
		4-40	SBK/CL	"					.4GPD/FT^2
3	LS, 6	0-7	GR/CL	"	>48" TO SOIL WETNESS	48+	"	"	PS, IV
		7-33	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
		33-48	SBK/CL	FR/SEXP/SS/SP					

Description	Initial System	Repair System
Available Space (.1945)	PS	~~US~~ P.S.
System Type(s)	IIIb	IIIa
Site LTAR	.35GPD/FT^3	.35GPD/FT^2

Other Factors (.1946):
Site Classification (.1948): UNSUITABLE
Evaluated By: W. R. Marlin, LSS, 11/16/2006, W. R. Marlin
Others Present:

COMMENTS:
100% repair, house site not identified at time of investigation

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

