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 #: 6901B Permit #: 1778 Tax Parcel #: 019-243-02

Property Owner: ORLEANS HOMES

Job Location Address: 13830 PAVILION ESTATES DRIVE

City: HUNTERSVILLE State: NC Zip Code: 28278

Operation Permit Issuance Date: 8/24/12 Contractor Name: W. CHRISTENBURY

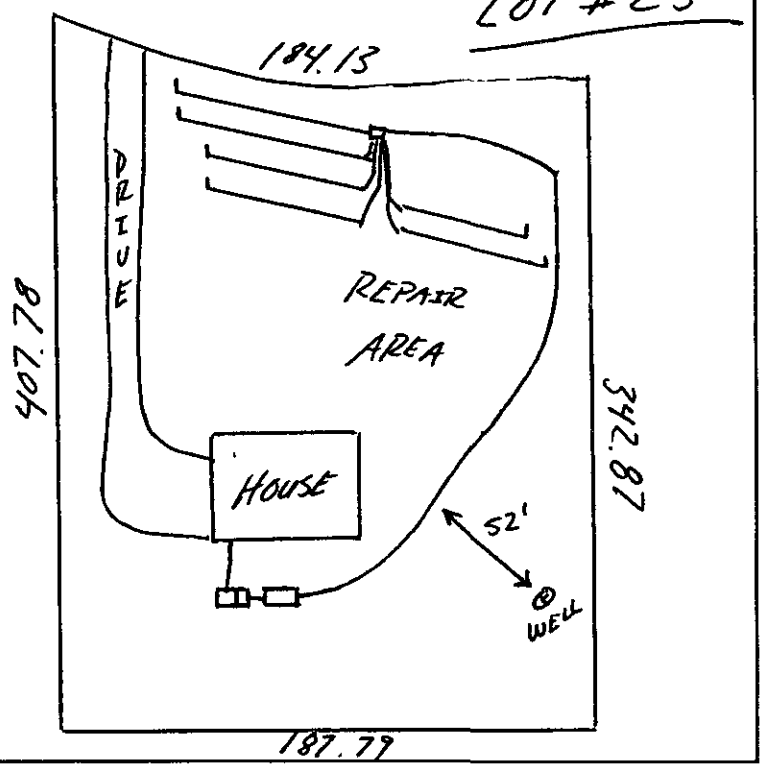
Permitted Design Flow: 600 GPD
Liquid Capacity of Septic Tank: 1500 gallons
Liquid Capacity of Dosing Tank: 1500 gallons
Effluent Pump Model: GOULDS 1.5 HORSE

Drainfield Installation ☐ N/A
Trench Depth: 30 inches
Trench Width: 3 feet
Line Spacing: 9 feet (O.C.)
Total line length: 335 feet
# of Lines: 6 @ 3@50 feet 2@70, 1@45
Depth of Media: 16 inches (Type) PPBPS
Depth of Cover: 10 inches
Distribution Device: LPP MANIFOLD HEADWORKS

Inspection Dates
Tank(s) Inspected: 8/16/12
Excavation Inspected: 8/24/12
Pump & Controls Inspected: 8/24/12

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: _____

SKETCH OF SYSTEM INSTALLATION
(As-Built Drawing)



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

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: IIIa, PPBPS, PRESSURE, LPP, N/A
CERTIFIED OPERATOR AGREEMENT REQUIRED BEFORE C.O. RELEASE

DENR Authorized Agent: Jeremy Michelon Reits Signature: Jeremy Michelon Reits

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

File #: 6901B Permit #: 1778 Tax Parcel #: 019-243-02

Property Owner: ORLEANS HOMES

Job Location Address: 13830 PAVILION 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: IVa

*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: CERTIFIED OPERATOR REQUIRED

DENR Authorized Agent: Jeremy Michalec, REHS Date: 8/24/12

Signature: Jeremy Michalec, REHS

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NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

File #: 69018 Permit #: 1778 Tax Parcel #: 019-243-02

Property Owner: ORLEANS HOMES

Job Location Address: 13830 PAULTON ESTATES DRIVE

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: 0.3 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: 335 feet

# of Lines: 6 @ VARY feet

Depth of Media: NA inches (Type) PPBPS

Distribution Device: LPP

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: >5' feet

Distance from Property Line: >10' feet

Distance from Water Supply Source: >50' feet

SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

INSTALL EXACTLY AS DESIGNED BY SAME on FILE.

Comments: System Classification & Type: IVa LPP PANEL BLOCK SYSTEM

DENR Authorized Agent: Jerry Mickler REHS Signature: Jerry Mickler REHS

FEE: 200.00

DATE: 11/30/2012

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

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 6901B

PERMIT NUMBER: 30001778

PARCEL NUMBER: 01924302

JOB LOCATION INFORMATION

ADDRESS: 13830 PAVILION ESTATES DR

CITY: HUNTERSVILLE **STATE: NC** **ZIP:** 28078

ISSUED TO: THE PAVILLION OF HUNTERSVILLE

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 4/9/2007

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30001778, 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. AN INSTALLATION APPROVAL MUST BE SECURED PRIOR TO INSTALLATION OF THE SEPTIC TANK SYSTEM. THE INSTALLER OF THE SYSTEM SHALL BE A REGISTERED SEPTIC TANK CONTRACTOR WITH THE MECKLENBURG COUNTY HEALTH DEPARTMENT.

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, NOT TO EXCEED 60 MONTHS.
   ***CONSTRUCTION AUTHORIZATION EXPIRATION DATE:** 4/9/2012

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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 #: **30001778** GWS File #: **6901B** Tax Parcel #: **019-243-02**

- 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):** 4/9/2012

Type of Installation: Residential - New System Lot Number: 23

Structure Type: HOUSE Size (ft^2): 0 # Bedrooms: 5 # Occupants: 4

Building Foundation: Basement With Plumbing Water Supply: Private Well

II. Initial System Type: PPBPS (pressurized) **System Classification:** IVa

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	999	Total Trench Length (ft):	333
Maximum Trench Depth (in):	30	Depth of Media (in):	N/A	Distribution Device:	Manifold (LPP Distri		

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

Repair System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.3	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	1500
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	999	Total Trench Length (ft):	333
Maximum Trench Depth (in):	30	Depth of Media (in):	N/A	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 Owner/Legal Agent: Rick Jasinski

Print Name

Signature: Jeremy Michelone R.S Signature: Rick Jasinski

Date Issued: 4/9/2007

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On-Site Wastewater Section

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

Permit #: **30001778** GWS File #: **6901B**

IV. Permit Conditions/Comments:

- Prior to issuing the Authorization to Construct for this project, all stormwater detention and treatment devises required by Huntersville shall be reviewed along with the proposed final site 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: 4/9/2007

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 #: 23
File #: 6901B
AppID: 1778

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Applicant: S & ME- Jacob Presley
Address: 1910 S. Blvd., Ste. 200, Charlotte, N. C., 28203
Date Evaluated: 1/11/07
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.7a
Location of Site: Pavilion Estates Drive
Property Recorded:
Water Supply: [ ] 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 .1941 Structure/ Texture	.1941 Consistence	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class &LTAR
1	LS, 8	0-2	GR/CL	FR/SEXP/SS/SP	>45" TO SOIL WETNESS	45	N/A	NONE	PS, IV
		2-45	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-3	GR/SCL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	"	"	"
		3-24	SBK/C	FI/SEXP/S/P					
		24-42	SBK/SCL	FR/SEXP/SS/SP					
3	LS, 10	0-3	GR/SCL	"	>47" TO SOIL WETNESS	47	"	"	"
		3-47	SCL/SC	FI/SEXP/S/P					
4	LS, 15	0-4	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49+	"	"	"
		4-49	SBK/C	FI/SEXP/S/P					
5	"	0-3	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					
6	"	0-4	GR/SCL	FR/SEXP/SS/SP	"	"	"	"	"
		4-48	SBK/C	FI/SEXP/S/P					
					SITE LTAR- .3GPD/FT^2				

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	Iva	Iva
Site LTAR	.3GPD/FT2	.3GPD/FT2

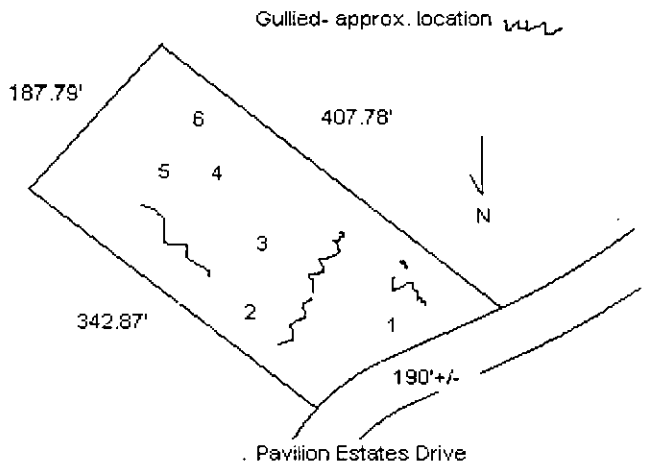
Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 1/12/2006,
Others Present:
Site Classification (.1948): PS
Site Evaluation By:
Others Present:

COMMENTS:
100% repair, surveyer to locate gullied areas

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



#1778

GWS – RES. APP 07/05

SEPTIC FEE: 200 CK
DATE: 11/7/07
CRT [ ]

PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT / CONSTRUCTION AUTHORIZATION FOR ON-SITE WASTEWATER SYSTEM NEW WELL INSTALLATION OR REPAIR OF EXISTING WELL MECKLENBURG COUNTY GROUNDWATER & WASTEWATER SERVICES

WELL FEE: _____
DATE: _____
CRT [ ]

FILE # 6901B

SEPTIC / TYPE APPLICATION: ☐ NONE ☑ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☐ MODIFY PLOT PLAN

WELL / TYPE APPLICATION: ☑ NONE ☐ NEW WELL ☐ MAJOR REPAIR ☐ ABANDONMENT

JOB LOCATION INFORMATION:

TAX/PARCEL #: 01924233270
STREET ADDRESS: Pavilion Blvd. Dr.
CITY: Huntersville
STATE: NC **ZIP:** 28078
SUBDIVISION OR MOBILE HOME PARK NAME:
LOT #: 23
TOWNSHIP:

☒ 0-MECKLENBURG ☐ 4-PINEVILLE
☐ 1-CHARLOTTE ☐ 5-MATTHEWS
☐ 2-DAVIDSON ☒ 6-HUNTERSVILLE
☐ 3-CORNELIUS ☐ 7-MINT HILL

BUILDING INFORMATION:

TYPE OF BUILDING:

☐ SINGLE MOBILE HOME (S) ☐ MODULAR HOME (M)
☐ DOUBLE WIDE (D) ☐ MULTIPLE FAMILY (U)
☑ HOUSE (H) ☐ OTHER

HEATED SQUARE FOOTAGE:
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS:

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☐ CRAWLSPACE ☐ BASEMENT WITH NO PLUMBING

IF PLANNING TO EXPAND/ALTER THE EXISTING SYSTEM INDICATE THE FOLLOWING CHANGES:

NUMBER OF BEDROOMS TO BE ADDED: NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE:
WILL THERE BE A HOME BUSINESS IN THE RESIDENCE? ☐ YES ☐ NO TYPE:

WATER SUPPLY:

☐ MUNICIPAL (M) ☒ PUBLIC (C) ☒ PRIVATE WELL (P) ☐ SHARED WELL (S) ☐ OTHER 'SPRINGS' (O)

PROPOSED USE OF WELL: ☐ N/A ☐ IRRIGATION ☒ POTABLE ☐ GEOTHERMAL ☐ OTHER

ARE ANY OF THE FOLLOWING LOCATED ON THE PROPERTY? IF SO, PLEASE SHOW LOCATION ON SITE PLAN/PLAT.

BURIED CABLES, LANDFILLS, STUMPHOLES	☐ YES	☑ NO	WELLS, SPRINGS, OR WATER LINES	☐ YES	☐ NO
EXISTING WASTEWATER SYSTEMS	☐ YES	☑ NO	DESIGNATED WETLANDS	☐ YES	☐ NO
EASEMENTS OR RIGHT-OF-WAYS	☐ YES	☑ NO	GRADING/SOIL REMOVAL PERFORMED	☐ YES	☑ NO

PROPERTY OWNER:

NAME: The Pavilion of Huntersville
ADDRESS: 1910 S. Blvd. STE 200
CITY: Charlotte
STATE: NC ZIP: 28203
HOME PHONE: WORK PHONE: 704-358-9940
MOBILE PHONE: 704-201-8976 FAX: 704-358-9978

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:

NAME: Jacob Presley, SBME, Inc.
ADDRESS: 3718 Old Battleground Rd.
CITY: Greensboro
STATE: NC ZIP: 27410
HOME PHONE: WORK PHONE: 336-288-7180
MOBILE PHONE: 336-312-1123 FAX: 336-288-8780

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED?
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY?

*An Improvement Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature 12-22-06 Date

NORTH CAROLINA DEPARTMENT OF
ENVIRONMENT & NATURAL RESOURCES DIVISION
OF ENVIRONMENTAL HEALTH ON-SITE
WASTEWATER SECTION

*A Well Permit is subject to suspension or revocation if site plans or the intended use change or if information submitted in this application is falsified or changed. The undersigned, owner, or legal agent for the owner, of the property described above as the "Job Location" has read the foregoing application, acknowledges that the contents of same are true, and authorizes the Mecklenburg County Health Department to enter onto the property for the purpose of processing this request.

Owner's/Agent's Signature Date

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

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 #: 23
File #: 6901B
AppID: 1778

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Applicant: S & ME- Jacob Presley
Address: 1910 S. Blvd., Ste. 200, Charlotte, N. C., 28203
Date Evaluated: 1/11/07
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.7a
Location of Site: Pavilion Estates Drive
Property Recorded:
Water Supply: [ ] 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 1941 Structure/ Texture	1941 Consistence	b PROFILE FACTORS 1942 Soil Wetness/ Color	1943 Soil Depth (IN!)	1956 Sapro Class	1944 Restr. Horiz	Profile Class & LTAR
1	LS, 8	0-2	GR/CL	FR/SEXP/SS/SP	>45" TO SOIL WETNESS	45	N/A	NONE	PS, IV
		2-45	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-3	GR/SCL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	"	"	"
		3-24	SBK/C	FI/SEXP/S/P					
		24-42	SBK/SCL	FR/SEXP/SS/SP					
3	LS, 10	0-3	GR/SCL	"	>47" TO SOIL WETNESS	47	"	"	"
		3-47	SCL/SC	FI/SEXP/S/P					
4	LS, 15	0-4	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49+	"	"	"
		4-49	SBK/C	FI/SEXP/S/P					
5	"	0-3	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					
6	"	0-4	GR/SCL	FR/SEXP/SS/SP	"	"	"	"	"
		4-48	SBK/C	FI/SEXP/S/P					
					SITE LTAR- .3GPD/FT^2				

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

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 1/12/2006, W. R. Marlin
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

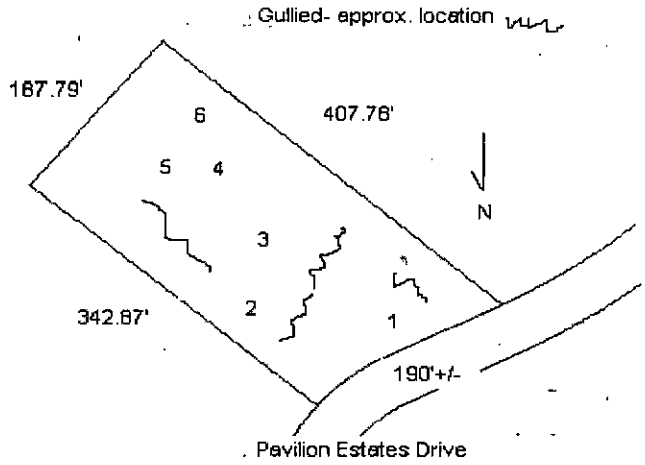
COMMENTS:

100% repair, surveyer to locate gullied areas

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





13830 PAVILION ESTATES DR

01924302

1/11/2008

duponbj

Groundwater and Wastewater Services File Imaging Project
May 2007
Barcode Font = IDAutomationHC39M

Supervisor/Administrative Professional Checklist

New Septic ☑ **New Well** ☑ **Use Existing** ☐ **Alteration** ☐ **Modified Plot Plan** ☐

New Septic Fees Paid:

IP ($250.00) _____ Initials/Date

CA ($200.00) lws 11/30/12 Initials/Date

OP ($200.00) lws 11/30/12 Initials/Date

(CA and OP fees need to be paid before a building permit can be issued)

New Well Fee Paid: $550.00 _____ Initials/Date

Use Existing Fee Paid: $100.00 _____ Initials/Date

Alteration Fee Paid: $300.00 (Total) $200 (If use existing was paid)_____ Initials/Date

Modified Plot Plan Fee Paid: $100.00 _____ Initials/Date

Floor plans need to be submitted and reviewed before CA can be issued. ☐ Reviewed ☐ PERMIT ISSUED PRE FLOOR PLANS REQUIRED JAM

This site is served by septic and well. Verify each is complete before final hold is released. ☑

Septic file completed. ☑ 11-14-12 JAM Well file completed. ☑ 11-30-12 JAM

Send permit for signature. ☐ Signature received. ☑ JAM

This septic system requires a certified operator contract before final hold is released. ☑

Certified operator contract is on file. ☑ 11-14-12 JAM

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6901B WASPS App #: 1778

Primary ES assigned to project: Jeremy Michelone

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: 6 Were sufficient auger borings made?	Yes ☒	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR 0.3	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:

CA fees need to be paid

IA issued date: 5/29/12

OP issued date: 5/24/12

Review performed by: JAM Date performed: 5/31/12

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6901 B WASPS App #: 1778

Primary ES assigned to project: OJ

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 ☐
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.1939 (a)(2)	Consistence Recorded?	Yes ☑	No ☐	N/A ☐
.1939 (a)(2)	Mineralogy Recorded?	Yes ☑	No ☐	N/A ☐
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.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: 6			
	Were sufficient auger borings made?	Yes ☑	No ☐	N/A ☐
.1939(d), .1955, .1956, .1957	LTAR - 3	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: _____

OP issued date: _____

Review performed by: _____ Date performed: _____

SEPTIC SYSTEM DESIGN REVIEW WORKSHEET

File: 6901B

Address: 13830 Pavilion Estates Dr.

PID #: 019-243-02

Subdivision: The Pavilion

Lot #: 23

Comments:

1. Special requirements listed by designer for fencing, filling, and storm water control structures. Make sure to include these in the permit.

Reviewed By: Trevor Thomason TCT

Date: April 2, 2007

Status: **X Approved** **Disapproved** **Pending**

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/30/12	**Amount:**	200.00
Receipt #:	80714	**Tendered:**	200.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: B60070
Contractor: PARKER & ORLEANS HMBLDRS, INC
Attn:
Address: 700 FORREST POINT CR
Address: SUITE 102
City/State/Zip: CHARLOTTE, NC 28273

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 13830 PAVILION ESTATES DR		1	200.00	200.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
329.04					

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/30/12	**Amount:**	200.00
Receipt #:	80715	**Tendered:**	200.00
Check / Auth #:	CHARGE	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: B60070
Contractor: PARKER & ORLEANS HMBLDRS, INC
Attn:
Address: 700 FORREST POINT CR
Address: SUITE 102
City/State/Zip: CHARLOTTE, NC 28273

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 13830 PAVILION ESTATES DR		1	200.00	200.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
529.04					

13830 Pavilion Estates Dr.
019-243-02

S&ME

GWS Septic System Design Review

GWS File #: 6901B

	Approved	Disapproved
Design Review: TCT 4-2-07	☒	☐
Field Review: 4/5/07	☒	☐

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

March 28, 2007

Mr. Rick Jasinski
Simonini Builders
1910 South Boulevard, Suite 200
Charlotte, North Carolina 28203

Reference: **Request for a Septic Improvement Permit for Lot 23 at The Pavilion**
Mecklenburg County Health Department (MCHD) File #6901B

Dear Mr. Jasinski,

Attached is the request for the Improvement Permit for the above referenced lot. We are requesting an Improvement Permit for a 5 bedroom house. We are proposing a LPPPBPS system and repair. Mr. Bill Marlin, LSS with the MCHD, has evaluated the soils (see attached MCHD soil sheets) and approved the proposed septic area at a 0.3 gpd/sqft LTAR. S&ME, Inc. has flagged the system and repair on the lot. The end of each septic line has been located by the surveyor and was sketched on the attached maps by S&ME. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot at The Pavilion.

A building permit cannot be issued until the MCHD issues an Authorization to Construct (ATC). The buyer will apply for the ATC. If the buyer's house pad does not fit in the "building envelope" shown on the Improvement Permit, the proposed system or number of bedrooms may have to be modified prior to the MCHD issuing the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

Lot 23 has some complex topography near the proposed septic system. There are several gullies noted on the site plan that should be filled with clean soil prior to system installation. To ensure this is done properly before house construction commences, we request that the Improvement Permit have the following conditions:

1. The Authorization to Construct shall not be issued until the proposed primary and repair area have been fenced with metal "T" posts and orange or black barricade or silt fence.
2. The Authorization to construct shall not be issued until the gullies near the primary and repair have been filled with a clean clay, clay loam, or sandy clay loam soil approved by the MCHD. The septic areas shall be fenced prior to any filling of the gullies.

3. Also, any storm water detention or treatment devices required by Huntersville shall be reviewed with the proposed house plans and location prior to issuing the Authorization to Construct.

The proposed system is a TYPE IV and will require a contract with a Certified Operator to supply maintenance services for the septic system. Please review the attached system sketch and design specifications for the Improvement Permit. If necessary, the MCHD may add comments to the site plan or specifications. Please call in you have and questions or comments.

Sincerely,

S&ME, Inc.

Paul G. Penninger, LSS
Licensed Soil Scientist

Rob Willcox, LSS
Natural Resources Department Manager

Attachments:
1. System Specifications
2. Site Plan
3. MCHD Soil Evaluation

Copy: Mr. Jeremy Michelone, R.S.
MCHD

Design Specifications for Lot 23 at The Pavilion ✓ TCT
MCHD File # 6901B

Daily Design Flow:	600 gpd
Number Bedrooms:	5 bdr.
Basement or Crawlspace:	Basement
Septic Tank Size:	1500 gal
Pump Tank Size:	1500 gal
Primary System Loading Rate:	0.3 gpd/ft^2
Primary System:	LP PPBPS
Number and length of laterals:	3 @ 50 ft., 2 @ 70ft., 1 @ 45 ft.
Total ft. of primary system:	335 ft.
Number of T&J Panels:	11 per 50 ft. line, 16 per 70 ft. line, 10 per 45 ft. line for a total of 75 panels
Flow Rate through system:	37.5 gpm – use 5/32 in. holes with 3 ft. head pressure
Pump Requirements:	to be calculated by installer when specific house and pump tank locations are available
Dosing Volume:	approx. 270 gal. – (3.6 gal per panel)*
Depth of effluent pumped per dose:	calculated to specific tank by measure or dealer engineering specifications (1 cubic ft. of water equals 7.48 gal.)
Check Valve:	yes
Siphon break hole:	yes
Repair System Loading Rate:	0.3 gpd/ft^2
Repair System:	LP PPBPS
Total ft. of repair	370 ft. (334 ft. required)

Notes: Before placement of cap block, one panel on each line, near the center of the field should be observed filling to male certain that it does not overflow the top chamber into the air chambers. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.

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 #: 23
File #: 6901B
AppID: 1778

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: The Pavilion of Huntersville
Applicant: S & ME- Jacob Presley
Address: 1910 S. Blvd., Ste. 200, Charlotte, N. C., 28203
Date Evaluated: 1/11/07
Proposed Facility: Residence
Design Flow (.1949): 600gpd
Property Size: 1.7a
Location of Site: Pavilion Estates Drive
Property Recorded:
Water Supply: [ ] 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 .1941 Structure/ Texture	.1941 Consistence	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-2	GR/CL	FR/SEXP/SS/SP	>45" TO SOIL WETNESS	45	N/A	NONE	PS, IV
		2-45	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-3	GR/SCL	FR/SEXP/SS/SP	>42" TO SOIL WETNESS	42	"	"	"
		3-24	SBK/C	FI/SEXP/S/P					
		24-42	SBK/SCL	FR/SEXP/SS/SP					
3	LS, 10	0-3	GR/SCL	"	>47" TO SOIL WETNESS	47	"	"	"
		3-47	SCL/SC	FI/SEXP/S/P					
4	LS, 15	0-4	GR/SCL	FR/SEXP/SS/SP	>49" TO SOIL WETNESS	49+	"	"	"
		4-49	SBK/C	FI/SEXP/S/P					
5	"	0-3	GR/SCL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48+	"	"	"
		3-48	SBK/C	FI/SEXP/S/P					
6	"	0-4	GR/SCL	FR/SEXP/SS/SP	"	"	"	"	"
		4-48	SBK/C	FI/SEXP/S/P					
					SITE LTAR- .3GPD/FT^2				

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

Other Factors (.1946):
Soil Evaluation By: W. R. Marlin, LSS, 1/12/2006,
Others Present:
Site Classification (.1948):
Site Evaluation By:
Others Present:

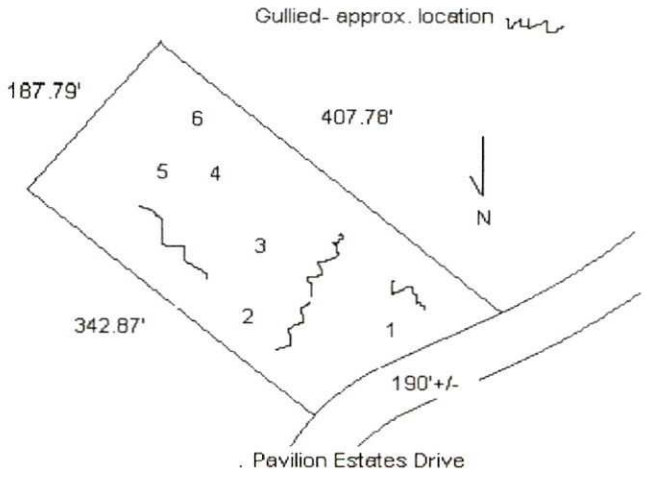
COMMENTS:

100% repair, surveyer to locate gullied areas

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



J.C. Moore
Maintenance Contract

State of North Carolina

County of Mecklenburg Permit Number 6901B

THIS AGREEMENT is made and entered into this the 29th day of August, 2012 by and between Orleans Home Builders (hereinafter the "Owner") and J.C. Moore (hereinafter the "Contractor").

WITNESSETH

WHEREAS, the Owner owns or controls the property upon which a ground absorption sewage treatment system (hereinafter "system") is installed, such system being designated a Type IVA system under the Rules for Sanitary Sewage Collection, Treatment and Disposal found at 15A N.C. Admin. Code 18A. 1900 et seq.; and

WHEREAS, 15A N.C. Admin. Code 18A. 1961 requires a contract to be executed between the system owner and a management entity prior to the issuance of an Operation Permit for said system; and

WHEREAS, 15A N.C. Admin. Code 18A. 1961 requires that a condition of the Operation Permit for said system be that a properly executed contract between the system owner and a management entity shall be in effect for as long as the system is in use; and

WHEREAS, the Contractor is a management entity of a type authorized by 15A N.C. Admin. Code 18A. 1961 to manage a Type IV - A system.

NOW THEREFORE, in consideration of the premises and of the mutual covenants and promises contained in this Agreement, it is hereby agreed by and between the Owner and the Contractor as stipulated below.

1. The Contractor's Obligations. The Contractor shall perform the following services on the owners systems located at 13830 Pavillion Est. Drive Huntersville, N.C. 28078

A. The Contractor shall inspect the system at least at the frequency required in Table V (b) of 15A N.C. Admin. Code 18A. 1961 (b) for a Type system.

B. The Contractor shall perform the following routine maintenance procedures in accordance with the conditions of the Operation Permit.

(1) Inspect the structural integrity and maintain all of the physical and mechanical components of the system.
(2) Inspect the performance and condition of the drain field.
(3) Flush and clean the laterals of the system.
(4) Check and set pressures in the system.
(5) Check and adjust pump delivery rate of the system.
(6) Clean septic tank filter if applicable and accessible.
(7) Perform any other requirements of the Operations Permit.

C. The Contractor shall report the result of its inspections to home Owner after each inspection and to the local Health Department at the frequency specified in Table V (b) of 15A N.C. Admin. Code 18A. 1961 (b) for a Type System.

D. If an inspection indicates the need for system repairs, the Contractor shall notify the local Health Department within 48 hours of the inspection.

E. The Contractor shall notify the Owner of needed repairs, which are outside the scope of routine maintenance described in subparagraph (b) above. The Contractor shall perform necessary repairs to the system that require the use of hand tools only at the request of the Owner and shall be entitled to payment therefore at the Contractors normal charge for services and materials. The Contractor shall not perform repairs that require the use of heavy equipment, electrical license or plumbing license.

2. The Owner's Obligations.

A. The Owner shall pay the Contractor upon signing this contract, the sum of for the first year of periodic inspections, routine maintenance procedures and periodic reports. The annual fee may be renewed at the end of each 12-month period. The annual fee may be amended upon sixty (60) days advance notice to the Owner but may not increase more that 20 percent per year. The Owner shall pay in the following methods.

( ) to be paid at the time of the signing of this agreement and to be paid before the second scheduled inspection.

$ (250.00) dollars to be paid at the time of the signing of this agreement.

B. The Owner shall pay to the Contractor his normal and customary fees for any work performed on the system 25.00 dollars per hour, with minimum of one hour, plus cost of material(s) as a result of nonscheduled service or maintenance calls. All fees for nonscheduled service or maintenance are due and payable within thirty (30) days of billing. Payments due to the Contractor and unpaid by the Owner after thirty (30) days shall accrue interest from the due date until paid at a rate of 1.5 percent per month.

C. The Owner shall keep the area of the septic system drain field properly mowed and protected from traffic. The Owner shall keep the designated repair area reserved for future repair to the septic system.

D. The Owner shall provide the Contractor with such access to the system as is reasonably necessary for the Contractor to comply with the terms of this Agreement.

3. Term: This Agreement shall remain in effect until termination.

A. Automatic Termination
This Agreement shall automatically terminate if the Operation Permit for the system is revoked and all appeals of the revocation are exhausted or time for taking an appeal has passed.

B. Termination by Mutual Consent
The Parties may mutually agree to terminate this Agreement by giving written notice of erminate by mutual consent to the local Health Department thirty (30) days in advance of the date of termination.

C. Termination by the Owner
The Owner may terminate this Agreement by giving notice to the Contractor and to the local health Department thirty (30) days in advance of the date of termination.

D. Termination by the Contractor

(1) The Contractor may terminate this Agreement for cause by giving written notice of intent to terminate this Agreement to the Owner and to the local Health Department thirty (30) days in advance of the date of termination. Cause shall be defined as:

(a) failure to remit payment for any bill for services performed under and in accordance with this Agreement if said bill is not paid within thirty (30) days of receipt by the Owner of the bill. If said bill is paid after notice of termination is given but prior to the date of termination of this Agreement this Agreement shall continue in effect; or

(b) failure of the Owner to allow the Contractor such access to the system as is reasonably necessary in order for the Contractor to comply with the terms of this Agreement.

(2) The Contractor may not terminate this Agreement without cause, but may assign its rights and duties under this Agreement as provided in paragraph 4, below.

4. Assignment

A. Assignment by the Owner. The Owner shall notify the Contractor of the name and address of any purchaser of the property on which the system is located. The Owner shall also notify any purchaser of the property on which the system is located of the existence of this Agreement and shall assign all rights and duties under this Agreement to said purchaser.

B. Assignment by the Contractor. The Contractor may assign its rights and duties under this Agreement to another management entity which is qualified pursuant to 15A N.C. Admin. Code 18A. 1961 to manage a Type IVA system upon thirty (30) days written notice to the Owner and the local Health Department.

5. Representations

The Parties represent to each other that each has the power, authority, and legal right to enter into and perform its obligations as set forth in this Agreement.

6. Regulatory Amendments

References in this Agreement to sections of the Administrative Code shall include such rules as they may be amended in the future.

7. No Implied Waiver

The waiver by either Party of a default or a breach by the other Party of any provision of this agreement shall not operate or be construed to operate as a waiver of any subsequent default or breach. The failure at any time of either Party to enforce any provision of this Agreement (a) shall not be construed to be waiver of such provisions, or of any other provision; and (b) shall not in any way affect the validity of this Agreement, or any part of this Agreement, or the right of either Party thereafter to enforce each and every provision of this Agreement.

8. Notice

Every notice required under this Agreement shall be in writing and shall be deemed sufficiently given if delivered in person or sent by mail and addressed as follows:

To the Owner:

Orleans Home Builders
700 Forest Point Circle
Suite 102 Charlotte N.C.
28273

To the Contractor:

J. C. moore
1227 Trautman Drive
Statesville, N.C. 28625

To the Local Health Department

Mecklenburg Environmental Health
700 North Tryon Street
Suite 211
Charlotte, N.C. 28202

The date of any Notice shall be the date of delivery. Changes in the respective addresses to whic notice may be directed may be made from time to time by either Party by notice to the other Party

9 Place of Agreement

This Agreement and any questions concerning its validity, construction of and performance shall be governed by the laws of the State of North Carolina, notwithstanding the place of execution o the order in which the signatures of the Parties are affixed.

10 Entire Agreement and Amendment.

This Agreement supersedes all prior negations, agreements and understandings between the Parties with respect to the subject matter hereof and constitutes the entire Agreement between the Parties with respect to the subject matter hereof. To be effective, any amendment or modification to this Agreement must be in writing and must be signed by the Parties.

11 Severability

In the event that any provision of this Agreement shall, for any reason, be determined to be invalid, illegal or unenforceable in any respect, the Parties shall negotiate in good faith and agre to such amendments, modifications or supplements of or to this Agreement or such other appropriate actions as shall, to the maximum extent practicable in light of such determination implement and give effect to the intentions of the Parties as reflected in this Agreement, and th other provisions of this Agreement shall as so amended, modified, supplemented or otherwise affected by such action, remain in full force and effect.

IN TESTIMONY WHEREOF, the Parties hereto have executed this Agreement in duplic originals, one of which is retained by each of the Parties, the day and year first above written.

(OWNER) _____

(CONTRACTOR) P.C. Moore

(INCLUDING RAIN GARDEN AREA)
RAIN GARDEN #1
0.040 ACRES
TOP OF SLOPE
20' SDE
15' SDE L90 63.40'
N 49°04'17" W 113.40'
35'X35' SIGHT TRIANGLES
L46 TOTAL 189.76'
S 49°04'17" E 267.83'
20' SIDE YARD
13201
24
13846
1.661 ACRES
12' SIDE YARD
N 49°51'43" W 342.87'
50' PUBLIC R/W
113.50'
S 24°15'12" W
N 24°15'12" E 112.30'
S 64°01'51" W 101.37'
N 64°01'51" E 101.37'
CONCRETE CONTROL MONUMENT
23
1.585 ACRES
13830
50' REAR YARD
S 39°46'01" W 200.47' TOTAL
117.14'
83.33'
114.96'
S 40°24'25" W
PLANTATION PIPELINE
PAVILION ESTATES DRIVE
DRIVE
12' SIDE YARD
S 49°38'50" E 407.78'
50' SETBACK
158'
GATE VALVE
22
1.598 ACRES
13814
SLEEVE W/ DUCTILE IRON WASH
2" SCH 40 PVC SUPPLY LINE
N 48°30'59" W 452.38'
8' SIDEWALK EASEMENT (TYP.)
156'
21
1.617 ACRES
13800
20' SDE
N 49°51'44" W 461.49'
S 39°52'30" W 145.16'
S 40°02'43" W 86.32' TOTAL
S 39°55'06" W 152.10' TOTAL
70.65'
81.45'
83.38'
2.94'