

7031 SAMPLE RD

02320102

L44

1/11/2008

duponbj

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

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 6782B WASPS App #: 2404

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 ☐
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: 4 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) 130A-336 (a)(3)	Proposed System Type stated-Repair 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	Yes ☑	No ☐	N/A ☐
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 ☐

H. 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 ☐

Comments: # Items requiring correction/modification: _____

IA issued date: _____

OP issued date: _____

Review performed by: JR Date performed: 7-11-07

FILE NUMBER: 6782B

Revised On: January 3, 2007

APPLICATION NUMBER: 2402

SEPTIC FEE: 100.00
DATE: 6/15/07
Ck # 5000043 JKA

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

WELL FEE: _____
DATE: _____

1. SEPTIC / TYPE APPLICATION: ☐ NONE ☐ NEW SYSTEM ☐ ALTERATION ☐ REPAIR ☒ MODIFIED PLOT PLAN

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

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 02320102 PO
STREET ADDRESS: Sample Rd.
CITY: Huntersville
STATE: NC ZIP: 28078
SUBDIVISION NAME: The Retreat at Latta Plantation
LOT #: 44 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: 5000
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 10

FOUNDATION TYPE:
☐ CONCRETE SLAB ☒ BASEMENT WITH PLUMBING
☐ CRAWL SPACE ☐ BASMENT WITH NO PLUMBING

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

NUMBER OF BEDROOMS TO BE ADDED: 1 NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: 2

6. WATER SUPPLY: ☐ MUNICIPAL ☐ PUBLIC WELL ☐ PRIVATE WELL ☐ SHARED WELL ☐ SPRING

7. PROPOSED USE OF WELL: ☑ N/A ☐ IRRIGATION ☐ POTABLE ☐ GEOTHERMAL ☐ OTHER

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

☐ 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 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

10. PROPERTY OWNER:

NAME: Faison - Sample Road, LLC
ADDRESS: 121 W. Trade Street, 27th Floor
CITY: Charlotte
STATE: NC ZIP: 28202-5399
HOME PHONE: WORK PHONE: 704 972 2674
MOBILE PHONE: FAX: 972 2676

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

NAME: S&ME Jacob Presley
ADDRESS: 285 Timber Rd.
CITY: Mooresville
STATE: NC ZIP: 28115-7899
HOME PHONE: WORK PHONE: 704-662-8625
MOBILE PHONE: FAX: 662 8735

12. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2006
13 WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 2006

14. SEPTIC SYSTEM PERMIT APPLICATION SIGNATURE SECTION:

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 60 months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

_____ 6-15-07
Property Owner's or Owner's Legal Representative Signature Date

15. WELL PERMIT APPLICATION SIGNATURE SECTION:

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 12 months from the date of issuance.

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

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

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

Sheet: 1 of 2
Property ID: PO 023-201-02
Lot #: 44
File #: 6782B
AppID: 1399
Code: 1

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: Faison-Sample Road LLC
Applicant: S & ME- Toney Jacobs
Address: 121 W. Trade St., 27th Floor, Charlotte, N. C., 28202-5399
Date Evaluated: 10/23/06
Proposed Facility: Residence
Design Flow (.1949): 480gpd
Property Size: .95a
Location of Site: Off Sample Road
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [x] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941		b PROFILE FACTORS				Profile Class & LTAR
			.1941 Structure/ Texture	.1941 Consistence Mineralogy	.1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	
1	LS, 8	0-5	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		5-48	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-6	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		6-27	SBK/C	FI/SEXP/S/P					
		27-48	SBK/CL	FR/SEXP/SS/SP					
3	"	0-15	GR/CL	"	"	"	"	"	"
		15-48	SBK/C	FI/SEXP/S/P					
4	"	0-6	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		6-48	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)		
Site LTAR	.3GPD/FT^2	.3GPD/FT^2

Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 10/24/2006,
Others Present:

COMMENTS:
100% repair

Landscape Position	Group	Texture	.1955 LTAR
R-Ridge	I	S-Sand	1.2 - 0.8
SS-Shoulder Slope		LS-Loamy Sand	
LS-Linear Slope			
FS-Foot Slope	II	SL-Sandy Loam	0.8 - 0.6
NS-Nose Slope		L-Loam	
HS-Head Slope			
CC-Concave Slope	III	SI-Silt	0.6 - 0.3
CV-Convex Slope		SICL-Silty Clay Loam	
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	

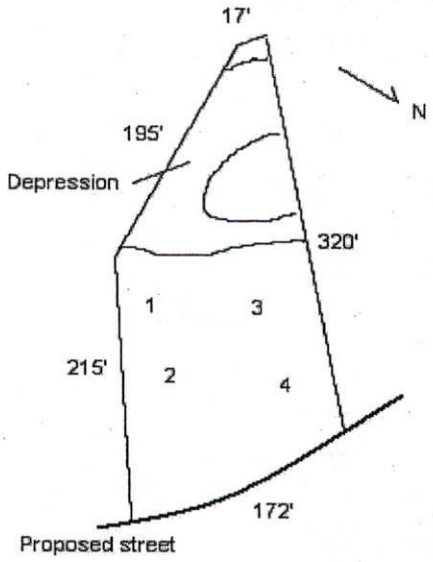
Structure
SG-Single Grain
M-Massive
CR-Crumb
GR-Granular
SBK-Subangular Blocky
ABK-Angular Blocky
PL-Platy
PR-Prismatic

Consistence Moist
VFR-Very Friable
FR-Friable
FI-Firm
VFI-Very Firm
EFI-Extremely Firm

Consistence Wet
NS-Non-Sticky
SS-Slightly Sticky
S-Sticky
VS-Very Sticky
NP-Non-Plastic
SP-Slightly Plastic
P-Plastic
VP-Very Plastic

Mineralogy
SEXP-Slightly Expansive
EXP-Expansive

Sketch of Soil Evaluation Locations



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

Sheet: 1 of 2
Property ID: PO 023-201-02
Lot #: 44
File #: 6782B
AppID: 1399
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SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Faison-Sample Road LLC
Applicant: S & ME- Toney Jacobs
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Date Evaluated: 10/23/06
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Design Flow (.1949): ~~480gpd~~ 600 GPD
Property Size: .95a
Location of Site: Off Sample Road
Property Recorded:
Water Supply: [x] Public [ ] 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 Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1	LS, 8	0-5	GR/CL	FR/SEXP/SS/SP	>48" TO SOIL WETNESS	48	N/A	NONE	PS, IV
		5-48	SBK/C	FI/SEXP/S/P					.3GPD/FT^2
2	"	0-6	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		6-27	SBK/C	FI/SEXP/S/P					
		27-48	SBK/CL	FR/SEXP/SS/SP					
3	"	0-15	GR/CL	"	"	"	"	"	"
		15-48	SBK/C	FI/SEXP/S/P					
4	"	0-6	GR/CL	FR/SEXP/SS/SP	"	"	"	"	"
		6-48	SBK/C	FI/SEXP/S/P					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IVa	IVa
Site LTAR	.3GPD/FT^2	.3GPD/FT^2

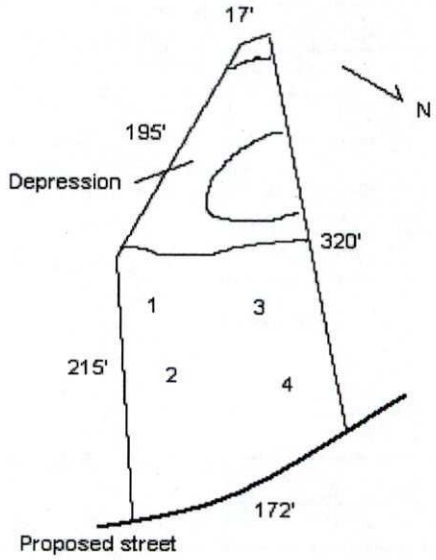
Other Factors (.1946):
Site Classification (.1948): PROVISIONALLY SUITABLE
Evaluated By: W. R. Marlin, LSS, 10/24/2006, W. R. Marlin
Others Present:

COMMENTS:
100% repair

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 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 #: **30002404** GWS File #: **6782B** Tax Parcel #: **023-201-02**

- 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):** 8/3/2012

Type of Installation: Residential - Modified Plot Plan Lot Number: 44

Structure Type: HOUSE Size (ft^2): 5000 # Bedrooms: 5 # Occupants: 10

Building Foundation: Basement With Plumbing Water Supply: Municipal

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):	1000	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

Signature: Jeremy Michelone

Date Issued: 8/3/2007

Owner/Legal Agent: Harvey C Jacobs
Print Name

Signature: Harvey C Jacobs

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 #: **30002404** GWS File #: **6782B**

IV. Permit Conditions/Comments:

- This type of septic system requires an inspection once every 3 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 type of septic system requires a Certified Operator to maintain the system. A system maintenance contract with a Certified Operator must be on file prior to issuance of an Operation Permit.

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

Date Issued: 8/3/2007

Owner/Legal Agent: Jeremy C Jacobs

Print Name

Signature: Jeremy C Jacobs

S&ME

Date: May 7, 2007

To: Mr. Jeremy Michelone, R.S.
Mecklenburg County Env. Health Dept.

From: Jacob B. Presley, LSS
Toney C. Jacobs, LSS

RE: Request for an Improvement Permit for Lot 44 off of Sample Road at The Retreat at Latta Plantation
MCHD File #6782B

FCD Development , LLC, is requesting an Improvement Permit for the above referenced lot. Mr. W.R. Marlin has evaluated the soils (see attached MCHD soil sheets) and S&ME, Inc. has flagged the system and repair on the lot. The septic lines have been located by S&ME and are shown on the attached maps. The attached sketch and specifications are not an Improvement Permit and are intended only to assist the MCHD in permitting the referenced lot off of Sample Rd.

We understand that a building permit cannot be issued until your office 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, we understand that the proposed system may have to be modified prior to your office issuing the ATC. **No grading shall take place on the lot prior to obtaining the ATC from the MCHD.**

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 if you have any questions or comments.

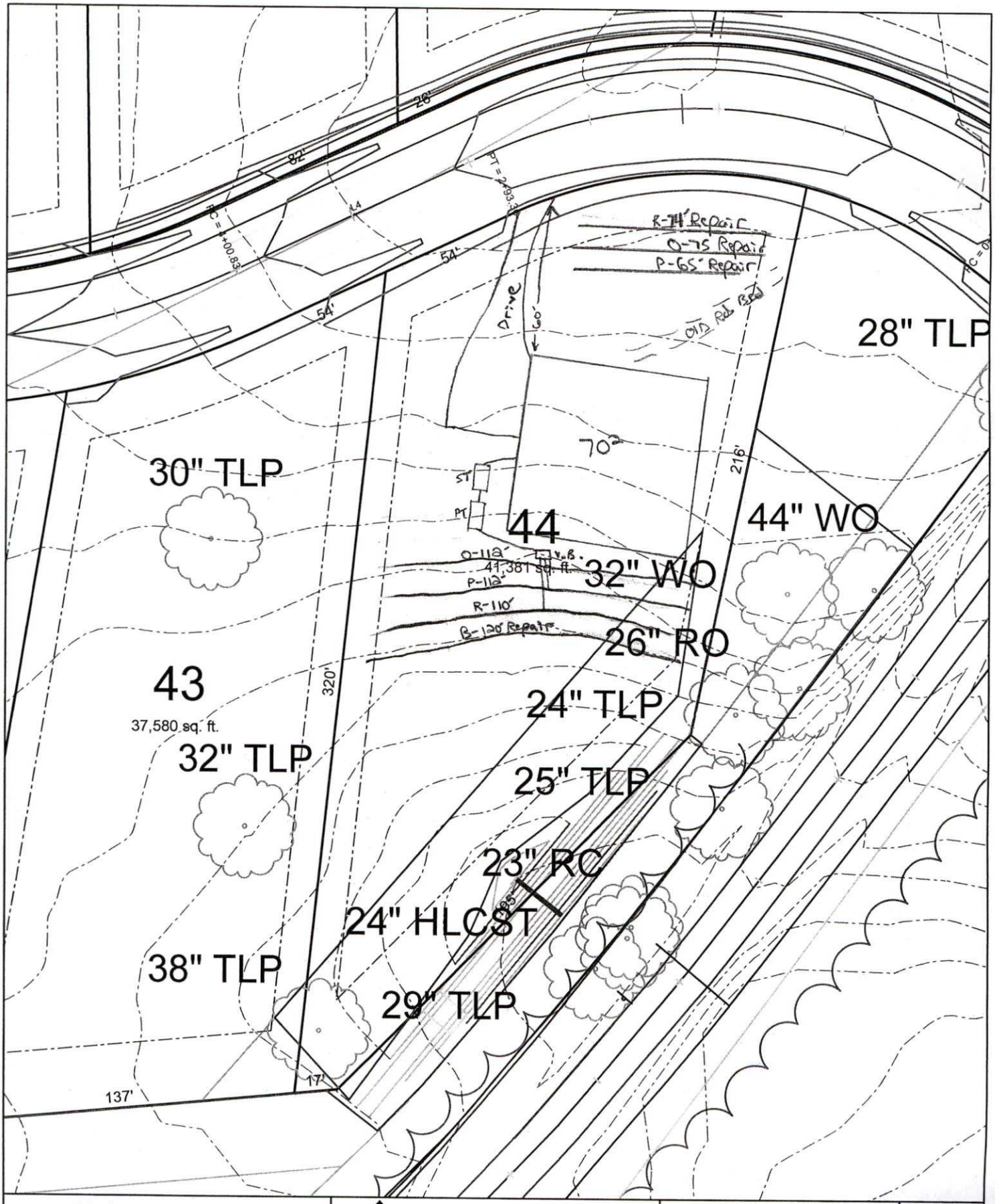
Design Specifications for Lot 44 off of Sample Rd.
MCHD File # 6782B

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:	2 lines @ 112 ft. centerfed (4 lines @ 56 ft.) 1 line @ 110 ft. centerfed (2 lines @ 55 ft.)
Total ft. of primary system:	334 ft. (334 ft. required)
Number of T&J Panels:	4 lines @ 56 ft., 13 panels each (52 total) 2 lines @ 55 ft., 13 panels each (26 total) Total of 78 panels
Flow Rate through system:	39 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. 281 gal. – (3.6 gal per panel)* 2.14 doses/day
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 334 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 make 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.

PPBPS Design Worksheet							File #:	
							Tax #:	
System Requirements							Address:	Lot 44 Sample Rd.
Design Flow	600	gpd						
LTAR	0.300	gpd/ft.^2					Consultant:	Jacob Presley - S&ME, Inc.
Linear footage	667	ft. (conventional)					Phone:	336-288-7180
Linear footage	333	ft. (50% Reduction)						
							Reviewed By:	
Design Layout							Date:	
Laterals	Length (ft)	# Panels	Calculated					
Line # 1	56	13	12.92		T & J Panels			
Line # 2	56	13	12.92		Linear Feet	# Panels		
Line # 3	56	13	12.92		20	5		
Line # 4	56	13	12.92		30	7		
Line # 5	55	13	12.69		40	9		
Line # 6	55	13	12.69		50	11		
Line # 7	0	0	0.00		60	14		
Line # 8	0	0	0.00					
Line # 9	0	0	0.00		70	16		
Totals	**334**	**78**	77.08					
Absorption Area								
Length (ft)	Width (ft)	Area (ft^2)						
334	3	1,002						
System Pressure Head	3	ft.	Value selected by system designer (must be between 2-5 ft.)					
Orifice Diameter	5/32	in.	Size selected by system designer (1/8 in. minimum)					
Flow Rate per Orifice	0.5	gpm	Determined from orifice flow design table (use table from Flow Rate tab)					
Total System Flow Rate	39	gpm	Total number of panels required multiplied by the orifice flow rate					
System Dose Volume	280.80	gal.	Total number of panels required multipled by 3.6 gal./panel					
Doses Per Day	2.14	cycles	Number of dose cycles per day based on daily design flow					
Pump Run Time	7.20	min.	System dose volume divided by the total system flow rate					
Pump Tank Volume / Inch	29	gal./in.	1,000 gal. Pump tank, volume is approximately 21 gallons per inch. 1,500 gal. pump tank, volume is approximately 29 gallons per inch					
Pump Tank Drawdown	9.68	in.	Depth of effluent pumped per dose cycle.					
Cells with blue shading require user input.								
Cells with yellow shading are automatically calculated.								
Comments:								
1. Install system using 3 ft. wide trenches.								
3. System design requires effluent pump for distribution.								
4. 100% Repair area is required.								



Scale: 1 inch equals 50 feet	S&ME	Faison - The Retreat at Latta Plantation	FIGURE
Drawn by: JBP		Lot 44	1
Reviewed by: TCJ		Mecklenburg County, NC	
Date: May, 2007	ENVIRONMENTAL SERVICES · ENGINEERING · TESTING	S&ME Project #1588-05-091	