Recreated file

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 #: 7907B Permit #: 30005487 Tax Parcel #: 195-022-50

Property Owner: Essex Homes

Job Location Address: 13226 Belle Grove Manor LN

City: Charlotte State: NC Zip Code: 28227

Operation Permit Issuance Date: 1-28-13 Contractor Name: Sid Gaskins

Permitted Design Flow: 600 GPD

Liquid Capacity of Septic Tank: 1500 gallons

Liquid Capacity of Dosing Tank: NA gallons

Effluent Pump Model: NA

Drainfield Installation ☐ N/A

Trench Depth: 24-30 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 500 feet

# of Lines: 5 @ 100 feet

Depth of Media: 12 inches (Type) chamber

Depth of Cover: 12-18 inches

Distribution Device: End cap

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: 710 feet

Distance from Property Line: 710 feet

Distance from Water Supply Source: 710 feet

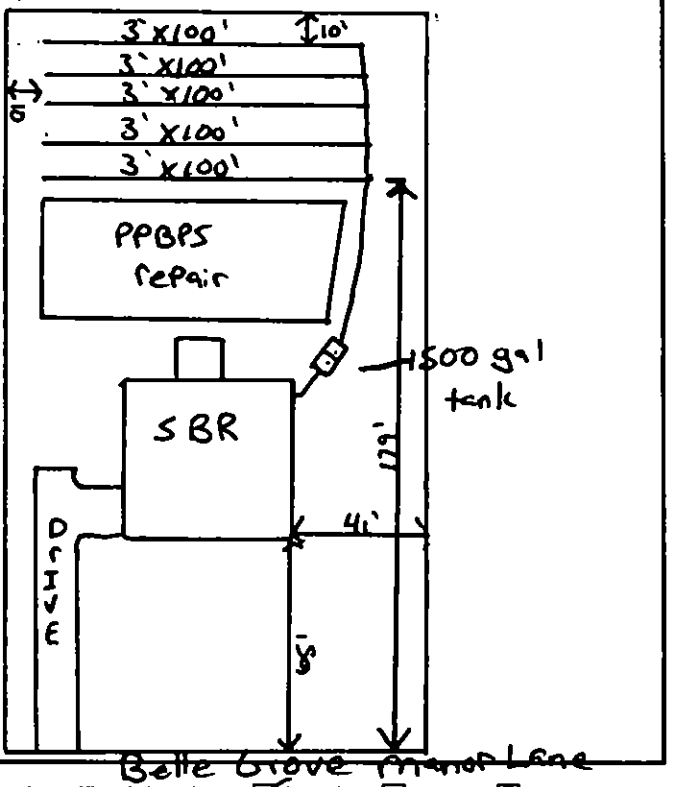
Inspection Dates

Tank(s) Inspected: 1-24/1-28-2013

Excavation Inspected: 1-24/1-28-2013

Pump & Controls Inspected: NA

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 g, IQ4, G, NA, NA

DENR Authorized Agent: Eric Bailey Signature: Eric Bailey

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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 #: 79073 Permit #: 30005487 Tax Parcel #: 195-022-80

Property Owner: Essex Homes

Job Location Address: 13226 Belle Grove Manor Ln

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: IIIg

*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: Eric Bailey Date: 1-28-13

Signature: Eric Bailey

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 #: 7907B Permit #: 30005487 Tax Parcel #: 195-022-50

Property Owner: Essex Homes

Job Location Address: 13226 Belle Grove Manor LN

City: Charlotte State: NC Zip Code: 28227

Installation Approval Issuance Date: 1-23-13

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 _____, 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: NA gallons

Drainfield Design ☐ N/A

Trench Depth: 30 inches

Trench Width: 3 feet

Line Spacing: 9 feet (O.C.)

Total line length: 500 feet

# of Lines: 5 @ 100 feet

Depth of Media: 12 inches (Type) 25%

Distribution Device: end cap

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: 710 feet

Distance from Property Line: 10 feet

Distance from Water Supply Source: 710 feet

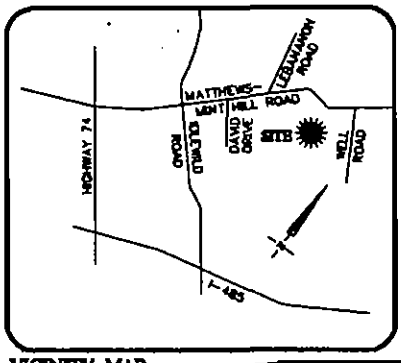
SKETCH OF SYSTEM LAYOUT
(Proposed Layout)

Install Per

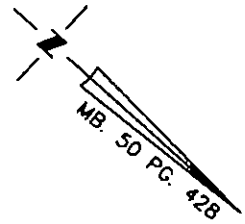
Sand EC Design

Comments: System Classification & Type: III g

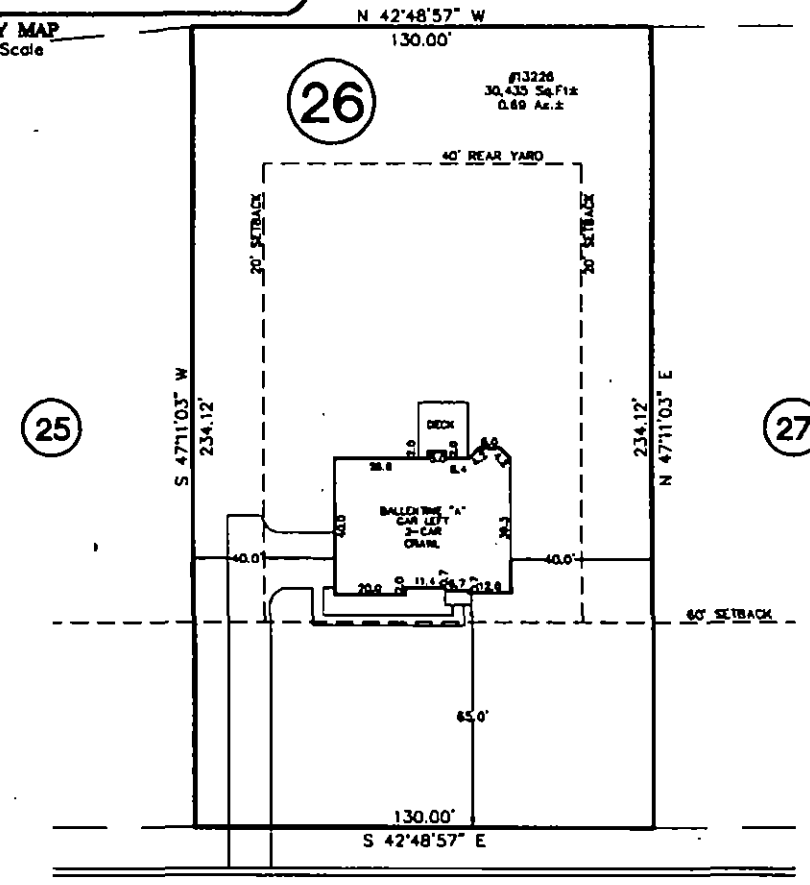
DENR Authorized Agent: Eric Bailey Signature: Eric Bailey



VICINITY MAP
Not To Scale



NOTTAWAY PLANTATION LLC
D.B. 23028 PGS. 322, 328, 330
(FUTURE DEVELOPMENT)



BELLE GROVE MANOR LANE

60' PUBLIC R/W

NOTE:
1. BUILDER ASSUMES RESPONSIBILITY FOR GRADING LOT AND/OR DESIGNING STEPS, PORCHES, DECKS, ETC. AS NECESSARY TO PREVENT ENCROACHMENT INTO SETBACKS.
2. HOUSE DIMENSIONS AND OPTIONS SHOULD BE VERIFIED WITH CONTRACTOR PRIOR TO CONSTRUCTION.
3. SETBACKS/ EASEMENTS SHOULD BE VERIFIED WITH DEVELOPER AND LOCAL OFFICIALS PRIOR TO CONSTRUCTION.
4. THIS IS A CONCEPTUAL DRAWING AND CONTENTS SHOWN HEREON ARE SUBJECT TO CHANGE UPON FINAL CONSTRUCTION.
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THIS DRAWING DOES NOT REFLECT AS-BUILT INFORMATION

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES

40 0 40
SCALE: 1" = 40'

EASTOVER
LAND SURVEYING COMPANY, P.A.
LAND SURVEYORS - PLANNERS - (C-1833)
600 TOWNE CENTRE BOULEVARD, SUITE #309
PINEVILLE, NORTH CAROLINA 28134
PHONE (704) 827-8080
FAX (704) 521-1078

HOUSE LOCATION PLOT PLAN

FOR

LOT 26, BELLE GROVE MANOR PHASE 1 MAP 2
Town of Mint Hill, Mecklenburg County, North Carolina

PROPERTY OF: ESSEX HOMES

MAP BOOK 50 PAGE 428 DEED REFERENCE

DRAWN BY: MJA | DATE: JANUARY 16, 2012

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

Sheet: 1 of 2
Property ID: 195-022-50
Lot #: 26
File #: 7907B
AppID: 5487

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Essex Homes Southeast Inc
Applicant: Same
Address: 13310 South Ridge Dr Charlotte, NC 28273
Date Evaluated: 3/22/2012
Proposed Facility: Residence
Design Flow (.1949): 600 GPD
Property Size: 1
Location of Site:
Property Recorded: n/a
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 Structure/ Texture	SOIL MORPHOLOGY .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 5%	0-10	SBK/CL	FR/SS/SP/SEXP	>48" to soil wetness	48"	N/A	PS	PS,IV 0.3 GPD/FT^2
		10-48	SBK/ABK/C	FI/S/P/SEXP					
2	LS 3%	0-6	SBK/SCL	FR/SS/SP/SEXP	"	48"	N/A	PS	PS,IV 0.3 GPD/FT^2
		6-48	SBK/ABK/C	FI/S/P/SEXP					
3	"	0-7	SBK/SCL	FR/SS/SP/SEXP	"	48"	N/A	PS	PS,IV 0.3 GPD/FT^2
		7-48	SBK/C	FI,SS,SP,SEXP					
4	"	0-8	SBK/CL	FR,SS,SP,SEXP	"	48"	N/A	PS	PS,IV 0.3 GPD/FT^2
		8-48	SBK/C	FI,S,P,SEXP					

Description	Initial System	Repair System
Available Space (.1945)	PS	PS
System Type(s)	IIIg	Iva
Site LTAR	0.3	0.3

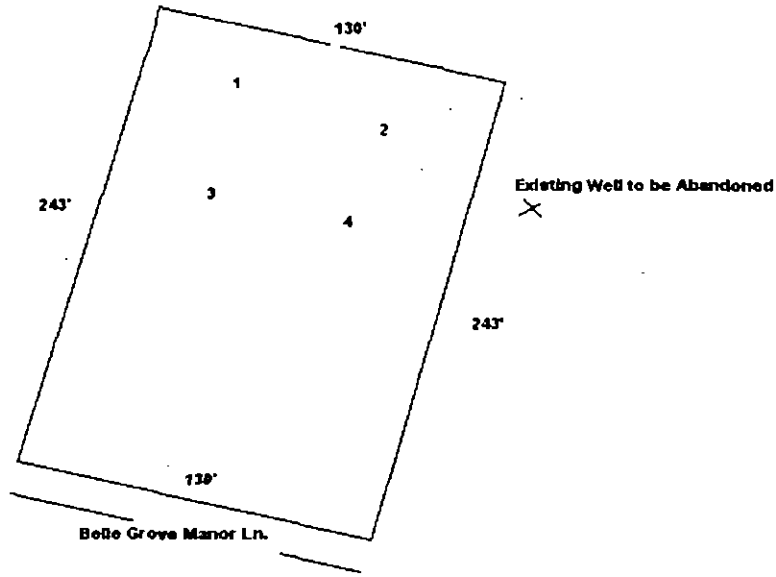
Other Factors (.1946):
Soil Evaluation By: Jeremy Michael Jeremy Michael REHS
Others Present:
Site Classification (.1948): PS
Site Evaluation By: Jeremy Michael
Others Present: Wendell Overby

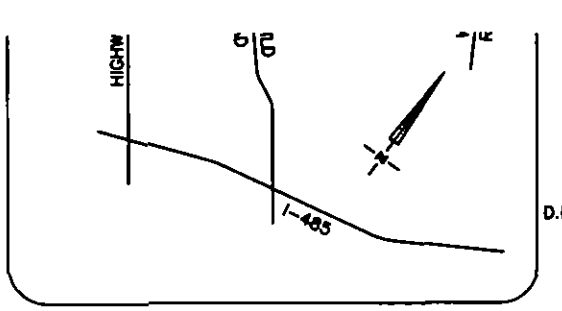
COMMENTS:

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





NOTTAWAY PLANTATION LLC.
D.B. 23028 PGS. 322, 326, 330
(FUTURE DEVELOPMENT)

30 PG. 428

VICINITY MAP
Not To Scale

N 42°48'57" W
130.00'

26

PINK 113'
BLUE 113'
YELO 110'
40' REAR YARD
ORNG 110'
RED 109'
PINK 110'
BLUE 111'
YELO 112'
REPAIR
REPAIR
REPAIR
20' SETBACK
20' SETBACK
1500 GAL TANK
ORNG 49' EXTRA
DECK
S 47°11'03" W
234.12'
N 47°11'03" W
234.12'
BALLENTINE "A"
GAR LEFT
2-CAR
CRAWL
40.0'
40.0'
60' SETBACK
65.0'
130.00'
S 42°48'57" E

BELLE GROVE MANOR LANE

60' PUBLIC R/W

NOTE:
1. BUILDER ASSUMES RESPONSIBILITY FOR GRADING LOT AND/OR DESIGNING STEPS, PORCHES, DECKS, ETC. AS NECESSARY TO PREVENT ENCROACHMENT INTO SETBACKS.
2. HOUSE DIMENSIONS AND OPTIONS SHOULD BE VERIFIED WITH CONTRACTOR PRIOR TO CONSTRUCTION.
3. SETBACKS/ EASEMENTS SHOULD BE VERIFIED WITH DEVELOPER AND LOCAL OFFICIALS PRIOR TO CONSTRUCTION.
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THIS DRAWING DOES NOT REFLECT AS-BUILT INFORMATION

PRELIMINARY PLAT
NOT FOR RECORDATION, CONVEYANCES, OR SALES

40 0 40

HOUSE LOCATION PLOT PLAN

FOR

Belle Grove Manor Lot 26

Project No. 5-1656

Layout for a 5 bedroom home **May-12**

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LENGTH
TBM		4.3			100.0		
INSTR. 1			104.3				
			REPAIR				
1	Orange		extra	4.30	100.0	50	
2	Yellow			4.60	99.7	112	112
3	Blue			5.30	99.0	111	111
4	Pink			6.10	98.2	110	110
			SYSTEM				
5	Red			6.40	97.9	109	100
6	Orange			7.20	97.1	110	100
7	Yellow			8.00	96.3	110	100
8	Blue			8.60	95.7	113	100
9	Pink			9.30	95.0	113	100

	LINE LENGTH	LTAR GPD/FT	SYSTEM TYPE	REDUCTION TYPE	DISTRIBUTION
SYSTEM	500	0.300	INNOV	25%	GRAVITY
REPAIR	333	0.300	PPBPS	50%	LPP

Notes:

** TBM located on top of house stake
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings

FEE: 200.00

DATE: 2/6/2013

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

MECKLENBURG COUNTY

GROUNDWATER & WASTEWATER SERVICES

FILE NUMBER: 7907B

PERMIT NUMBER: 30005487

PARCEL NUMBER: 19502250

JOB LOCATION INFORMATION

ADDRESS: 13226 BELLE GROVE MANOR LN

CITY: MATTHEWS **STATE: NC** **ZIP:** 28105

ISSUED TO: Essex Homes Southeast Inc

CONSTRUCTION AUTHORIZATION ISSUANCE DATE: 6/14/2012

CONSTRUCTION AUTHORIZATION CONDITIONS

1. WASTEWATER SYSTEM CONSTRUCTION AND INSTALLATION MUST MEET ALL CONDITIONS AND SPECIFICATIONS AS SET FORTH IN IMPROVEMENT PERMIT NUMBER 30005487, 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: 6/14/2017

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 #: 30006487 GWS File #: 7907B Tax Parcel #: 196-022-50

- 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):** 6/14/2017

Type of Installation: Residential - New System Lot Number: 26

Structure Type: HOUSE Size (ft^2): 3465 # Bedrooms: 5 # Occupants: 2

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Approved **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd): 600 LTAR (gpd/ft^2): 0.3 Septic Tank Size (gal): 1500 Pump Tank Size (gal): N/A

Trench Width (ft): 3 Trench Spacing (ft): 9 Absorption Area (ft^2): 1500 Total Trench Length (ft): 500

Maximum Trench Depth (in): 30 Depth of Media (in): 12 Distribution Device: Distribution Box

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 Distr

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: Susan Catt
Print Name

Signature: Jeremy Michael REHS Signature: Susan Catt

Date Issued: 6/14/2012

Mecklenburg County Groundwater & Wastewater Services
700 N. Tryon St, Suite 211 Charlotte, NC 28202
Phone: (704) 336-5103 Fax: (704) 336-5894

NC DENR
Division of Environmental Health
On-Site Wastewater Section

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

Permit #: 30006487 GWS File #: 7907B

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- Proper well abandonment is required prior to receiving an Installation Approval from our office to install the septic system.
- 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.
- 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.
- The septic system shall be located at least 10 feet from any foundation drain.

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

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

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael REHS

Date Issued: 8/14/2012

Owner/Legal Agent: Susan Gatt
Print Name

Signature: Susan Gatt

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 #: **30005487** GWS File #: **7907B** Tax Parcel #: **195-022-50**

- 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):** 6/14/2017

Type of Installation: Residential - New System Lot Number: 26

Structure Type: HOUSE Size (ft^2): 3465 # Bedrooms: 5 # Occupants: 2

Building Foundation: Crawl Space Water Supply: Municipal

II. Initial System Type: Approved **System Classification:** IIIg

Initial System Specifications:

Design Flow (gpd):	600	LTAR (gpd/ft^2):	0.2	Septic Tank Size (gal):	1500	Pump Tank Size (gal):	N/A
Trench Width (ft):	3	Trench Spacing (ft):	9	Absorption Area (ft^2):	1500	Total Trench Length (ft):	500
Maximum Trench Depth (in):	30	Depth of Media (in):	12	Distribution Device:	Distribution Box		

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 Michael Owner/Legal Agent: _____
Print Name

Signature: Jeremy Michael REHS Signature: _____

Date Issued: 6/14/2012

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 #: **30005487** GWS File #: **7907B**

IV. Permit Conditions/Comments:

- This type of repair system requires the installation of a pump tank and all associated components. This type of system will require routine inspections by our office. The system owner is responsible for all fees associated with these inspections.
- This type of repair system requires the property owner to obtain a contract with a Certified Operator to perform routine inspections and maintenance on the system.
- Proper well abandonment is required prior to receiving an Installation Approval from our office to install the septic system.
- 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.
- 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.
- The septic system shall be located at least 10 feet from any foundation drain.

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

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

DENR Authorized Agent: Jeremy Michael

Signature: Jeremy Michael REHS

Date Issued: 6/14/2012

Owner/Legal Agent: _____
Print Name

Signature: _____

S&EC

Soil & Environmental Consultants, PA

11010 Raven Ridge Road • Raleigh, North Carolina 27614 • Phone: (919) 846-5900 • Fax: (919) 846-9467
www.SandEC.com

January 25, 2013
S&EC Project # 5-1656s19

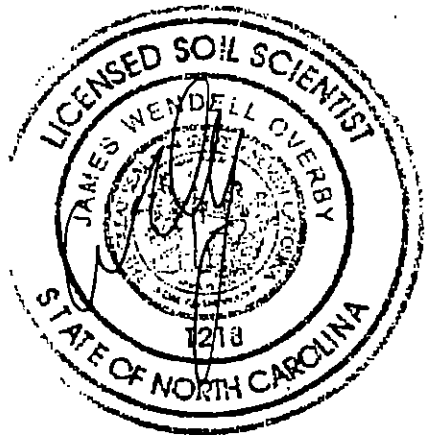
To: Mecklenburg County Groundwater and Wastewater Services
Attn: Eric Bailey
700 N. Tryon Street, Suite 211
Charlotte, NC 28202

Re: **Lot 26 Belle Grove Manor**

Soil & Environmental Consultants, (S&EC) personnel have reviewed the 5-bedroom (600gpd) gravity dosed Quick4 Chamber installation at lot 26 of Belle Grove Manor. Based on our field review we are satisfied the system installation followed our design. We acknowledge the trench depths varied between 24 and 30 inches from the ground surface.

Regards,

Wendell Overby
NC Licensed Soil Scientist



Supervisor/Administrative Professional Checklist

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

New Septic Fees Paid:

IP ($250.00) lws 3/6/12 Initials/Date

CA ($200.00) lws 2/6/13 Initials/Date

OP ($200.00) lws 2/6/13 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 ☑ were reviewed original file lost? SAM

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

Septic file completed. ☐ _____ Well file completed. ☐ _____

Send permit for signature. ☐ Signature received. ☐ 2/1/13

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

Certified operator contract is on file. ☐ _____

Groundwater & Wastewater Services
Septic Project File & Data Review Worksheet

GWS File #: 7907B WASPS App #: 5487

Primary ES assigned to project: Jeremy Michael

Secondary ES assigned to project: Eric Bailey

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 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 ☐ scaled
.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 ☑ Released	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: 1/23/13

OP issued date: 1/28/13

Review performed by: JAM

Date performed: 1/31/2013

App. #: 5487

Septic Fee: 250.00

Date: 3/6/2012

CRT[ ]

PERMIT APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT FOR ONSITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

MECKLENBURG COUNTY HEALTH DEPARTMENT
GROUNDWATER & WASTEWATER SERVICES

FILE # 7907B

Well Fee:

Date:

CRT[ ]

SEPTIC / TYPE APPLICATION: ○ N/A ◉ NEW SYSTEM ○ ALTERATION ○ REPAIR ○ MODIFIED PLOT PLAN

WELL / TYPE APPLICATION: ◉ N/A ○ NEW WELL ○ MAJOR REPAIR ○ ABANDONMENT

JOB LOCATION INFORMATION:

TAX / PARCEL #: 19502250 ☐ PO

STREET ADDRESS: 13226 BELLE GROVE MANOR LN

CITY: Matthews

STATE: NC ZIP: 28105

SUBDIVISION OR MOBILE HOME PARK NAME: Belle Grove Manor

LOT #: 26

TOWNSHIP: 07

General Comments:

BUILDING INFORMATION:

TYPE OF BUILDING:

○ SINGLE MOBILE HOME (S) ○ MODULAR HOME (M)

○ DOUBLE WIDE (D) ○ MULTIPLE FAMILY (U)

◉ HOUSE (H) ○ OTHER

HEATED SQUARE FOOTAGE: 3465

NUMBER OF BEDROOMS: 5

NUMBER OF OCCUPANTS: 2

FOUNDATION FOR RESIDENCE:

☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING

☑ CRAWL SPACE ☐ BASEMENT WITH NO PLUMBING

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

NUMBER OF BEDROOMS TO BE ADDED: 0

NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: 0

WILL THERE BE A HOME BUSINESS IN THE RESIDENCE?: ○ Yes ◉ No

TYPE:

WATER SUPPLY:

☑ MUNICIPAL ☐ PRIVATE WELL ☐ PUBLIC WELL ☐ SHARED WELL ☐ OTHER

PROPOSED USE OF WELL:

◉ N/A ○ IRRIGATION ○ POTABLE (Drinking Water) ○ OTHER

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

☐ N/A ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☐ OTHER

RANK: 0 0 0 0 0

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

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 REQ'RD BY OTHER AGENCY	○ Yes ○ No
EASEMENTS OR RIGHT-OF-	○ Yes ◉ No	WASTEWATER OTHER THAN DOM. SEWAGE	○ Yes ○ No

WAYS			
CHEMICAL/PETROLEUM STORAGE TANKS	○ Yes ◉ No	KNOWN UNDERGROUND CONTAMINATION	○ Yes ◉ No
WASTE STORAGE	○ Yes ◉ No	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ Yes ◉ No

PROPERTY OWNER:		LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:	
NAME:	Essex Homes Southeast Inc	NAME:	
ADDRESS:	13310 South Ridge Dr	ADDRESS:	
CITY:	Charlotte	CITY:	
STATE:	NORTH CAROLINA	STATE:	
ZIP:	28273	ZIP:	
HOME PHONE:		HOME PHONE:	
WORK:	704-423-8988	WORK:	
MOBILE:		MOBILE:	
FAX:	980-225-8990	FAX:	
EMAIL:		EMAIL:	

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? ☐ UNKNOWN

WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? ☐ N/A

PRINT | Update | Go to Front Counter | Duplicate

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	02/06/13	**Amount:**	200.00
Receipt #:	81756	**Tendered:**	200.00
Check / Auth #:	CHECK 2983	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: ESSEX HOMES SOUTHEEAST INC
Attn:
Address: 120 CROMER RD
Address:
City/State/Zip: LEXINGTON, SC 29073

Item	Description	Permit#	Quantity	Unit Price	Total Price
0703	Installation/Final Approval 13226 BELLE GROVE MANOR LN, LOT 26		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
130.00	2,100.00	370.00	10.00	47.15	

Essex Homes Southeast, Inc

MECKSEPT MECKLENBURG CTY-GROUNDWATER &

DATE	INVOICE NO	DESCRIPTION	INVOICE AMOUNT	DEDUCTION	BALANCE
020113		Improvement Permit - BLG 2	400.00		400.00

CHECK DATE	2-01-13	CHECK NUMBER	2983920	TOTAL >	400.00		400.00

PLEASE DETACH AND RETAIN FOR YOUR RECORDS

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	02/06/13	**Amount:**	200.00
Receipt #:	81757	**Tendered:**	200.00
Check / Auth #:	CHECK 2983	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: ESSEX HOMES SOUTHEAST INC
Attn:
Address: 120 CROMER RD
Address:
City/State/Zip: LEXINGTON, SC 29073

Item	Description	Permit#	Quantity	Unit Price	Total Price
0734	Auth for Waste Wtr Sys Constr 13226 BELLE GROVE MANOR LN, LOT 26		1	200.00	200.00

Outstanding Balances

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
130.00	2,100.00	370.00	10.00	47.15	

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	03/06/12	**Amount:**	250.00
Receipt #:	77415	**Tendered:**	250.00
Check / Auth #:	CHECK 2927	**Returned:**	0.00
Received By:	SADERLW		

Account Information

Account #: 200000
Contractor: ESSEX HOMES SOUTHEAST INC
Attn:
Address: 120 CROMER RD
Address:
City/State/Zip: LEXINGTON, SC 29073

Item	Description	Permit#	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 13226 BELLE GROVE MANOR LN		1	250.00	250.00

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
50.00	2,100.00	370.00	10.00	177.15	