

11945 JUMPER DR

19724126

1/9/2008

duponbj

Groundwater and Wastewater Services File Imaging Project

May 2007

Barcode Font = IDAutomationHC39M

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

Sheet: 1 of 3
Property ID: 197-241-26
Lot #: 36
File #: 6243B
AppID:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: NVR,Inc.
Applicant: Kim Stanley
Address: 10815 David Taylor Drive, Suite 100, Charlotte, NC 28262
Date Evaluated: 11/16/2007
Proposed Facility: Residence
Design Flow (.1949): 360 gpd
Property Size:
Location of Site: 11945 Jumper Dr
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1P	LS,10	0-12	COMPACTED	MASSIVE	>59" TO SOIL WETNESS	43	US	N/A	US,IV
		12-43	ABK/SBK/C	FI/S/P/SEXP					.25 GPD/FT^2
		43-59	M/SAP/CL	FI/S/P/SEXP					
2P	"	0-13	COMPACTED	MASSIVE	>63" TO SOIL WETNESS	63	"	"	"
		13-45	ABK/SBK/C	FI/S/P/SEXP					
		45-63	SBK/CL	FR/S/P/SEXP					
3P	"	0-67	FILL	MASSIVE	67" FILL	N/A	"	"	US
4P	"	0-34	FILL	MASSIVE	>52" TO SOIL WETNESS	52	"	"	"
		34-39	GR/CL	FR/SS/SP/SEXP					
		39-52	ABK/SBK/C	FI/S/P/SEXP					
5P	"	0-27	FILL	MASSIVE	2.5Y 7/2 @48"	55	"	"	"
		27-31	ABK/SBK/C	FI/S/P/SEXP					
		31-55	SBK/CL	FR/S/P/SEXP					
					SITE LTAR				.25 GPD/FT^2

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

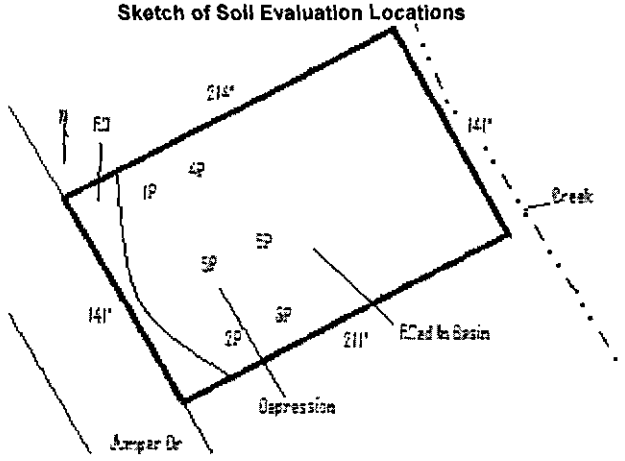
Other Factors (.1946):
Soil Evaluation By: C.Sherrill,RS,LSS
Others Present: K.Randall, B.Martin, T.Whittaker, C.Stevens
Site Classification (.1948):
Site Evaluation By:
Others Present:

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



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

Sheet: 3 of 3
File #: 6243B

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM
CONTINUED

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
6P	LS,10	0-20	FILL	MASSIVE	2.5Y 7/2 @36"	61	N/A	NONE	US
		20-61	ABK/SBK/C	FI/S/P/SEXP					

Pd optional site wed

FILE NUMBER: 6243-B

SEPTIC FEE: 100
DATE: 11/6/07
chk 1226

Revised On: January 3, 2007

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

APPLICATION NUMBER: _____

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: 197-241-26
STREET ADDRESS: 11945 Jumper Dr.
CITY: Mint Hill
STATE: NC ZIP: 28227
SUBDIVISION NAME: Meadows of Mint Hill
LOT #: 36 LOT SIZE (acres): 23,940+
TOWNSHIP:
☐ 3-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: 3600
NUMBER OF BEDROOMS: 3
NUMBER OF OCCUPANTS: 4
FOUNDATION TYPE:
☐ CONCRETE SLAB ☐ BASEMENT WITH PLUMBING
☑ CRAWL SPACE ☐ BASEMENT 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: _____ NUMBER OF ADDITIONAL OCCUPANTS IN THE RESIDENCE: _____

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):

8A. RANK: ☐ ANY TYPE ☐ CONVENTIONAL ☐ ACCEPTED ☐ INNOVATIVE ☐ ALTERNATIVE ☑ OTHER PPBPS

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: Carolina Development of Char. for
NAME: Ryan Homes
ADDRESS: P.O. Box 77173
CITY: Charlotte
STATE: NC ZIP: 28271-7004
HOME PHONE: WORK PHONE:
MOBILE PHONE: 704 634-5710 FAX:

11. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:
NAME: Tim Whittaker
ADDRESS: 111 E. Queensgate St.
CITY: Cornelius,
STATE: NC ZIP: 28054
HOME PHONE: WORK PHONE:
MOBILE PHONE 704 830-6344 FAX:

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

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.

T. Whittaker 10/25/07
Property Owner's or Owner's Legal Representative Signature Date

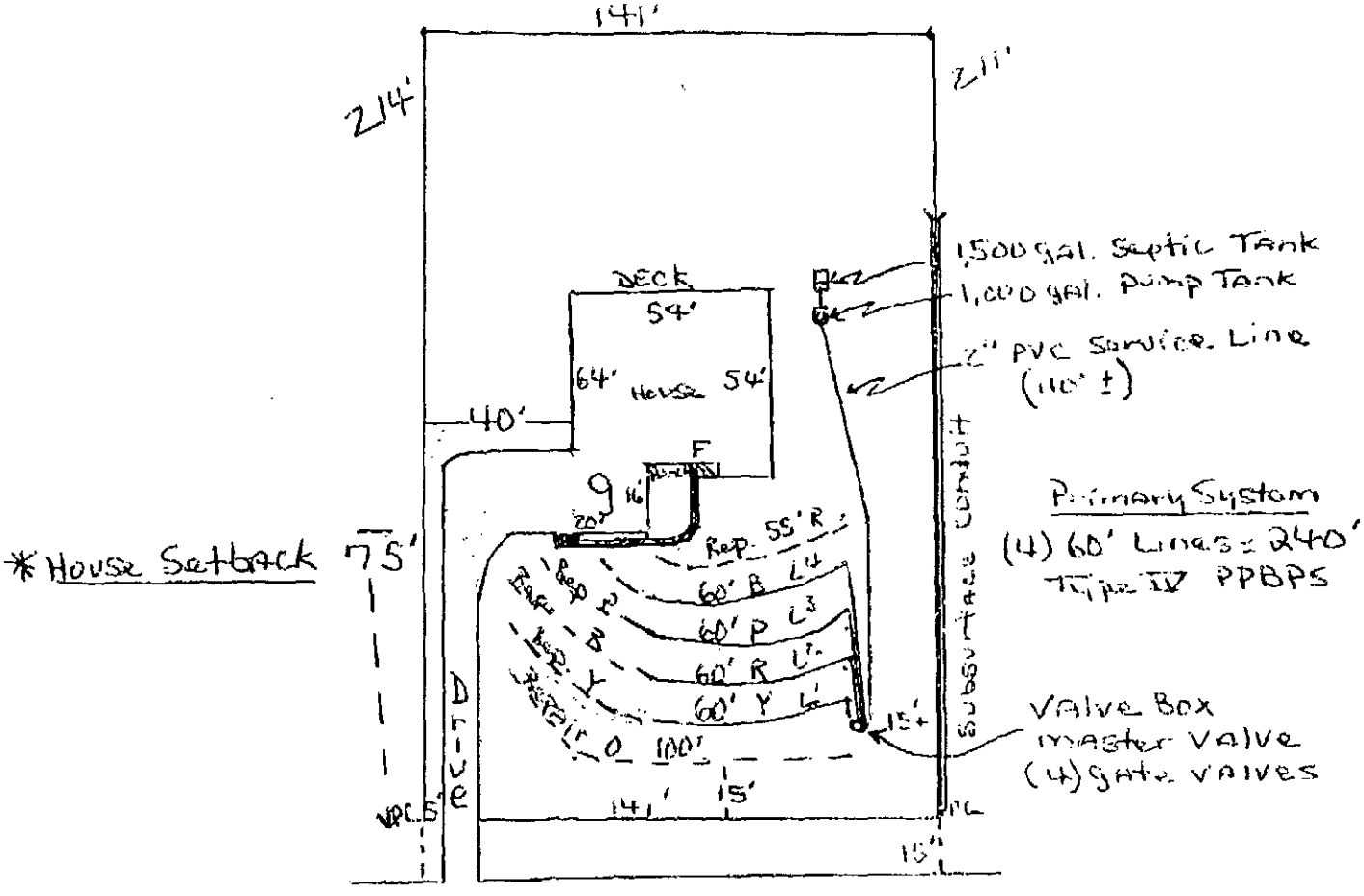
15. WELL PERMIT APPLICATION SIGNATURE SECTION:
If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county 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

G.W.S.
File: 6243-B
Lot 36
Meadows of Mint Hill

(3) Bedrm. Pumped, Type IV, Panel Block
Septic System. Pumped Panel Block
Repair AREA.
Site LTAR .25



11945 Jumper Drive.

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* See PPBPS Design Worksheet.
* Builder Responsible for Staying out of All Restricted Floodlines and Primary/Repair Septic System AREAS.

10/25/07
[illegible]
704 [illegible]-4344
6/50

10/26/2007 15:57 17048669540 TIM WHITTAKER PAGE 04/04

PPBPS Design Worksheet

File #: 6243-B
Tax #: 197-241-26
Address: 11945 Jumper Drive
Consultant: T. Whittaker
Phone: 704 330-4344
Reviewed By
Date

System Requirements

Design Flow	360	gpd
LTAR	.25	gpd/ft^2
Linear footage	480	ft (conventional)
Linear footage	240	ft (50% Reduction)

Design Layout

Laterals	Length (ft)	# Panels	Calculated
Line # 1	60	14	
Line # 2	60	14	
Line # 3	60	14	
Line # 4	60	14	
Line # 5			
Line # 6	270' Repair		
Line # 7	Area Shown		
Line # 8			
Totals	240'	56 panels	

T & J Panels

Linear Feet	# Panels
30	7
40	9
50	11
60	14
70	16

Absorption Area

Length (ft)	Width (ft)	Area (ft^2)
60'	40'	2400

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	.50	gpm	Determined from orifice flow design table (value dependent on pressure head & orifice diameter)
Total System Flow Rate	28	gpm	Total number of panels required multiplied by the orifice flow rate
System Dose Volume	201	gal.	Total number of panels required multipled by 3.6 gal./panel
Pump Run Time	7	min.	System dose volume divided by the total system flow rate
Pump Tank Drawdown	9	in.	1,000 gal. Pump tank, volume is approximately 21 gallons per inch NEMA 4 Box
			1,500 gal. Pump tank, volume is approximately 29 gallons per inch Simtec Filter

Comments:

1. Install system using 3 ft. wide trenches. ✓
2. Install drainlines on 9 ft. centers, level, and on contour. ✓
3. System design requires effluent pump for distribution. ✓
4. 100% repair area (PPBPS) required for properly. ✓

1/4 HP pump

T.W. Whittaker

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	11/06/07	**Amount:**	100.00
Receipt #:	53540	**Tendered:**	100.00
Check / Auth #:	CHECK 1226	**Returned:**	0.00
Received By:	CRAIGGY		

Account Information

Account #: 200000
Contractor: MEADOW, LLC
Attn:
Address: P O BOX 77173
Address:
City/State/Zip: CHARLOTTE, NC 28271

Item	Description	Permit#	Quantity	Unit Price	Total Price
0702	Optional Site Evaluations 11945 JUMPER DR/FILE 6243B		1	100.00	100.00

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

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

MECKLENBURG COUNTY
Health Department

October 26, 2007

NVR, Inc.
10815 David Taylor Drive, Suite 100
Charlotte, NC 28262

Re: Application for improvement permit for
Property Site: 11945 Jumper Drive (Lot 36, Meadows of Mint Hill)
Health Department file number: **6243B**

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on **August 2, 2007** evaluated the above-referenced property at the site designated on the site plan that accompanied your improvement permit application. According to your application the site is to serve a 5-bedroom residence, with a design wastewater flow of 600 gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .1900 and related rules.

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

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

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

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

sewage to another area of suitable soil or off-site to additional property.

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

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

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

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

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is **October 26, 2007**. Meeting the 30-day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you might request. Do not wait for the outcome of any informal review if you wish to file a formal appeal.

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

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

Sincerely,

Chris Sherrill, R.S, L.S.S.
Authorized Agent - DENR

Encl: (2)

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

Sheet: 1 of 3
Property ID: 197-241-26
Lot #: 36
File #: 6243B
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: NVR,Inc.
Applicant: Kim Stanley
Address: 10815 David Taylor Drive, Suite 100, Charlotte, NC 28262
Date Evaluated: 8/2/2007
Proposed Facility: Residence
Design Flow (.1949): 600 gpd
Property Size:
Location of Site: 11945 Jumper Dr
Property Recorded:
Water Supply: [x] Public [ ] Individual [ ] Well [ ] Spring [ ] Other
Evaluation Method: [ ] Auger Boring [x] Pit [ ] Cut
Type of Wastewater: [x] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
1P	LS,10	0-51	FILL	MASSIVE	>90" TO SOIL WETNESS	90+	NA	NONE	US
		51-69	GR/CL	FR/SS/SP/SEXP					
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2P	"	0-72	FILL	MASSIVE	>120" TO SOIL WETNESS	120+	"	"	"
		72-84	GR/CL	FR/SS/SP/SEXP					
		84-120	WK/ABK/SBK/C	FI/S/P/SEXP					
3P	"	0-63	FILL	MASSIVE	>96" TO SOIL WETNESS	96+	"	"	"
		63-72	GR/CL	FR/SS/SP/SEXP					
		72-96	WK/ABK/SBK/C	FI/S/P/SEXP					
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		39-53	GR/CL	FR/SS/SP/SEXP					
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Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)		
Site LTAR		

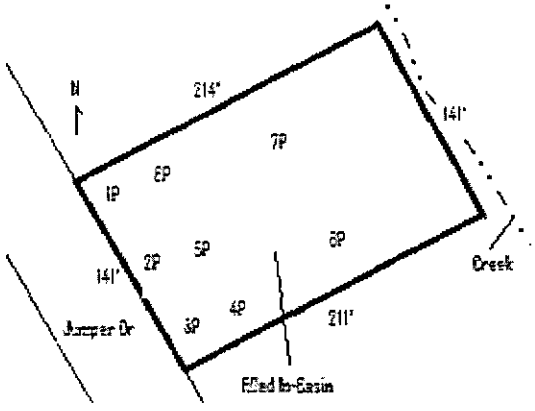
Other Factors (.1946): None
Soil Evaluation By: Chris Sherrill, RS, LSS
Others Present: C.Stephens, T.Whittaker
Site Classification (.1948):
Site Evaluation By:
Others Present:

COMMENTS: 100% Repair Area Required FILE #: 6243B

Landscape Position	Group	Texture	.1955 LTAR	Structure
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Sketch of Soil Evaluation Locations



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

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		56-67	M/SAP/CL	FI/S/P/SEXP					
6P	"	0-24	FILL	MASSIVE	>86" TO SOIL WETNESS	70	"	"	US,IV
		24-41	GR/CL	FR/SS/SP/SEXP					.25 GPD/FT^2
		41-70	WK/ABK/SBK/C	FI/S/P/SEXP					
		70-86	M/SAP/CL	FI/S/P/SEXP					
7P	LS,5	0-2	COMPACTED	MASSIVE	>56" TO SOIL WETNESS	32	"	"	US,III
		2-32	GR/CL	FR/SS/SP/SEXP					.25 GPD/FT^2
		32-56	M/SAP/CL	FI/S/P/SEXP					
8P	"	0-24	FILL	MASSIVE	10YR 7/1 @52"	56+	NA	"	US,IV
		24-36	GR/CL	FR/SS/SP/SEXP					.25 GPD/FT^2
		36-56	WK/SBK/ABK/C	FI/S/P/SEXP					

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

10000 optional site eval 10/27/06 JKA

Sheet: 1 of 2
Property ID: 197-241-26
Lot #: 36
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Code: 3

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1	LS,10	0-30	COMPACTED	FILL	>68" TO SOIL WETNESS	68	NA	NA	US
		30-68	SBK/C	FI/S/P/SEXP					
2	"	0-46	COMPACTED	FILL	>66" TO SOIL WETNESS	66	"	"	"
		46-56	SBK/CL	FR/SS/SP/SEXP					
		56-66	SBK/C	FI/S/P/SEXP					
3	"	0-25	COMPACTED	FILL	"	"	"	"	"
		25-42	SBK/CL	FR/SS/SP/SEXP					
		42-66	ABK/SBK/C	FI/S/P/SEXP					

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

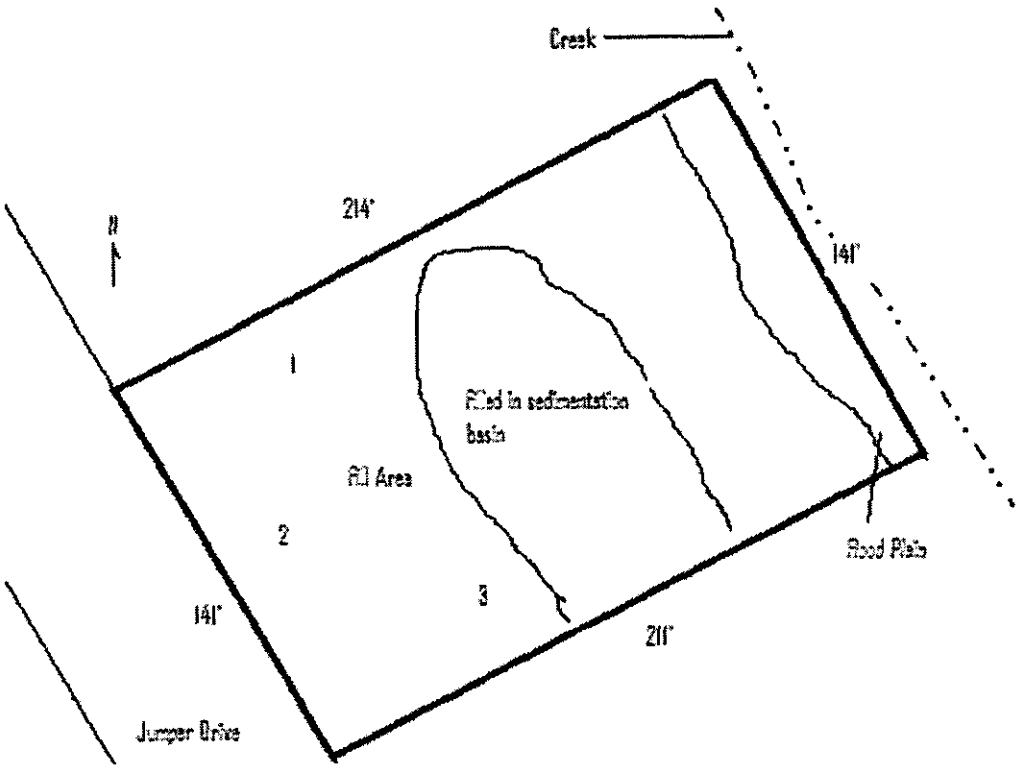
Other Factors (.1946):
Site Classification (.1948): Unsuitable
Evaluated By: Chris Sherrill, RS, LSS 10/27/06
Others Present: Bill Marlin, LSS

COMMENTS: 100% Repair Area Required

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-Food 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



DEPARTMENT OF ENVIRONMENT,
HEALTH & NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

SHEET 1 OF 1

COUNTY: Mecklenburg
PROPERTY I.D. #
TAX #:

SUBDIVISION: The Meadows Lots 37, 36 & 35
SECTION/PHASE:

10/25/06 37-1 37-2 36-3 36-4 36-5 PROFILES 35-6 35-7 35-8

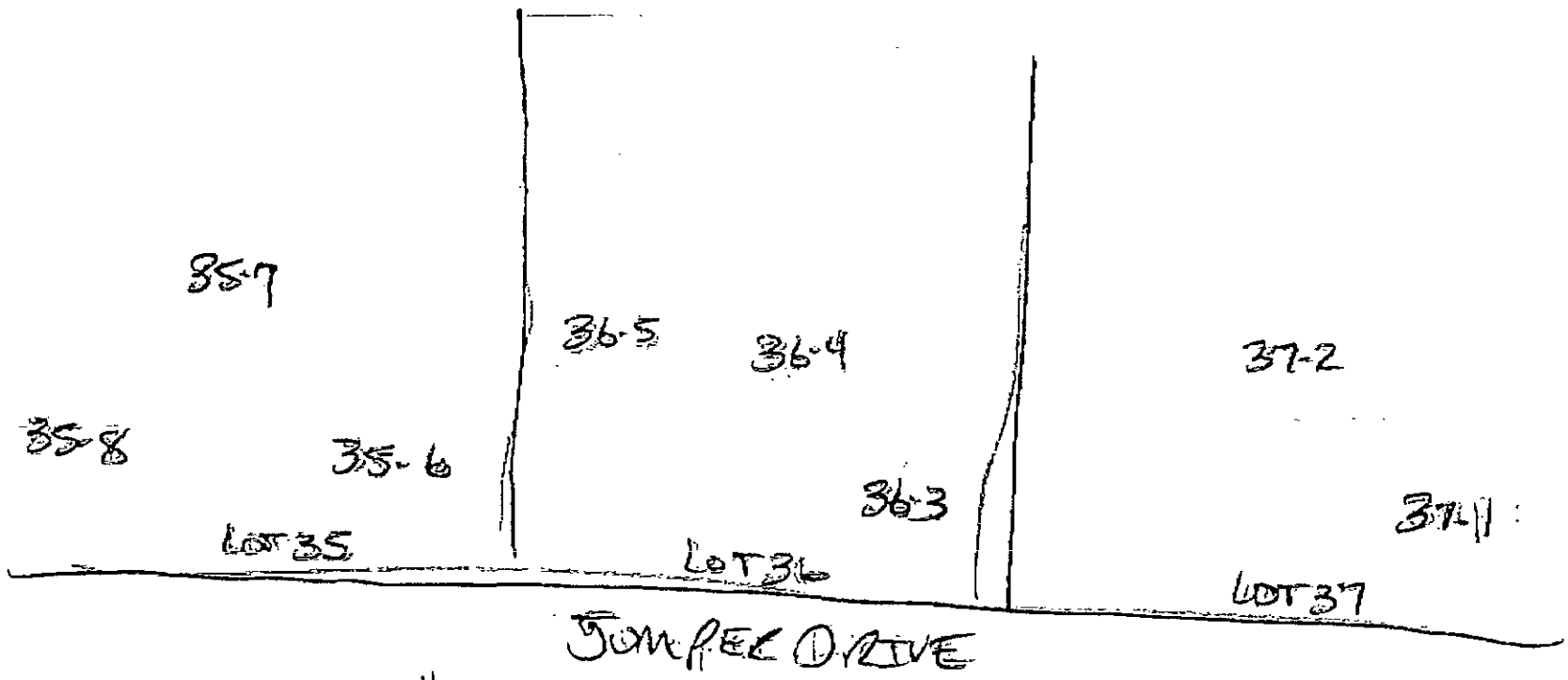
FACTORS		1	2	3	4	5	6	7	8	9	10
LANDSCAPE POSITION	.1940										
SLOPE (%)	.1940										
HORIZON 1 DEPTH	.1943	0-8	0-17	0-60	0-42	0-24	0-46	0-26	0-8		
TEXTURE	.1941 (a)(1)	scl	FILL	FILL	FILL	FILL	FILL	FILL	scl		
CONSISTENCE	.1941	VFR*							fr*		
STRUCTURE	.1941 (a)(2)	PL→GR							gr		
CLAY MINERALOGY	.1941 (a)(3)	S									
HORIZON 2 DEPTH	.1943	8-19	17-24			24-35	40-51	26-30	8-16		
TEXTURE	.1941 (a)(1)	cl	scl			sil	scl	scl	scl		
CONSISTENCE	.1941	fi	FI			fr	fr	fi*	fr		
STRUCTURE	.1941 (a)(2)	a-sbk	GR			gr	gr	sbk	sbk		
CLAY MINERALOGY	.1941 (a)(3)	S	S								
HORIZON 3 DEPTH	.1943	19-30	24-33			35-60	51-74	30-46	16-32		
TEXTURE	.1941 (a)(1)	cl	cl			cl	cl	scl	cl		
CONSISTENCE	.1941	fr	fi			fr	fi	fr	fr		
STRUCTURE	.1941 (a)(2)	a-sbk	sbk			sbk	sbk	sbk	sbk		
CLAY MINERALOGY	.1941 (a)(3)										
HORIZON 4 DEPTH	.1943	30-60+	33-61		Auger→		74-100	46-66+	32-46		
TEXTURE	.1941 (a)(1)	l	cl				cl	scl	cl		
CONSISTENCE	.1941	FR	fi				fi	fi	fi		
STRUCTURE	.1941 (a)(2)	M	a-sbk				sbk	a-sbk	a-sbk		
CLAY MINERALOGY	.1941 (a)(3)	S									
SOIL WETNESS	.1942								46-61+		
RESTRICTIVE HORIZON	.1944										
SAPROLITE	.1943/.1956	30"	61+ sk			60+	100+		cl		
CLASSIFICATION	.1948								fi		
L. T. A. R. (gpd/ft2)	.1955								sbk		

OTHER FACTORS (.1946):	SITE LTAR (gpd/ft2):
AVAILABLE SPACE (.1945):	
SITE CLASSIFICATION (.1948):	SYSTEM TYPE:
EVALUATED BY: M. WOOD, L. THOMPSON	OTHERS PRESENT:

COMMENTS: 37-1 0-8 STRONGLY COMPACTED
35-7 ORIGINAL A HORIZON REMOVED
35-8 0-8 WEAKLY COMPACTED
Recommend additional Fill removal on lot 35

LOT #

NOV. 3.2006 10:28AM NC DOT NO.376 P.3



"THE MEADOWS"

MECKLENBURG COUNTY
Health Department

December 29, 2005

NVR, Inc.
10815 David Taylor Drive, Suite 100
Charlotte, NC 28262

Re: Application for improvement permit for
Property Site: Lot 36, Meadows of Mint Hill
Health Department file number: **6243B**

Dear Property Owner or Owner's Agent:

The Mecklenburg County Health Department, Environmental Health Division on **December 21, 2005** evaluated the above-referenced property at the site designated on the site plan that accompanied your improvement permit application. According to your application the site is to serve a 5-bedroom residence, with a design wastewater flow of 600 gallons per day. The evaluation was done in accordance with the laws and rules governing wastewater systems in North Carolina General Statute 130A-333 and related statutes and Title 15A, Subchapter 18A, of the North Carolina Administrative Code, Rule .1900 and related rules.

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

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

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

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

sewage to another area of suitable soil or off-site to additional property.

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

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

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

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

Please note: If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is **December 29, 2005**. Meeting the 30-day deadline is critical to your right to a formal appeal. Beginning a formal appeal within 30 days will not interfere with any informal review that you might request. Do not wait for the outcome of any informal review if you wish to file a formal appeal.

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

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

Sincerely,

Chris Sherrill, R.S, L.S.S.
Authorized Agent - DENR

Encl: (2)

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

AES

Sheet: 1 OF 2
Property ID: 197-241-26
Lot #: 36
File #: 6243B
Code: 3

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: NVR, INC
Applicant: KIM STANLEY
Address: 10815 DAVID TAYLOR DRIVE, SUITE 100, CHARLOTTE, NC 28262
Date Evaluated: 12/21/05
Proposed Facility: 5 BR
Design Flow (.1949): 600 GPD
Property Size: 1
Location of Site: 11945 JUMPER DRIVE, MINT HILL, NC 28227
Property Recorded: YES
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	OTHER PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	* Profile Class & LTAR
	LS, 12	0-22	SBK/CL	FR/SS/SP/SEXP	13" 10YR 7/2	>22"	NA	NA	U NA
	"	0-14	SBK/CL	FR/SS/SP/SEXP	10" 10YR 7/2	>14"	"	"	"

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

Other Factors (.1946): NONE
Site Classification (.1948): UNSUITABLE
Evaluated By: CHRIS SHERRILL, RS, LSS
Others Present: NONE

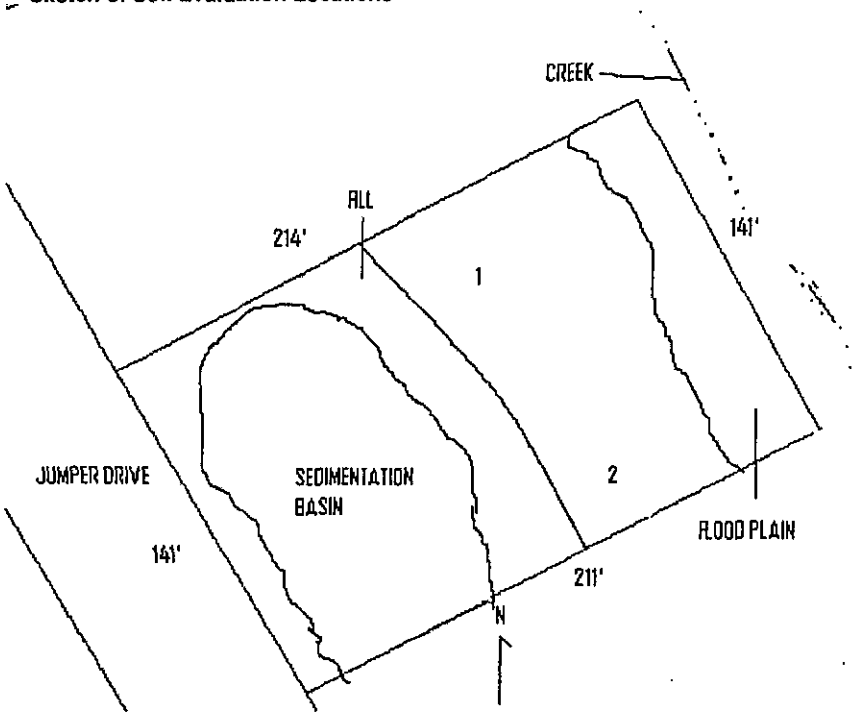
12-29-05

COMMENTS: 100% REPAIR AREA

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-Food 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



or cert
00 X33575

$100 optional site ch 14 04 107 12 9 C

GWS – RES. APP 12/04

SEPTIC FEE: 200.00
DATE: 12/1/05
CRT [ ] 9C

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 # 624BB

SEPTIC / TYPE APPLICATION: ☐ NONE ☒ NEW SYSTEM EXISTING SYSTEM ☐ EXPANSION/ALTERATION ☐ REPAIR

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

JOB LOCATION INFORMATION: 26
TAX/PARCEL #: 19724 1[illegible]
STREET ADDRESS: 1945 Jumper Dr.
CITY: Mint Hill
STATE: NC ZIP:
SUBDIVISION OR MOBILE HOME PARK NAME: The Meadows of Mint Hill
LOT #: 36
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: 3,500
NUMBER OF BEDROOMS: 5
NUMBER OF OCCUPANTS: 4

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: NVR, INC.
ADDRESS: 10815 David Taylor Dr., Ste 100
CITY: Charlotte
STATE: NC ZIP: 28262
HOME PHONE: WORK PHONE: 704-548-3534
MOBILE PHONE: FAX:

LEGAL AGENT FOR PROPERTY OWNER, IF APPLICABLE:
NAME: Kim Stanley
ADDRESS: PO Box 176
CITY: Stanfield
STATE: NC ZIP: 28163
HOME PHONE: 704-792-9639 WORK PHONE:
MOBILE PHONE: 704-791-6852 FAX: 704-785-8721

WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 10/5/05
WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? Feb - 2006

*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.

Kim Stanley 11/28/05
Owner's/Agent's Signature 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: 704-336-6694

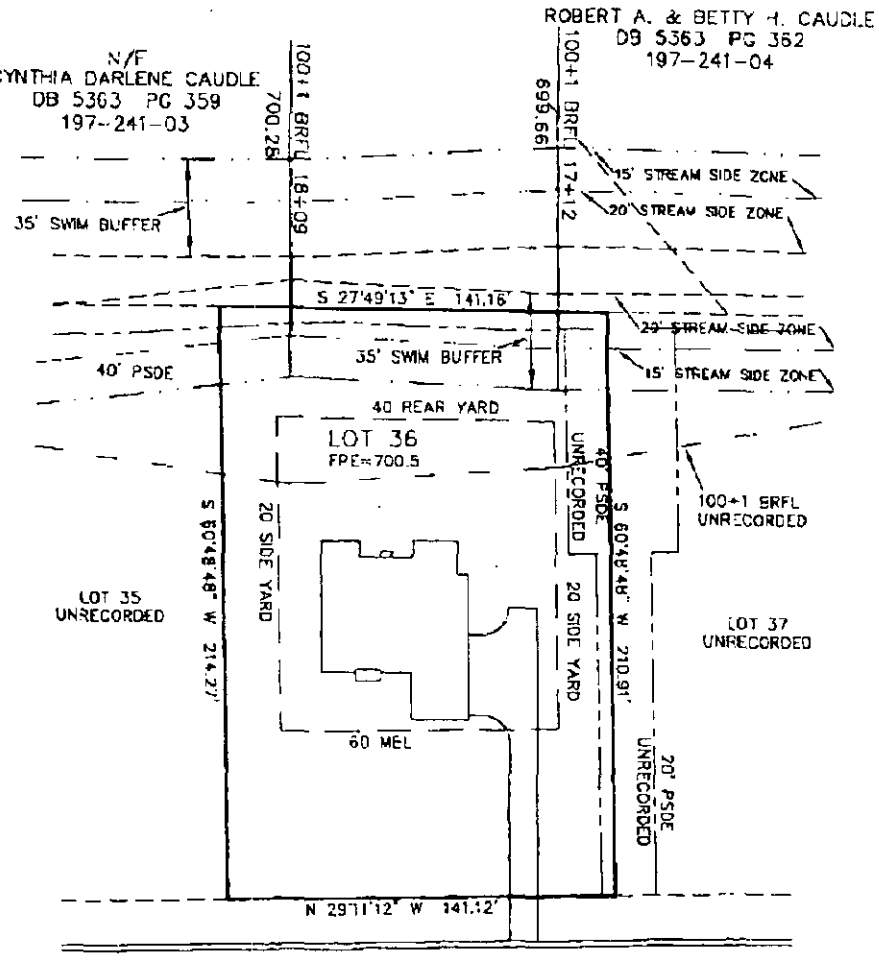
6243B

PROPOSED MODEL FIT

PREPARED BY:

DELTA LAND SERVICES, INC.
6033 FLORENCE AVENUE, SUITE 100
CHARLOTTE, NORTH CAROLINA 28212
(704) 536-6160

SCALE: 1" = 50'



NOTE: DELTA LAND SERVICES IS NOT RESPONSIBLE FOR ANY CHANGES DUE TO UNRECORDED COVENANTS AND RESTRICTIONS AND UNRECORDED PLAT

ESTIMATED DRIVEWAY AREA = 1578.4 SQ.FT.±

STAKEOUT ☐

NOT FOR RECORDATION, CONVEYANCES OR SALES

Subdivision MEADOWS AT MINT HIL (UNRECORDED) County MECKLENBURG
Address _____ Owner RYAN HOMES
Lot 36 Block ___ Plan AVALON Elevation C Drive (Left) ___ (Right) X (Courtyard) ___ Deck ___
Patio ___ Fireplace REAR Garage (1 Car) ___ (2 Car) ___ (3 Car) X Brick FRONT Basement X Curtain Wall ___
Crawl ___ Slab ___ Other SUN & MORNING ROOM

REVISED: DWN: EHD CKD: DATE: 10 / 22 / 05

C:\MEADOWS\SITE.DWG - EHD

SUPERVISOR/ADMINISTRATIVE PROFESSIONAL CHECKLIST

☑ NEW SEPTIC ☐ REPAIR ☐ USE EXISTING ☐ MODIFIED PLOT PLAN ☐ ALTERATION

File Number: 6243B

Assigned Inspector: Bryan

☑ IP $250.00: 2/20/24 LP Initial/Date

☐ IP Commercial $450.00: _____ Initial/Date

☐ CA & OP $400.00: _____ Initial/Date

☐ Alteration Fees $300: _____ Initial/Date

☐ Modified Plot Plan Fees $100.00: _____ Initial/Date

☐ Use Existing Fees $100.00: _____ Initial/Date

☐ Use Existing Approved ☐ Use Existing Denied

☐ Send IP permit for signature: _____ ☐ Signature received: _____

☐ Floor plans reviewed

☐ Generate CA ☐ Approve as Noted in Winchester

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

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

☐ Certified operator contract is on file: _____

☐ Septic file complete: _____

☐ Release final hold in Winchester: _____

Comments: Permit Denied due to soil

Please mail denial to Hal.

dotloop signature verification: dtlp.us/0915-SMQM-2x19

6243B
#144169

MECKLENBURG COUNTY
HEALTH DEPARTMENT

APPLICATION FOR A RESIDENTIAL SITE IMPROVEMENT PERMIT/ CONSTRUCTION AUTHORIZATION FOR AN ON-SITE WASTEWATER SYSTEM, NEW WELL INSTALLATION, OR REPAIR OF EXISTING WELL

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

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

3. JOB LOCATION INFORMATION:

TAX PARCEL NUMBER: 197-241-26
STREET ADDRESS: 11945 Jumper DR
CITY: Mint Hill
STATE: NC **ZIP:** 28227
SUBDIVISION NAME: Meadows of Mint Hill
LOT #: 36 **LOT SIZE (acres):** .69

TOWNSHIP:
◉ MECKLENBURG ○ CORNELIUS ○ HUNTERSVILLE
○ DAVIDSON ○ CHARLOTTE ○ PINEVILLE
○ MATTHEWS ○ MINT HILL

4. BUILDING INFORMATION:

BUILDING TYPE:
◉ SINGLE MOBILE HOME ○ MODULAR HOME
○ DOUBLE WIDE ○ MULTIPLE FAMILY
○ HOUSE ○ OTHER _____

HEATED SQUARE FOOTAGE: _____
NUMBER OF BEDROOMS: 4
NUMBER OF OCCUPANTS: _____

FOUNDATION TYPE:
○ CONCRETE SLAB ○ BASEMENT WITH PLUMBING
◉ CRAWL SPACE ○ BASEMENT WITH NO PLUMBING

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

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

6. WATER SUPPLY: ◉ MUNICIPAL ○ PRIVATE WELL ○ PUBLIC WELL ○ SHARED WELL ○ OTHER _____

7. PROPOSED USE OF WELL: ◉ N/A ○ IRRIGATION ○ POTABLE (DRINKING WATER) ○ OTHER _____

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

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

8A. RANK: 1 4 3 2 ____

9. DO ANY OF THE FOLLOWING APPLY TO THE PROPERTY IN QUESTION? IF "YES" PLEASE ATTACH SUPPORTING DOCUMENTATION.

BURIED CABLES, LANDFILLS, STUMPHOLES	○ YES ◉ NO	GRADING/SOIL REMOVAL PERFORMED	○ YES ◉ NO
EXISTING WASTEWATER (SEPTIC) SYSTEMS	○ YES ◉ NO	JURISDICTIONAL WETLANDS	○ YES ◉ NO
WELLS, SPRINGS, OR WATER LINES	○ YES ◉ NO	APPROVAL REQUIRED BY ANY OTHER PUBLIC AGENCY	○ YES ◉ NO
EASEMENTS OR RIGHT-OF-WAYS	○ YES ◉ NO	WASTEWATER OTHER THAN DOMESTIC SEWAGE	○ YES ◉ NO
CHEMICAL/PETROLEUM STORAGE TANKS	○ YES ○ NO	KNOWN UNDERGROUND CONTAMINATION	○ YES ◉ NO
WASTE STORAGE	○ YES ◉ NO	GROUNDWATER USE RESTRICTIONS/VARIANCES	○ YES ◉ NO

10. WHAT DATE WAS THE PROPERTY ORIGINALLY DEEDED AND RECORDED? 2005? ☑ UNKNOWN

11. WHAT IS THE ANTICIPATED CLOSING DATE FOR THIS PROPERTY? 3/15/24 ☐ N/A

12. PROPERTY OWNER:

NAME: Charles Stevens
ADDRESS: 11945 Jumper DR
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: _____
MOBILE PHONE: _____
FAX: _____
E-MAIL: _____

13. OWNER'S LEGAL REPRESENTATIVE, IF APPLICABLE:

Owner's Authorization form is required if legal representative is submitting application

NAME: Valeriy Solodyankin
ADDRESS: 12917 Helena Circle
CITY: Mint Hill
STATE: NC ZIP: 28227
WORK PHONE: _____
MOBILE PHONE: 704.222.5226
FAX: _____
E-MAIL: valeriysolo@gmail.com

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Drive, Suite 8000, Charlotte, NC 28208
OFFICE: 980-314-1680, FAX: 704-336-6894 Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17

dotloop signature verification: dtlp.us/0915-5MQM-2x19

14. SEPTIC SYSTEM PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Improvement Permit and Authorization to Construct shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed. The permit is valid for e[illegible]60) months or is non-expiring depending upon the documentation submitted: complete site plan = 60 months, complete plat = non-expiring.

VS 02/20/24 2:24 PM EST dotloop verified (Initial here for septic system applications)

15. WELL PERMIT APPLICATION:

If the information in this application is falsified, changed, or the site is altered, then the Well Permit shall become invalid. I have read this application and certify that the information provided herein is true, complete and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and mak[illegible] accessible so that a complete site evaluation can be performed. The permit is valid for a period of twelve (12) months from the date of issu[illegible]

VS 02/20/24 2:24 PM EST dotloop verified (Initial here for well applications)

16. APPLICATION SIGNATURE SECTION:

ONLY COMPLETE APPLICATIONS WILL BE PROCESSED. A proper signature is required in order to process your application. Please review the application carefully and sign in the space provided below. A PROPOSED PLOT PLAN is required to be submitted with each application.

Valeriy Solodyankin dotloop verified 02/20/24 2:24 PM EST LPJA-AFNL-FVID-SDB7

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

OFFICE USE ONLY

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

SEPTIC APPLICATION FEE RECEIVED: $ _____ DATE FEE RECEIVED: _____

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

APPLICATION PROCESSED BY: _____

GWS FILE NUMBER ASSIGNED: _____

APPLICATION ID NUMBER ASSIGNED: _____

COMMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Drive, Suite 8000, Charlotte, NC 28208
OFFICE: 980-314-1680, FAX: 704-336-6894 Email: Wellreg@MecklenburgCountyNC.gov

dotloop signature verification: dtlp.us/0915-SMQM-2x19

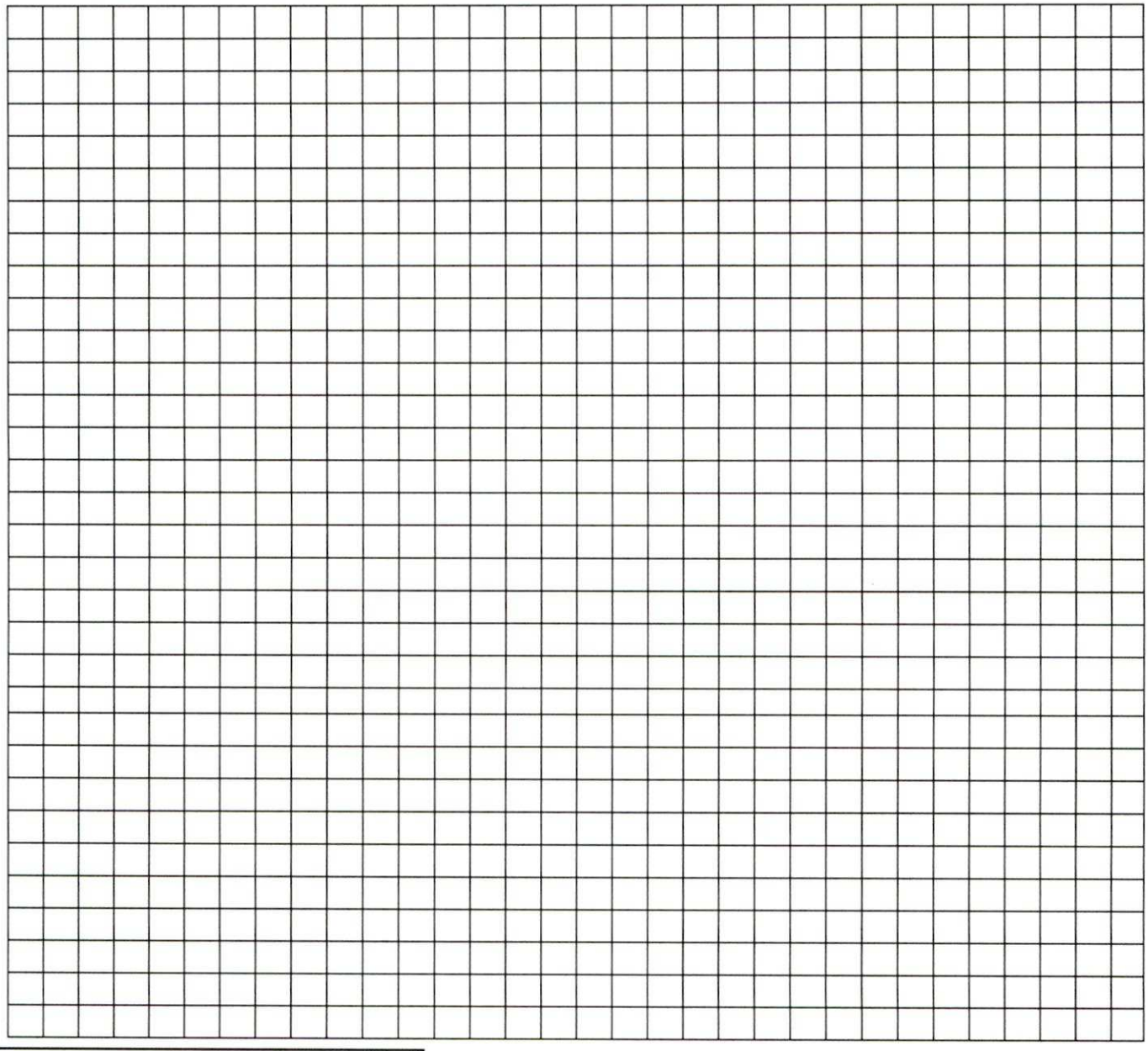
File #: _____

PROPOSED PLOT PLAN

A drawing showing the locations of the following items is required: existing and proposed property lines with dimensions, easements or right-of-ways, proposed building pad(s) or existing building footprint(s), all appurtenances (garage, driveway, deck, pool, etc.), location of existing or proposed well(s), location of existing or proposed sewer lines and sewage disposal systems, surface water bodies, and any aboveground or underground storage tanks. Provide names for all roads that adjoin the property.

Street Address: 11945 Jumper DR Mint Hill NC 28227 Tax Parcel #: 197-241-26

Subdivision Name: Meadows of Mint Hill Lot #: 36



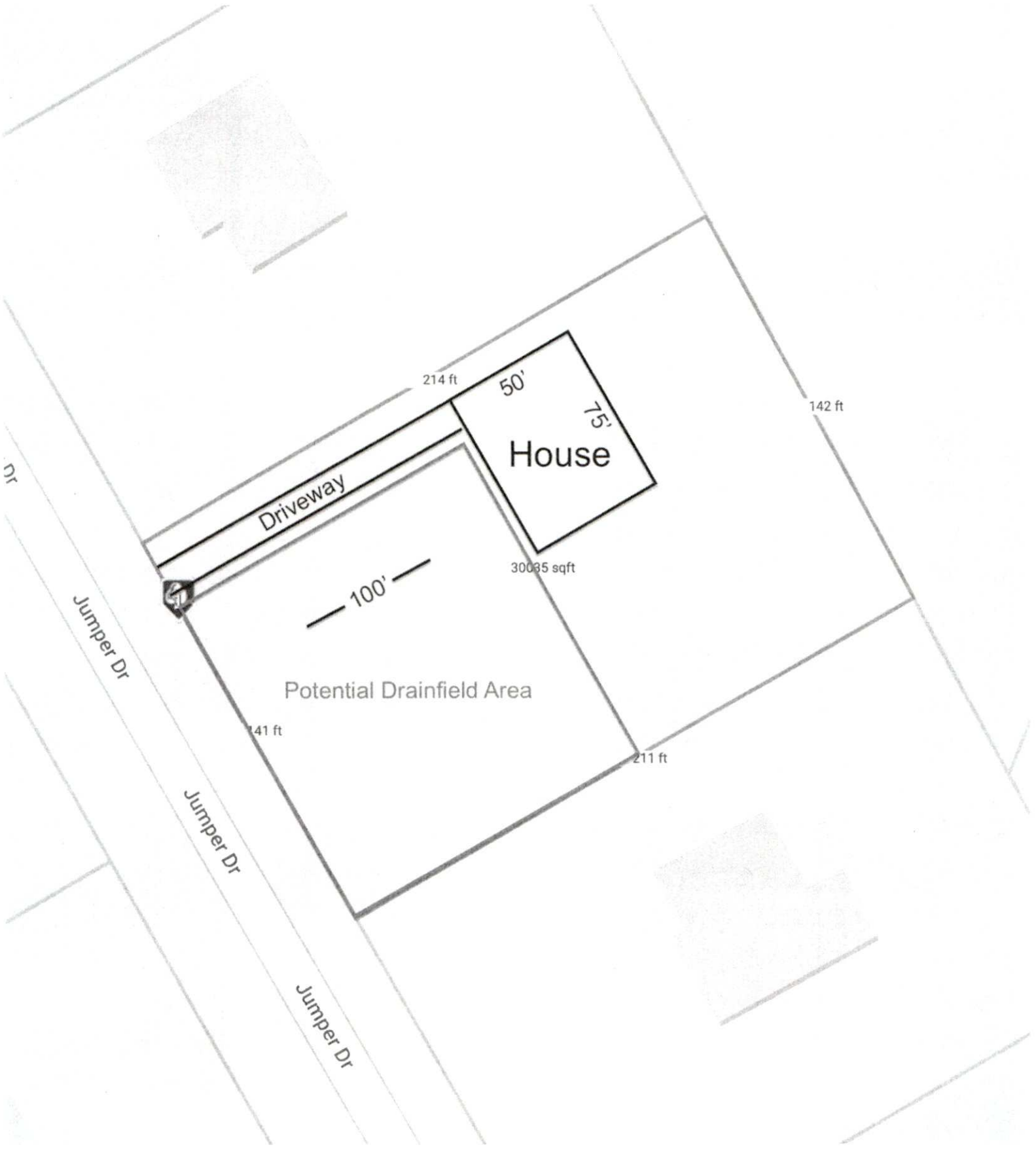
Valeriy Solodyankin dotloop verified 02/20/24 2:24 PM EST 4LCG-MECS-ELRE-J9RM

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

MECKLENBURG COUNTY – GROUNDWATER & WASTEWATER SERVICES
3205 Freedom Drive, Suite 8000, Charlotte, NC 28208
OFFICE: 980-314-1680, FAX: 704-336-6894 Email: Wellreg@MecklenburgCountyNC.gov

Revised on: 4/20/17

dotloop signature verification: dtlp.us/09IS-SMQM-2×19



dotloop signature verification: dtlp.us/XigD-8qwb-7OKI

MECKLENBURG COUNTY
North Carolina
Public Health

Mecklenburg County Public Health

Raynard Washington, PhD, MPH
Health Director

Addendum to Application for
New Well or Septic System Installation
Abandonment or Repair of Existing Well or Septic System

Your signature below confirms the following:

1.The information on the application is true, complete and accurate.

2. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliances with applicable laws and rules.

3.I acknowledge that Valeriy Solodyankin is acting as my legal representative(agent) in the submittal of the application for a water supply well or septic permit located at

11945 Jumper DR Mint Hill 28227

Number Street Town
(Or Parcel Number)

Charles Stevens
Property Owner (Print Name)

Charles Stevens
dotloop verified
02/21/24 1:49 PM EST
IQ6E-JYLM-H5BY-FJOK
Property Owner (Signature)

2/21/24
Date

MECKLENBURG COUNTY
LAND USE AND ENVIRONMENTAL SERVICES
Payment Receipt

Receipt Information

Date:	02/20/24	**Amount:**	250.00
Receipt #:	146884	**Tendered:**	250.00
Check / Auth #:	VISA 345525	**Returned:**	0.00
Received By:	PLACILJ		

Account Information

Account #:	200000
Contractor:	VALERIY SOLODYANKIN
Attn:	
Address:	12917 HELENA CR
Address:	
City/State/Zip:	MINT HILL, NC 28227

Item	Description	Quantity	Unit Price	Total Price
0701	Improvment Permit App-Residen 11945 JUMPER DR	1	250.00	250.00

Permit#

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

Month-To-Date	Prior Month	30 Days	60 Days	90 Days	Balance
622.50	650.00			555.00	

MECKLENBURG COUNTY
North Carolina
Public Health

Mecklenburg County Public Health

Raynard Washington, PhD, MPH
Health Director

IMPROVEMENT PERMIT DENIAL

April 3, 2024

Valeriy Solodyankin
12917 Helena Circle
Charlotte, NC 28227

Re: Application for improvement Permit for property located at 11945 Jumper Dr, 197-241-26,

Health Department file # 6243B

To Whom It May Concern:

The Mecklenburg County Health Department, Environmental Health Division, on 03/22/24 evaluated the above-referenced property at the site designated on the plat/site plan that accompanied your Improvement Permit application. According to your application the site is to serve a 4-bedroom residence with a design wastewater flow of 480 gallons per day. The evaluation was done in accordance with the laws and rules governing on-site wastewater systems in General Statutes 130A-333 to 345 and 15A NCAC 18E.

Based on the criteria set out in 15A NCAC 18E .0501 through .0602, the evaluation indicated that the site is **UNSUITABLE** for an on-site wastewater system. Therefore, we must deny your request for an Improvement Permit. A copy of the site evaluation is enclosed. The site is unsuitable based on the following:

- ☐ Unsuitable soil topography and/or landscape position (Rule .0502)
- ☒ Unsuitable soil characteristics (structure or clay mineralogy) (Rule .0503)
- ☒ Unsuitable soil wetness condition (Rule .0504)
- ☐ Unsuitable soil depth (Rule .0505)
- ☐ Unsuitable saprolite (Rule .0506)
- ☐ Presence of restrictive horizon (Rule .0507)
- ☒ Insufficient space for septic system and repair area (Rule .0508)
- ☐ Unsuitable for meeting required setbacks (Rule .0601 or .0602)
- ☐ Other (*Cite applicable rule*):_____

_____

_____

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

The site evaluation included consideration of possible site modifications, as well as use of all possible systems approved under 15A NCAC 18E. However, the Health Department has determined that none of the above options will overcome the severe conditions on this site. A possible option might be a system designed to dispose of sewage to another area of suitable soil such as off-site to additional property.

For the reasons set out above, the property is currently classified UNSUITABLE, and no Improvement Permit shall be issued for this site in accordance with Rule .0509(a) and (d).

MECKLENBURG COUNTY
North Carolina
Public Health

Mecklenburg County Public Health

Raynard Washington, PhD, MPH
Health Director

A site classified as UNSUITABLE may be classified as SUITABLE if written documentation is provided that meets the requirements of Rule .0509(b) or (c). A copy of this rule is enclosed. You may hire a consultant to assist you if you wish to try to develop a plan under which your site could be reclassified as SUITABLE.

You have a right to an informal review of this decision. You may request an informal review by the soil scientist or environmental health supervisor at the local health department. You may also request an informal review by the Department of Health and Human Services' Regional Soil Scientist. A request for informal review must be made in writing to the local health department.

You also have a right to a formal appeal of this decision. To pursue a formal appeal, you must file a petition for a contested case hearing with the Office of Administrative Hearings, 1711 New Hope Church Rd, Raleigh, NC 27609. To get a copy of a petition form, you may write the Office of Administrative Hearings, call the office at 984-236-1850, or download it from the OAH web site at http://www.oah.nc.gov. The petition for a contested case hearing must be filed in accordance with the provision of General Statutes 130A-24 and 150B-23 and all other applicable provisions of Chapter 150B. General Statute 130A-335(g) provides that your hearing will be held in the county where your property is located.

If you wish to pursue a formal appeal, you must file the petition form with the Office of Administrative Hearings **WITHIN 30 DAYS OF THE DATE OF THIS LETTER.** The date of this letter is 04/3/24. Meeting the 30-day deadline is critical to your formal appeal.

If you file a petition for a contested case hearing with the Office of Administrative Hearings, **you are required** by General Statute 150B-23 to serve a copy of your petition on the Registered Agent for the Department of Health and Human Services: Julie Cronin, Office of General Counsel, Department of Health and Human Services, 2001 Mail Service Center, Raleigh, N.C. 27699-2001.

Do not serve the petition on your local health department. Sending a copy of your petition to the local health department will not satisfy the legal requirement in General Statute 150B-23 that you send a copy to the Office of General Counsel, Department of Health and Human Services.

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

Sincerely,

Bryan Davenport

Bryan Davenport, REHS
Environmental Health Specialist
Groundwater & Wastewater Services | Public Health
Mecklenburg County Government
704-512-9831 | MeckNC.Gov

Enclosures: *(Enclose copy of Rule .0502 & .0508)*

Department of Health and Human Services
Environmental Health Section
On-site Water Protection Branch

Property ID: 19724126
Lot #: 36
File #: 6243B
AppID: 14469

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Charles Stevens
Applicant: Representative - Valeriy Solodyankin
Address: 11945 Jumper Dr.
Date Evaluated: 3/22/2024
Proposed Facility: 4 BR SFR
Design Flow (.0400): 480 GPD
Property Size: 0.69
Location of Site: See file
Property Recorded: After Jan. 1, 1983
Water Supply: [X] Public [ ] Single Family Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Domestic [ ] Industrial Process [ ] High Strength

PROFILE #	.0502 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .0503 Structure/ Texture	SOIL MORPHOLOGY .0503 Consistence/ Mineralogy	PROFILE FACTORS .0504 Soil Wetness/ Color	.0505 Soil Depth (IN.)	.0506 Sapro Class	.0507 Restr Horiz	General Comments/ Other	0.0509 Profile Class & LTAR	0.0502 Slope Correction (Max Trench Depth)
1	CC Depression 2 - 4%	0 - 40	Fill soil	materials	N/A	N/A	N/A	N/A	See comments at bottom of form.	US	N/A
		40	Boring	terminated							
2	CC Depression 2 - 4%	0 - 42	Fill soil	materials	N/A	N/A	N/A	N/A	See comments at bottom of form.	US	N/A
		42	Boring	terminated							
3	FS near a fluvial terrace ~8%	0 - 24	Wk, Sbk, CL	Fr, SS, SP, SEXP	C-M: Y/B Mottles & Black Mn concen. starting @ 4" C-M: Chroma 2 mottles @ 18"	N/A	N/A	N/A	---	US @ 18"	N/A
		24 - 40	Wk to Mass. CL	Fr-Fi, SS, SP							
		40	Boring	terminated							

Description	Initial System	Repair System
Available Space (.0508)	---	---
System Type(s)	---	---
Site LTAR	US	US
Maximum Trench Depth		

Soil Evaluation By: P. Mitchell
Site Classificaton (.0509): US
Other(s) Present:

COMMENTS: Lot is located in a concave depressional area with an embankment/berm surrounding from the roadside and down each side property line. There is a slightly elevated pad area where the home box is marked. The area appears to have been altered (cut & fill). Fill materials were encounterd in borings #1 & #2. I located prior fi for the lot after the soil evaluation was completed. The lot was denied for permitting a 5 BR system in 2007 and in 2005. Also, there were soil descriptions from M. Wood and L. Thompson on the lot with similar findings (i.e., fill materials).

Soil & Site Evaluation Map



Map Created by: P. Mitchell
Date: 3/22/2024

PROPERTY INFO
Address: 11945 Jumper Dr.
PID No.: 19724126

1 in = 40 ft

N

Mecklenburg County
Groundwater & Wastewater Services

(e) Based on the evaluation of the soil conditions and site features listed in Paragraph (a) of this Rule, each soil profile shall be classified suitable or unsuitable. The authorized agent shall specify the overall site suitability and classification in accordance with Rule .0509 of this Section.
(f) The authorized agent shall specify the LTAR in accordance with Section .0900 of this Subchapter for sites classified suitable in accordance with Rule .0509 of this Section.
(g) A LC initially classified unsuitable may be reclassified suitable if the requirements of Rule .0509(b) or (c) of this Section are met.

History Note: *Authority G.S. 130A-335(e).*
Eff. October 1, 2021.

15A NCAC 18E .0502 is adopted as published in 35:17 NCR 1849-1942 as follows:

15A NCAC 18E .0502 TOPOGRAPHY AND LANDSCAPE POSITION
(a) Uniform stable slopes less than or equal to 65 percent shall be suitable with respect to topography.
(b) The following shall be unsuitable with respect to topography:
(1) slopes greater than 65 percent; and
(2) areas subject to surface water convergence. The site shall be considered suitable when the surface water can be diverted from the site with berms or other surface water diversion devices;
(c) The following shall be unsuitable with respect to landscape position:
(1) depressions, except when with site modifications in accordance with Rule .0910 of this Subchapter, the site complies with the requirements of this Section;
(2) a jurisdictional wetland as determined by the U.S. Army Corps of Engineers or DEQ, unless the proposed use is approved in writing by the U.S. Army Corps of Engineers or DEQ; and
(3) complex slope patterns, such as areas affected by erosion which have rills or evidence of drainage, and slopes dissected by gullies that prohibit the design, installation, maintenance, monitoring, or repair of the wastewater system.
(d) For all sites, except where a drip dispersal system is proposed, additional required soil depth based on slope correction shall be calculated using the following formula to determine site suitability for soil depth in accordance with Rule .0505 of this Section:

SD = MSD + (TW x S)

Where SD = soil depth required with slope correction, in inches
MSD = minimum soil depth, in inches
TW = proposed trench width, in inches
S = percent slope, in decimal form

History Note: *Authority G.S. 130A-335(e).*
Eff. October 1, 2021.

15A NCAC 18E .0503 is adopted as published in 35:17 NCR 1849-1942 as follows:

15A NCAC 18E .0503 SOIL MORPHOLOGY
The soil morphology shall be evaluated in accordance with the following:
(1) Texture – The texture of each soil horizon in a profile shall be classified into 12 soil textural classes based upon the relative proportions of sand, silt, and clay sized mineral particles. The soil textural class shall be determined in the field by hand texturing samples of each soil horizon in the soil profile in accordance with the criteria in Guide to Soil Texture by Feel, Journal of Agronomic Education, USDA, NRCS. Table IV identifies the Soil Groups that shall be suitable with respect to texture.

Table IV. Soil Groups that are suitable with respect to texture

Soil Group	USDA Soil Textural Class	
I	Sands	Sand
		Loamy Sand
II	Coarse Loams	Sandy Loam
		Loam
III	Fine Loams	Silt
		Silt Loam
		Sandy Clay Loam
		Clay Loam
		Silty Clay Loam
IV	Clays	Sandy Clay
		Silty Clay
		Clay

Laboratory testing of the soil textural class may be substituted for field testing when the laboratory testing is conducted in accordance with ASTM D6913 and D7928. When laboratory testing of soil texture is proposed, the LHD shall be notified a minimum of 48 hours before samples are to be taken by the licensed professional, if required by G.S. 89C,

89E, or 89F. The authorized agent and the licensed professional shall be present when the samples are collected. Samples shall be representative of the soil horizon being evaluated for texture. Split samples shall be made available to the LHD when requested. The licensed professional shall document chain of custody and seal, sign, and date the first page of the report.

(2) Structure – Soil structure shall be determined in the field for each soil horizon in the soil profile and shall be classified and suitability determined in accordance with Table V. If an authorized agent determines that the soil structure cannot be determined from auger borings, pits shall be required.

Table V. Soil structure and associated suitability classification

Structure	Diameter	Classification
Granular	N/A	suitable
Blocky	≤ 1 inch or 2.5 cm	suitable
	> 1 inch or 2.5 cm	unsuitable
Platy	N/A	unsuitable
Prismatic	≤ 2 inches or 5 cm	suitable
	> 2 inches or 5 cm	unsuitable
Absence of structure: Single Grain	N/A	suitable
Absence of Structure: Massive - no structural peds	N/A	unsuitable

(3) Clay Mineralogy – Clay mineralogy shall be determined in the field by evaluation of moist and wet soil consistence in accordance with the USDA-NRCS Field Book for Describing and Sampling Soils. The clay mineralogy shall be classified and suitability determined in accordance with Table VI.

Table VI. Clay mineralogy field method results, associated mineralogy, and suitability classification

Soil Consistence	Mineralogy	Classification
Moist		
Loose, very friable	Slightly expansive	suitable
Friable, firm	Slightly expansive	suitable
Very firm or extremely firm	Expansive	unsuitable*
Wet		
Nonsticky, slightly sticky Nonplastic, slightly plastic	Slightly expansive	suitable
Moderately sticky Moderately plastic	Slightly expansive	suitable
Very sticky or very plastic	Expansive	unsuitable*

*If either the moist consistence or wet consistence is unsuitable then clay mineralogy is classified unsuitable.

(a) Laboratory testing of ACEC may be substituted for field testing to determine clay mineralogy. The laboratory testing shall be conducted in accordance with USDA-NRCS Soil Survey Laboratory Information Manual, Soil Survey Investigations Report No. 45, and Kellogg Soil Survey Laboratory Methods Manual, Soil Survey Investigation Report No. 42, page 229, or EPA Method 9080. Table VII shall be used to determine the clay mineralogy suitability when laboratory testing is used. When using laboratory testing to determine clay mineralogy, the clay content of the soil shall be greater than 35 percent and the organic matter component shall be less than 0.5 percent.

Table VII. Clay mineralogy laboratory method results, mineralogy, and associated suitability classification

ACEC in cmol/kg	Mineralogy	Classification
≤ 16.3	Slightly expansive	suitable
> 16.3	Expansive	unsuitable

(b) When laboratory testing of clay mineralogy is proposed, the LHD shall be notified a minimum of 48 hours before samples are to be taken by the licensed professional, if required by G.S. 89C, 89E, or 89F. The authorized agent and the licensed professional shall be present when the samples are collected. Samples shall be representative of the soil horizon being evaluated for clay mineralogy. Split samples shall be made available to the LHD when requested. The licensed professional shall document chain of custody and seal, sign, and date the first page of the report.

(4) Organic Soils - Organic soils shall be considered unsuitable.

History Note: *Authority G.S. 130A-335(e).*
Eff. October 1, 2021.

15A NCAC 18E .0504 is adopted with changes as published in 35:17 NCR 1849-1942 as follows:

15A NCAC 18E .0504 SOIL WETNESS CONDITION

(a) SWC, such as those caused by a seasonal high-water table, a perched water table, tidal water, seasonally saturated soil, or by lateral water movement, shall be determined by field observations of soil wetness indicators as follows:

(1) the presence of colors with a value 4 or more and a chroma 2 or less using the Munsell Soil Color Book at greater than or equal to two percent of soil volume as redox depletions or as the matrix of a horizon. Colors of chroma 2 or less that are lithochromic features shall not be considered indicative of a SWC; or

(2) the observation or indication of saturated soils, a perched water table, or lateral water movement flowing into a bore hole, monitoring well, or open excavation above a less permeable horizon, that may occur without the presence of colors with a value 4 or more or chroma 2 or less at greater than or equal to two percent of soil volume as redox depletions or as the matrix of a horizon.

(3) The shallowest depth to SWC determined in this Paragraph shall be used.

(b) Initial site suitability as to SWC shall be determined by field observations of soil wetness indicators in accordance with Paragraph (a) of this Rule. Sites where the SWC is less than 12 inches below the naturally occurring soil surface, or less than 18 inches if more than six inches of Group I soils are present, shall be considered unsuitable with respect to SWC.

(c) Monitoring or modeling procedures as set forth in this Rule may be used to reclassify the site as suitable with respect to SWC.

(d) Monitoring or modeling procedures as set forth in this Rule shall be required when the owner proposes to use a wastewater system requiring a greater depth to a SWC than the depth observed by soil wetness indicators in accordance with Paragraph (a) of this Rule.

(e) Modeling procedures as set forth in this Rule shall be required when the owner proposes to use sites with Group III or IV soils within 36 inches of the naturally occurring soil surface with artificial drainage, or on sites when fill is proposed to be used in conjunction with an artificial drainage system.

(f) Monitoring or modeling procedures may include the following:

(1) direct monitoring procedure as set forth in Paragraph (g) of this Rule;

(2) modeling procedure as set forth in Paragraph (h) of this Rule;

(3) monitoring and modeling procedure as set forth in Paragraph (i) of this Rule; or

(4) other modeling procedures as set forth in Paragraph (j) of this Rule.

(g) The direct monitoring procedure involves determining the SWC by observation of water surface elevations in wells during periods of high-water in accordance with the following:

(1) no later than 30 days prior to the start of the monitoring period, the owner shall notify the LHD of the intent to monitor water surface elevations by submitting a proposal prepared by a licensed professional, if required in G.S. 89C, 89E, or 89F, that includes a site plan, well and soil profile at each monitoring site, and a monitoring plan as follows:

(A) the site plan shall include the proposed sites for wastewater systems, the longitude and latitude of the site, the location of monitoring wells, and all drainage features that may influence the SWC. The site plan shall also specify any proposed fill and drainage modifications;

(B) the monitoring plan shall include the proposed number, installation depth, screening depth, soil and well profile, materials, and installation procedures for each monitoring well. A minimum of three water level monitoring wells shall be installed for water surface observation at each site. Sites handling systems with a DDF greater than 600 gpd shall have one additional well per 600 gpd increment. Well locations shall include portions of the initial and repair dispersal field areas containing the most limiting soil and site conditions. The monitoring plan shall also provide for monitoring of the water surface elevations in the wells and all precipitation at the site; and

(C) notification of whether the owner or a licensed professional will perform the monitoring, including the name of the licensed professional, if applicable.

(2) prior to installation of the monitoring wells, the authorized agent shall approve the plan. Plan approval shall be based upon a site visit and compliance with this Rule. If the plan is denied, a signed, written report shall be provided to the owner that describes the reasons for ~~denial~~ denial, ~~and~~ the changes necessary for approval of the ~~plan.~~ plan, and notice of the right to appeal under G.S. 130A-24 and 150B;

(3) wells shall extend a minimum of five feet below the naturally occurring soil surface, or existing ground surface for existing fill determined in accordance with Rule .0909(d) of this Subchapter, except that wells that extend down only 40 inches from the ground surface may be used if a continuous record of the water table is provided for a minimum of half of the monitoring period. One or more shallower wells may be required on sites where shallow lateral water movement or a perched SWC is anticipated based on the site investigation;

(4) the water elevation in the monitoring wells shall be recorded daily from January 1 to April 30, taken at the same time during the day, plus or minus three hours. Rain gauges shall be located within two miles of the site. Daily rainfall measurements shall also be recorded from December 1 through April 30; and

(5) the most recent information available from the SCO shall be used to determine the recurrence frequency of the total amount of rainfall at the site for the 120-day period ending April 15 based upon the site's historic rainfall record. This shall be done when the 120-day cumulative rainfall for the monitoring period ending on April 15 equals or exceeds the site's historic rainfall for the same period with a 30 percent frequency. The recurrence frequency shall be determined with one of the following methods:

(A) the ~~owner's~~ licensed professional shall determine the 120-day SPI for April 15 by using the Integrated Water Portal located on the SCO's website at: http://climate.ncsu.edu/water/map. The licensed professional shall click on the map pixel that corresponds closest to the site's location. The Department will assist in obtaining this information upon request; or

History Note: *Authority G.S. 130A-335(e); S.L. 2015-147, s.3.*
Eff. October 1, 2021.

15A NCAC 18E .0507 is adopted as published in 35:17 NCR 1849-1942 as follows:

15A NCAC 18E .0507 RESTRICTIVE HORIZONS

(a) Soils in which restrictive horizons are three inches or more in thickness and at depths greater than or equal to 18 inches below the naturally occurring soil surface shall be suitable.

(b) Soils in which restrictive horizons are three inches or more in thickness and at depths less than 18 inches below the naturally occurring soil surface shall be unsuitable.

History Note: *Authority G.S. 130A-335(e).*
Eff. October 1, 2021.

15A NCAC 18E .0508 is adopted with changes as published in 35:17 NCR 1849-1942 as follows:

15A NCAC 18E .0508 AVAILABLE SPACE

(a) Sites shall have available space to allow for the installation of the initial wastewater system and repair area for a system identified or approved in Sections .0900, .1500, or .1700 of this Subchapter. The available space provided shall meet all required setbacks in Sections .0600 or .1200 of the Subchapter and provide access to the wastewater system for operation and maintenance activities. A site with sufficient available space shall be suitable.

(b) If the site does not have available space for both an initial wastewater system and repair area it shall be unsuitable.

(c) The repair area requirement of Paragraph (a) of this Rule shall not apply to a lot or tract of land which meets the following:

(1) described in a recorded deed or a recorded plat on January 1, 1983;
(2) insufficient size to satisfy the repair area requirement of Paragraph (a) of this Rule, as determined by the authorized agent;
(3) DDF is no more than 480 gallons for a single-family dwelling unit or a single facility; and
(4) the proposed facility will generate DSE.

(d) Although a lot or tract of land may be exempt from the repair area requirement under Paragraph (c) of this Rule, the authorized agent shall determine if there is any available space for the repair area. The authorized agent shall determine the maximum feasible repair area available, and that repair area shall be specified on the IP, CA, and OP.

(e) If a site meets any of the following criteria, a repair area shall be required, even if the site is exempt from the repair area requirement of Paragraph (c) of this Rule:

(1) proposed increase in flow or wastewater strength to an existing facility permitted under the exemption of Paragraph (c) of this Rule; or
(2) any new initial wastewater system is proposed on a lot or tract of land on which the exemption in Paragraph (c) of this Rule was previously utilized.

(f) Notwithstanding the criteria for when a repair area is required in accordance with Paragraph (e) of this Rule, a site shall remain exempt from the repair area requirements of Paragraph (a) of this Rule when all of the following conditions are met:

(1) an owner submits an application to the LHD for an increase in flow to an existing facility permitted in accordance with Paragraph (c) of this Rule and the facility DDF remains less than or equal to 480 gpd of DSE;
(2) there is sufficient available space for the existing system to be modified pursuant to the Rules of this Subchapter;
(3) the site for the existing system complies with the Rules of this Subchapter and the existing system is not malfunctioning in accordance with Rule ~~.1303(a)(1) and (2)~~ .1303(a)(2) of this Subchapter; and
(4) the conditions set forth in Paragraph (d) of this Rule are met.

(g) Prior to the issuance of the IP, the proposed dispersal field shall be field located and staked on-contour, as applicable, to verify that initial and repair wastewater systems can be installed in the area delineated. The dispersal field may be installed level but off contour if an authorized agent has determined that there is sufficient vertical separation to a LC along the entire trench length in accordance with Rule .0901(g)(2) of this Subchapter.

(h) The initial and repair area shall not be altered so that the wastewater system specified on the IP, CA, and OP cannot be installed and function as permitted.

History Note: *Authority G.S. 130A-335(e) and (f); S.L. 2015-147, s.1.*
Eff. October 1, 2021.

15A NCAC 18E .0509 is adopted as published in 35:17 NCR 1849-1942 as follows:

15A NCAC 18E .0509 SITE SUITABILITY AND CLASSIFICATION

(a) A site evaluated in accordance with Rules .0502 through .0508 of this Section with all parameters determined as suitable shall result in an overall site classification of suitable. Any parameter determined as unsuitable shall result in an overall site classification of unsuitable.

(b) Sites classified as unsuitable may be reclassified as suitable as follows:

(1) when site modifications are made that meet the requirements in Sections .0900 or .1200 of this Subchapter for the minimum vertical separation to the SWC;