THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

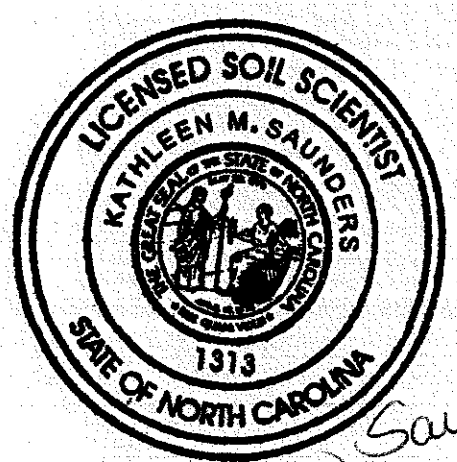
RE: 138 Charis Lane

Date: February 26, 2016

Attached is the septic specification information required to permit 138 Charis Lane for an Improvement Permit and/or Construction Authorization Permit in Iredell County via the Expedited Review Process.

The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which these specifications are in accordance with. If the ICHD wishes to change tank locations, distribution devices, etc they may do so at their discretion.

All information and specifications have been prepared in conjunction with ICHD permitting guidelines for the current lot owners to acquire an Improvement Permit and/or Authorization to Construct on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.



Kathleen Saunders

138 Charis Lane Fast Track - The Oaks Group, PA

Number of Bedrooms	**3**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	4 (See Table)
Total Linear Feet	300
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth	18"
Maintenance Agreement Required	No
Repair System	**25% Reduction**
Total Linear Feet	300
Repair Loading Rate	0.3

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	Repair	Orange	25% Reduction	150
2	Repair	Pink	25% Reduction	150
3	System	Blue	25% Reduction	85 endfed
4	System	Red	25% Reduction	80 endfed
5	System	Orange	25% Reduction	85 endfed
6	System	Pink	25% Reduction	50 endfed
				Total System: 300'.
				Total Repair: 300'

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Note: Tank and distribution device locations can be altered at the discretion of ICHD. Keep proper setbacks if foundation drains are used

N 33°16'29"E 541.90'
GULLY
GULLY
1/2" EIR
N
1"=50'
150' Repair
150' Repair
Lot contains 10.3
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Fill
Gully
85'
R 80'
85'
R 80'
15'
15'
15'
Top of cut for Looping Rd
* Septic Area requires some shaping
702
House
well
150'
560'
137'
493'
914.49'
Drive follows old
Road beds

DHHS

ON-SITE WASTEWATER SECTION

Sheet ____ of ____
PROPERTY ID #: ____
COUNTY: ____

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Keith + Linda Miller — APPLICATION DATE 3-3-16
ADDRESS: Unknown — DATE EVALUATED: 3-11-2016
PROPOSED FACILITY: 360 gal/day — PROPOSED DESIGN FLOW (.1949): 3 BR House — PROPERTY SIZE: 10.39
LOCATION OF SITE: 138 Charis Rd. Statesville, NC — PROPERTY RECORDED: Yes
WATER SUPPLY: ☒ Private ☐ Public ☐ Well ☐ Spring ☐ Other ____
EVALUATION METHOD: ☒ Auger Boring ☐ Pit ☐ Cut — TYPE OF WASTEWATER: ☒ Sewage ☐ Industrial Process ☐ Mixed

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
A1	13% Linear side slope	0-4	Clay Loam SBK-weak	Slightly Friable, SS, Sp, Sexp	—	28"	—	—	0.30
		4-20	Clay SBK-weak	Slightly Friable SS, Sp, Sexp					
		20-34	Clay Loam weak SBK	Friable, SS, Sp, Sexp					
		34-48	Loamy Saprolite (massive)	Friable + wet Drainage					
C1	10% Linear Side slope	0-8	Sandy Loam SBK-weak	Very Friable, SS, Sp, Sexp	—	48	—	—	0.30
		8-40	Clay SBK-weak	Slightly Firm, SS, Sp, Sexp					
		40-48	Clay Loam SBK-weak	Slightly Friable, SS, Sp, Sexp					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	0/+	0/+
System Type(s)	25%	25%
Site LTAR	0.30	0.30

OTHER FACTORS (.1946): ~
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: Tom Shuck
OTHER(S) PRESENT: Kathleen Saunders + Emma

COMMENTS: ____

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

Sheet: 1
Property ID: 4722-96-7990
Lot #: —
File #:
AppID:

SOIL/SITE EVALUATION for ON-SITE WASTEWATER SYSTEM

Owner: Linda Miller
Address: 139 Charis Ln
Proposed Facility: SFR
Design Flow (.1949) 360
Location of Site: 138 Charis Ln
Water Supply: [ ] Public [ ] Individual [X] Well
Evaluation Method: [X] Auger Boring
Type of Wastewater: [X] Sewage

Applicant: 4 G Design B
Date Evaluated: 2/8/16
Property Size: 10.39
Property Recorded:
[ ] Spring [ ] Other
[ ] Pit
[ ] Cut
[ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .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
A	L 10-15%	0-19	Mo SBK C	FR SS/SP	R; F sap				0.3
		19-38	WK SBK CL	↓	R; C sap				
		38-53	MA MSL sap	↓	multi				
B	L	0-6	Mo GR SCL	FR SS/SP	yel R				0.3
		6-24	Mo SBK C	↓	R				
		24-40	WK SBK C	↓	R; C yel Br WR/Relic yel Br				
		40-48	WK SBK C	↓	R				
C	L 10-15%	0-6	Mo GR SL	FR SS/SP	Br				0.3
		6-30	Mo SBK C	↓	R; F sap				
		30-50	Mo SBK CL	↓	R; C sap				
D	L	0-6	Mo GR SL	FR NS/NP	R Br				0.3
		6-30	Mo SBK C	FR SS/SP	R				
		30-50	WK SBK CL	↓	R; C sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	25% Red
Site LTAR	0.3	0.3

Other Factors (.1946):
Soil Evaluation By: Kms
Others Present: ELH
Site Classification (.1948): PS
Site Evaluation By: Kms
Others Present: ELH

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