THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

RE: 122 Millhouse Road, Mooresville NC

Date: March 22, 2016

APPROVED APR 29 2016

Attached is the septic specification information required to permit 122 Millhouse Road for an Improvement 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 on this lot. It is ultimately the ICHD's responsibility to verify all specifications, including soil descriptions, before permitting and/or septic system installation.

LICENSED SOIL SCIENTIST
KATHLEEN M. SAUNDERS
1313
STATE OF NORTH CAROLINA

Kathleen Saunders

Meadow Fields Lot 4 Fast Track - The Oaks Group, PA

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.3**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	400
Trench Width	3' min.
Trench Spacing	9' min.
Distribution Device	Drop Boxes or Other
Tank Size	1000 gallon tank
Max Trench Bottom Depth	24"
Maintenance Agreement Required	No
Repair System	**LP PPBPS**
Total Linear Feet	274
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	System	Blue	25% Reduction	55 endfed
2	System	Red	25% Reduction	80 endfed
3	System	Pink	25% Reduction	90 endfed
4	System	Orange	25% Reduction	100 endfed
5	System	Blue	25% Reduction	75 endfed
6	Repair	Red	LP PPBPS	90
7	Repair	Pink	LP PPBPS	89
8	Repair	Orange	LP PPBPS	95
				Total System: 400'
				Total Repair: 274'

APPROVED APR 29 2016

Note: Tank and distribution device locations can be altered at the discretion of ICHD.
Keep proper setbacks to foundation drains
Abandon existing well

DHHS

ON-SITE WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: IQ Custom construction — APPLICATION DATE 3-22-16
ADDRESS: ____ — DATE EVALUATED: 4-20-16
PROPOSED FACILITY: 4BR House — PROPOSED DESIGN FLOW (.1949): 480 gal/day — PROPERTY SIZE: 1.1 acres
LOCATION OF SITE: Lot 4 — PROPERTY RECORDED: No
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) .1941 STRUCTURE/ TEXTURE	SOIL MORPHOLOGY (.1941) .1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
1	Pit [primary] Linear side slope 9%	0-9	Fine scl slightly SBK	slightly Friable SS, Sp, Ssp	-	48	—	—	0.325
		9-33	clay med SBK	Firm (slightly) SSS, Sp, Ssp					
		33-48	clay Loam weak SBK	Friable SS, Sp, Ssp SAP inclusions from 35-48" [common]					
		48-67	Loamy saprolite - massive	well drained					
2	Pit [repair] Sloping Shoulder 8%	0-13	clay sl. SBK	Slightly Firm, SS, Sp, Ssp	-	28"	—	—	0.3 PS
		13-28	clay Loam medium SBK	Friable SS, Sp, Ssp					
		28-60"	Loamy Saprolite - massive	well drained					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Yes PS	Yes PS
System Type(s)	25% Reduction	50% Reduction
Site LTAR	0.325	0.3

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

COMMENTS: well must be abandoned

DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH, ENVIRONMENTAL HEALTH SECTION
ON-SITE WATER PROTECTION BRANCH

Sheet 1 of 1
PROPERTY ID #:
COUNTY: Iredell

SOIL/SITE EVALUATION
***for* ON-SITE WASTEWATER SYSTEM**
(Complete all fields in full)

OWNER: IQ Custom Construction — APPLICATION DATE
ADDRESS: 122 mill house Rd mooresville — DATE EVALUATED: 3/2/16
PROPOSED FACILITY: SFR — PROPOSED DESIGN FLOW (.1949): 480 — PROPERTY SIZE: 1.1
LOCATION OF SITE: lot 4 — PROPERTY RECORDED:
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)		OTHER PROFILE FACTORS				PROFILE CLASS & LTAR
			.1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	.1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	
A	L	0-26	MO SBK C	FR SS/SP	R; F Sap				0.3
		26-42	WK SBK CL	↓	R; C Sap				
		42-50	MA L Sap	↓	yel R				
B	L 5-10%	0-27	MO SBK C	FR SS/SP	R; F Sap				0.3
		27-42	WK SBK CL	↓	R; C Sap				
		42-48	MA L Sap	↓	yel R				
C	L	0-28	MO SBK C	FR SS/SP	R; F yel/br WR				0.3
		28-42	WK SBK CL	↓	R; C Sap				
		42-48	MA L Sap	↓	yel R				
D	L	0-24	MO SBK C	FR SS/SP	R				0.3
		24-48	WK SBK CL	↓	R; C Sap				

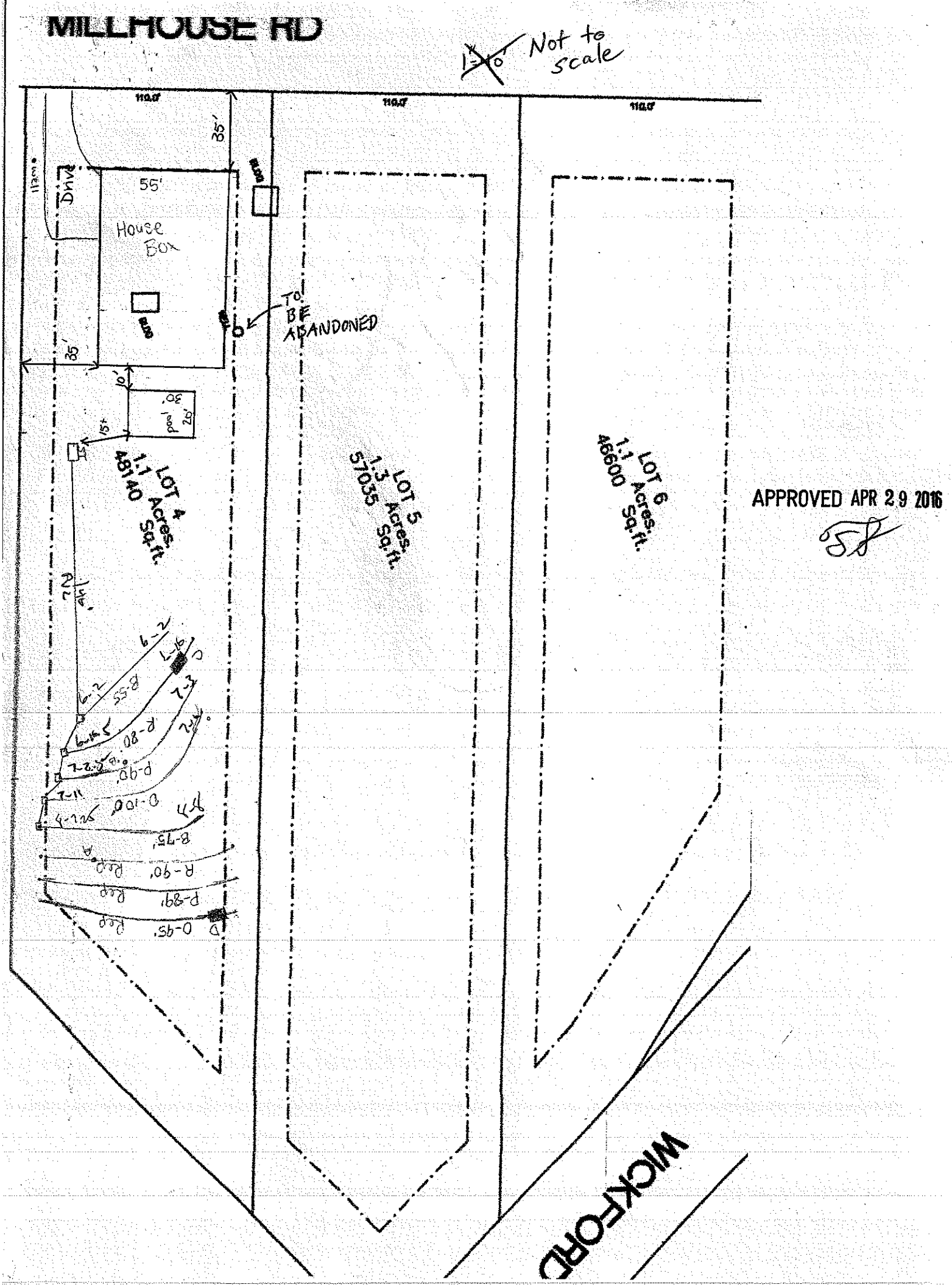
DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)		
System Type(s)	25% Red	LP PP BPS
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): P.S.
EVALUATED BY: KMS
OTHER(S) PRESENT: ELH

COMMENTS:

APPROVED APR 29 2016

Updated February 2014


MILLHOUSE RD
1"=0' Not to scale
110.0'
110.0'
110.0'
35'
55'
Drive
House
Box
TO BE ABANDONED
35'
10'
30'
20' pool
15+
LOT 4
1.1 Acres.
48140 Sq.ft.
LOT 5
1.3 Acres.
57035 Sq.ft.
LOT 6
1.1 Acres.
46600 Sq.ft.
APPROVED APR 29 2016
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WICKFORD