THE OAKS GROUP, PA

To: Iredell County Environmental Health Department (ICHD)

From: Kathleen Saunders, LSS

APPROVED APR 26 2016

RE: 110 Millhouse Road, Mooresville NC

Date: March 22, 2016

Attached is the septic specification information required to permit 110 Millhouse Road for an Improvement Permit in Iredell County via the Expedited Review Process.

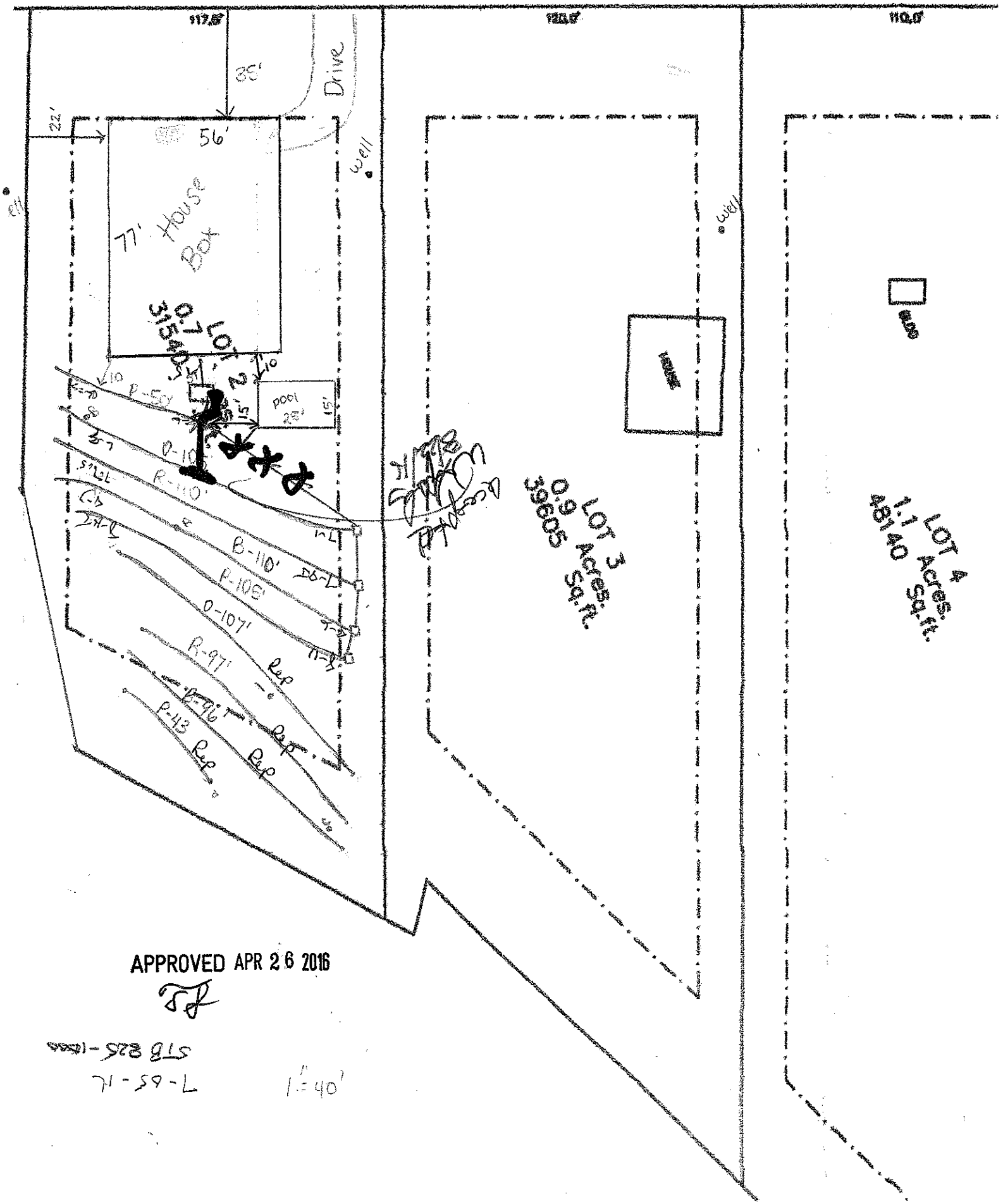
The attached information is not an Improvement Permit or an Authorization to Construct, and is only to assist the ICHD with permitting. The ICHD has to approve each lot and only the ICHD can issue these permits. The system should be installed according to the ICHD permits, policies, and NC Rules, which 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

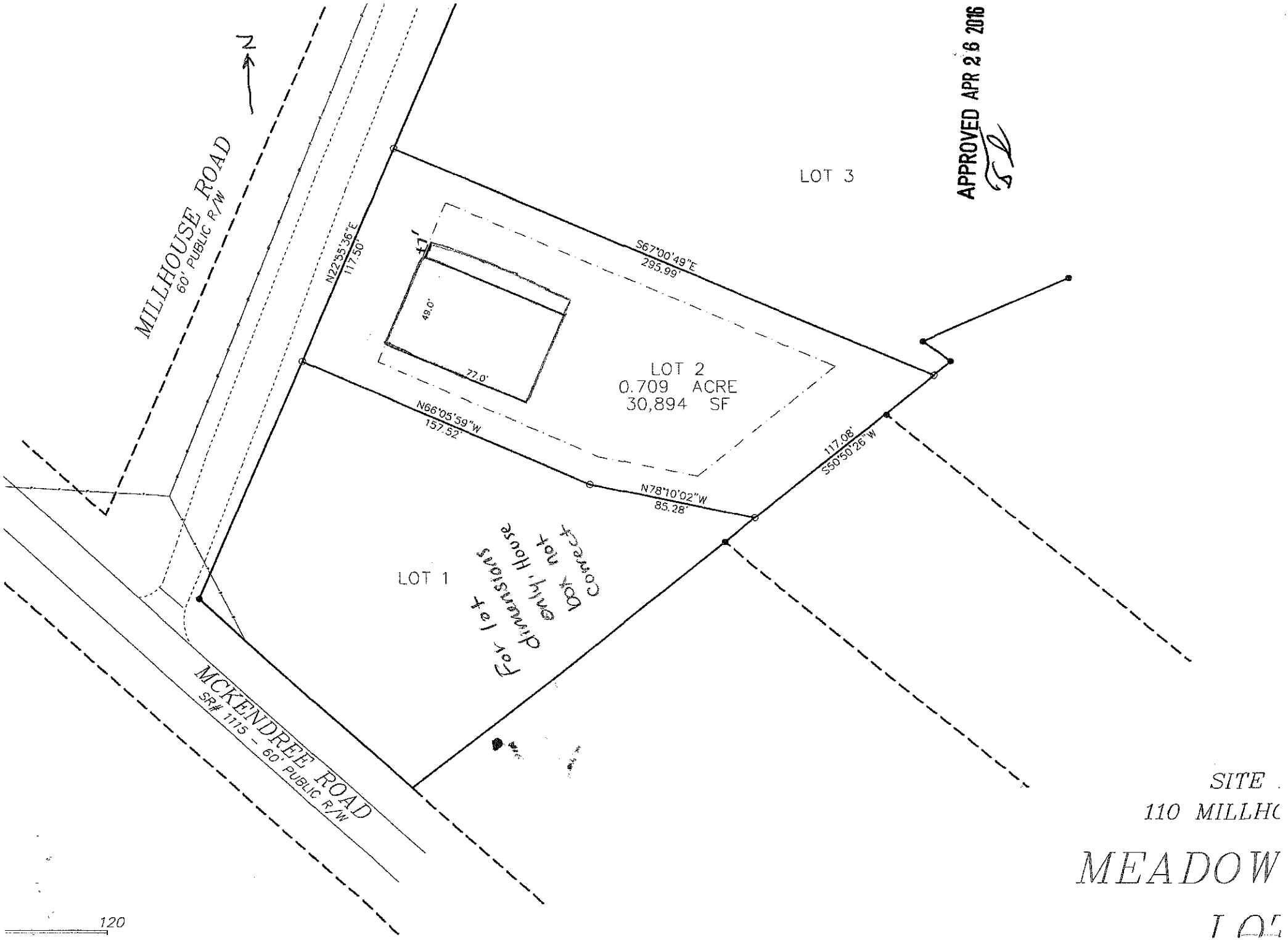
Kathleen Saunders

MILLHOUS



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1" = 40'


N
MILLHOUSE ROAD
60' PUBLIC R/W
LOT 3
APPROVED APR 26 2016
N22°35'36"E
117.50'
S67°00'49"E
295.99'
49.0'
77.0'
LOT 2
0.709 ACRE
30,894 SF
N66°05'59"W
157.52'
117.08'
S50°50'26"W
N78°10'02"W
85.28'
LOT 1
For lot dimensions only, House Box not Connect
MCKENDREE ROAD
SR# 1115 - 60' PUBLIC R/W
120
SITE
110 MILLHO
MEADOW
LOT

Meadow Fields Lot 2 Fast Track - The Oaks Group, PA

Number of Bedrooms	**4**
Basement or Crawl	**Crawl Space**
Design Flow (gpd)	**480**
Primary System LTAR (gpd/ft2)	**0.25**
Primary System Type	**25% Reduction**
No. Lines	5 (See Table)
Total Linear Feet	480
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	343
Repair Loading Rate	0.25

Table: Summary of Primary and Repair Nitrification Line Specifications

Line No.	Use	Line Color	System Type	Line Length (Ft.)
1	System	Pink	25% Reduction	50 endfed
2	System	Orange	25% Reduction	105 endfed
3	System	Red	25% Reduction	110 endfed
4	System	Blue	25% Reduction	110 endfed
5	System	Pink	25% Reduction	105 endfed
6	Repair	Orange	LP PPBPS	107
7	Repair	Red	LP PPBPS	97
8	Repair	Blue	LP PPBPS	96
9	Repair	Pink	LP PPBPS	43
				Total System: 480'
				Total Repair: 343'

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

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

Sheet: 1 / 1
Property ID:
Lot #: 2
File #:
AppID:

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

Owner: IQ Custom Homes
Address: 110 mill house mocksville
Proposed Facility: SFR Design Flow (.1949) 480
Location of Site: Lot 2

Applicant:
Date Evaluated: 3/2/16
Property Size: 0.709
Property Recorded:

Water Supply: [ ] Public [ ] Individual [X] Well [ ] Spring [ ] Other
Evaluation Method: [X] Auger Boring [ ] Pit [ ] Cut
Type of Wastewater: [X] Sewage [ ] Industrial Process [ ] Mixed

PROFILE #	.1940 Landscape Position/ Slope%	Horizon Depth (IN.)	SOIL MORPHOLOGY .1941 .1941 Structure/ Texture	.1941 Consistence Mineralogy	b PROFILE FACTORS .1942 Soil Wetness/ Color	.1943 Soil Depth (IN.)	.1956 Sapro Class	.1944 Restr Horiz	Profile Class & LTAR
A	L	0-10	mo GR SBK	FR SS/SP	R Br				0.25
		10-35	MoSBKC	↓	R; C Mn				
		35-48	WK SBK CL	↓	R; C Mn				
B	L 5-10%	0-24	Mo SBK C	FR SS/SP	R				0.25
		24-48	WK SBK C	↓	R; C Mn				
C	L	0-30	Mo SBK C	FR SS/SP	R				0.3
		30-48	WK SBK CL	↓	R; F/C Sap				
I	L	0-18	MO SBK C	FR SS/SP	R				0.3
		18-48	WK SBK CL	↓	R; C/m Sap				

Description	Initial System	Repair System
Available Space (.1945)		
System Type(s)	25% Red	LPP RPB PC
Site LTAR	0.25	0.25

Other Factors (.1946):
Soil Evaluation By: KMS
Others Present: ELH
Site Classification (.1948): P.S
Site Evaluation By: KMS
Others Present: ELH

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DHHS

ON-SITE WASTEWATER SECTION

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

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: IQ Custom Construction APPLICATION DATE ____
ADDRESS: 840 Edmiston Rd Mt. Ullah DATE EVALUATED: 4-20-16
PROPOSED FACILITY: 4 BR House PROPOSED DESIGN FLOW (.1949): 480 gal/day PROPERTY SIZE: 0.7 acres
LOCATION OF SITE: Lot 2 PROPERTY RECORDED: Yes 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
11" A Primary	Linear side-slope	0-7	weak SBK fine sandy clay loam	slight Friable, SS, Sp, Sap	—	48"	—	—	0.25 PS
		7-48	SBK clay weak	slightly firm, SS, Sp, Sap					
		manganese nodules 25" → 48"							
8% 11" 1 Adjacent hole #1 LS Repair	Linear side-slope	0-10	F. SCL w. SBK	SI Friable, SS, Sp, Sap	—	48	~~S~~ —	—	0.3 PS
		10-30	SBK clay weak	SI Firm, SS, Sp, Sap					
		30-48	SBK clay loam	SI Friable, SS, Sp, Sap					
		↑ Recently Drained							

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	Yes	Yes
System Type(s)	25%	50%
Site LTAR	0.25	0.30

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

COMMENTS: ____