DENR/DEH

ON-SITE WASTEWATER SECTION

Sheet 1 of 2
PROPERTY ID #: 4765-41-6238
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Bob & Doris Hallett — APPLICATION DATE
ADDRESS: Rt 3 Box 3103 Stroudsburg PA — DATE EVALUATED: 5-7, 5-8, 5-9-14
PROPOSED FACILITY: 3BRm — PROPOSED DESIGN FLOW (.1949): 360 gpd — PROPERTY SIZE: 0.6706 ac
LOCATION OF SITE: 105 Wildflower Ln 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
B 1	LSS 2%	0-8	B Compacted	Clay		48"	—	—	PS
		8-19	B C/CL WFSBK	/ Fill					.15-.2
		19-34	SB CL WFSBK	Fi S P SEXP	Com YB				to 40"
		34-48	YB C WFSBK	Fi S P SEXP	Chr 2 >40" Com SB mottles few Mn				
B 2	LSS 2%	0-10	R C Compacted			48"	—	—	PS
		10-14	RC WFSBK	Fi S P SEXP	few YB				
		14-21	RC WFSBK	Fi S P SEXP	many YB mottles				.15-.2
		21-48	YB C WFSBK	Fi S P SEXP	Com R mottles, few Chr 3 & 4 >40"				
B 3	LSS 2%	0-6	RC Compacted			48"	—	—	PS
		6-12	RC WFSBK	Fi S P SEXP					.15-.2
		12-20	RC WFSBK	Fi S P SEXP	Com YB				
		20-27	RC WFSBK	Fi S P SEXP	many YB				
		27-48	YB C WFSBK	Fi S P SEXP	Com R mottles, few Chr 3 & 4 >40"				
B 4	LSS 2%	0-3	B C Compacted			48"	—	—	PS
		3-6	RC WFSBK	Fi S P SEXP					.15 to 38"
		6-12	RC WFSBK	Fi S P SEXP	few YB				
		12-24	YRC WFSBK	Fi S P SEXP	many YB				
		24-48	YB C WFSBK/ABK	Fi S P SEXP	Com R mottles Chr 2 >18" few Chr 3 & 4				

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	At Grade 25%	TSIL Drip
Site LTAR	0.175	0.0875

OTHER FACTORS (.1946): NONE
SITE CLASSIFICATION (.1948): PS
EVALUATED BY: ALP
OTHER(S) PRESENT: None

COMMENTS: Possible 25% Reduction Shallow

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4765-41-6238
DATE OF EVALUATION: 5-7, 5-8, 5-9-14
COUNTY: Iredell

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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 5	LSS 2%	0-6	Fill/Compacted			48"	-	-	PS .15-.2 to 48"
		6-12	RBC MFSBk	FR SS SP SE P					
		12-24	YR C MFSBk	FR SS SP SE P	few YB				
		24-48	YB C MFSBk/ABk	FR SS SP SE P	Com R mottles few Rm, few Chr 3+4				
B 6	LSS 2%	0-14	B C/SC Gr	FR SS SP SE P	-plow layer	48"	-	-	PS .12 to 34 .15 34-42"
		14-20	B C/CL MFSBk	FR SS SP SE P					
		20-28	YR C MFSBk	FR S P SE P					
		28-34	YR C MFSBk	FR S P SE P	Com YB				
		34-48	YB C MFSBk	FR S P SE P	Chr 2 42" few R Mottles				
B 7	LSS 2%	0-15	B Sc Gr	FR SS SP SE P	Plow Layer	48"	-	-	PS .15 to 25"
		15-19	B C MFSBk	FR SS SP SE P					
		19-48	YB C MFSBk	FR S P SE P	Chr 2 >35" few YR mottles				
B 8	LSS 2%	0-12	RB SC MFSBk	FR SS SP SE P	Plow layer	37"	-	-	PS .15 to 25"
		12-21	B C MFSBk	FR SS SP SE P					
		21-30	YB C MFSBk	FR SS SP SE P	Chr 2 28"				
		30-37	RB C MFSBk	FR SS SP SE P	few R mottles >34"				
B 9	LSS 2%	0-17	B SC MFSBk/Gr	FR SS SP SE P	Plow layer	43	-	-	PS .15 to 33"
		17-20	B C/C MFSBk	FR SS SP SE P					
		20-43	YB C MFSBk/ABk	FR S P SE P	Chr 2 33" Com Rm, few R mottles				

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

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COUNTY: Iredell

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B 10	LSS 2%	0-12	B SC WFSBK	FR SS SP SEP	Plow Layer Chr 2 30" few Fe concretions, few/com R mottles >27"	39"	—	—	PS .15 to 30"
		12-39	YB C WFSBK/ABK	FR S P SEP					
D 11	LSS 2%	0-10	B SC WFSBK	FR SS SP SEP	Plow Layer Chr 2 32" few/com R mottles	42"	—	—	PS .15-.2 to 32"
		10-17	B CL WFSBK	FR SS SP SEP					
		17-42	YB C WFSBK	FR S P SEP					
B 12	LSS 2%	0-7	B SC GR	FR SS SP SEP	Plow Layer Chr 2 33"	37"	—	—	PS .15-.2 to 33"
		7-20	B CL WFSBK	FR SS SP SEP					
		20-37	YB C WFSBK	FI S P SEP					
D 13	LSS 2%	0-8	B SC WFSBK	FR SS SP SEP	Plow Layer Chr 2 34"	42"	—	—	PS .15-.2 to 34"
		8-17	B CL WFSBK	FR SS SP SEP					
		17-42	YB C WFSBK	FI S P SEP					
B 14	LSS 2%	0-6	B C Compacted		Com/many YB Chr 2 21" many Chr 2, com R, YR, FB mottles, few Iron concretions	35"	—	—	UN
		6-12	SB C WFSBK	FI S P SEP					
		12-23	YR C WFSBK	FI S P SEP					
		23-35	RY C WFSBK	FI SS SP SEP					

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
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DATE OF EVALUATION: 5-7, 5-8, 5-14
COUNTY: Iredell

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
B 15	LSS 2%	0-9	RB C Compacted		Chr 2 >7"	22"	—	—	
		9-14	RB C wFSBk	Fi SS P SE/P	Chr 2, com YB, few R mottles, few minerals				
		14-22	YB C wFSBk	Fi SS P SE/P	many Chr 2, com minerals				
		22	Rock						
B 16	LSS 2%	0-9	B C/CL wFSBk	Fr SS SP SE/P	Plow layer few R mottles	40"	—	—	PS
		9-22	YB C wFSBk	Fi SS P SE/P	Chr 2 >24", many YB, many Fe concretions				.15-.2 to 24"
		22-40	YR C wFSBk	Fi SS P SE/P	Com R mottles				
B 17	LSS 2%	0-9	B C/CL wFSBk	Fi SS SP SE/P	Plow layer few	46"	—	—	PS
		9-36	RY/YB C wFSBk	Fi SS P SE/P	Chr 2 >30" few/com Fe staining/concretions				.15-.2 to 30"
		36-46	RY/YB C wFSBk	Fi SS P SE/P	com Chr 2 com Fe concretions				
B 18	LSS 2%	0-4	B CL Compacted		few YB com SAP Chr 2 >21" com Chr 2 few/com SAP com YB, com heavy clay veins	37"	—	37"	PS .1-.3 to 40"
		4-18	RB C wFSBk	Fi SS P SE/P					
		18-26	RY C wFSBk	Fi SS P SE/P					
		26-37	RY SCL/SC wFSBk	Fr SS SP SE/P					
		37	Rock						
B 19	LSS 2%	0-25	Fill		Chr 2 >30", com YB Com Chr 2, com heavy clay veins, com R mottles, few SAP, few gravel (quartz)				GN
		25-36	RY C wFSBk	Fr SS P SE/P					
		36-	RY SC wFSBk	Fi SS SP SE/P					

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

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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	OTHER PROFILE FACTORS .1943 SOIL DEPTH	OTHER PROFILE FACTORS .1956 SAPRO CLASS	OTHER PROFILE FACTORS .1944 RESTR HORIZ	PROFILE CLASS & LTAR
A 20	LSS 2%	0-6	B C Compacted			48"	—	—	PS .15-.2 31"
		6-29	YB/SB C WFSBK	Fr SP SEP	few chr 3+4, com YB				
		29-35	RY/SB C WFABK	Fi S P SEP	Chr 2 31", many R mottles/Fe many YB, few chr 3+4				
		35-48	YB/SB SC WFSBK	Fr SS SP SEP	few chr 2 @ 44", few Mn, few Sap				
B 21	LSS 2%	0-4	B C Compacted		few YB	39"	—	—	PS .15-.2 to 28"
		4-12	RB CN FSBK	Fr SS SP SEP	few Mn, com YB, few chr 3+4, few R mottles				
		12-28	RY C WFSBK	Fr SS SP SEP	Com chr 2, com Mn, com Fe staining				
		28-39	YB C WFSBK	Fi SS SP SEP					
B 22	LSS 2%	0-6	B C Compacted	Fill	Plow layer few YB, few Mn, few R mottles many YB, chr 2 > 30" Com/many Fe staining				PS .15-.2 20"
		6-9	B C WFSBK	Fr SS SP SEP					
		9-29	SB/RB C WFSBK	Fr S P SEP					
		29-40	SB/RB C WFABK/BK	Fr S P SEP					
P 23	LSS 2%	0-7	B C Compacted		many R mottles, Com Fe concretions/staining, com chr 2 > 31" many chr 2+3	52	—	—	PS .15-.2 to 31"
		7-11	B C MFSBK	Fr SS SP SEP					
		11-31	YB C MFABK	Fr S P SEP					
		31-46	YB FSC WFSBK	Fr SS SP SEP					
		46-52	YB CRSC WFSBK	Fi SS SP SEP					
P 24	LSS 2%	0-10	B FSC Compacted		few R mottles, few chr 3+4 many chr 2 > 28" few R mottles few Mn, com chr 3+4				.15-.2 to 28"
		10-15	B FSC WFSBK	Fr SS SP SEP					
		15-25	YB C WFSBK	Fi S P SEP					
		25-46	YB C WFABK	Fi S P SEP					

COMMENTS: _____

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
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DATE OF EVALUATION: 5-7, 5-8, 5-9-14
COUNTY: Iredell

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
P 25	LSS 2%	0-7	B Sc Compacted/Plow Layer						
		7-20	B Sc WFSBk	Fr SS SP SEXP	few YB	43"	—	—	PS .15-.2 to 37"
		20-31	YB C VWFSBk	Fi SP SEXP	few R mottles				
		31-38	YB C WFABk	Fi SP SEXP	Con R/YR mottles Chr 2 37", Con Chr 3+4				
		38-43	YB Sc WFSBk	Fr SS SP SEXP	many Chr 2, Con Chr 3+4				
P 26	LSS 2% North end of P.4	0-8	B Sc Compacted						
		8-18	YB C WFABk	Fi SP SEXP	Con Chr 3+4	25"	—	21"	PS .2 to 25"
		18-21	Fe Concretion						
		21-25	YB C Platy	Fi SP SEXP	many Chr 2 Con R mottles				
P 26	LSS 2% South side of P.4	0-7	B Sc Compacted			24"	—	21"	PS .2 to 24"
		7-10	B Sc WFSBk	Fr SS SP SEXP					
		10-21	YB C WFABk	Fi SP SEXP	Con Fe staining + concretions few Chr 2 @ 15"				
		21-28	YB C Platy	Fi SP SEXP	Con Chr 2 Con R mottles				
B 27	LSS 2%	0-4	B Sc Compacted T			24"	—	—	PS .15-.2 to 24"
		4-15	RYB C WFSBk/ABk	Fi SP SEXP	Con YB				
		15-24	RYSc WFSBk	Fi SS SP SEXP	Con Chr 2 > 18" Con YB			—	
B 28	LSS 2%	0-4	RB C Compacted			38"	—	—	PS .15-.2 to 34"
		4-8	RB C WFSBk	Fr SP SEXP					
		8-24	SB C WFABk	Fi SP SEXP	Con YB, few Chr 3+4				
		24-38	YB C WFSBk/ABk	Fr SP SEXP	Con Chr 2 34"				

COMMENTS:

SOIL/SITE EVALUATION

(Continuation Sheet)

DEPARTMENT OF ENVIRONMENT
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DIVISION OF ENVIRONMENTAL HEALTH

PROPERTY ID #: 4765-41-6238
DATE OF EVALUATION: 5-27-14
COUNTY: Iredell

PROFILE #	.1940 LANDSCAPE POSITION/ SLOPE %	HORIZ ON DEPTH (IN.)	SOIL MORPHOLOGY (.1941) .1941 STRUCTURE/ TEXTURE	.1941 CONSISTENCE/ MINERALOGY	OTHER PROFILE FACTORS .1942 SOIL WETNESS/ COLOR	.1943 SOIL DEPTH	.1956 SAPRO CLASS	.1944 RESTR HORIZ	PROFILE CLASS & LTAR
B 29	LSS 0-2%	0-16	Fill		Com. Chr2 >34" com Red mottles	42"	–	–	UN
		16-20	B SC WFSBK	Fr SS SP SEXP					
		20-42	YB C WFABK/SBK	Fr S P SEXP					
B 30	LSS 0-2%	0-20	RB Fill		Chr2 >38" few Red mottles	44"	–	–	UN
		20-26	B SC/CL WFSBK	Fr SS SP SEXP					
		26-44	YB C WFSBK	Fi S P SEXP					

COMMENTS: Pits would allow better evaluation