Bldr-2023-20508

ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 Mooresville Office (704) 660-3625

PERMIT # OSWP-2023-20500

SEPTIC: IMPROVEMENT PERMIT / AUTHORIZATION TO CONSTRUCT / OPERATION PERMIT / EXISTING SYSTEM

PIN # 4627-88-6713

APPLICANT / OWNER: Blue Brook Homes, LLC | APPLICANT ADDRESS: 1902 Winlock Dr, Charlotte, NC 28270

SITE ADDRESS: 151 GREENBAY RD, MOORESVILLE, NC 28117 | PHONE: (704) 657-8977 | ALT. PHONE:

SITE DIRECTIONS: Hwy 150 to Greenbay | SAP CONTROLLED: YES ☐ NO ☒

SUBDIVISION: Greenbay Forest | SECTION: 1 | LOT #: 3 | LOT AREA: 1.38 | DESIGN FLOW: 480 | L.T.A.R.: .30

Septic Tank: (gal) 1000	STB: 760	Date: 10/8/2023	☒ New System ☐ Repair ☐ Expansion	System Type: III	☒ Residence	No. Bedrooms: 4	Water Supply: New Well
Pump Tank: (gal)	PT:	Date:	System Description: Gravity - 50% Reduction		☐ Business	No. Persons: 3	
Pump Make:	Model:	Serial #:	Repair System Description: -50% Reduction		☐ Other	No. Employees: 0	
# Nitrification Fields: 1	# Lines: 5	Linear Ft.: 267	Maintenance Agreement Required: ☐ YES ☒ NO		☐ Slab	☒ Crawl Space	
Trench Width: 36 in	Trench Bottom Depth (~~Low side~~): 30 in max		Gravel Depth: —	☒ GRAVITY ☐ PRESSURE	☐ Basement w/ Plumbing	☐ Basement w/o Plumbing	

Comments / Conditions:

INITIAL SITE SKETCH

This permit is issued pursuant to G.S. 130A-335(a2), (a3) & (a4) using the signed and sealed LSS/LG Evaluation attached here, from:

Agri-Waste Technology, Inc

LSS# 1227

AS BUILT SKETCH

TANK SW 12/7/2023
L1 & L2

Permit can be suspended or revoked if any false information is supplied toward securing the permit / any unauthorized changes are made to the site / any unauthorized changes are made in the installation of the system. CONTACT A LOCATOR SERVICE PRIOR TO ANY EXCAVATION

☐ IMPROVEMENT PERMIT with plat valid without expiration. ☒ IMPROVEMENT PERMIT with site plan valid for 60 mos. ☒ AUTHORIZATION TO CONSTRUCT valid for period equal to IMPROVEMENT PERMIT--not to exceed 60 mo.

Owner / Applicant Signature: _____ Date: _____

IMPROVEMENT PERMIT by: Benjamin A. Batten Date: 4-10-2023

AUTHORIZATION TO CONSTRUCT by: Benjamin A. Batten Date: 4-10-2023.

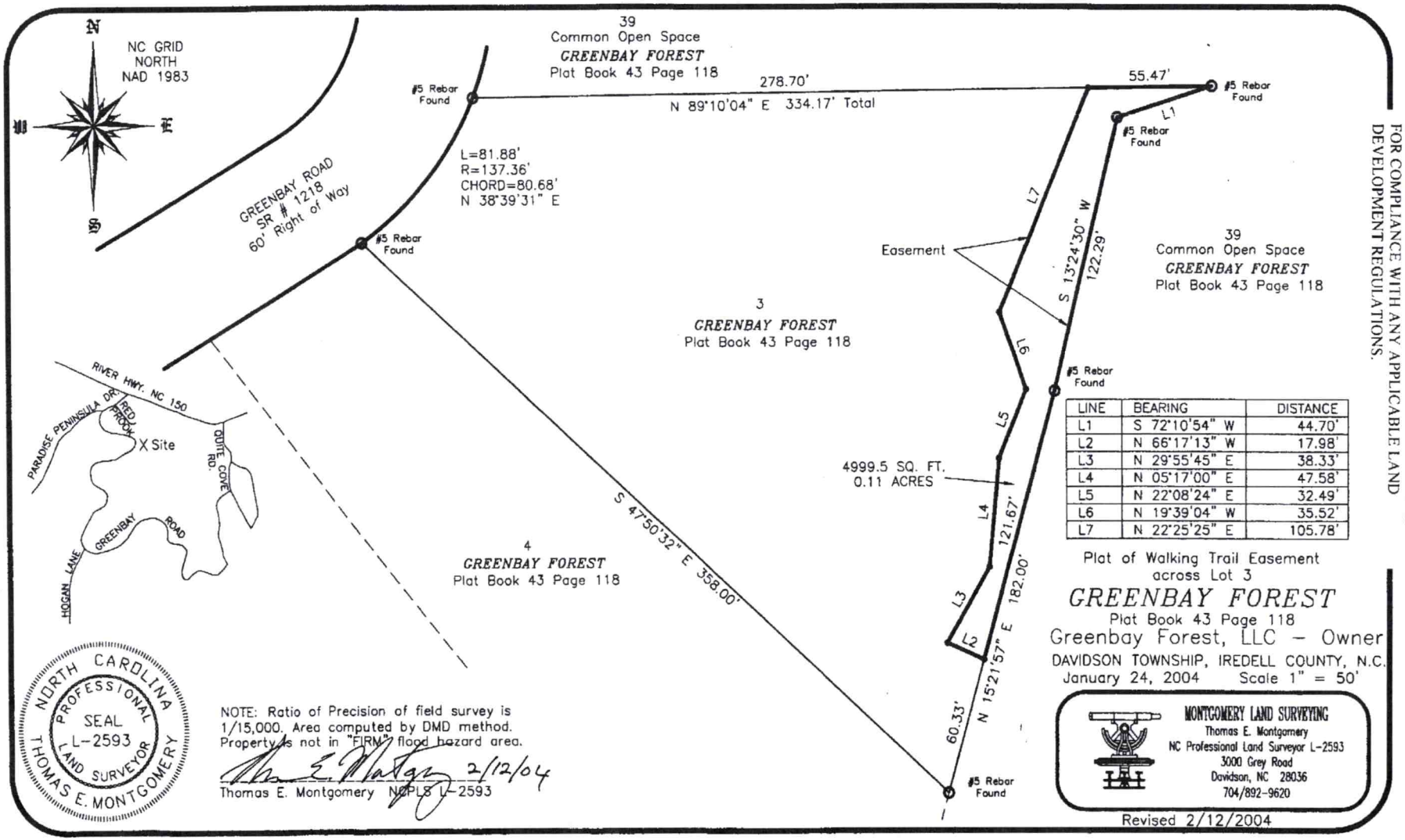
Installed By: Lentz Wastewater

OPERATION PERMIT by: Cory Hill Date: 12/8/23

Existing System Inspected By: _____ Date: _____

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 BETWEEN 8am-9am the day the inspection is needed.

EXHIBIT "A"



LINE	BEARING	DISTANCE
L1	S 72°10'54" W	44.70'
L2	N 66°17'13" W	17.98'
L3	N 29°55'45" E	38.33'
L4	N 05°17'00" E	47.58'
L5	N 22°08'24" E	32.49'
L6	N 19°39'04" W	35.52'
L7	N 22°25'25" E	105.78'

NOTE: Ratio of Precision of field survey is 1/15,000. Area computed by DMD method. Property is not in "FIRM" flood hazard area.

Thomas E. Montgomery NCPLS L-2593 2/12/04

NORTH CAROLINA PROFESSIONAL SEAL L-2593 LAND SURVEYOR THOMAS E. MONTGOMERY

Plat of Walking Trail Easement across Lot 3

GREENBAY FOREST

Plat Book 43 Page 118

Greenbay Forest, LLC – Owner

DAVIDSON TOWNSHIP, IREDELL COUNTY, N.C.

January 24, 2004 Scale 1" = 50'

MONTGOMERY LAND SURVEYING
Thomas E. Montgomery
NC Professional Land Surveyor L-2593
3000 Grey Road
Davidson, NC 28036
704/892-9620

Revised 2/12/2004

THIS MAP IS NOT A CERTIFIED SURVEY AND HAS NOT BEEN REVIEWED BY A LOCAL GOVERNMENT AGENCY FOR COMPLIANCE WITH ANY APPLICABLE LAND DEVELOPMENT REGULATIONS.

Sheet __1__ of __1__
PROPERTY ID #: _4627-88-6713___
COUNTY: _Iredell Co.___

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

BUYER: John Pedone APPLICATION DATE_____
ADDRESS: 151 Greenbay Road, Mooresville, NC. 28117 DATE EVALUATED: 03/17/23
PROPOSED FACILITY: Single Family Residence PROPOSED DESIGN FLOW (.1949): 480 GPD PROPERTY SIZE: 1.38 ac.
LOCATION OF SITE: 151 Greenbay Road, Mooresville, NC. 28117 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	
1	20%	0-10	FILL SOIL	SS; SP; FR	Chroma 2 Observed	38"	-	Chroma 2	0.3GPD/Ft^2
		10-26	SL; GR	SS; SP; FR					
		26-36	SCL; WSBK	SS; SP; FR					
		36-48	C; SBK	SS; SP; FI					
		48+	C; SBK	C2 Observed					
2	20%	0-16	SL; GR	SS; SP; FR	Chroma 2 Observed	46"	-	Chroma 2	0.3GPD/Ft^2
		16-46	C; WSBK	SS; SP; FI					
		46+	C; WSBK	SS; SP; FR					
3	14%	0-12	SL; GR	SS; SP; FR	-	41"	-	Saprolite	0.3GPD/Ft^2
		12-34	C; SBK	SS; SP; FI					
		34-41	CL; WSBK	SS; SP; FR					
		41+	SCL; MA	SS; SP; FR					
4	30%	0-8	FILL SOIL	-	-	48"	-	-	0.3GPD/Ft^2
		8-38	C; SBK	SS; SP; FI					
		38-56	CL; WSBK	SS; SP; FR					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P.S.	P.S.
System Type(s)	Horizontal Panel Block	Horizontal Panel Block
Site LTAR	0.3GPD/Ft^2	0.3GPD/Ft^2

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: ___ Trevor Hackney_____
OTHER(S) PRESENT: ___Nathan Estevez_____

COMMENTS: _____

Updated February 2014

501 N Salem St, Suite 201
Apex, NC 27502

919-859-0669
www.agriwaste.com

SOIL/SITE EVALUATION

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	
5	29%	0-14	SCL; GR	SS; SP; FR	-	52"	-	-	0.3GPD/Ft^2
		14-52	C; SBK	SS; SP; FI					
6	30%	0-16	SCL; GR	SS; SP; FR	Chroma 2 Observed	54"	-	Chroma 2	0.3GPD/Ft2
		16-54	C; SBK	SS; SP; FI					
		54+	C; SBK	SS; SP; FI					
7	25%	0-4	FILL SOIL	-	-	53"	-	-	0.3GPD/Ft2
		4-20	SCL; GR	SS; SP; FR					
		20-57	C; SBK	SS; SP; FI					
8	21%	0-15	SCL; GR	SS; SP; FR	Chroma 2 Observed	44"	-	Chroma 2	0.3GPD/Ft2
		15-44	C; SBK	SS; SP; FI					
		44+	C; ABK	SS; SP; FI					

COMMENTS: _____

PROPERTY ID #: _4627-88-6713___
COUNTY: _Iredell Co.___

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

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ADDRESS: ____151 Greenbay Road, Mooresville, NC. 28117_____ DATE EVALUATED: 03/17/23_____
PROPOSED FACILITY: ____Single Family Residence_____ PROPOSED DESIGN FLOW (.1949): 480 GPD_ PROPERTY SIZE: _1.38 ac.
LOCATION OF SITE: _____151 Greenbay Road, Mooresville, NC. 28117_____ 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	
1	20%	0-10	FILL SOIL	SS; SP; FR	Chroma 2 Observed	38"	-	Chroma 2	0.3GPD/Ft²
		10-26	SL; GR	SS; SP; FR					
		26-36	SCL; WSBK	SS; SP; FR					
		36-48	C; SBK	SS; SP; FI					
		48+	C; SBK	C2 Observed					
2	20%	0-16	SL; GR	SS; SP; FR	Chroma 2 Observed	46"	-	Chroma 2	0.3GPD/Ft²
		16-46	C; WSBK	SS; SP; FI					
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3	14%	0-12	SL; GR	SS; SP; FR	-	41"	-	Saprolite	0.3GPD/Ft²
		12-34	C; SBK	SS; SP; FI					
		34-41	CL; WSBK	SS; SP; FR					
		41+	SCL; MA	SS; SP; FR					
4	30%	0-8	FILL SOIL	-	-	48"	-	-	0.3GPD/Ft²
		8-38	C; SBK	SS; SP; FI					
		38-56	CL; WSBK	SS; SP; FR					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	P.S.	P.S.
System Type(s)	Horizontal Panel Block	Horizontal Panel Block
Site LTAR	0.3GPD/Ft²	0.3GPD/Ft²

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____

EVALUATED BY: ___ Trevor Hackney_____
OTHER(S) PRESENT: ___Nathan Estevez_____

COMMENTS: _____

LEGEND

use the following standard abbreviations

LANDSCAPE POSITION	GROUP	SOIL TEXTURE	CONVENTIONAL .1955 LTAR*	LPP .1957 LTAR*	MINERALOGY/ CONSISTENCE	STRUCTURE
CC (Concave Slope)	I	S (Sand)	1.2 - 0.8	0.6 - 0.4	SEXP (Slightly Expansive)	G (Single Grain)
CV (Convex Slope)		LS (Loamy Sand)			EXP (Expansive)	M (Massive)
D (Drainage Way)						CR (Crumb)
DS (Debris Slump)	II	SL (Sandy Loam)	0.8 - 0.6	0.4 - 0.3		GR (Granular)
FP (Flood Plain)		L (Loam)				SBK (Subangular Blocky)
FS (Foot Slope)						ABK (Angular Blocky)
H (Head Slope)	III	Si (Silt)	0.6 - 0.3	0.3 - 0.15		PL (Platy)
L (Linear Slope)		SiCL (Silty Clay Loam)				PR (Prismatic)
N (Nose Slope)		CL (Clay Loam)				
R (Ridge)		SCL (Sandy Clay Loam)			**MOIST**	**WET**
S (Shoulder Slope)		SiL (Silt Loam)				
T (Terrace)					VFR (Very Friable)	NS (Non-sticky)
	IV	SC (Sandy Clay)	0.4 - 0.1	0.2 - 0.05	FR (Friable)	SS (Slightly Sticky)
		SiC (Silty Clay)			FI (Firm)	S (Sticky)
		C (Clay)			VFI (Very Firm v. Very Sticky)	VS (Very Sticky)
		O (Organic)	None	None	EFI (Extremely Firm)	NP (Non-plastic)
						SP (Slightly Plastic)
						P (Plastic)
						VP (Very Plastic)

*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

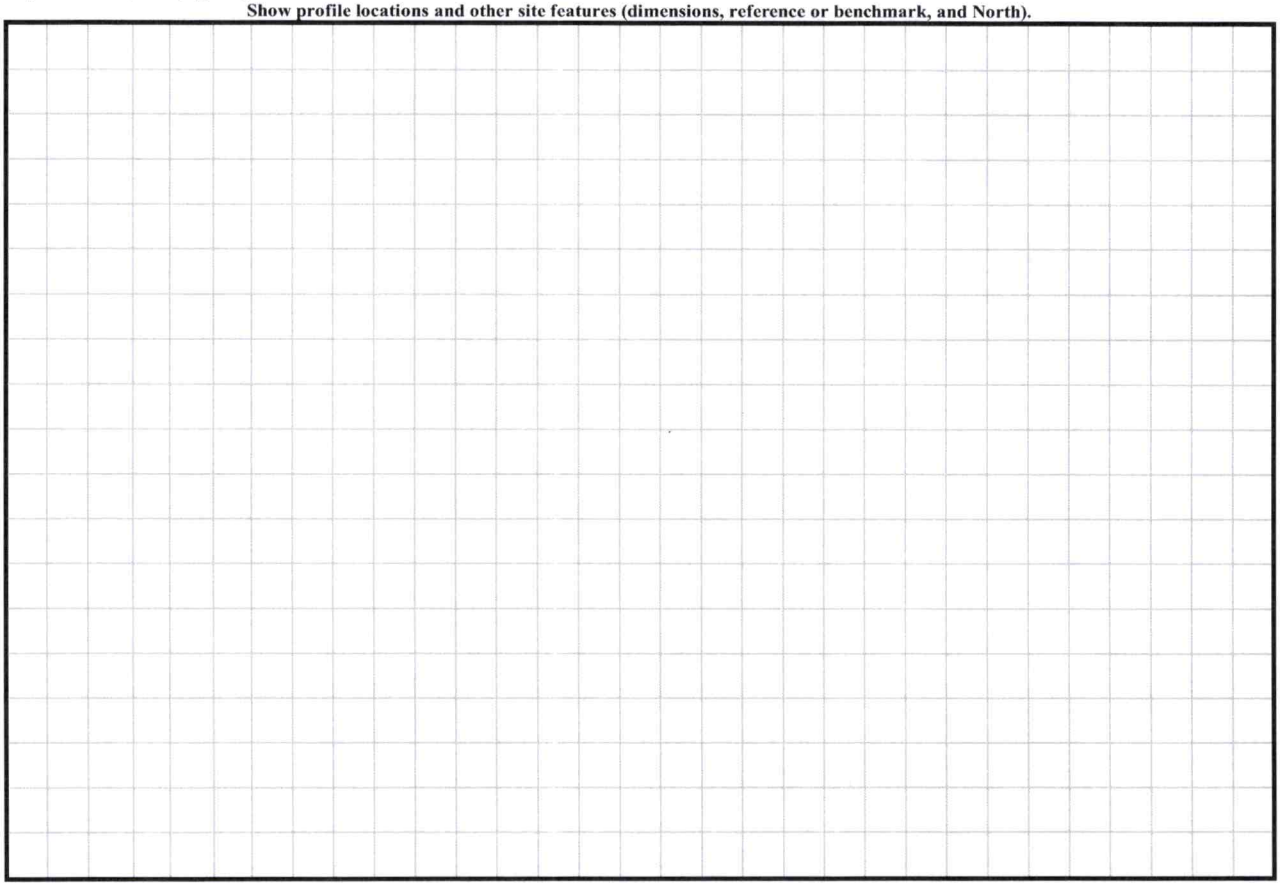
NOTES

HORIZON DEPTH	In inches below natural soil surface
DEPTH OF FILL	In inches from land surface
RESTRICTIVE HORIZON	Thickness and depth from land surface
SAPROLITE	S(suitable) or U(unsuitable)
SOIL WETNESS	Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation
CLASSIFICATION	S (Suitable), PS (Provisionally Suitable), or U (Unsuitable)

Evaluation of saprolite shall be by pits.

Long-term Acceptance Rate (LTAR): gal/day/ft^2

Show profile locations and other site features (dimensions, reference or benchmark, and North).



501 N Salem St, Suite 201
Apex, NC 27502

919-859-0669
www.agriwaste.com

SOIL/SITE EVALUATION

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	
5	29%	0-14	SCL; GR	SS; SP; FR	-	52"	-	-	0.3GPD/Ft^2
		14-52	C; SBK	SS; SP; FI					
6	30%	0-16	SCL; GR	SS; SP; FR	Chroma 2 Observed	54"	-	Chroma 2	0.3GPD/Ft2
		16-54	C; SBK	SS; SP; FI					
		54+	C; SBK	SS; SP; FI					
7	25%	0-4	FILL SOIL	-	-	53"	-	-	0.3GPD/Ft2
		4-20	SCL; GR	SS; SP; FR					
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8	21%	0-15	SCL; GR	SS; SP; FR	Chroma 2 Observed	44"	-	Chroma 2	0.3GPD/Ft2
		15-44	C; SBK	SS; SP; FI					
		44+	C; ABK	SS; SP; FI					

COMMENTS: _____

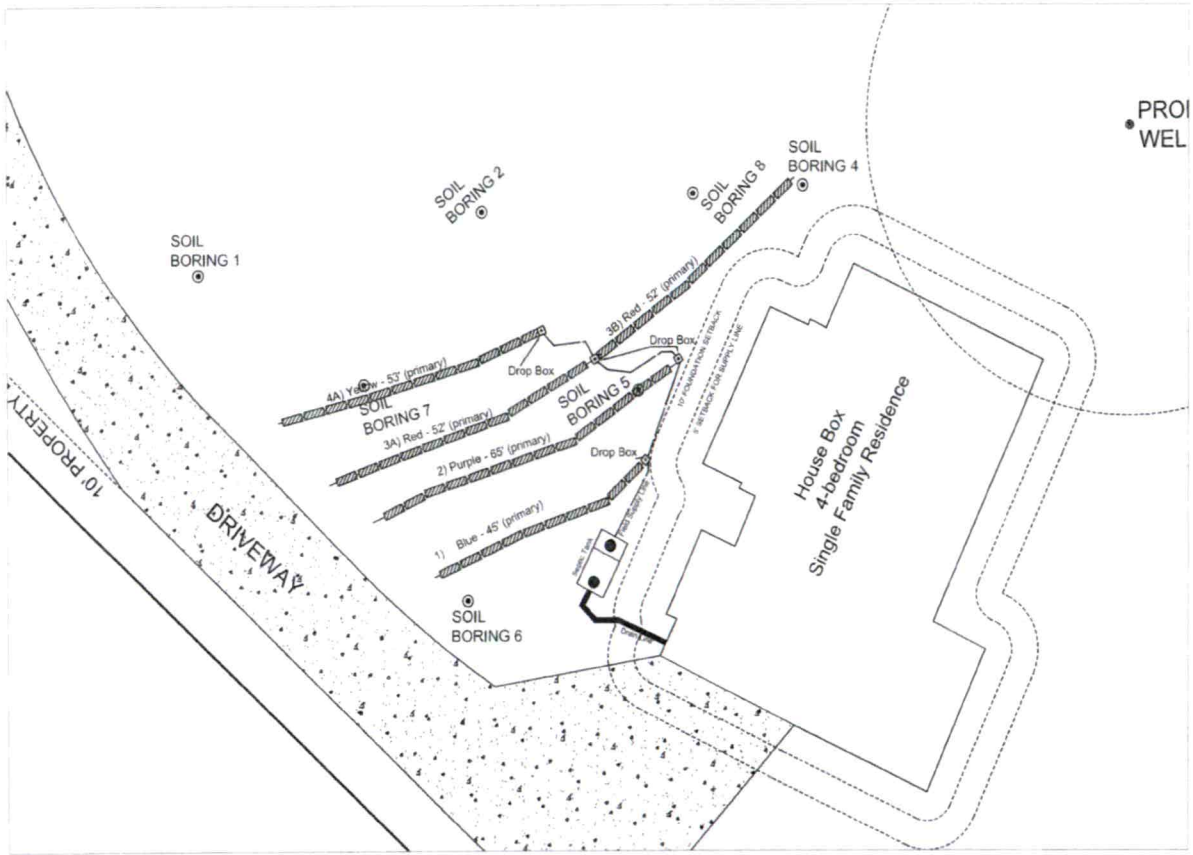
General Drainfield Notes:

1. Clear all trees less than 8" in diameter (measured at a height 3' from soil surface) from the drainfield.
2. Vegetation that will re-grow from a cut stump shall be stumped or pulled from the ground. Stumps shall not be pushed over.
3. Drainfield area shall be cleared of all leaves, pine straw, debris, etc. The accumulated material shall be removed from the drainfield.
4. In clayey soils, sides of trenches shall be raked and limed per manufacturer's instructions.
5. The trenches shall be backfilled appropriately so that no low areas are present.
6. Apply lime over the drainfield area as needed. Seed fine fescue over the drainfield at the rate recommended by the seed manufacturer. Hand rake the seed into the soil surface. Straw the seeded area at the rate of 1.5-2 bales per 1000 sq. ft.

DRAINFIELD INFO. - **Primary**

Proposed Type of System/Distribution: *HPPBPS/ Gravity Serial*

Line No.	Flag Color	Line Length (ft)
1	Blue	45
2	Purple	65
3A	Red	52
3B	Red	52
4A	Yellow	53



John Pedone
Pedone - Greenbay Rd

Project Location:
151 Greenbay Rd
Mooresville, NC 28117
Iredell County
PIN: 4627886713

Project Owner
John Pedone
5822 NW 41st Ln
Coconut Creek, FL 33073
704-375-9734
pedoneteam@gmail.com

REV.	ISSUED DATE	DESCRIPTION
		ILLSTILES REV. DRAINFIELD LOCATION 3/14/23

SHEET TITLE
Primary Drainfield

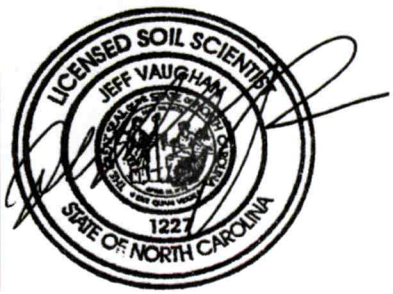
DRAWN BY: B Stiles	CREATED ON: 1/4/2023
REVISED BY: B Stiles	REVISED ON: 1/23/2023
RELEASED BY:	RELEASED ON:

DRAWING NUMBER
WW-3

Engineers and Soil Scientists

Agri-Waste Technology, Inc.
501 N. Salem Street, Suite 203
Apex, North Carolina 27502
919-859-0669
www.agriwaste.com





Soil Suitability for Domestic Sewage Treatment and Disposal Systems
151 Greenbay Road, Mooresville, NC. 28117
Iredell County PIN: 4627-88-6713

PREPARED FOR: John Pedone, Client

PREPARED BY: Jeff Vaughan, Licensed Soil Scientist
Trevor Hackney, Environmental Scientist

DATE: March 17, 2023

Soil suitability for domestic sewage treatment and disposal systems was evaluated from March 7, 2022, for the property located at 151 Greenbay Road, Mooresville, NC. Jeff Vaughan and Trevor Hackney of Agri-Waste Technology, Inc. (AWT) conducted the soil evaluation. This evaluation was done to facilitate permitting for a 4-bedroom home. This report and attached documents were prepared *to this application is to be used to issue an Improvement Permit in accordance with G.S. 130A-335(a2) and (a3). The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).*

A drawing of the site plan, septic layout, and boring locations is included in Attachment 1. Profile descriptions for each boring are included in Attachment 2. Additional Documentation is in Attachment 3.

The total property area is 1.38 acres. The property is has been cleared and graded. Soil disturbance occurred during the grading and clearing process. AWT met the grader on site on March 6 to oversee the fill soil removal which had been piled onto the drain field area. The fill soil was removed, and any remain amounts of fill soil are noted in the soil boring description logs. The home is proposed near the middle of the property with the septic system proposed in the front of the home. Much of the property has unsuitable topography for septic systems and there is a walking trail easement that is near the rear of the property. The proposed system is a gravity dosed horizontal panel block style trench with serial distribution.

Soil Suitability for Domestic Sewage Treatment and Disposal Systems

The drawing in Attachment 1 details the property boundaries (as surveyed by Don Allen & Associates), soil boring locations, and layout of drain field trenches (Completed by AWT). Eight soil borings were assessed on the property. Soil borings were examined to determine soil suitability for on-site sewage disposal systems in accordance with 15A 18A .1900 Rules for Sewage Treatment and Disposal Systems. These borings were advanced with a hand auger. Soil borings 4, 5, 6, and 7 are being used to delineate the primary septic system. Soil Borings 1, 2, 3 and 8 are being used to delineate the repair septic system.

A septic layout was performed to demonstrate available space (.1945). The layout in Attachment 1 indicates there is available space for a four-bedroom primary and repair septic system utilizing the 50% reduction of horizontal panel block trenches.

The proposed LTAR (Long Term Acceptance Rate) by AWT is 0.3 GPD/ft^2. The soils on this property are group IV soils within the distribution and treatment zone as used to define the LTAR. Since usable slope corrected soil depths meet or exceed 42" for the primary septic system AWT is recommending the use of horizontal panel block trenches to utilize the 50% reduction. The maximum trench bottom should not exceed 30" for the primary septic system. With a LTAR of 0.3 GPD/ft^2, 267 linear feet of panel block style trench is necessary to support a four-bedroom home initial system. The attached drawing proves that 267 linear feet of panel block can be installed for the primary system. The repair field will also require 267 linear feet of panel block style trench. The usable slope corrected depth soil depths for the repair field meet or exceed 36". The maximum trench bottom should not exceed 24" for the repair field. The attached drawing proves that 267 linear feet of trench can be installed for the repair system with the proposed home location.

Any disturbances or grading done in the usable area will change the potential of using the area designated for a drain field. Prior to moving forward with building on the property, Iredell County Environmental Health Department should be contacted to complete the necessary review of this documentation to issue an IP (Improvement Permit) for the property and the CA (Construction Authorization).

Conclusions

An IP (Improvement Permit) and CA (Construction Authorization) for this property can be issued with the site plan that is in Attachment 1. A CA permit will be required in order to secure a building permit for the property. The county issues an Operation Permit after the system has been installed to meet the specifications of the Authorization to Construct. Additional septic layouts have been or will be performed as needed. It will be critical to not disturb any of the proposed septic area or there is a risk that the IP and CA will be revoked. *This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).*

We appreciate the opportunity to assist you in this matter. Please contact us with any questions, concerns, or comments.

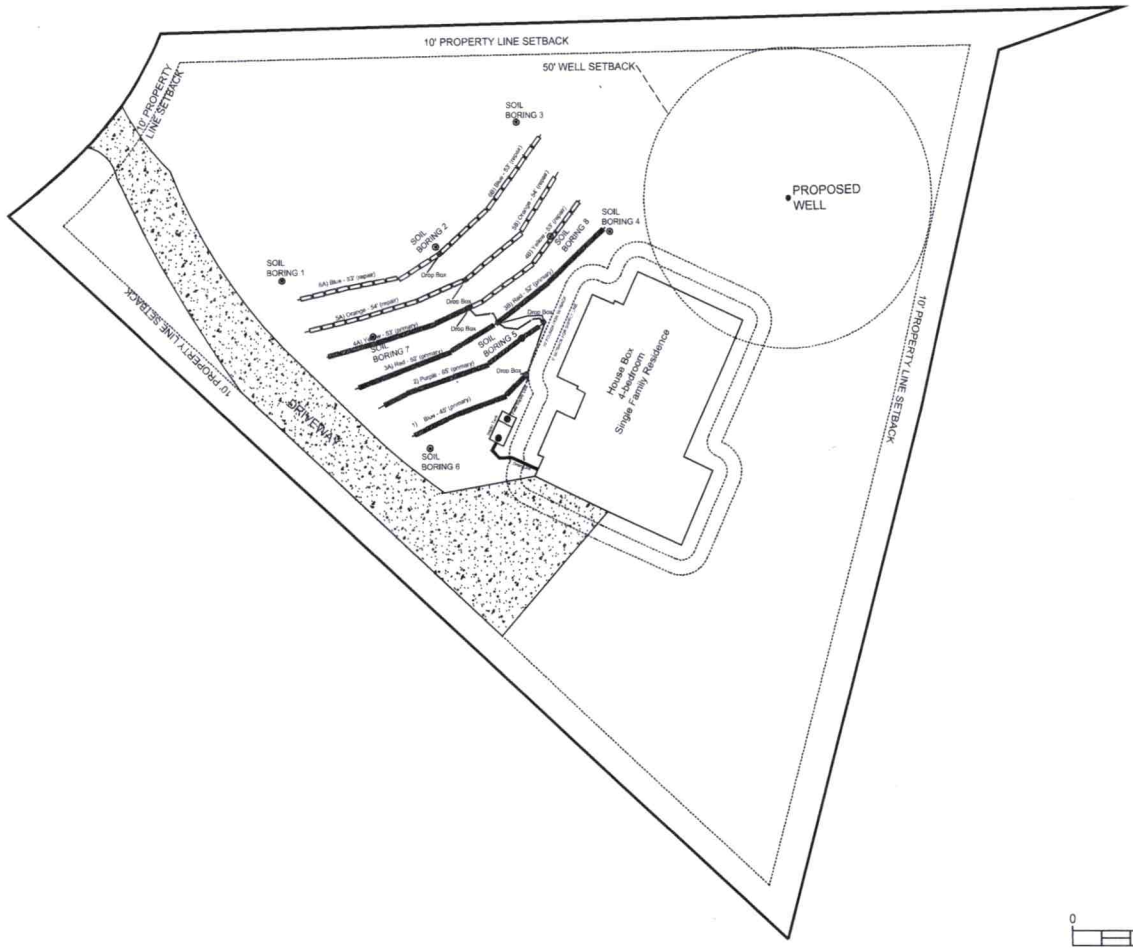
Sincerely,

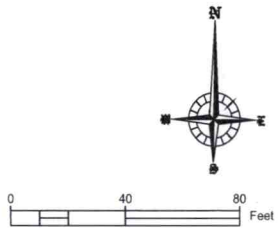
Jeff Vaughan

Trevor Hackney

Attachment 1: Site Plan/Drawing

NOTES - Contractor to adjust tank placements as necessary to maintain:
1. 25' downslope/15' sideslope/10' upslope setback from foundation drain
2. Min. 12" cover over Septic Tank (Not to exceed 36")
3. Min. 2% grade on gravity pipe from house to Septic Tank





Foundation Drain Setbacks:
10' Upslope
15' Sideslope
25' Downslope

PROPERTY LAYOUT
WW-2
SOURCE: Agri - Waste Technology, Inc.

John Pedone
Pedone - Greenbay Rd

Project Location:
151 Greenbay Rd
Mooresville, NC 28117
Iredell County
PIN: 4627886713

Project Owner:
John Pedone
5822 NW 41st Ln
Coconut Creek, FL 33073
704-975-9754
jpedoneteam@gmail.com

REV.	ISSUED DATE	DESCRIPTION
B.STILES REV. DRAINFIELD LOCATION	3/14/23	

SHEET TITLE
Property Layout

DRAWN BY:	CREATED ON:
B Stiles	1/4/2023
REVISED BY:	REVISED ON:
B Stiles	1/23/2023
RELEASED BY:	RELEASED ON:

DRAWING NUMBER
WW-2

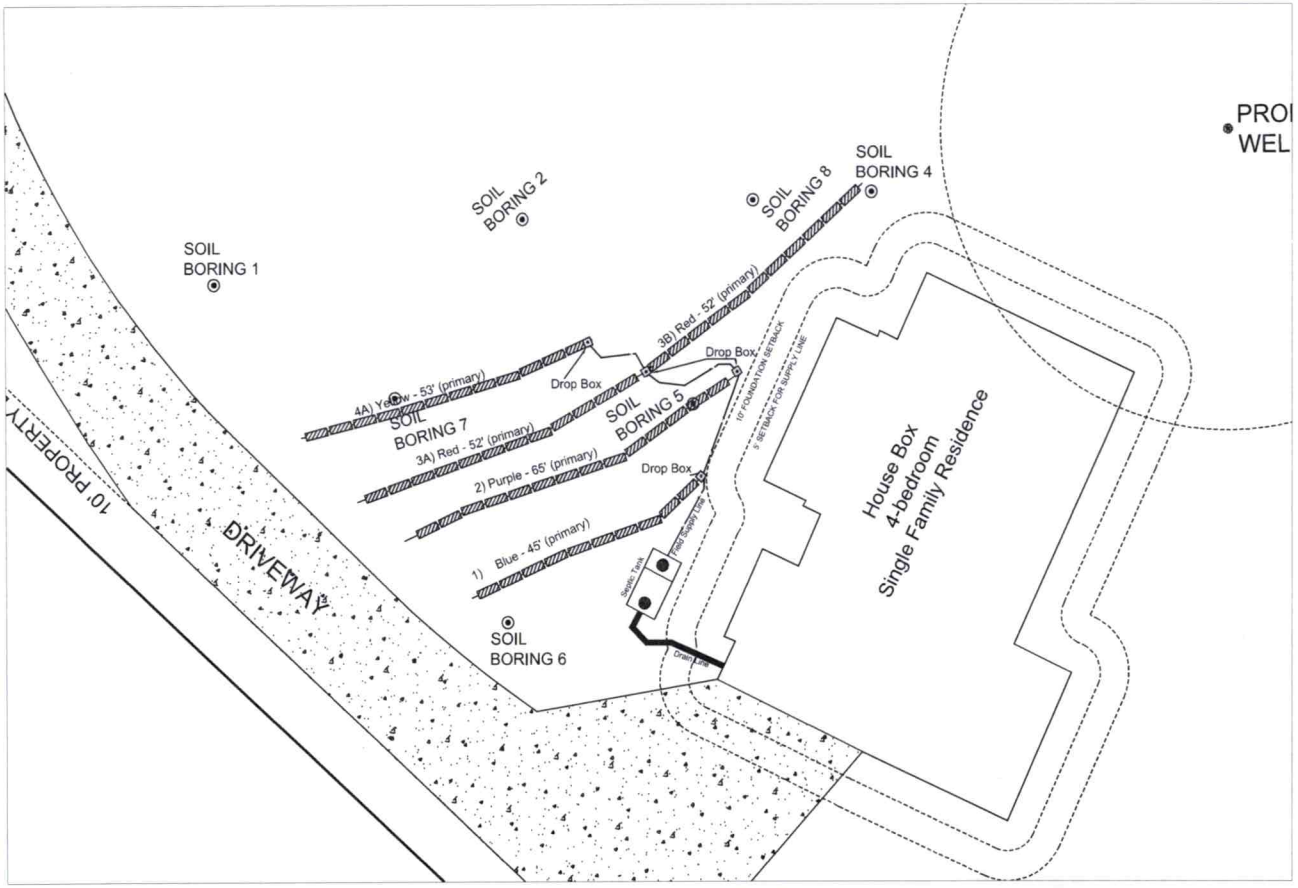
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2	Purple	65
3A	Red	52
3B	Red	52
4A	Yellow	53



WW-3

John Pedone
Pedone - Greenbay Rd

Project Location:
151 Greenbay Rd
Mooresville, NC 28117
Iredell County
PIN: 4627886713

Project Owner:
John Pedone
5822 NW 41st Ln
Coconut Creek, FL 33073
704-975-9754
jpedoneteam@gmail.com

REV.	ISSUED DATE	DESCRIPTION
B.STILES REV. DRAINFIELD LOCATION	3/14/23	

SHEET TITLE
Primary Drainfield

DRAWN BY: B Stiles	CREATED ON: 1/4/2023
REVISED BY: B Stiles	REVISED ON: 1/23/2023
RELEASED BY:	RELEASED ON:

DRAWING NUMBER
WW-3

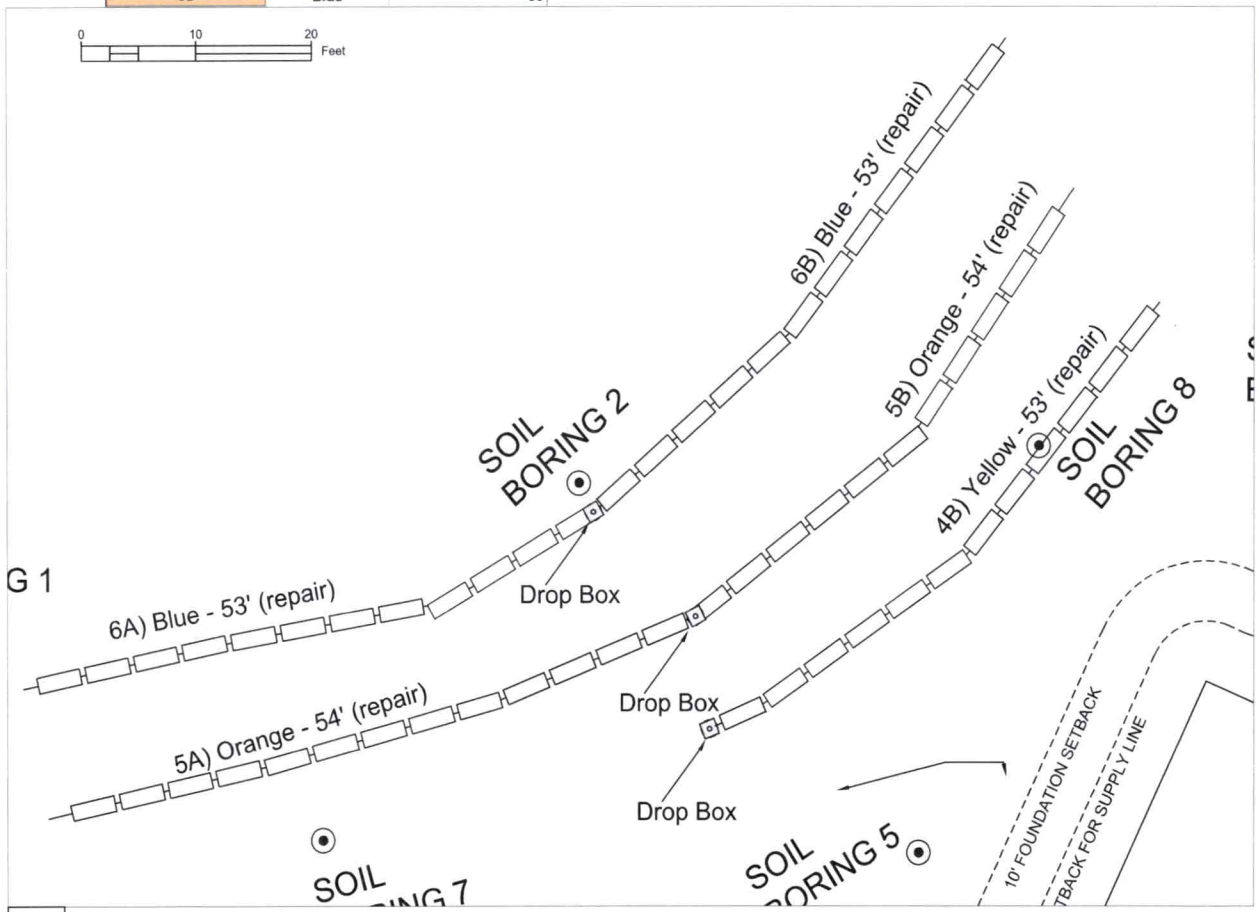
General Drainfield Notes:

1. Clear all trees less than 8" in diameter (measured at a height 3' from soil surface) from the drainfield.
2. Vegetation that will re-grow from a cut stump shall be stumped or pulled from the ground. Stumps shall not be pushed over.
3. Drainfield area shall be cleared of all leaves, pine straw, debris, etc. The accumulated material shall be removed from the drainfield.
4. In clayey soils, sides of trenches shall be raked and limed per manufacturer's instructions.
5. The trenches shall be backfilled appropriately so that no low areas are present.
6. Apply lime over the drainfield area as needed. Seed fine fescue over the drainfield at the rate recommended by the seed manufacturer. Hand rake the seed into the soil surface. Straw the seeded area at the rate of 1.5-2 bales per 1000 sq. ft.

DRAINFIELD INFO. - **Repair**

Proposed Type of System/Distribution: ***HPPBPS/ Gravity Serial***

Line No.	Flag Color	Line Length (ft.)
4B	Yellow	53
5A	Orange	54
5B	Orange	54
6A	Blue	53
6B	Blue	53



Repair Drainfield

SOURCE: Agri-Waste Technology, Inc.

John Pedone
Pedone - Greenbay Rd

Project Location:
151 Greenbay Rd
Mooresville, NC 28117
Iredell County
PIN: 4627886713

Project Owner:
John Pedone
5822 NW 41st Ln
Coconut Creek, FL 33073
704-975-9754
jpedoneteam@gmail.com

REV.	ISSUED DATE	DESCRIPTION
1	STILES REV.	DRAINFIELD LOCATION 3/14/23

SHEET TITLE
Repair Drainfield

DRAWN BY:	CREATED ON:
B Stiles	1/4/2023
REVISED BY:	REVISED ON:
B Stiles	1/23/2023
RELEASED BY:	RELEASED ON:

DRAWING NUMBER
WW-4

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 4/4/2023 (Date) by BB (Initials)

Permit Number: OSWP-2023-20500

G.S. 130A-335(a4) states the following: *'If a local health department fails to act on an application for an improvement permit submitted pursuant to subsection (a3) of the section within 10 business days of receipt of a complete application, the local health department shall issue the improvement permit.'*

In accordance with G.S. 130A-335(a3) the improvement permit application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing:

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the LSS and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Benjamin A. Battle Date of Issuance: 4-10-2023

This Improvement Permit is issued pursuant to G.S. 130A-335 (a2), (a3), and (a4) using the signed and sealed LSS/LG evaluation(s) attached here. The issuance of this permit by the Health Department in no way guarantees the issuance of other permits. The permit holder is responsible for checking with appropriate governing bodies in meeting their requirements. This site is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Improvement Permit shall not be affected by a change in ownership of the site. This permit is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to evaluations, submittals, or actions from a licensed soil scientist or licensed geologist pursuant to GS 130A-335(a2).

Improvement Permit Expiration Date: 4-10-2028

See attached site sketch

County: Iredell

This Section for Local Health Department Use Only

Initial submittal received: 4-4-2023 (Date) by BB. (Initials)

Permit Number: OSWP-2023-20500

G.S. 130A-335(a6) states the following: *'If a local health department fails to act on an application for a construction authorization submitted pursuant to subsection (a5) of the section within 10 business days of receipt of a complete application, the local health department shall issue the construction authorization.'*

In accordance with G.S. 130A-335(a5) the construction authorization application is:

☐ Incomplete (If box is checked, information in this section is required.)

The following items are missing: _____

_____

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☐ Denied (See attached report.)

Copies of this were sent to the AOWE/PE and the Owner on _____ (Date)

State Authorized Agent: _____ Date: _____

☑ Complete

State Authorized Agent: Benjamin A. Batts Date of Issuance: 4-10-2023.

This Construction Authorization is issued pursuant to G.S. 130A-335(a2), (a5), and (a6) using the signed and sealed plans or evaluations attached here. This Construction Authorization is subject to revocation if the site plan, plat, or the intended use changes, or if information submitted in the application was falsified, inaccurate or misleading. The Construction Authorization shall not be affected by a change in ownership of the site. This Construction Authorization is subject to compliance with the provisions of the Laws and Rules for Sewage Treatment and Disposal and to the conditions of this permit. The location and identification of all property lines, easements, water lines, and other appropriate utilities shall be the responsibility of the owner. Final landscaping shall be constructed to divert water and establish vegetative cover.

The Department, the Department's authorized agents, and the local health departments shall be discharged and released from any liabilities, duties, and responsibilities imposed by statute or in common law from any claim arising out of or attributed to plans, evaluations, preconstruction conference findings, submittals, or actions from a person licensed pursuant to Chapter 89C of the General Statutes as a licensed engineer or a person certified pursuant to Article 5 of Chapter 90A of the General Statutes as an Authorized On-Site Wastewater Evaluator in GS 130A-335(a2), (a5), and (a7). The Department, the Department's authorized agents, and the local health departments shall be responsible and bear liability for their actions and evaluations and other obligations under State law or rule, including the issuance of the operations permit pursuant to GS 130A-337.

Construction Authorization Expiration Date: 4-10-2023.

See attached site sketch

County: Iredell

IMPROVEMENT PERMIT FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4627-88-6713

Issued To: John Pedone

Property Location: 151 Greenbay Road, Mooresville, NC. 28117

Subdivision: Greenbay Forest Lot #: 3 Block: _____ Section: _____

LSS Report Provided: Yes ☑ No ☐

If yes, name and license number of LSS: Jeff Vaughan, 1227

New ☑ Repair ☐ Expansion ☐ System Relocation ☐

Proposed Structure: Single Family Residence

Proposed Wastewater System Type: Gravity, 50% Reduction (Initial) Gravity, 50% Reduction (Repair)

Fill System: ☐ Yes ☑ No If yes, specify: ☐ New ☐ Existing (when adding more than 6 inches of fill to system area please provide a fill plan)

Proposed Design Daily Flow: 480 GPD Proposed LTAR (Initial): 0.3 Proposed LTAR (Repair): 0.3

Design Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Number of bedrooms: 4 Number of Occupants: 8 Other: _____

Pump Required: ☐ Yes ☑ No ☐ May be required based upon final location and elevations of facilities

Artificial Drainage Required: ☐ Yes ☑ No If yes, please specify details: _____

Type of Water Supply: ☑ Private well ☐ Public well ☐ Municipal Supply ☐ Spring ☐ Other: _____

Drainfield location meets requirements of Rule .1945: Yes ☑ No ☐

Drainfield location meets requirements of Rule .1950: Yes ☑ No ☐

Permit valid for: ☑ Five years [site plan submitted pursuant to GS 130A-334(13a)] ☐ No expiration [plat submitted pursuant to GS 130A-334(7a)]

Permit conditions:

Horizontal placement Panel Block trench to be used.

Licensed Soil Scientist Print Name: Jeff Vaughan

Licensed Soil Scientist Signature: Jeff V Date: 3/17/2023

The LSS evaluation is being submitted pursuant to and meets the requirements of G.S. 130A-335(a2).

See attached site sketch

County: Iredell

CONSTRUCTION AUTHORIZATION FOR G.S. 130A-335(a2)/SL2022-11

PIN/Lot Identifier: 4627-88-6713

Issued To: John Pedone

Property Location: 151 Greenbay Road, Mooresville, NC. 28117

AOWE/PE Plans/Evaluations Provided: Yes ☑ No ☐ If yes, name and license number of AOWE/PE: Jeff Vaughan, 10003E

Facility Type: Single Family Residence

☑ New ☐ Expansion ☐ Repair System Relocation ☐

Basement? ☐ Yes ☑ No Basement Fixtures? ☐ Yes ☑ No

Type of Wastewater System** Gravity 50% Reduction (Initial) Gravity, 50% Reduction (Repair)

Design Daily Flow: 480 GPD Wastewater Strength: ☑ domestic ☐ high strength ☐ industrial process

Session Law 2014-120 Section 53, Engineering Design Utilizing Low-flow Fixtures and Low-flow Technologies? ☐ Yes ☑ No

Installation Requirements/Conditions

Septic Tank Size: 1,000 gallons Total Trench/Bed Length: 267 feet Trench/Bed Spacing: 9 feet on center

Drainfield square footage: 800 Trench/Bed Width: 36 inches LTAR: 0.3 gpd/ft²

Soil Cover: 6+ inches Slope Adjusted Maximum Trench/Bed Depth: 30 inches

Aggregate Depth: _____inches above pipe _____inches below pipe 14 inches total

Pump Tank Size (if applicable): _____ gallons Requires more than 1 pump? ☐ Yes ☑ No

Pump Requirements: _____ ft. TDH vs. _____ GPM Grease Trap Size (if applicable): _____ gallons

Distribution Method: ☑ Serial ☐ D-Box or Parallel ☐ Pressure Manifold(s) ☐ LPP ☐ Other: _____

Artificial Drainage Required: Yes ☐ No ☑ If yes, please specify details: _____

Legal Agreements *(If the answer is "Yes" to any type of legal agreements, please attach a copy of the agreement.)*

Multi-party Agreement Required [.1937(h)]: Yes ☐ No ☑

Easement, Right-of-Way, or Encroachment Agreement Required [.1938(j)]: ☐ Yes ☑ No

Declaration of Restrictive Covenants: ☐ Yes ☑ No

****If applicable:**

I understand the system type specified is different from the type specified on the application. I accept the specifications of this permit.

Owner/Legal Representative Print Name: _____

Owner/Legal Representative Signature: _____ Date: _____

Pre-Construction Conference Required: Yes ☐ No ☑

Conditions: Horizontal placement Panel Block trench to be used. The repair field will have a 24" max trench bottom. The soil that is currently labeled fill near SB1 should be screened to remove debris and used as the proper cover for the repair field.

The construction and installation requirements of Rules .1950, .1952, .1954, .1955, .1956, .1957, .1958, and .1959 are incorporated by reference into this permit and shall be met. Systems shall be installed in accordance with the attached system layout.

AOWE/PE Print Name: Jeff Vaughan

AOWE/PE Signature: _____ Date: 03/17/2023

This AOWE/PE submittal is pursuant to and meets the requirements of G.S. 130A-335(a2) and (a5).

See attached site sketch