ICHD - ENVIRONMENTAL HEALTH DIVISION

Statesville Office (704) 878-5305 x3456 Mooresville Office (704) 660-3625

PERMIT : AP 316995

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

PIN # 4665 -17 - 8137

APPLICANT/OWNER: Andrew Pipas APPLICANT ADDRESS: 109 Sand Spur Drive Mooresville NC 28117

SITE ADDRESS: 744 Faith Rd Mooresville NC 28115 PHONE: 704.955 3152 ALT. PHONE 704-995 7858

SITE DIRECTIONS: Shearer Rd to Faith Rd Site on Left. SAP CONTROLLED: ☐ YES ☒ NO

SUBDIVISION: Kimberly Wirtz & Robert Witherow SECTION: - LOT # 1 LOT AREA: 2.00 AC DESIGN FLOW: 720 L.T.A.R.: -30

Septic Tank 1500 (gal) STB 1/1/Heather Date

Pump Tank (gal) PT Date

Pump Make Model Serial #

Nitrification Fields 1 # Lines 6 Linear Ft 600

Trench Width 36in Trench Bottom Depth(~~Low side~~) 34in max Gravel Depth -

☒ New System ☐ Repair ☐ Expansion System Type: I II (III) IV V VI

System Description: Gravity - 25% Reduction

Repair System Description: LPP - Pearl Block - 50% Reduction

Maintenance Agreement Required: ☐ YES ☒ NO

☒ GRAVITY ☐ PRESSURE

☒ Residence No. Bedrooms 6

☐ Business No. Persons 12

☐ Other No. Employees

☒ Slab ☐ Crawl Space

☐ Basement w/plumbing ☐ Basement w/o plumbing

Water Supply

☒ Private

☐ Public

☐ Community

Comments / Conditions:

Need building staked to sign OP

INITIAL SITE SKETCH

This permit is issued pursuant to Section 11 . (C) of S.L. 2018-114 using the signed and sealed LSS Evaluation by:

Thompson Environmental Consulting Inc.

LSS # 1208

AS BUILT SKETCH

FOR SEPTIC FINAL INSPECTION CALL: 704-664-3703 between 8am-9am the day the inspection is needed. Be sure to speak with an inspector to confirm your time.

- top (2) lines checked > 1/11/22 DW
- tank checked
- bottom lines checked > 1/12/22 CW
- d-box checked

As Built Attached

Garage no longer a portion of the system, will need existing system inspection to build in the future - per Jody Pipas 7/26/22

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.*

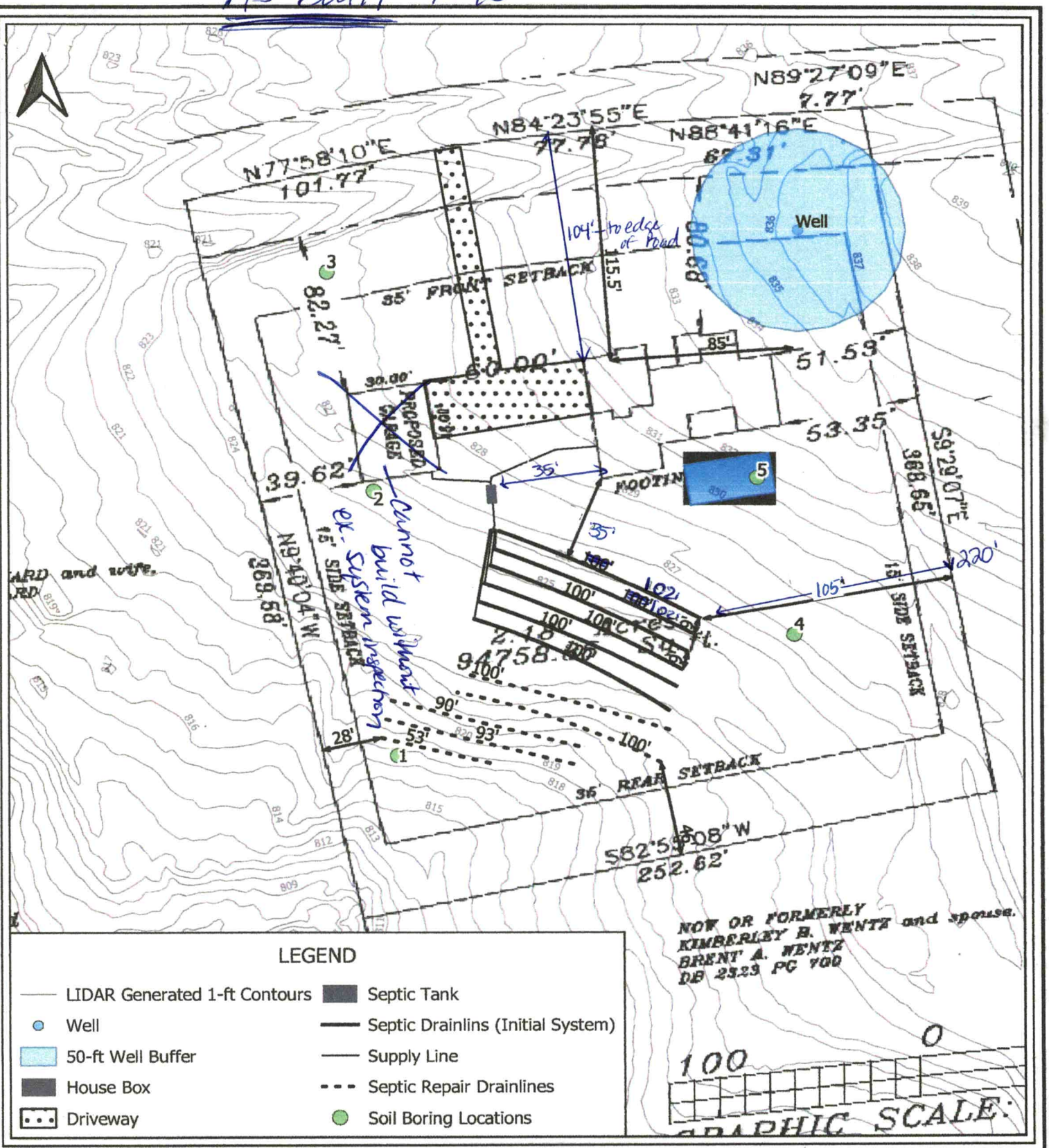
Owner / Applicant Signature: Jody E Pipas Date: 1-10-22 Installed by: TW Ammons

IMPROVEMENT PERMIT by: Benjamin A Boyette Date: 1/7/2022 OPERATION PERMIT by: D.Wiebery Date: 7/26/22

AUTHORIZATION TO CONSTRUCT by: Benjamin A Boyette Date: 1/7/2022 Existing System Inspected by: Date:

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

As Built NTS



Thompson Environmental Consulting

Prepared For:
Andrew Pipas

Soil and Site Evaluation

744 Faith Road
Mooresville, NC 28115
Iredell County

Date: December 2021
Scale: 0 30 60 ft
TEC Job #: 21-108

Figure 2

Original

to planting. After applying grass seed, the area should be heavily mulched with straw or other suitable material.

F. Utility Conflicts

1. The builder and property owner must take special care in planning for water, power, gas, telephone, and cable lines. These utilities shall be kept clear of all parts of the septic system and its proposed repair area. Improper planning for underground utilities can negatively impact the installation and, in some cases, cause irreparable damage and permit revocation. If there are any questions regarding preferred routes, contact the ICEH as soon as possible.
2. Lawn irrigation should not be placed over the drainfield area.

Maintenance

G. In General

1. The homeowner must maintain the drainfield area through periodic mowing. The drainfield must not be allowed to become overgrown.
2. The septic tank should be pumped every 4 years or when the solids within the septic tank reach an elevation that is equivalent to 25 percent of the volume of the tank. In some situations, the tanks may need to be pumped more frequently. If using a garbage disposal, it is recommended that the homeowner has the septic and pump tanks cleaned out annually.
3. When it becomes necessary to clean the effluent filter, the filter should be removed, and the accumulated debris washed back into the septic tank – not onto the lawn.
4. Any damp areas, leakages or malfunctions in the drainfield area should be addressed immediately.
5. Divert gutter downspouts and surface water runoff away from the septic and pump tanks.

Design Specifics

Daily Design Flow:	720 GPD
Septic Tank Size:	1,500 Gallons (minimum)
Effluent Loading Rate:	0.3 GPD per sq. ft. Accepted
Drainfield Type:	25% Reduction Distribution
Distribution Method:	Box
Number of Drainlines:	(6) 3' Wide x 100' Long
Total Trench Length:	600 Linear Feet

Maximum Trench Depth: Final	34 Inches
Cover Requirement:	6 Inches

Repair Option

Effluent Loading Rate:	0.3 GPD per sq. ft.
Drainfield Type:	PPBPS
Distribution Method:	LPP
Total Trench Length Available:	436 Linear Feet
Maximum Trench Depth:	32 Inches
Final Cover Requirement:	6 Inches

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

PROPERTY ID #: 4657813 7.000
COUNTY: Iredell

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: Martha Wong
ADDRESS: 110 W. Cavendish Dr. Mooresville, NC 28117
PROPOSED FACILITY: res PROPOSED DESIGN FLOW (.1949):
LOCATION OF SITE: 744 Faith Road, Mooresville, NC 28115

DATE EVALUATED: 3-19-21
PROPERTY SIZE: 2ac
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) .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	LS 9%	0-6	SBK/SCL	FR/[illegible]	–	49	–	–	PS 0.3
		6-29	SBK/C	FR/VFR					
		29-46	SBK/C	FR/VFR					
		46-49	SBK/CL	FR/[illegible]					
2	LS 5%	0-4	SBK/CL	FR/SS/SP	–	48	–	–	PS 0.3
		4-28	SBK/C	FR/SS/SP					
		28-48	SBK/C	FR/SS/SP					
3	LS 5%	0-4	SBK/CL	FR/SS/SP	–	50	–	–	PS 0.3
		4-28	SBK/C	FR/SS/SP					
		28-50	SBK/C	FR/SS/SP					
4	LS 5%	0-4	SBK/CL	FR/SS/SP	–	49	–	–	PS 0.3
		4-26	SBK/C	FR/SS/SP					
		26-46	SBK/C	FR/VFR					
		46-49	SBK/CL	FR/SS/SP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	PS	PS
System Type(s)	Accepted	Accepted
Site LTAR	0.3	0.3

OTHER FACTORS (.1946):
SITE CLASSIFICATION (.1948): Profile
EVALUATED BY: Larry Thompson
OTHER(S) PRESENT:

LICENSED SOIL SCIENTIST LARRY B. THOMPSON 1287 STATE OF NORTH CAROLINA

COMMENTS:
The LSS Evaluation is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11.(c).

SOIL/SITE EVALUATION

(Continuation Sheet-Complete all field in full)

PROPERTY ID #: 4665178137.000

DATE OF EVALUATION: 3-19-21

COUNTY: IREDELL

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	LS 5%	0-4	SBK/CL	FR/SS/SP/SEP	✓	49	–	–	B 0.3
		4-28	SBK/C	FI/S/P/SEP					
		28-49	SBK/C	FI/S/P/SEP					

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.

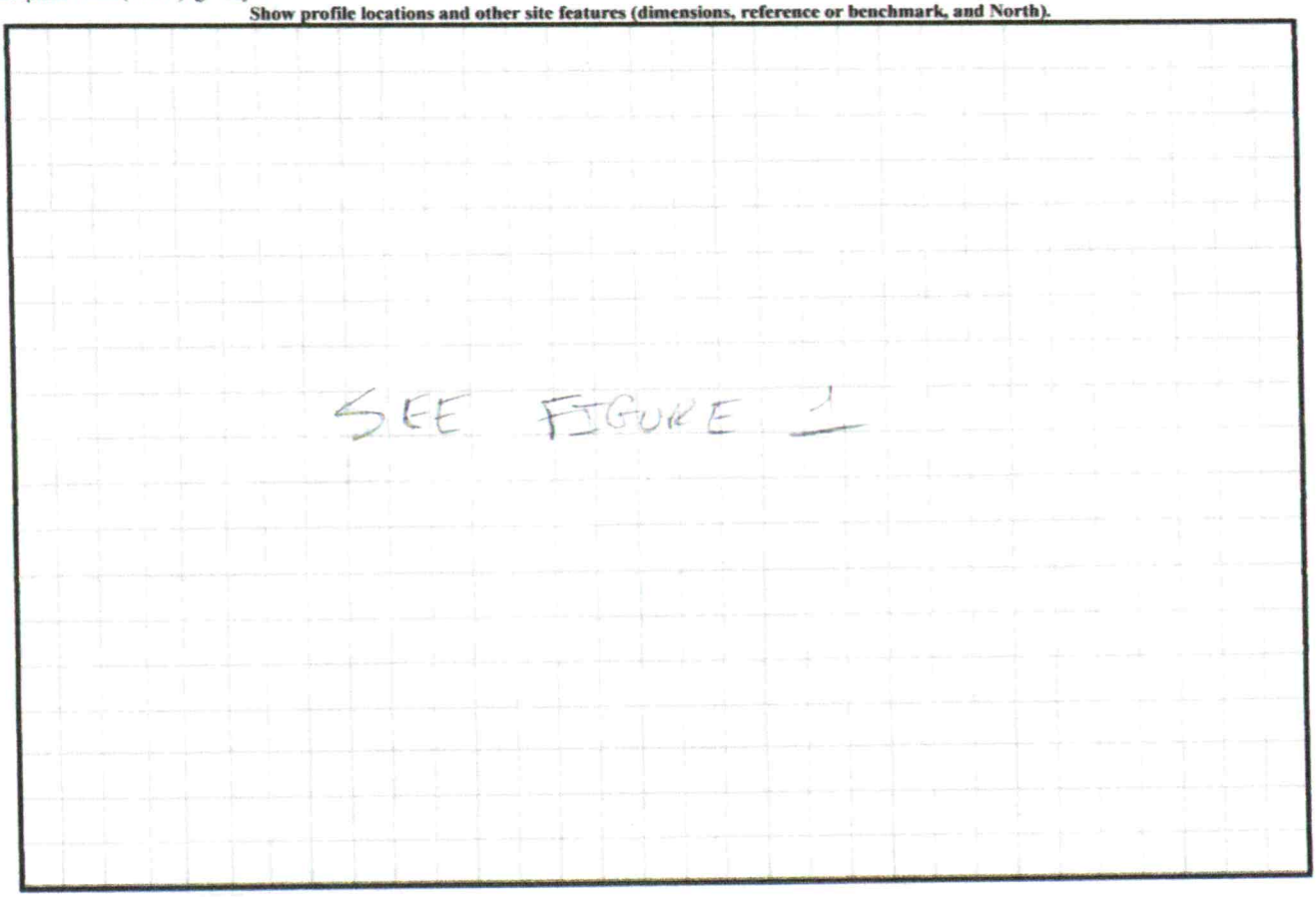
NOTES

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).



PRELIMINARY SOIL AND SITE EVALUATION

744 Faith Road
Mooresville, NC 28115

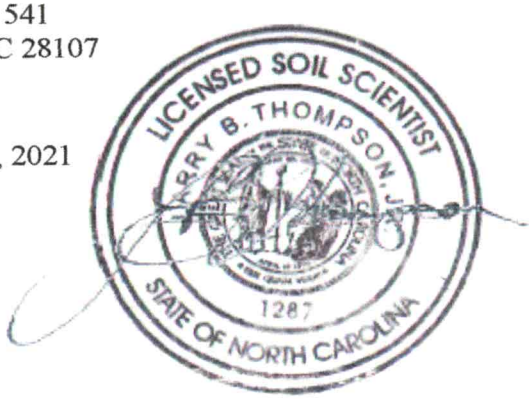
Prepared For:

Andrew and Jodi Pipas
109 Saye Place
Mooresville, NC 28115

Prepared By:

Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107

March 19, 2021



INTRODUCTION & SITE DESCRIPTION

This Soil and Site Evaluation was performed on a 2-acre lot located at 744 Faith Road, Mooresville, North Carolina (Iredell County Tax Parcel: 4665178137.000).

Thompson Environmental Consulting, Inc. (TEC) was retained to determine whether the soils were suitable for an onsite subsurface wastewater treatment and disposal system expansion. The property was evaluated in accordance with North Carolina statutes for waste disposal ("Laws and Rules for Sewage Treatment and Disposal Systems", amended April 1, 2017).

INVESTIGATION METHODOLOGY & SITE PHYSICAL CHARACTERISTICS

Individual soil borings were advanced with a hand-held auger, evaluated, and soil color was determined with a Munsell Soil Color Chart. Observations of the landscape (slope, drainage patterns, etc.) as well as soil properties (depth, texture, structure, seasonal wetness, restrictive horizons, etc.) were recorded.

The project study area is currently undeveloped and is vegetated by maintained fescue and mixed deciduous forest.

FINDINGS

A field survey was conducted on March 19, 2021 by Larry Thompson, LSS. Five soil borings were advanced, and their locations noted in the attached Figure 1.

All soil borings were rated as Provisionally Suitable for the installation of a subsurface wastewater treatment and disposal system utilizing Accepted System drainfield product and are denoted in the attached Figure as green points. Surfaces typically exhibited friable sandy clay loam to clay loam textures with weak, medium, subangular blocky structure 4 to 6 inches in depth. Lower subsurface horizons exhibited firm clay to clay loam textures with moderate, medium, subangular blocky structure 48 inches and greater in depth. A long-term acceptance rate (LTAR) of 0.3 gal./day/sq. ft. would be recommended for these soils.

DISCUSSION

The soils observed will support the installation of a subsurface wastewater treatment and disposal system utilizing Accepted System drainfield product. It is estimated that 7,000 square feet of suitable soil area would need to be allocated and left completely available for the installation of, and the proposed repair of, an Accepted Septic System for a 4-bedroom single family residence.

CONCLUSION

The findings presented herein represent TEC's professional opinion based on our Soil and Site Evaluation and knowledge of the current laws and rules governing on-site wastewater systems in North Carolina. Soils naturally change across a landscape and contain many inclusions. As such, attempts to quantify them are not always precise and exact. Due to this inherent variability of soils and the subjectivity when determining limiting factors, there is no guarantee that a regulating authority will agree with the findings of this report.

RECEIVED DEC 10 2021

APPLICATION MUST BE FILLED OUT COMPLETELY & BE LEGIBLE OR IT WILL NOT BE PROCESSED

BB

S.L

Iredell County Health Department – Environmental Health Division

PAGE 1: *APPLICATION FORM* AP-316995 $500.00

Application For: (✓) New Well Permit ( ) Well Repair Permit ( ) Well Abandonment
(✓) Septic Improvement Permit (✓) Authorization to Construct ( ) Existing System Inspection ( ) Septic System Repair

THE ABOVE PERMIT DOCUMENTS WILL BECOME INVALID IF INFORMATION PROVIDED ON THIS APPLICATION IS FALSIFIED OR CHANGED, OR IF THE SITE IS ALTERED. THE IMPROVEMENT PERMIT IS VALID FOR EITHER 60 MONTHS OR WITHOUT EXPIRATION DEPENDING UPON DOCUMENTATION SUBMITTED. APPLICATION WITH SITE PLAN 60 MONTHS, APPLICATION WITH COMPLETE, SCALED PLAT WITHOUT EXPIRATION. SEE 15A NCAC 18A .1937(f) FOR DETAILS.

Page 2: *Site Plan Worksheet* form MUST accompany this application

The following optional attachments may also be submitted: (✓) Survey Plat, scaled no more than 1 inch = 60 feet
Place an (X) beside whichever is submitted if applicable (✓) Custom Site Plan, scaled no more than 1 inch = 60 feet

Applicant Information: **(PRINT CLEARLY)**

Applicant Name: Andrew Pipas **Address:** 109 Sand Spur DR. Mooresville **Zip:** 28117
Applicant Email: docpipas@gmail.com **Phone:** 704-955-3152 **Alt. Phone:** 704-995-7858 (Jodi)
Owner Name: _____ **Address:** _____ **Zip:** _____
Owner Email: _____ **Phone:** _____ **Alt. Phone:** _____

Property Information:

Street Address: 744 Faith Rd. Mooresville, NC 28115
Subdivision Name: N/A **Section/Phase:** _____ **Lot Number:** _____
Driving Directions: _____

Site Development Information: ***(check or complete ALL that apply***

CHECK FOUNDATION TYPE

(✓) New Single Family Residence — Maximum Number of Bedrooms: 6 — ( ) Crawl Space Foundation
( ) New Multi-Family Residence — Maximum Number of Occupants: _____ — (✓) Concrete Slab Foundation
( ) Accessory Building — ( ) Swimming Pool — ( ) Basement with Plumbing
( ) Bedroom(s) Addition — ( ) Other Addition/Structure: _____ — ( ) Basement without Plumbing
( ) Repair to failing septic system ___ Tank ___ Drain lines Describe Problem: _____
Non-Residential Site Development: Type of Business: _____
Square Footage of Building: _____ Max. Number of Employees: _____ Max. Number of Seats/Beds/Other: _____

Water Supply: ( ) Replacement Well – Reason: _____
( ) Multi-connection Well Number of Houses: _____ Number of Persons: _____

( ) New Well (✓) Existing Well ( ) Community Well ( ) City Water ( ) Other Public Water

Desired Septic System Type: ***(you may rank in order of preference)*** Year existing system installed: _____
( ) No Preference ( ) Alternative ( ) Conventional ( ) Innovative ( ) Modified Conventional ( ) Other: _____

Please answer the following to the best of your ability:
( ) Yes (✓) No Does the site contain any jurisdictional wetlands?
( ) Yes (✓) No Is any non-domestic sewage (i.e. industrial) to be generated?
( ) Yes (✓) No Is the site subject to approval by any other public agency?

I have read this application and certify that the information provided herein is true, complete, and correct. Authorized county and state officials are granted right of entry to conduct necessary inspections to determine compliance with applicable laws and rules. I understand that I am solely responsible for the proper identification and labeling of all property lines and corners and making the site accessible so that a complete site evaluation can be performed.

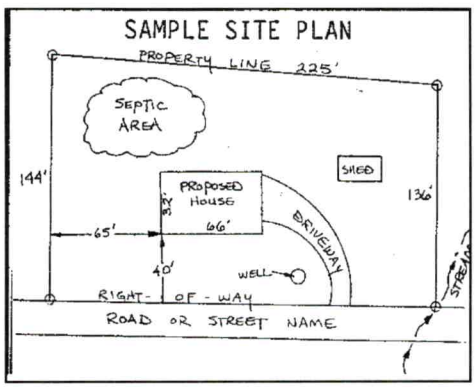
Signature: Jodi E Pipas 12-10-21
Property owner or owner's legal representative signature (**SIGNATURE REQUIRED**) **DATE**

IREDELL COUNTY HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH DIVISION

PAGE 2: *SITE PLAN WORKSHEET*

SEE THE "SAMPLE SITE PLAN" BELOW. *INCOMPLETE SITE PLANS WILL BE RETURNED TO YOU FOR COMPLETION AND MAY RESULT IN A DELAY IN THE ISSUANCE OF YOUR SEPTIC SYSTEM PERMIT!!!*



Place an (X) beside each item as you complete the site plan:

- ( ) **Property Line measurements are clearly identified**
- ( ) **All proposed structures are indicated**
- ( ) **Front and side setbacks from property line**
- ( ) **Preferred driveway location and well location**
- ( ) **Area you prefer your septic system to be placed**
- ( ) **North arrow, or other sufficient indicator of direction**

Circle N/A on the following if appropriate:

Location of septic systems and wells within 100' of your property	**N/A**
Location of easements and rights of ways on your property	**N/A**
Location of any designated wetlands on the property	**N/A**

USE THIS SPACE TO DRAW YOUR SITE PLAN

Show: proposed house or business footprint, wells, water lines, patios, pools and decks, and any other item that will occupy space on the site

See attached

Signature: Jody E Ryan

Property owner or owner's legal representative signature (SIGNATURE REQUIRED)

12-10-21

DATE

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

(Check and sign only ONE of the options below)

☐ **1. * APPLICANT AND OWNER ARE THE SAME. * (*Sign here*)** Jodi E Pipas

Applications for permits require the "signature of the owner or owner's legal representative" (15A NCAC 18A .1937). If the owner does not sign the application himself or herself, they can submit any one of the following documents to designate their legal representative: *Power of Attorney; Real Estate Contract; Estate executor; Bankruptcy trustee; Court ordered guardianship*
In the absence of the above documentation, the property owner may provide the local health department with documentation that designates a legal representative. A property owner may:
Complete this form to document his or her legal representative, or provide his or her own form that contains the information in this form. If there are multiple property owners, then all property owners must sign the form that designates a legal representative.
By signing a form that designates a legal representative for purposes of 15A NCAC 18A .1937, the property owner authorizes that representative to act on their behalf in matters pertaining to the application and permitting process, including signing or receiving any application, document or permit. The owner retains full responsibility to meet all permit conditions specified by the local health department.

☐ **2.** I, Andrew Pipas & Jodi Pipas, am the legal owner(s) of the property located at 744 Faith Rd. Mooresville, NC 28115, identified as PIN (Parcel Identification Number)_____, located in Iredell County, North Carolina.

I do hereby authorize (**print legal representative/company name**) _____, _____, to act as an agent on my behalf in applying for/signing/obtaining any of the documents described below.

- Application for Improvement Permit (IP) / Authorization to Construct (AC)
- Improvement Permit (IP) / Authorization to Construct (AC)
- Application for soil-site evaluation (new/repair)
- Application/permit for private drinking water well/well abandonment
- Application for Compliance Inspection

I agree to abide by all decisions and/or conditions between the legal representative acting on my behalf and the Iredell County Department of Public Health, Environmental Health Division.

Jodi E Pipas
Signature of Owner(s)

12·10·21
Date

Mooresville - Environmental Health

Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

Statesville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-871-3483
349 N. Center Street, Statesville, NC 28677

ENVIRONMENTAL HEALTH REQUIREMENTS for SEPTIC and WELL PERMITS

The following items must be completed *PRIOR* to the *SUBMITTAL* of any Environmental Health Application. Incomplete applications will be returned to the applicant and cannot be processed or placed on the work list.

***** Initial all lines below to indicate you have submitted each form and completed every site requirement *****

Complete all Environmental Health forms:

_____ Application
_____ Site Plan including the dimensions of proposed structure, addition, pool etc.
_____ Documentation to Authorize Owner Agent (even if the property owner is the applicant – complete section 1 or 2)
_____ Copy of Zoning Permit when applicable
_____ Sign this sheet after you have completed all items

Lot must be cleared of heavy undergrowth. In order to evaluate the lot, the footprint of the proposed structure must be visible. Adequate area for the septic drain field and repair area must be sufficiently cleared of heavy undergrowth, with 50 feet of visibility in all directions. Inspectors must be able to evaluate the property, shoot laser level elevations, layout the drain field, do soils work, etc. **If the lot is not cleared sufficiently, then a $100 site revisit fee will be charged and the evaluation will be put on HOLD until the requirement is met.**

Clearly mark all property corners by locating existing iron or concrete markers. Flag all property lines every 25 feet if adjacent corners are not visible when standing on any given corner. Property lines must be flagged by a licensed NC surveyor & easily identified **prior to application submittal** (exception may apply for septic repair evaluations only). 'Mow lines' and/or fence lines do NOT constitute marked lines. **If the property lines are not properly marked when the lot is ready to be evaluated, then the application will be put on HOLD and a $100 site re-visit fee charged**.

Stake or flag the footprint of the proposed structure, addition, pool etc. to match the site plan submitted. The proposed structure, etc. must be staked out on the property as per the site plan.

If an Authorization to Construct (AC) is desired, submit a recorded copy of the plat for newly created or subdivided lot(s) and a LEGIBLE copy of the basic floor plan no larger than 8 ½" x 14" for each floor of the structure including decks, porches, etc. **The overall dimensions must be clearly noted & the rooms labeled.**

Any site not meeting the above requirements when staff arrives for the evaluation will result in a $100 site revisit fee being charged and the request being placed on HOLD. This will delay the processing of the application. *Once work by Environmental Health staff begins, the up-front fees paid toward securing any health department permit are nonrefundable. Refunds for work not started, due to a customer changing their mind or plans, are subject to an administrative fee of $50 to defray a portion of the costs of processing the refund.*

Backhoe pits are required for all applications that require a soils evaluation.
DO NOT DIG PITS UNTIL THE EH SPECIALIST HAS AUTHORIZED AND SCHEDULED YOUR EVALUATION TIME.

- **All utilities shall be marked before pits are dug. Call NC 811 for this service.**
- The applicant/agent is responsible for securing these services
- Backhoe pits are to be dug at the locations and depths determined by the Environmental Health Specialist or a NC Licensed Soil Scientist. A minimum of four pits must be dug.
- The EH specialist will contact you when your application is ready to be processed for pit scheduling.
- Your backhoe operator must be on site during the EH Specialist's evaluation to prevent your operator from having to return to the property for additional work.

By signing below, I am acknowledging the above specifications have been met and the site is READY to be evaluated AND I understand the backhoe pit requirement and will secure those services (if applicable).

Signature _____ **Date** 12-10-21

Questions? Contact the Environmental Health Offices below:

Statesville Office
349 North Center Street (2nd Floor Building Standards)
Statesville, NC 28677-4063
Phone: (704)878-5305 ext. 3456

Mooresville Office
610 East Center Avenue (2nd Floor Govt. Center South)
Mooresville, NC 28115-2548
Phone: (704)660-3625

Residential Subsurface Wastewater Treatment and Disposal System Proposal

for

744 Faith Road
Mooresville, NC 28115

Tax Parcel # 4665178137.000
December 9, 2021

Prepared for:

Andrew and Jodi Pipas
109 Saye Place
Mooresville, NC 28115
704-995-3152



Prepared by:

Larry Thompson, REHS, LSS
Thompson Environmental Consulting, Inc.
PO Box 541
Midland, NC 28107-0541
Phone: 704-301-4881
larry@thompsonenv.com



Andrew and Jodi Pipas have contracted with Thompson Environmental Consulting, Inc. (TEC) to develop a revised proposal for an on-site wastewater treatment and disposal system that would allow for the construction of 4-bedroom single family residence with a 1-bedroom garage apartment at 744 Faith Road, Mooresville, North Carolina.

Based upon an investigation performed by TEC, it was determined that a sufficient amount of "Suitable" Group IV soils are available within the project study area for the installation of a 720 GPD Gravity-Flow Accepted System (repair system will be a Pressure Dosed Prefabricated Permable Block Panel System). The property will be served by a private well.

Andrew and Jodi Pipas would like to request that Iredell County Environmental Health (ICEH) re-issue the appropriate permits for a subsurface wastewater treatment and disposal system based upon the following proposal and the enclosed Licensed Soil Scientist Evaluation, which is being submitted pursuant to and meets the requirements of SL 2018-114 Section 11. (c).

Location

From Mooresville, take Shearers Road south to Faith Road. Turn right onto Faith Road, travel 0.2 miles, and the property will be located on the left.

References

Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A, Section .1900, Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, April 1, 2017.

Accepted Wastewater System No. AWWS-2005-02-R6; North Carolina Department of Environment and Natural Resources, Division of Environmental Health, On-Site Wastewater Section, August 21, 2015.

Primary Investigator's Credentials

NC Registered Sanitarian No. 1208
NC Licensed Soil Scientist No. 1287
SC Certified Professional Soil Classifier No. 111
NC Subsurface Septic System Operator No. 22199
NC Grade IV Wastewater System Installer No. 1762
NC Certified Wastewater System Inspector No. 17621

Plans and Specifications

A. Septic Tank

1. The septic tank shall be State approved (Section .1953 of 15A NCAC 18A), watertight, structurally sound, and 1,500 gallons in capacity.
2. The septic tank shall be fitted with an approved effluent filter.
3. It is the responsibility of the septic contractor to thoroughly inspect the septic tank prior to accepting delivery to assure that the tanks have had time to properly cure and are free of cracks or other structural deficiencies.

B. Pipes and Fittings

1. All discharge piping, connectors and supply lines should be made of SCH 40 PVC.
2. All joints must be properly "welded" utilizing the appropriate PVC cement for each application.
3. The supply line will be approximately 15 feet long from the second septic tank to the distribution box.

C. Distribution Method

1. The drainlines will be fed equally by a distribution box. The distribution box shall be water tested at the time of the final inspection.

D. Drainfield Installation

1. The drainfield has been previously laid out on-site utilizing metal stemmed flags. The property owner/builder should mark this area and isolate it as much as possible from construction traffic.
2. Under no circumstances shall any construction take place within the drainfield area while the soil is in a wet condition.
3. The specified system is an accepted wastewater system, specifically the Infiltrator Quick 4 chamber system or any other system with a state-approved 25% reduction in required drainline length.
4. The drainfield consists of six (6) lateral trenches to be constructed 3-foot wide by 100 feet in length. Total drainline length is 600 feet.
5. The maximum trench depth for this system shall be **32 inches**.
6. The laterals are to be installed on contour with the land, keeping the individual trench bottoms level from beginning to end.
7. The trenches should be left open for the final inspection by the ICEH.

E. Final Landscaping

1. Final cover over the drainfield shall be at least 6 inches deep.
2. The drainfield shall be shaped to shed rainwater and be free from low spots.
3. The drainfield area should be planted with grass as soon as possible to prevent erosion. The soil should be properly tilled, limed (if necessary) and fertilized prior

Agent Authorization Form

Final Audit Report 2021-05-24

Created:	2021-05-23
By:	Larry Thompson (larry@thompsonenv.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAwsleyjG0rvCOPPfQHbfOCGPPmgzPFWmQ

"Agent Authorization Form" History

Document created by Larry Thompson (larry@thompsonenv.com)
2021-05-23 - 3:37:30 AM GMT- IP address: 86.106.143.202

Document emailed to Andrew Pipas (docpipas@gmail.com) for signature
2021-05-23 - 3:37:58 AM GMT

Email viewed by Andrew Pipas (docpipas@gmail.com)
2021-05-23 - 3:38:09 AM GMT- IP address: 66.249.88.144

Document e-signed by Andrew Pipas (docpipas@gmail.com)
Signature Date: 2021-05-24 - 4:33:03 PM GMT - Time Source: server- IP address: 24.224.69.183

Agreement completed.
2021-05-24 - 4:33:03 PM GMT

AGENT AUTHORIZATION FORM

PROPERTY LEGAL DESCRIPTION:

LOT NO. _____ PHASE _____ PARCEL ID: 4665178137.000

STREET ADDRESS: 744 Faith Road
Mooresville, NC 28115

Please print:

Property Owner: Andrew Pipas

Property Owner: _____

The undersigned, registered property owners of the above noted property, do hereby authorize

Larry Thompson, LSS, of Thompson Environmental Consulting, Inc.
(Contractor / Agent) (Name of consulting firm)

to act on my behalf and take all actions necessary for the processing, issuance and acceptance of this permit or certification and any and all standard and special conditions attached.

Property Owner's Address (if different than property above):
109 Saye Place, Mooresville, NC 28115

Telephone: 704-995-3152

We hereby certify the above information submitted in this application is true and accurate to the best of our knowledge.

From the Consultant: The NC LSS evaluation attached to this application is to be used to produce a design and construction features for permitting in accordance with Session Law 2018-114 Section 11. (c).

Owner Signature: Andrew Pipas
Andrew Pipas (May 24, 2021 12:33 EDT)

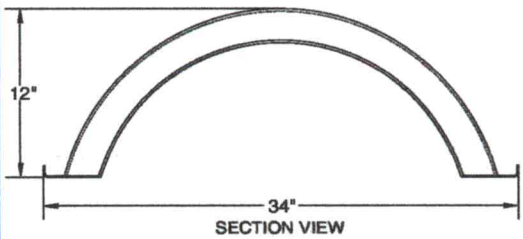
Date: May 24, 2021

Owner Signature: _____

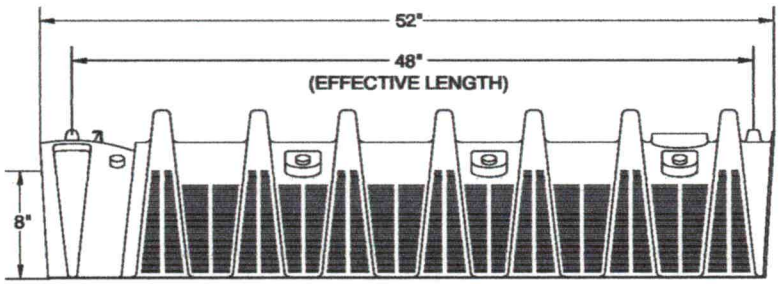
Date: _____

Quick4™
STANDARD CHAMBER

Quick4 Standard Chamber

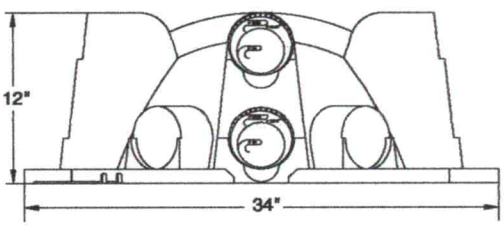


SECTION VIEW

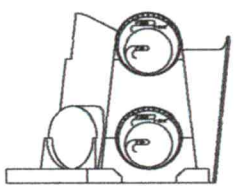


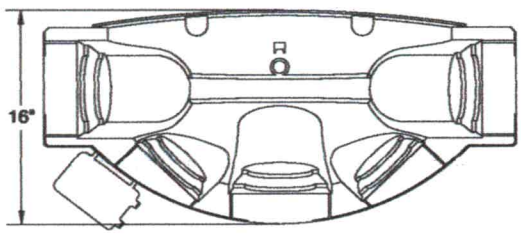
SIDE VIEW

MultiPort End Cap



FRONT VIEW


SIDE VIEW



TOP VIEW

Quick4 Standard Chamber Nominal Specifications

Size (W x L x H)	34" x 52" x 12"
Effective Length	48"
Invert Height	8"

MultiPort End Cap Nominal Specifications

Size (W x L x H)	34" x 16" x 12"
Invert Height	8" or 1.25"

INFILTRATOR SYSTEMS, INC. STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, end plate, wedge and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units.

(b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

(c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty.

Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by state and local codes; all other applicable laws; and Infiltrator's installation instructions.

(d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder.

* * * * * * *

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

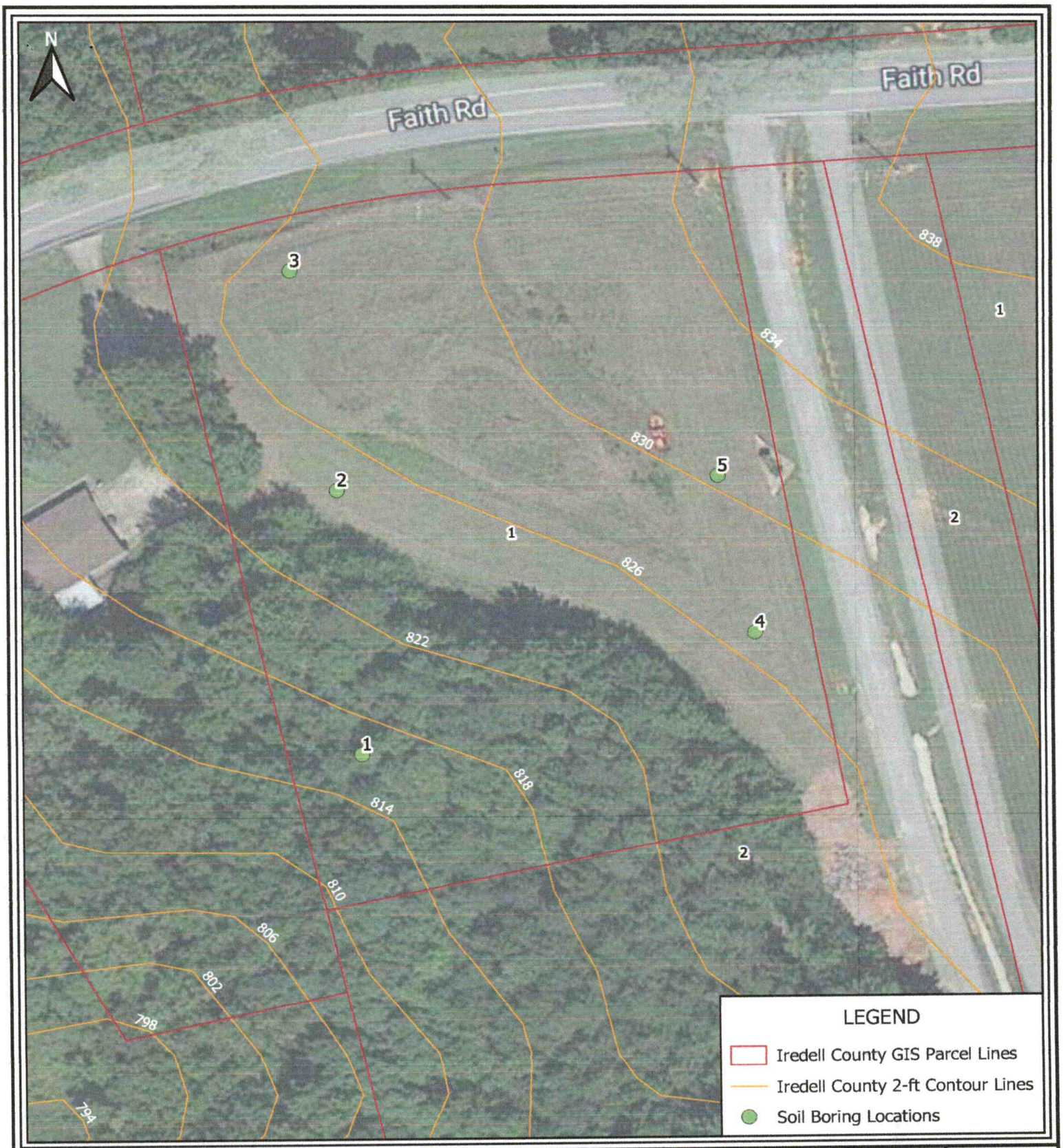
INFILTRATOR® SYSTEMS INC
Environmental Onsite Wastewater Solutions℠
6 Business Park Road • P.O. Box 768
Old Saybrook, CT 06475
860-577-7000 • FAX 860-577-7001
800-221-4436

U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,776; 5,839,844
Canadian Patents: 1,329,959; 2,004,564 Other patents pending.

Infiltrator, Equalizer and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. Contour, Contour Swivel Connection, MicroLeaching, PolyTuff, SnapLock, ChamberSpacer, PosiLock, QuickCut, QuickPlay and Quick4 are trademarks of Infiltrator Systems Inc. © 2003 Infiltrator Systems Inc. Printed in U.S.A.

RECYCLED PAPER

Q011203HP-0



Thompson Environmental Consulting

Prepared For:

Andrew Pipas

Soil and Site Evaluation

744 Faith Road
Mooresville, NC 28117

Iredell County

Date:
March 2021

Scale:
0 30 60 ft

TEC Job #:
21-79

Figure
1