IREDELL COUNTY HEALTH DEPARTMENT KW

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

PERMIT # 22194

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

PIN # 4638-18-1089

APPLICANT/OWNER: DAVID BALCH

APPLICANT ADDRESS: 1213 FERN HILL RD. MOORESVILLE 28117

SITE ADDRESS: SAME

PHONE: 703-283-4343 ALT. PHONE

SITE DIRECTIONS: PERTH, FERN HILL, ON L

SAP CONTROLLED: ☐ YES ☑ NO

SUBDIVISION: CLET

SECTION: 15 LOT #: 1013 LOT AREA: 2.156 AC

DESIGN FLOW: 480 L.T.A.R.: .25

Septic Tank: EXISTING (gal) STB: Date:

Pump Tank: 1000 (gal) PT: infiltrator Date:

Pump Make: Model: Serial #:

Nitrification Fields: 1 # Lines: 2260' Linear Ft: 120'

Trench Width: 36" Trench Bottom Depth(Low side): 30" Gravel Depth: —

☐ New System ☐ Repair ☑ Expansion System Type: I II III IV V VI

System Description: PM 25% REDUCTION

Repair System Description: SAME

Maintenance Agreement Required: ☐ YES ☑ NO

☐ GRAVITY ☑ PRESSURE

☑ Residence ☐ Business ☐ Other ☐ Slab ☐ Basement w/plumbing

No. Bedrooms: 4 No. Persons: 8 No. Employees: Crawl Space

Water Supply: ☑ Private ☐ Public ☐ Community

☐ Basement w/o plumbing

Comments / Conditions:

INITIAL SITE SKETCH

SEE PLAN FROM MICHAEL ATHANAS & ASSOCIATES

AS BUILT SKETCH

	Date	Initials
Drain Lines Checked	See attached	
Tanks Checked		
Pressure Manifold or Valve Box Checked	4-20-18	KW
Pressure Head Set	4-20-18	KW
Electrical Checked	5-14-18	KW
Floats Set	4-20-18	KW
Alarm Checked	5-14-18	KW
Maintenance Contract Y (N)		
Comments:		

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: 12-4-17

IMPROVEMENT PERMIT by: APPROVED Date: NOV 29 2017

AUTHORIZATION TO CONSTRUCT by: APPROVED Date: NOV 29 2017

Installed by: Russell Williams

OPERATION PERMIT by: Date: 5-14-18

Existing System Inspected by: Date:

MAY BE SUBJECT TO RECORDED OR
DED RIGHTS OF WAYS OR EASEMENTS
ERVED
VERIFY ALL SETBACKS AND ZONING
ONS PRIOR TO ANY PLANNING OR
CTION.
NS OF ALL IMPROVEMENTS SHOWN ON
SHOULD NOT BE SCALED OR RELIED
R DESIGN OR CONSTRUCTION WITHOUT
VERIFICATION OF ALL DIMENSIONS.
OPIES OF THIS FILE ARE FOR REFERENCE
MAY NOT BE USED FOR DESIGN WORK.
RGROUND UTILITIES ARE NOT SHOWN HEREON.

Curve	Radius	Length	Chord	Chord Bear.
C1	1452.25'	42.05'	42.05'	N 11°41'06" E

* A PORTION OF THIS PROPERTY IS LOCATED IN A 100 YEAR FLOOD PLAIN AS DESIGNATED BY FIRM PANEL # 3710463800E EFFECTIVE DATE: 3-18-2008
* NO PORTION OF THE RESIDENTIAL STRUCTURE IS IN A FLOOD ZONE.

Course	Bearing	Dist
L1	N 86°36'28" W	23.
L2	S 81°25'11" W	20.
L3	S 66°54'29" W	29.
L4	S 20°35'00" W	30.
L5	S 25°54'30" E	30.

APPROVED NOV 29 2017

DONALD KING
946/1088

DONALD KING
946/1085

SR #1300 TURN HILL ROAD
60' PUBLIC R/W

N 69°37'00"E 349.89'
10' S/B PER PB 18-17

S 25°47'19"E
68.79'

CONCRETE DRIVE

WELL

#5 PIN

PORCH
1 STORY
FRAME/CONCRETE HOME
DECK

Ex. Addition
Deck

16.52'
294.01'
10' S/B per pb 18-17

LOT #1013
2.156 AC.+-

W3-90' Ex
W4-90' Ex
05-90' Ex
P6-90' Ex
15' H.S.

N 10°52'00"E
75.00'
C1
35' S/B

Repair Area

P3 P2 P4 P1
Y1-60'
O2-60'

139.92'

50' BUFFER

APPROX

#4 PIN

L2 L1
SEAWALL

GAZEBO
L3
PIER
L4
PUMP
L5

PROPERTY LINE
ORIGINAL 760' CONTOUR

760' CONTOUR

#5 PIN
10' S/B
380.51'
N 76°38'58"W 421.49'

34.56'
6.42'

#4 PIN
#4 PIN

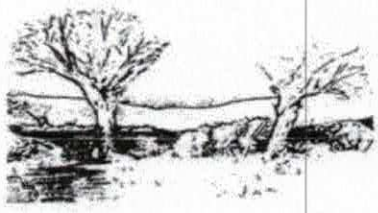
LOT #1012
DALE LESLIE
2261/1554

LEGEND:
BOUNDARY LINE
SANITARY SEWER LINE
NATURAL GAS LINE
UNDERGROUND POWER
OVERHEAD UTILITIES
UNDERGROUND TELEPHONE

Scale
1"=50'

RECEIVED NOV 2 8 2017

APPROVED NOV 2 9 2017



MICHAEL ATHANAS & ASSOCIATES
LICENSED SOIL SCIENTIST
561 Ennis Rd.
Weddington, NC 28173
(704) 576-3887

Reference: Data Sheet for 1213 Fern Hill Rd, CL&T Lot 1013
House Footprint: See attached plan
Building Setbacks: 35' front, 15' side, 50' lake
Water Source: Private well
Number of Bedrooms: 4/480 GPD
Proposed LTAR: 0.25 GPD/FT2
Proposed System Type: 25% Reduction
Proposed Repair System Type: 25% Reduction
Distribution: Pressure Manifold
Flow per Tap: 1 @ 7.11 GPM, 2 @ 10.1 GPM
Tap Size and Material: 1 @ ½" SCH 40, 2 @ ¾" SCH 80
System Flow: 27.3 GPM
Dosing Volume: 210 gallons
Pump Run Time: 7.7 minutes
Elevation Head: 12.4'
Friction Head: 1.7'
Pressure Head: 2'
Total Dynamic Head: 16.1'
Supply Line Length: 90' of 2" PVC
Septic/Pump Tank Size: 1000 gal ST (existing), 1000 gal PT
Proposed Trench Bottom: 30"

Line	Design Length	Actual Length	Elevation
Yellow 1	60'	60'	2.7'
Orange 2	60'	60'	4.6'
Blue 3 (existing)	90'		
White 4 (existing)	90'		
Orange 5 (existing)	90'		
Pink 6 (existing)	90'		

Initial System: 480' **Repair System:** 480+'
Pump Tank: 10.1' **House Corner:** 8.5' **Benchmark:** 8.5'

APPROVED NOV 29 2017

3A

Comments:

This lot has an existing three bedroom septic system. MA&A are proposing to add 120' of line to make it a four bedroom system. The existing system seems to have been covered with fill so that it is difficult to find the whole of the existing system. We managed to find the ends of each line. The existing system is a gravity system. We are proposing to add a pump tank and pressure manifold. The ½" SCH 40 tap will feed Y1 and O2 (120'). The two ¾" SCH 80 taps will feed B3, W4 (180') and O5, P6 (180').

The water diversion at Y1 must be removed.

APPROVED NOV 29 2017 3A

PROPERTY ID #: 4638181089__
COUNTY: _IREDELL___

SOIL/SITE EVALUATION
for ON-SITE WASTEWATER SYSTEM

OWNER: David Balch_____ APPLICATION DATE_____
ADDRESS: _1213 Fern Hill Rd, Mooresville, NC 28117_____ DATE EVALUATED: _____
PROPOSED FACILITY: _4 bdrm_____ PROPOSED DESIGN FLOW (.1949): _480 GPD____ PROPERTY SIZE: _2.156 AC_____
LOCATION OF SITE: _1213 Fern Hill Rd, CL&T Lot 1013_____ PROPERTY RECORDED: _____
WATER SUPPLY: Ξ Private ☐ Public Ξ Well ☐ Spring ☐ Other _____
EVALUATION METHOD: ☐ Auger Boring Ξ Pit ☐ Cut TYPE OF WASTEWATER: Ξ 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	LS 8%	0-12	FILL		Mn CHR 2 @ 49"	49"	N/A	N/A	PS 0.25
		12-49	RBr C SBK	FR SS SP SEXP					
2	LS 8%	0-12	FILL		N/A	58"	F-C SAP	N/A	PS 0.3
		12-30	R C SBK	FR SS SP SEXP					
		30-58	R CL WSBK	FR SS SP SEXP					
3	LS 15%	0-19	R C SBK	FR SS SP SEXP	N/A	60"	F-C SAP PS	N/A	PS 0.3-0.4
		19-60	R CL WSBK	FR SS SP SEXP					
		60-69	L SAP M	FR SS SP SEXP					
4	LS 5%	0-24	R C SBK	FR SS SP SEXP	Lithochromic Colors	56"	F-C SAP	N/A	PS 0.3
		24-56	R CL WSBK	FR SS SP SEXP					

DESCRIPTION	INITIAL SYSTEM	REPAIR SYSTEM
Available Space (.1945)	1440 FT2	
System Type(s)	25% Reduction	25%
Site LTAR	0.25	

OTHER FACTORS (.1946): _____
SITE CLASSIFICATION (.1948): _____PS_____
EVALUATED BY: _____MA&A_____
OTHER(S) PRESENT: _____

COMMENTS:_____

RECEIVED AUG 1 8 2017

IREDELL COUNTY HEALTH DEPARTMENT *ENVIRONMENTAL HEALTH DIVISION*

PAGE 1: *APPLICATION FORM* #229541

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 Expansion Pd. $500.00

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: DAVID GALCH **Address:** 413 Fern Hill Rd **Zip:** 28117
Applicant Email: dgalch04@gmail.com **Phone:** 7045804328 **Alt. Phone:** 7032834343
Owner Name: _____ **Address:** _____ **Zip:** _____
Owner Email: _____ **Phone:** _____ **Alt. Phone:** _____

Property Information:

Street Address: 413 Fern Hill Rd Mooresville NC 28117
Subdivision Name: CLT **Section/Phase:** 15 **Lot Number:** 1013
Driving Directions: _____

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

CHECK FOUNDATION TYPE

( ) New Single Family Residence
( ) New Multi-Family Residence
( ) Accessory Building
(✓) Bedroom(s) Addition Existing
( ) 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: _____

Maximum Number of Bedrooms: 4
Maximum Number of Occupants: 3
( ) Swimming Pool
( ) Other Addition/Structure: _____

( ) Crawl Space Foundation
( ) Concrete Slab Foundation
( ) Basement with Plumbing
( ) Basement without Plumbing

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: _____ 8/18/2017
Property owner or owner's legal representative signature (SIGNATURE REQUIRED) DATE

Public Health
Protect. Promote. Protect.
Iredell County Health Department

IREDELL COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH

Public Health
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Iredell County Health Department

DOCUMENTATION TO AUTHORIZE AN OWNER'S LEGAL REPRESENTATIVE

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.

I, DAVID BALCH, am the legal owner(s) of the property located at 1313 FERN HILL RD MOORESVILLE NC 28117, 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.

David Balch 8/18/2017 Barbara Balch 8/18/2017

Signature of Owner(s) Date Signature of Witness Date

Please return this signed form to the appropriate office:

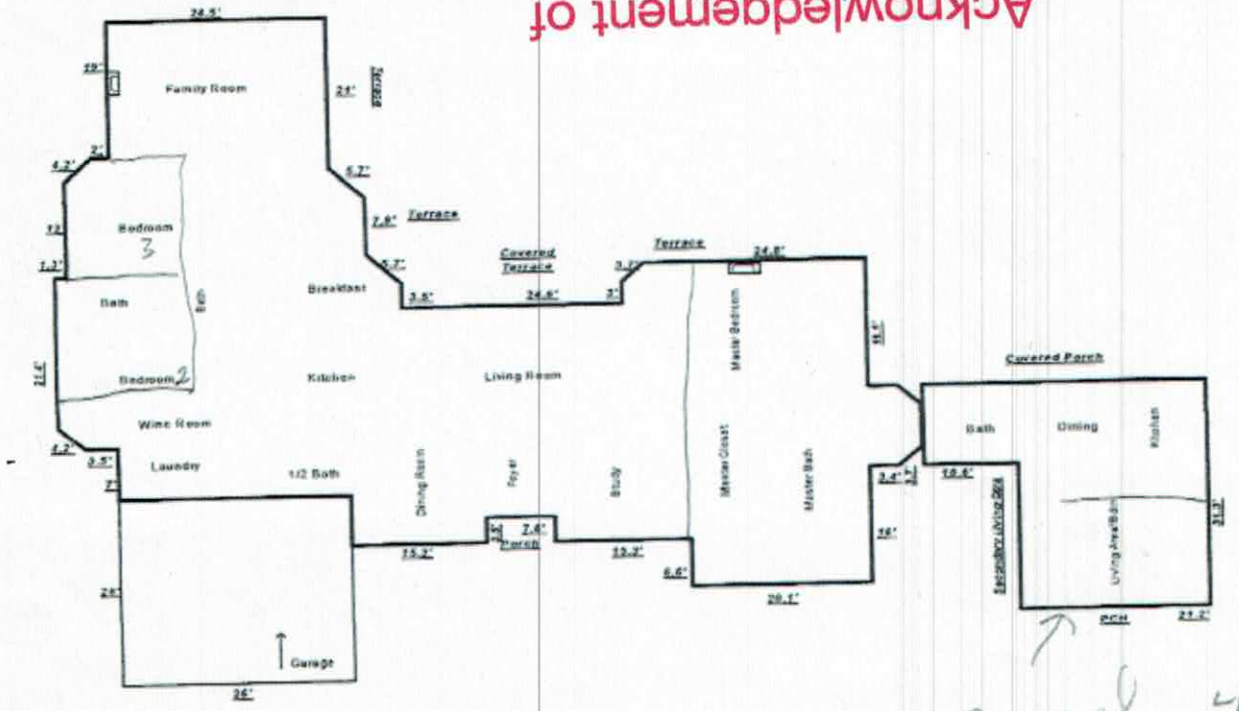
Mooresville - Environmental Health
ronda.hart@co.iredell.nc.us
Fax: 704-662-3239
610 E. Center Avenue, Mooresville, NC 28115

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

SKETCH ADDENDUM

Borrower or Owner David Balch
Property Address 1213 Fern Hill Rd
City Mooresville County Iredell State NC Zip Code 28117-9498
Client David Balch

Acknowledgement of Plans Submittal ONLY!
Date 12-4-12
Date



Proposed Bedroom 4

Summary	Square Ft. Area	Perimeter
Living Area		
First Floor	4,232.0	359.1
First Floor	783.3	126.2
Total	5,015.3	485.3
Garage & Carport		
Attached Garage	676.0	104.0

Area Calculation Details

First Floor

	1.3	x 21.4	=	27.8
0.5	x 1.3	x 1.3	=	0.8
0.5	x 1.7	x 1.7	=	1.4
	1.7	x 35.7	=	60.6
0.5	x 1.7	x 1.7	=	1.4
0.5	x 1.3	x 1.3	=	0.8
	1.3	x 39.1	=	50.8
	2.0	x 40.4	=	80.8
	0.1	x 59.4	=	11.8
	24.3	x 66.4	=	1,613.5
0.5	x 1.7	x 1.7	=	1.4
	1.7	x 43.7	=	74.2
0.5	x 2.3	x 2.3	=	2.6
	2.3	x 48.4	=	111.3
0.5	x 4.0	x 4.0	=	8.0
	4.0	x 36.6	=	146.4
	9.0	x 33.1	=	297.9
	7.5	x 29.9	=	224.9
	8.0	x 33.1	=	264.8
0.5	x 2.6	x 2.5	=	3.3
	2.6	x 36.1	=	93.8
	4.6	x 38.7	=	181.8
	20.1	x 45.3	=	910.5
	3.4	x 11.2	=	38.0
0.5	x 2.5	x 2.6	=	3.3
	2.5	x 6.0	=	15.6
0.5	x 2.5	x 2.5	=	3.3
		Total	=	4,232.0

First Floor

31.8	x 11.3	=	359.3
21.2	x 20.0	=	424.0
	Total	=	783.3

Attached Garage

26.0	x 26.0	=	676.0
	Total	=	676.0