

North Carolina Onsite Wastewater Contractor Inspector Certification Board Authorized Onsite Wastewater Evaluator Permit Option for Non-Engineered Systems Notice of Intent (NOI) to Construct

Owner or Legal Representative Information: Name: RiverWILD Homes Maiting address: 114 W Main St	New Expansion Repair Relocation Relocation of Repair Area
Name: Trent Bostic Certification #:10056E Mailing address: 1225 Crescent Drive, Ste 250 City: Cary State: NC Zip: 27518 Phone: 919-367-6322 Email: tbostic@agriwaste.com Site Location Information: Site address: 50 Verbena Pt, Dunn, NC 28334 Tax parcel identification number or subdivision lot, block number of property: 1509-12-1298 Alton Fields, Lot - 9 County: Harnett System Information: Wastewater System Type: IIIb Daily Design Flow: 480 Saprolite System: Yes X No Subsurface Operator Required: Yes X No Water Supply Type: Private Well X Public Water Supply Spring Other: Facility Type: X Residential 4 # Bedrooms 8 Maximum # of Occupants Business Type of Business and Basis for Flow: Public Assembly Type of Public Assembly and Basis for Flow: Required Attachments: X Plat or Site Plan X Evaluation of Soil and Site Features by Licensed Soil Scientist Attest: On this the 31 day of OCT 2025 by signature below I hereby attest that the information of the substantial by the substantial basis for Flow included with this NOI to Construct is accurate and complete to the best of my knowledge. Furthermost Section and Site Features by Licensed Soil Scientist Attest: On this the 31 day of OCT 2025 by signature below I hereby attest that the information of Soil and Site Features by Licensed Soil Scientist Attest: On this the 31 day of OCT 2025 by signature below I hereby attest that the information of Soil and Site Features by Licensed Soil Scientist Attest: On this the 31 day of OCT 2025 by signature below I hereby attest that the information of Soil and Site Features by Licensed Soil Scientist Busham 2005 Basic State St	Name: RiverWILD Homes Mailing address: 114 W Main St City: Clayton State: NC Zip: 27520
Site address: 50 Verbena Pt, Dunn, NC 28334 Tax parcel identification number or subdivision lot, block number of property: 1509-12-1298 Alton Fields, Lot - 9	Name: Trent Bostic Certification #: 10056E Mailing address: 1225 Crescent Drive, Ste 250 City: Cary State: NC Zip: 27518
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Agri-Waste Technology, Inc.
1225 Crescent Green, Suite 250, Cary NC 27518
agriwaste.com | 919.859.0669



Soil Suitability for Domestic Sewage Treatment and Disposal Systems 50 Verbena Pt, Dunn, NC 28334 (PIN: 1509-12-1298; Harnett County)

PREPARED FOR: RiverWILD Homes, c/o Kelley Judd

PREPARED BY: Trent Bostic, Senior Soil Scientist

DATE: October 31, 2025

Soil suitability for domestic sewage treatment and disposal systems was evaluated on May 1, 2025, for the property located at the Alton Fields subdivision. Trent Bostic of Agri-Waste Technology, Inc. (AWT) conducted the soil evaluation. This evaluation was done to facilitate permitting for a septic system. This report and attached documents were prepared to meet the requirements for an Authorized On-Site Wastewater Evaluator to meet G.S. 130A-336.2

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 about the property is included in Attachment 3.

Site Conditions

The total property area is approximately 0.58 acres. The property is an open field. The drawing in Attachment 1 details the property boundaries, house location, boring locations, and layout of drain field trenches (Completed by AWT).

Soil Suitability for Domestic Sewage Treatment and Disposal Systems

Multiple soil borings/pits were assessed on the property. Soil borings/pits were examined to determine soil suitability for on-site sewage disposal systems in accordance with 15A NCAC 18E: Wastewater Treatment and Dispersal Systems. These borings/pits were advanced with a hand auger and excavator. All soil borings/pits shown are provisionally suitable for a conventional style trench. The proposed LTAR (Long Term Acceptance Rate) by AWT is 0.375 GPD/ft². The soils on this property are group III soils within the distribution and treatment zone as used to define the LTAR. The maximum trench bottom should not exceed 24".

Field Layout & System Design

A septic layout was performed to demonstrate available space (.0508). The layout in Attachment 1 indicates there is available space for a four-bedroom primary and repair system utilizing a 25% reduction product. With an LTAR of 0.375 GPD/ft², 320 linear feet of trench is necessary to support a four-bedroom home initial and 320 linear feet of trench is required for the repair system. The attached drawing proves that 640+ linear feet of trench can be installed with the proposed home location on the property.

Any disturbances or grading done in the usable soils area may change the potential of using the area designated for a drain field and can result in a revoked permit.

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

Sincerely,

Trent Bostic, AOWE

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Agri-Waste Technology, Inc. 501 N Salem Street, Suite 203, Apex, NC 27502 agriwaste.com | 919.859.0669

SOIL & SITE EVALUATION for ON-SITE WASTEWATER SYSTEMS

Evaluation Date PIN/Parcel Proposed Facility Water Supply

5/1/2025	
1509-12-1298	
SFR	
Municipal	

Site Location Property Size (acres) Bedrooms Design Flow (.0400)

50 Verbena Pt
0.58
4
480

County
Property Recorded
Wastewater Strength
Evaluation Method

Harnett
Yes
Domestic
Auger

Landscape Position Depth (in) Depth (in) Struct Ure Textur Mineralogy Mineralogy Depth (in) Depth (in) Struct Ure Textur Mineralogy Depth (in)						_				-	
Ap 0-9			-	Soil	Morphology		Other Factors				
2% E9-15 LS NS, NP, Vfr 10YR 5/6 System Type Conventional	Profile #	Landscape Position		Struct ure Textur	Consistence	Soil Wetness	Soil		Restrictive	Profile Class	.0502(d) Slope Corrected Depth
1 2% Bt SCL SS, SP, Fi 10YR 5/6 System Type Conventional			Ap 0-9	LS	NS, NP, Vfr	10YR 5/2					
System Type Conventional			E 9-15	LS	NS, NP, Vfr	10YR 6/4	36	Suitable	Suitable	0.375	36
Ap 0-9	1	2%	Bt	SCL	SS, SP, Fi	10YR 5/6					
2 2% E9-15 LS NS, NP, Vfr 10YR 5/6 36 Suitable Suitable 0.375 36								System Type		Conve	ntional
2 2% E9-15 LS NS, NP, Vfr 10YR 5/6 36 Suitable Suitable 0.375 36											
2 2% E9-15 LS NS, NP, Vfr 10YR 5/6 36 Suitable Suitable 0.375 36											
2 2% Bt SCL SS, SP, Fi 10YR 5/6 System Type Conventional Ap 0-9 LS NS, NP, Vfr 10YR 5/2 E9-15 LS NS, NP, Vfr 10YR 5/6 System Type Conventional 3 2% Bt SCL SS, SP, Fi 10YR 5/6 System Type Conventional Ap 0-9 LS NS, NP, Vfr 10YR 5/2 E9-15 LS NS, NP, Vfr 10YR 6/4 36 Suitable Suitable 0.375 36 Bt SCL SS, SP, Fi 10YR 5/2 System Type Conventional			Ap 0-9	LS	NS, NP, Vfr	10YR 5/2	36		Suitable	0.375	
Ap 0-9			E 9-15	LS	NS, NP, Vfr	10YR 6/4		Suitable			36
Ap 0-9	2		Bt	SCL	SS, SP, Fi	10YR 5/6					
Suitable								System Type		Conve	ntional
Suitable											
Suitable			T		•			1	·	T	T
3 2% Bt SCL SS, SP, Fi 10YR 5/6 System Type Conventional Ap 0-9 LS NS, NP, Vfr 10YR 5/2 E9-15 LS NS, NP, Vfr 10YR 6/4 Bt SCL SS, SP, Fi 10YR 5/6 4 2% Bt SCL SS, SP, Fi 10YR 5/6			· .								
Ap 0-9				_			36	Suitable	Suitable	0.375	36
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E 9-15 LS NS, NP, Vfr 10YR 6/4 36 Suitable Suitable 0.375 36 4 2% Bt SCL SS, SP, Fi 10YR 5/6								System Type		Conve	ntional
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4 2% Bt SCL SS, SP, Fi 10YR 5/6							36		Cuitabla	0.075	36
332 3373711 231333	_	20/		_				Suitable	Suitable	0.375	
System type Conventional	4	2%	RI	SCL	55, 5P, FI	TOAK 2/6		System Type		Convo	ntional
								эузтенн туре		Conve	iiliUildl

Eviauteu by:	ID	

Site Classification	Suitable		
Primary LTAR	0.375	Repair LTAR	0.375
Primary Trench Depth	24	Repair Trench Depth	24



Agri-Waste Technology, Inc. 501 N Salem Street, Suite 203, Apex, NC 27502 agriwaste.com | 919.859.0669

SOIL & SITE EVALUATION for ON-SITE WASTEWATER SYSTEMS

LEGEND

Soil Group	Soil Texture	Conventional LTAR	Anaerobic Dip LTAR	Aerobic Drip LTAR (TS-II)		ralogy & istence	Structure	
	S (Sand)				Moist	Wet	SG (Single grain)	
I	LS (Loamy Sand)	0.8-1.2	0.4-0.6	0.8-1.5	Lo (Loose)	NS (Non Sticky)	M (Massive)	
II	SL (Sandy Loam)	0.6-0.8	0.3-0.4	0.6-0.8	VFR (Very Friable)	SS (Slightly Sticky)	GR (Granular)	
"	L (Loam)		0.0 0.4	0.0 0.0	FR (Friable)	S (Sticky)	SBK (Subangular Blocky)	
	SiL (Silt Loam)				FI (Firm)	VS (Very Sticky)	ABK (Angular Blocky)	
III	SCL (Sandy Clay Loam)	(Sandy Clay	0.3-0.6	0.3-0.6 0.15-0.3	0.2-0.6	VFI (Very Firm)	NP (Non Plastic)	PR
	CL (Clay Loam)				EFI (Extremely Firm	SP) (Slightly Plastic)	(Prismatic)	
	SiCL (Silty Clay Loam)				P (Plastic)	PL		
n.,	SC (Sandy Clay) SiC (Silty Clay) C (Clay)	0.05.4.5	0.05-0.2		VP (Very Plastic)	(Platy)		
IV		0.1-0.4	0.05-1.5		SEXP (Sligh	ty Expansive)		
						EXP (E)	(pansive)	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 1/20/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

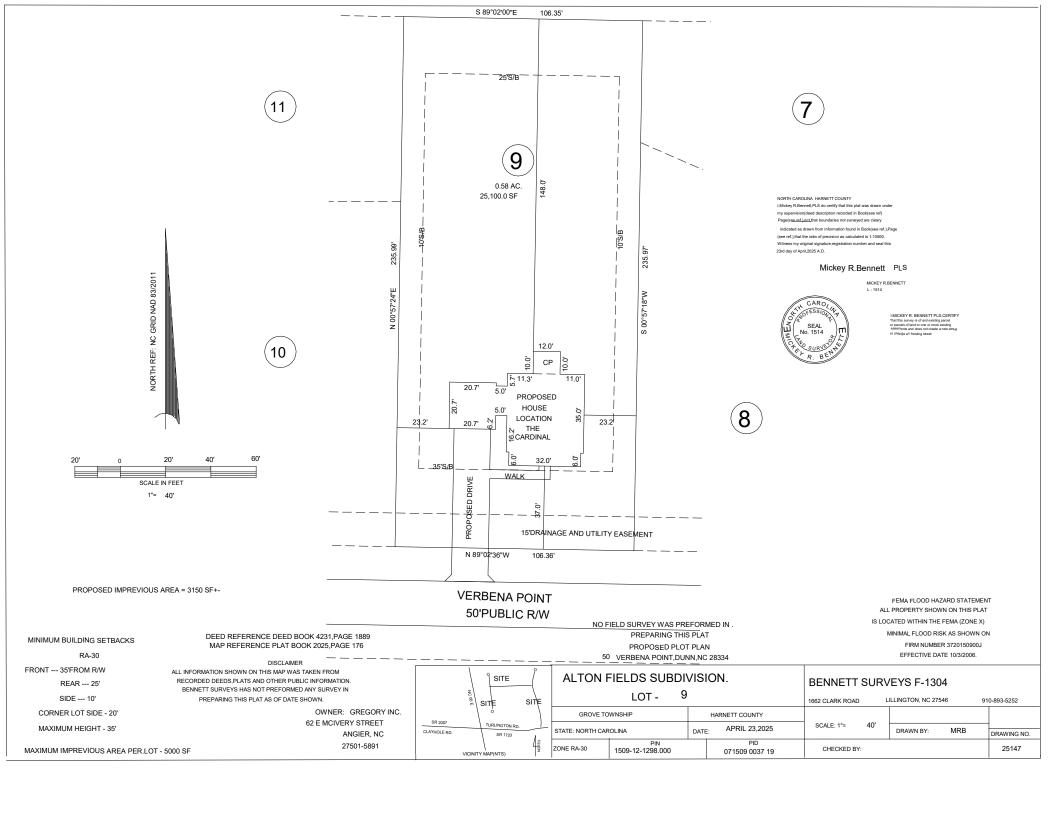
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PRODUCER Hartsfield & Nash Agency, Inc.		CONTACT NAME: Connie Garkalns		
10405 Ligon Mill Rd., Ste H		PHONE (A/C, No, Ext): 984-235-4273 FAX (A/C, No): 919-55	56-8758	
Wake Forest NC 27587		E-MAIL ADDRESS: connie@hartsfield-nash.com		
		INSURER(S) AFFORDING COVERAGE	NAIC#	
	License#: 1000009111	INSURER A: Selective Insurance Company of	39926	
INSURED	AGRITEC-0	INSURER B: Accident Fund	10166	
Agri-Waste Technology Inc 501 N. Salem St Ste 203		INSURER c : Evanston Insurance Company	35378	
Apex NC 27502		INSURER D:		
		INSURER E :		
		INSURER F:		
COVERAGES	CERTIFICATE NUMBER: 130/498969/	REVISION NUMBER:		

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

NSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s
Α	X COMMERCIAL GENERAL LIABILITY			S 2253659	1/18/2025	1/18/2026	EACH OCCURRENCE DAMAGE TO RENTED	\$2,000,000
	CLAIMS-MADE X OCCUR						PREMISES (Ea occurrence) MED EXP (Any one person)	\$ 300,000 \$ 10,000
							PERSONAL & ADV INJURY	\$2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$4,000,000
	POLICY X PRO- JECT LOC						PRODUCTS - COMP/OP AGG	\$4,000,000
	OTHER:							\$
A	AUTOMOBILE LIABILITY			S 2253659	1/18/2025	1/18/2026	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	X ANY AUTO						BODILY INJURY (Per person)	\$
	OWNED SCHEDULED AUTOS AUTOS						BODILY INJURY (Per accident)	\$
	X HIRED X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	\$
								\$
A	X UMBRELLA LIAB X OCCUR			S 2253659	1/18/2025	1/18/2026	EACH OCCURRENCE	\$2,000,000
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	\$2,000,000
	DED RETENTION\$							\$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			100003072	1/18/2025	1/18/2026	X PER OTH- STATUTE ER	
	ANYPROPRIETOR/PARTNER/EXECUTIVE T/N	N/A					E.L. EACH ACCIDENT	\$1,000,000
	(Mandatory in NH)	,					E.L. DISEASE - EA EMPLOYEE	\$1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - POLICY LIMIT	\$1,000,000
C A	Prof & Pollution Liability Leased & Rented			MKLV3ENV104794 S 2253659	8/22/2024 1/18/2025	8/22/2025 1/18/2026	Each Claim Equipment	5,000,000 25,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER	CANCELLATION
Artisan Custom Homes 21016 Catawba Avenue	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Cornelius NC 28031 USA	AUTHORIZED REPRESENTATIVE
	Conni garali



AOWE - AF9	
Project Location	50 Verbena Pt
	Dunn, NC 27334
	Harnett County
	PIN: 1509-12-1298
Project Owner	RiverWILD Homes
	114 W Main St
	Clayton, NC 27520
	919-373-6048
	kelley@staywild.com
Project Consultant	Trent Bostic, AOWE
	(919) 367-6322
	tbostic@agriwaste.com
	Agri-Waste Technology, Inc.
	1225 Crescent Green, Suite 250
	Cary, NC 27518
	(919) 859-0669
	(919) 233-1970 Fax
System Overview	Single Family Residence
	Four (4) Bedrooms, 480GPD
	Pressure Manifold
	Accepted/Innovative Trench Product



VICINITY MAP

Sheet Index

	Sheet 1	Cover Sheet
	Sheet 2	Property Layout
	Sheet 3	Primary Drainfield
	Sheet 4	Repair Drainfield
	Sheet 5	Detail Sheet
	Sheet 6	Detail Sheet



Agri-Waste Technology, Inc. 1225 Crescent Green, Suite 250 Cary, North Carolina 27518 919-859-0669 www.agriwaste.com

> RiverWILD Homes AOWE - AF9

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Project Owner:
RiverWILD Homes
114 W Main St
Clayton, NC 27520
919-373-6048
kelley@staywild.com

NC ONSITE WASTEWATER EVALUATOR SEAL



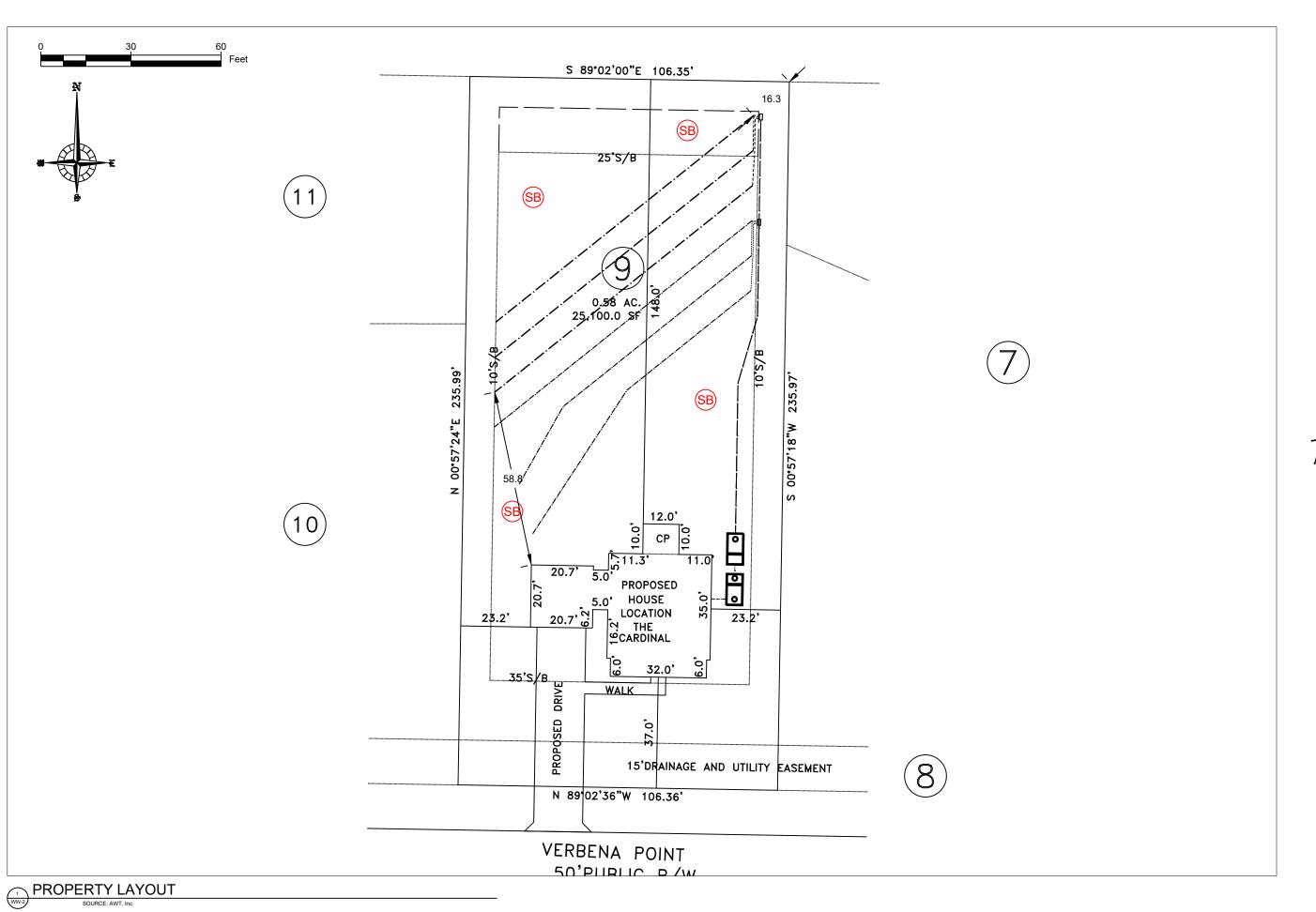
REY. ISSUED DATE DESCRIPTION

SHEET TITLE

Cover Sheet

DRAWING NUMBER





Engineers and Soil Scientists

Engineers and Soil Scientist

Agri-Waste Technology, Inc.

Agri-waste i echnology, inc. 1225 Crescent Green, Suite 250 Cary, North Carolina 27518 919-859-0669 www.agriwaste.com

> RiverWILD Homes AOWE - AF9

Project Location: 50 Verbena Pt Dunn, NC 27334 Harnett County PIN: 1509-12-1298

Project Owner: RiverWILD Homes 114 W Main St Clayton, NC 27520 919-373-6048 kelley@staywild.com

> NC ONSITE WASTEWATER EVALUATOR SEAL



rey, issued date description

SHEET TITLE

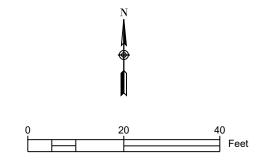
Property Layout

DRAWN BY: T. Bostic	CREATED ON: 10/27/2025
REVISED BY: ####	REVISED ON:
RELEASED BY: ####	RELEASED ON:

DRAWING NUMBER

General Drainfield Notes:

- 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.
- Jrainfield 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.
- Supply lines shall be installed with a minimum of 18" cover.
- 6. The trenches shall be backfilled appropriately so that no low areas are present.
- 7. 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.



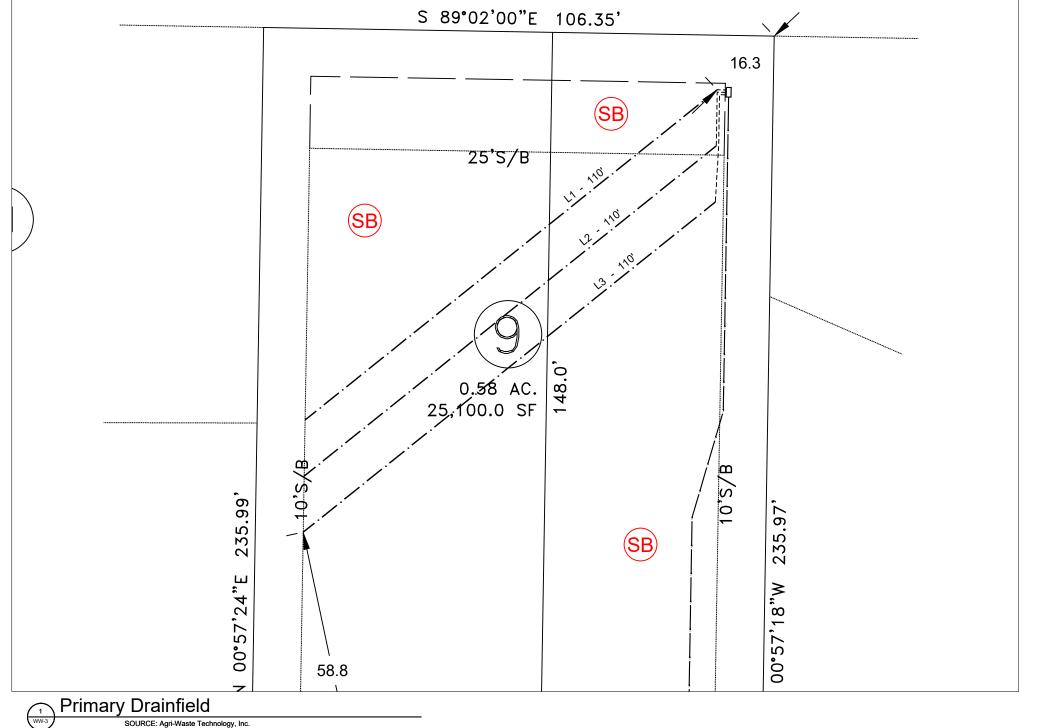
DRAINFIELD INFO	Primary					
Proposed Type of System/Distribution:		Pump to Press	sure Manifold			
		using EZflow				
Line No.	Flag Color	Line Length (ft)	Тар	Flow (gpm)	Flow/Foot (gpm/ft)	Line L.T.A.R.
1	red	110	1/2in SCH 80	5.48	0.050	
2	white	110	1/2in SCH 80	5.48	0.050	
3	blue	110	1/2in SCH 80	5.48	0.050	0.485
	Total	330	Total	16.44	Avg.	0.48
Note: Line lengths are calculated in 5' increments to reflect use of EZflow product.						

Note:

Primary distribution is pressure manifold utilizing accepted trench product.

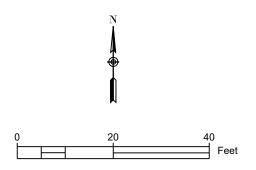


DRAWING NUMBER



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DRAINFIELD INFO	Repair					
Proposed Type of System/Distribution:		Pump to Pressure Manifold				
		using EZflow	,			
	Flag	Line		Flow	Flow/Foot	Line
Line No.	Color	Length (ft.)		(gpm)	(gpm/ft)	L.T.A.R.
4	yellow	110	1/2in SCH 80	5.48	0.050	0.485
5	purple	110	1/2in SCH 80	5.48	0.050	0.485
6	red	110	1/2in SCH 80	5.48	0.050	0.485
	Total	330	Total	16.44	Avg.	0.48
Mater Line Levelle and and	autotadia Elipanana		of C7flow product			

SOURCE: Agri-Waste Technology, Inc.

Note:

Repair distribution is pressure manifold utilizing an accepted trench product.

919-859-0669 www.agriwaste.com

> RiverWILD Homes AOWE - AF9

Project Location: 50 Verbena Pt Dunn, NC 27334 Harnett County PIN: 1509-12-1298

Project Owner: RiverWILD Homes 114 W Main St Clayton, NC 27520 919-373-6048

NC ONSITE WASTEWATER EVALUATOR SEAL

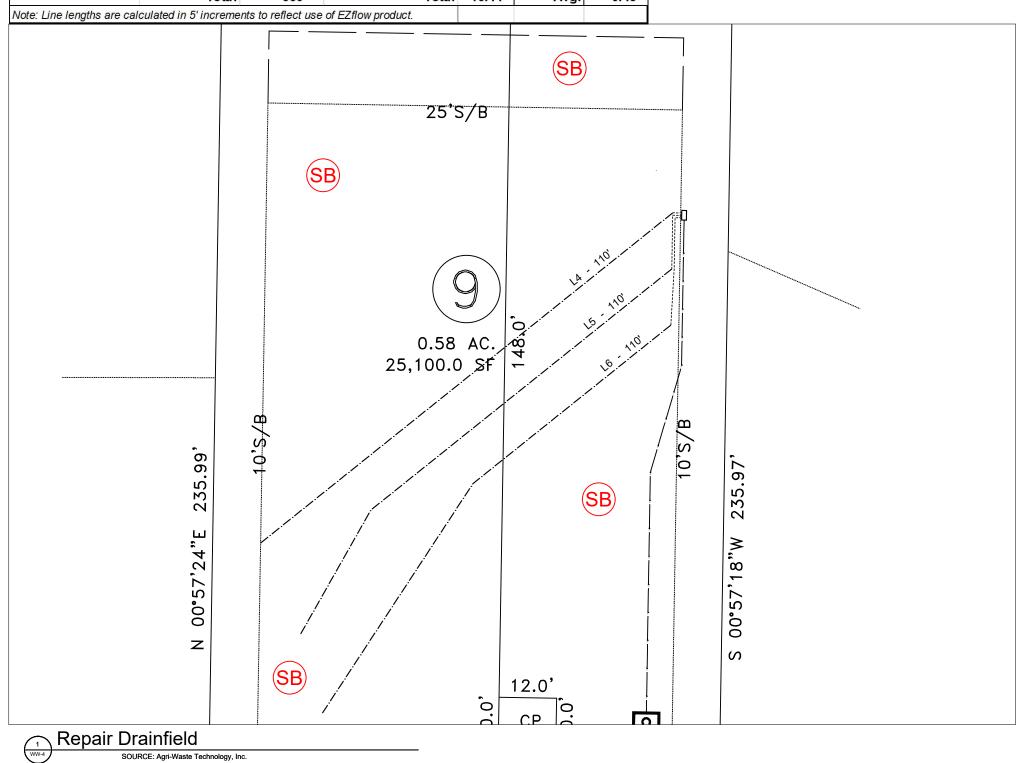


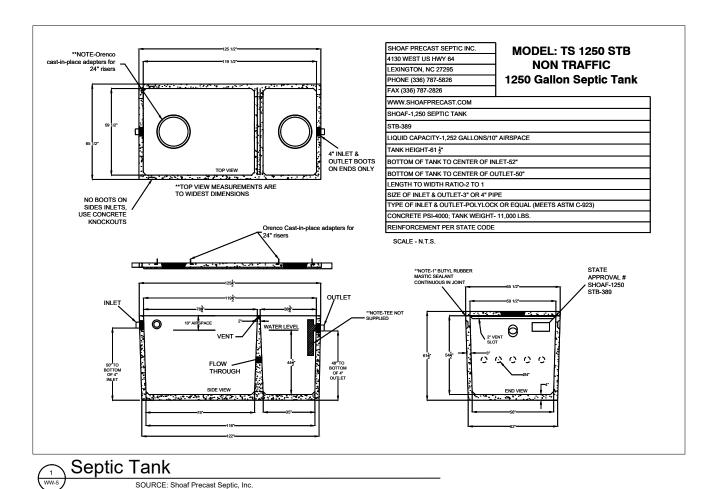
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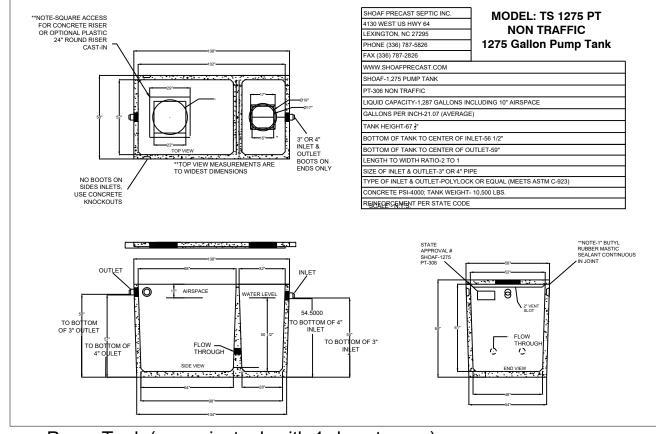
SHEET TITLE

Repair Drainfield

DRAWN BY: T. Bostic	CREATED ON: 10/27/2025
REVISED BY: ####	REVISED ON:
RELEASED BY:	RELEASED ON:







Pump Tank (or equiv. tank with 1-day storage) SOURCE: Shoaf Precast Septic, Inc.

1. Installation to follow all NC DHHS and Harnett County applicable rules and regulations.

2. AWT to perform construction inspections and final system certification.

3. Septic Tank to have approved effluent filter.

4. Contractor to abide by all safety regulations during system installation.

5. Contractor shall backfill around all access areas such that storm water is shed away from potential entry points.

6. Invert elevations of all components to be verified in field by contractor to insure proper operation.

7. All system piping to be SCH40 PVC (except where noted).

8. All gravity elbows to be long radius or long sweeping type elbows.

9. Actual installation and placement of treatment system to be overseen by Contractor.

10. Tanks to be set on 6" minimum grayel base. Use #5 or #57 stone for base.

11. Contractor to seed and/or mulch disturbed areas to coincide with existing landscape. Area shall not be left with uncovered soil.

12. Mount Control Panel a minimum of 24" above grade.

13. Power to panel to be installed by licensed electrician per code. One 15-amp circuit and one 20-amp circuit with individual neutrals to be run from house to control panel.

14. All risers to have cast-in-place tank adapters and be single-piece riser. Risers to extend 6" above soil surface and be designed to prevent surface water inflow.

15. Backfill around tank(s) shall be gravel or tank hole shall be over-excavated a minimum of 2' in all directions to allow for mechanical tamping of backfill.

16. All penetrations to be sealed.

17. All pressure lines to maintain 18" min. cover.

18. Contractor to adjust tank placement to meet site constraints.



RISER INSTALLATION INSTRUCTIONS:
. Prep Adopter Channel & Riser

NOTES

- use o clean cloth and acetone or olcohol to clean the bonding surfaces of the adapter and riser. The bonding surfaces must be clean and dry for a good fit and waterlight joint. Let the acetone or olcohol dry completely. ply Adhesive Apply a bead of methocrylate adhesive to the outside of the adapter. One 7-oz packet of MA320 adhesive is typical for one 24" riser.

- MA320 adhesive is typical for one 24" riser,
 1stall Riser

 3.1. If the riser has penetrations, align the riser correctly,
 3.2. Firmly press the riser onto the adopter until the bottom of the riser is resting on the concrete (cost-im-adopters) or the adopter flange (botted-down adopters),
 Twist the riser back and forth slightly to fully seat it an to create a good band,
 3.3. Apply a bead of methocrylate adhesive to the inside of the access riser-adopter joint.
 3.4. Use a tongue depressor, putty knife, or clean cloth to make a continuous fillet on the inside of the access riser-adopter joint.
 3.5. Apply hydraulic cement to band outer riser wall and top of tank.
 4. Ensure inner lid is in place and secured.

FOR RISER WALL P	ENETRATIONS
Grommet Size, Inches (Nominal IPS Pipe Size)	Hole Saw Size, Inches
1/2	1
3/4	1 1/4
1	1 9/16
1 1/4	1 3/4
1 1/2	2 1/8
2	2 3/4
3	3 7/8
4	5

Riser Installation

Access Riser to Extend 6 Inches

Above Finished Grade.

1225 Crescent Green, Suite 250

919-859-0669 www.agriwaste.com

> RiverWILD Homes AOWE - AF9

Project Location 50 Verbena Pt Dunn, NC 27334 Harnett County PIN: 1509-12-1298

Project Owner: RiverWILD Homes 114 W Main St Clayton, NC 27520 919-373-6048 kelley@staywild.com

NC ONSITE WASTEWATER EVALUATOR SEAL



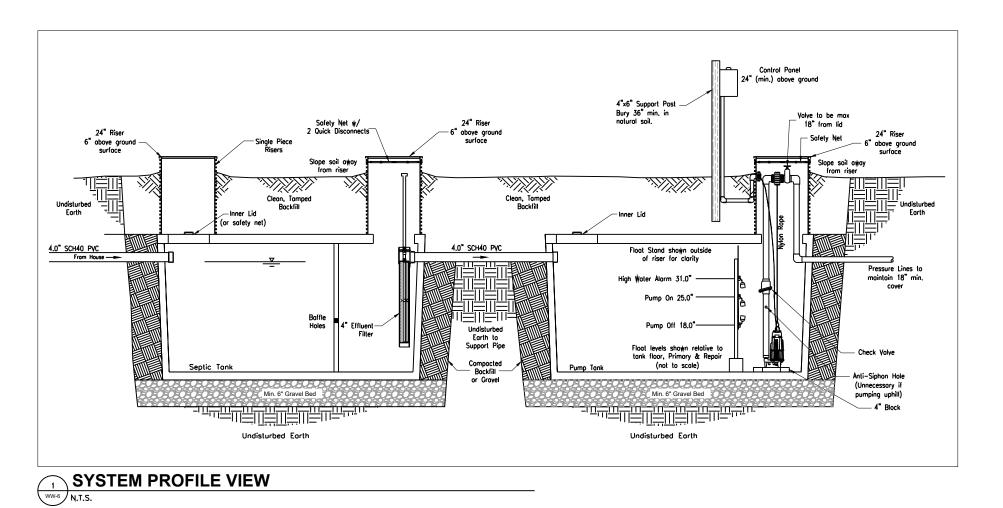
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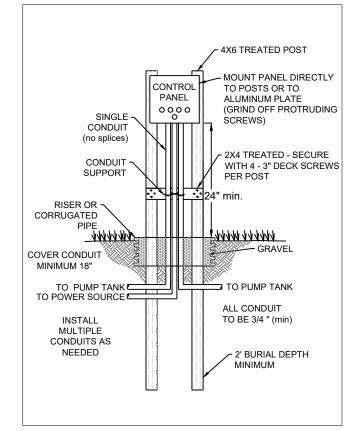
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DRAWN BY: T. Bostic	CREATED ON: 10/27/2025
REVISED BY: ####	REVISED ON:
RELEASED BY: ####	RELEASED ON:

Detail Sheet 1

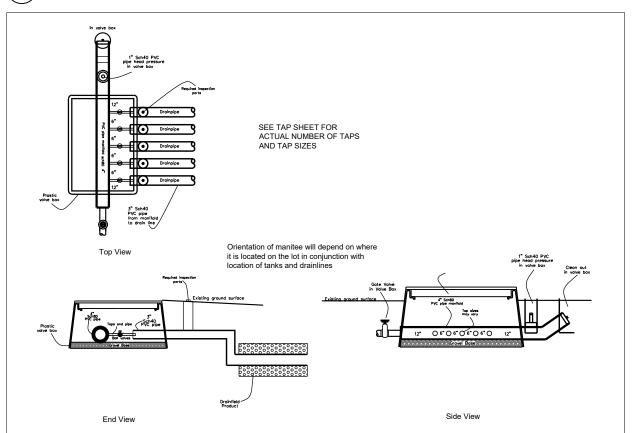
DRAWING NUMBER





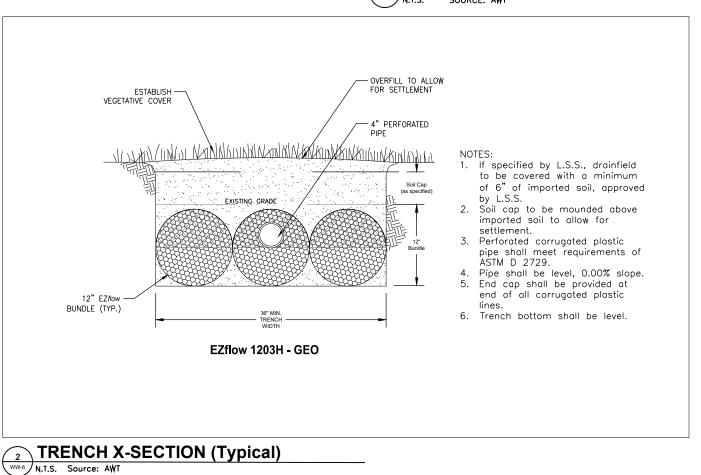
CONTROL PANEL SUPPORT

WW-6 N.T.S. SOURCE: AWT



PRESSURE MANIFOLD INSTALLATION (Manitee) - For Illustration Only

N.I.S. SOURCE: AWT



Agri-Waste Technology, Inc.
1225 Crescent Green, Suite 250
Cary, North Carolina 27518
919-859-0669
www.agriwaste.com

RiverWILD Homes AOWE - AF9

Project Location: 50 Verbena Pt Dunn, NC 27334 Harnett County PIN: 1509-12-1298

Project Owner: RiverWILD Homes 114 W Main St Clayton, NC 27520 919-373-6048 kellev@staywild.com

NC ONSITE WASTEWATER EVALUATOR SEAL



rey. Issued date description

SHEET TITLE

Detail Sheet 2

DRAWING NUMBER

Septic System Design - Summary Page

Engineers and Soil Scientists

Agri-Waste Technology, Inc. 501 N Salem Street, Suite 203, Apex, NC 27502 agriwaste.com | 919.859.0669

Project Manager: Trent Bostic, AOWE

tbostic@agriwaste.com

919-367-6322

Designer:

Trent Bostic, AOWE tbostic@agriwaste.com

Project: Alton Fields Date:

Property: 50 Verbena Pt

Dunn, NC 27334 County: Harnett

9/25/2025

Subdiv.: Alton Fields

Lot #: 9 Permit #:

Owner: RiverWILD Homes

Address: 114 W Main St Type of System: III b

Clayton, NC 27520 **Phone:** 919-766-8782

Email: kelley@staywild.com PIN: 1509-12-1298

EHS:

Soil Parameters

Soil Evaluation By:

-

Special Conditions/Notes:

Interior

119.5

59.5

54.5

in.

in.

in.

LTAR: 0.375 gpd/ft²

Design Parameters

Type of Establishment: Residence, 5 or fewer bedrooms

Unit: Bedroom
of Units: 4

Septic Tank Specifications

Min. Tank Capacity: 1,000 gal **Exterior Actual Tank Volume:** 1,250 Length: 125.5 gal **Tank Manufacturer:** Shoaf Width: 65.5 Tank Model: TS 1250 STB Depth: 62.0

Primary Drainfield Specifications

Type of Distribution: Parallel Pressure Manifold Trench Bottom Area: 1280 ft²

Trench Media: EZflow Minimum Drain Line: 320 ft

Trench Width: 3 ft Actual Drain Line: 330 ft
Trench Depth: 24 in. Number of Lines: 3

(or as specified on permit) Minimum Line Spacing: 9 ft O.C.

Wastewater Treatment System Design Calculations

Project: Alton Fields Location: 50 Verbena Pt

Dunn, NC 27334

County: Harnett

Septic Tank Sizing

Daily Flow Estimate:

Unit	# of Units	Flow/Unit	Flow/Day
Bedroom	4	120	480
	,	Q=	480

Septic Tank Minimum Capacity:

Per NCAC T15A:18A .1952(b)(1):

For individual residences with 4 bedrooms,

Minimum Liquid Capacity (V)= 1,000 gal

Septic Tank Specs:

Manufacturer:

Shoaf Model: TS 1250 STB

Volume: 1,250 gal Weight: 11,000 lbs

Interior Exterior Length: 119.5 125.5 in. Width: 65.5 59.5 in. Depth: 62.0 54.5 in.

Shape of Risers: Circular

Diameter: 2.00 ft

Pump Tank Storage & Float Settings

Project: Alton Fields **Location:** 50 Verbena Pt

Dunn, NC 27334

County: Harnett

Tank Manufacturer

Shoaf

Tank Model

TS 1275 PT

Interior Height (in.) 60.5 in. Avg. Storage 21.07 gal/in.

Primary System

<u>Elevations</u>, measured from bottom towards top (0 = Interior Bottom of Tank):

Top of pump (including 4" block) 16.1 in. (Pump height = 12 1/16")

Pump Off 18.0 in.

Pump On 25.0 in. (set for dose volume)
Alarm On 31.0 in. (6 in. above On Float)

Emergency Storage Available

Pump Tank 622 gal
Days of Storage 1.29 days
(determined from "interior top of tank" - "High Water Alarm")

Repair System

Elevations, measured from bottom towards top (0 = Interior Bottom of Tank):

Top of pump (including 4" block)

16.1 in. (Pump height = 12 1/16")

Pump Off 18.0 in.

Pump On 25.0 in. (set for dose volume)
Alarm On 31.0 in. (6 in. above On Float)

Emergency Storage Available

Pump Tank 622 gal
Days of Storage 1.29 days
(determined from "interior top of tank" - "High Water Alarm")

ELEVATIONS

Project: Alton Fields Location: 50 Verbena Pt Dunn, NC 27334 County: Harnett

Benchmark	0
DM Floy	O ft

Septic Tank	1,250 gal	
Ground Surface		226.00 ft
Depth of Soil Cover	14 in.	1.17 ft
Overall Ht of Tank	61.5 in.	5.13 ft
Elev, Base of Tank		219.71 ft
Ht to 4" Inlet Invert	50 in.	4.17 ft
Elev, 4" Inlet Invert		223.88 ft
Ht to 4" Outlet Invert	48 in.	4.00 ft
Elev, 4" Outlet Invert		223.71 ft
Gravel Base	6 in.	0.50 ft
Elev, Bot of Excavation		219.21 ft
Pump Tank	1275 gal	
Ground Surface		226 00 ft

Pump Tank	1275 gal	
Ground Surface		226.00 ft
Depth of Soil Cover	16 in.	1.33 ft
Overall Ht of Tank	67.5 in.	5.63 ft
Elev, Base of Tank		219.04 ft
Ht to 4" Inlet Invert	55 in.	4.58 ft
Elev, 4" Inlet Invert		223.63 ft
Ht to 2" Outlet Invert	57 in.	4.75 ft
Elev, 2" Outlet Invert _		223.79 ft
Gravel Base	6 in.	0.50 ft
ev, Bot of Excavation		218.54 ft

Elev, Bot of Excavation

ST Inlet Pipe

Grade @ Stub-out	226	ft
Depth of Stub-out, top	1.5	ft
Elev, Stub-out Invert	224.15	ft
Elev @ ST Inlet Invert	223.88	ft
Length	10	ft
Slope	2.7	%

Pipe, ST to PT

ID	4	in.	0.33 ft
OD	4.5	in.	0.38 ft
Elev, ST Outlet Invert			223.71 ft
Elev, PT Inlet Invert			223.63 ft
Length			5 ft
Slope			1.7 %
Cover over inlet pipe			1.77 ft

Pump Reqmt. Floor Thickness

Floor I hickness	4 in.	0.33 ft
Elev, Pump Tank Floor		219.38 ft
Pump Block Ht.	4 in.	0.33 ft
Elev, Pump Intake		219.71 ft

Elev, Pump intake		219.71 10
Grade @ Primary Manifold		229.00 ft
Grade @ Repair Manifold		229.00 ft
Min. Cover	18 in.	1.50 ft
Max Elev, Primary		227.50 ft
Max Elev, Repair		227.50 ft

Elev Diff, Primary	7.79 ft
Elev Diff, Repair	7.79 ft

Drainfield Design

Project Alton Fields
Location 50 Verbena Pt

Dunn, NC 27334

County Harnett

Drainfield Sizing

Primary

LTAR 0.375 gpd/ft²

Daily Design Flow 480 gpd Type of Drainfield Media Req. Drainfield Area 1,280 ft² Required Drainline

Trench Width, Eff. 3 ft After 25% Reduction 320 ft
Required Drainline 427 ft Minimum Line Spacing 9 ft (O.C.)

EZflow

Repair

LTAR 0.375 gpd/ft²

Daily Design Flow 480 gpd Type of Drainfield Media EZflow

Req. Drainfield Area 1,280 ft² Required Drainline

Trench Width, Eff. 3 ft After 25% Reduction 320 ft

Required Drainline 427 ft Minimum Line Spacing 9 ft (O.C.)

Drainfield Layout

			Elevation	Line Length	Used as	Used as
Line	Use	Flag Color	(ft)	(ft)	Primary (ft)	Repair (ft)
1	Layout Line	red		110	110.0	
2	Layout Line	white		110	110.0	
3	Layout Line	blue		110	110.0	
4	Layout Line	yellow		110		110.0
5	Layout Line	purple		110		110.0
6	Layout Line	red		110		110.0
7	Layout Line					
8	Layout Line					
9	Layout Line					
10	Layout Line					
11	Layout Line					
12	Layout Line					
13	Layout Line					
14	Layout Line					
15	Layout Line					
16	Layout Line					
17	Layout Line					
18	Layout Line					
19	Layout Line					
20	Layout Line					
			Total	660	330	330
			Count	6	3	3

Note: Line length totals are shown to the nearest foot.

PRESSURE MANIFOLD DESIGN (Primary)

Site Information

Project: Alton Fields Location: 50 Verbena Pt

Dunn, NC 27334

County: Harnett

Design Information

Estimated Daily Flow 480 gal/day 0.375 gal/day/ft² 0.394 gal/day/ft² L.T.A.R. (from Harnett Co.) L.T.A.R. + 5% Trench Width 3 ft. 427 ft. Line Length Required Length after 25% Reduction 320 ft 0.500 gal/day/ft² L.T.A.R. Reduced

0.525 gal/day/ft² L.T.A.R. Reduced + 5%

DRAINFIELD INFO. - Primary

Proposed Type of System/Distribution: Pump to Pressure Manifold

using EZflow

	Flag	Line		Flow	Flow/Foot	Line
Line No.	Color	Length (ft)	Тар	(gpm)	(gpm/ft)	L.T.A.R.
1	red	110	1/2in SCH 80	5.48	0.050	0.485
2	white	110	1/2in SCH 80	5.48	0.050	0.485
3	blue	110	1/2in SCH 80	5.48	0.050	0.485
	Total	330	Total	16.44	Ava.	0.48

Note: Line lengths are calculated in 5' increments to reflect use of EZflow product.

Total Run Time Drainfield Capacity		
% of Drainfield Cap	68.4%	(Req. Range 66-75%)
Dose Volume	147.4 gal/dose	
Run Time/Dose	9.0 minutes	Range 5-7 minutes unless uphill, checked
Volume/depth	21.07 gal/in.	(Per tank manufacturer's specifications)
Estimated Drawdown	7.00 in.	
Manifold Box		
Niveshau of Taus	0	0 0-14/-)

Number of Taps with Split(s) Manifold Length 3.0 (approximate) ft.

PRESSURE MANIFOLD SYSTEM DESIGN (Repair)

Site Information

Project: Alton Fields
Location: 50 Verbena Pt

Dunn, NC 27334

County: Harnett

Design Information

Estimated Daily Flow 480 gal/day
L.T.A.R. (from Harnett Co.) 0.375 gal/day/ft²
L.T.A.R. + 5% 0.394 gal/day/ft²
Trench Width 3 ft.
Line Length Required 427 ft.
Length after 25% Reduction 320 ft
L.T.A.R. Reduced 0.500 gal/day/ft²

 $\begin{array}{ccc} \text{L.T.A.R. Reduced} & 0.500 \text{ gal/day/ft}^2 \\ \text{L.T.A.R. Reduced} + 5\% & 0.525 \text{ gal/day/ft}^2 \end{array}$

DRAINFIELD INFO. - Repair

Proposed Type of System/Distribution: Pump to Pressure Manifold

using EZflow

Line No.	Flag Color	Line Length (ft.)		Flow (gpm)	Flow/Foot (gpm/ft)	Line L.T.A.R.
4	yellow	110	1/2in SCH 80	5.48	0.050	0.485
5	purple	110	1/2in SCH 80	5.48	0.050	0.485
6	red	110	1/2in SCH 80	5.48	0.050	0.485
	Total	330	Total	16.44	Avg.	0.48

Note: Line lengths are calculated in 5' increments to reflect use of EZflow product.

Total Run Time Drainfield Capacity	29.20 min. 215.5 gal	
% of Drainfield Cap	68.4%	(Req. Range 66-75%)
Dose Volume	147.4 gal/dose	
Run Time/Dose	9.0 minutes	Range 5-7 minutes unless uphill, checked
Volume/depth	21.07 gal/in.	(Per tank manufacturer's specifications)
Estimated Drawdown	7.00 in.	
Manifold Box		
Number of Taps	3 with	0 Split(s)
Manifold Length	3.0 ft.	(approximate)

PUMP DESIGN

System (initial/repair): Primary

Project: Alton Fields
Location: 50 Verbena Pt
Dunn, NC 27334

County: Harnett

Friction Losses

0 ft	(submersible 0)
7.79 ft	
t 2 ft	
Flow	16.44 gpm
Velocity	2.66 ft/sec
Me	eets requirement that 2 ft/s < v < 5 ft/s.
2.82 ft	
3.5 ft	
	7.79 ft 2 ft Flow Velocity Me 2.82 ft

TOTAL 16.12 ft.

Flow for Anti-Siphon Hole

Hole Diameter 3/16 in.
Hole Flowrate 1.66 gpm

Pump Efficiency 0.7 (assumed, typical)

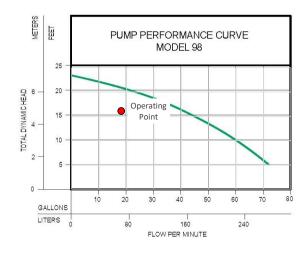
Motor Efficiency 0.9 (assumed for electric pumps)

Flow 18.10 gpm

Required Horsepower 0.12 hp TDH 16.12 ft

Pump Selection

Tump concention	
Manufacturer:	Zoeller
Model:	N98
Horsepower:	0.5



PUMP DESIGN

System (initial/repair): Repair

Project: Alton Fields
Location: 50 Verbena Pt
Dunn, NC 27334

County: Harnett

Friction Losses

	Suction Head	0 ft	(submersible 0)
Elev. Difference (highes	st point from pump)	7.79 ft	
Design	Pressure At Outlet	2 ft	
Supply Line - 1.5" Schedule 40 P	vc		
Pipe Diameter, Nominal	1.5 in.		
Pipe Diameter (ID)	1.59 in.	Flow	16.44 gpm
Pipe Length	110 ft	Velocity	2.66 ft/s
Pipe Length for Fittings	11 ft	Me	ets requirement that 2 ft/s < v < 5 ft/s.
Equivalent Length	121 ft		
Estimated Friction I	oss in Supply Line	2.22 ft	
Friction Loss - Ta	aps/Special Fittings	3.5 ft	

TOTAL 15.51 ft.

Flow for Anti-Siphon Hole

Hole Diameter 3/16 in.
Hole Flowrate 1.63 gpm

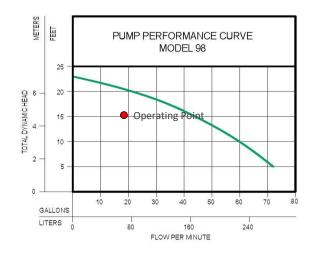
Pump Efficiency 0.7 (assumed, typical)
Motor Efficiency 0.9 (assumed for electric pumps)
Flow 18.07 gpm

Required Horsepower 0.11 hp

TDH 15.51 ft.

Pump Selection

i aimp concernan	
Manufacturer:	Zoeller
Model:	N98
Horsepower:	0.5



Septic Tank Buoyancy Calculation

Project: Alton Fields
Location: 50 Verbena Pt

Dunn, NC 27334

County: Harnett

Tank Size (nominal) 1250 gal

Properties/Assumptions:

Min. liquid level to be maintained in tank at all times after initial installation.					
Min. depth to water table Effluent Density Concrete Density	12.0 in. 62.4 lb/ft ³ 142.6 lb/ft ³	from ground surface (Specific Weight of Water)			
Soil App. Sp. Grav.	1.3	(typical value)			
Soil Cover Over Tank	12 in.	(minimum)			
Additional Cover	2 in.	for pipe grade			
Unsubmerged wt of soil	81.1 lb/ft ³				
Submerged wt of soil	49.9 lb/ft ³	50% Porosity Assumed			

Tank Dimensions (from supplier):

Tarik Dirilerisio	ns (nom supp	1161).			
		<u>Exterior</u>		<u>Inter</u>	<u>ior</u>
	_	Тор	Bottom	Тор	Bottom
Tanl	k Length	125.5	122.0	119.5	116.0 in.
	Width	65.5	62.0	59.5	56.0 in.
	Height	58.5 (w/o lid)	54.5	in.
Lic	d Length	125.5 i	n.		
	Width	65.5 i	n.		
	Height	3.0 i	n.		
	Area of Riser	Openings	6.28 f	t ²	
		_			
Permane	ent Liquid Dep	th in Tank	0.0 ii	n.	0.00 ft
	Ta	nk Weight	11,000 ll	o (per manufacturer)

Buoyancy Force Calculation:

Buoyancy Force Specific Weight of Water x Displaced Volume			
Displaced Volume	282.4 ft ³ *		
Buoyancy Force	17,624 lb.		

Weight Calculation:

Total Weight	19,581 lb		
Tatal Mainlet	40 F04 III		
Soil Friction Force	4037 lb		
Soil Weight Over Tank	4544 lb		
Water Weight in Tank	0 lb	Volume	0.0 ft ³ *
Tank Weight	11000 lb		

Factor of Safety = 1.11

Note: Total weight must be greater than buoyancy force so that tank will not float during high water table conditions.

^{*} Volume calculated by the prismoidal formula.

Pump Tank Buoyancy Calculation

Project: Alton Fields
Location: 50 Verbena Pt

Dunn, NC 27334

County: Harnett

Tank Size (nominal) 1275 gal

Properties/Assumptions:

Min. liquid level to be maintained in tank at all times after initial installation.					
Min. depth to water table Effluent Density Concrete Density	12 in. 62.4 lb/ft ³ 142.6 lb/ft ³	from ground surface (Specific Weight of Water)			
Soil App. Sp. Grav.	1.3	(typical value)			
Soil Cover Over Tank	12 in.	(minimum)			
Additional Cover	4 in.	for pipe grade			
Unsubmerged wt of soil	81.1 lb/ft ³				
Submerged wt of soil	49.9 lb/ft ³	50% porosity assumed			

Tank Dimensions (from supplier):

	(Exte	<u>rior</u>	<u>Inter</u>	<u>ior</u>
	_	Тор	Bottom	Тор	Bottom
Tank	Length	108.0	104.0	102.0	98.0 in.
	Width	58.0	54.0	52.0	48.0 in.
	Height	64.5	(w/o lid)	60.5	in.
Lid	Length	108.0	in.		
	Width	58.0	in.		
	Height	3.0	in.		
				ō	
Ar	ea of Riser	Openings	3.14 f	t ²	
Permanent	Liquid Dept	th in Tank	0.0	n.	0.00 ft
	Tar	nk Weight	10500 II	b (per manufacturer)

Buoyancy Force Calculation:

Buoyancy Force Specific Weight of Water x Displaced Volume			
Displaced Volume	233.5 ft ³ *		
Buoyancy Force	14,573 lb		

Weight Calculation:

Troight Gardalation.			
Tank Weight	10500 lb		
Water Weight in Tank	0 lb	Volume	0.0 ft ³ *
Soil Weight Over Tank	3945 lb		
Soil Friction Force	4227 lb		
Total Weight	18,672 lb		

Factor of Safety = 1.28

Note: Total weight must be greater than buoyancy force so that tank will not float during high water table conditions.

^{*} Volume calculated by the prismoidal formula.