From: Ritzen, Brenda

To: johnlori89@yahoo.com; P. E. R. S. Greg Johnson (gregjohnsonpe@yahoo.com)

Subject: RE: 119091.pdf

**Date:** Friday, October 31, 2025 2:23:00 PM

Attachments: 119091.pdf

image001.png

# Property Owner/Agent

In addition to the below referenced items, see attached inspection notes regarding site conditions at the time of preliminary inspeciton. Please revise as needed and resubmit.

### Thank You,



# **Brenda Ritzen**

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

From: Ritzen, Brenda

Sent: Thursday, October 30, 2025 1:40 PM

To: johnlori89@yahoo.com; P. E. R. S. Greg Johnson (gregjohnsonpe@yahoo.com)

<gregjohnsonpe@yahoo.com>

**Subject:** 119091.pdf

# Property Owner/Agent

Additional information is needed before I can continue processing the referenced permit submittal. See attached for comments.

Thank You,

# **Preliminary Field Check For Drip Systems**

195 David Jonas Dr, New Braunfels, Texas 78132 (830)608-2090

Address:			
Legal Description:			

Dear Property Owner & Agent,

Thank you for your submission. We have reviewed the planning materials for the referenced permit application, and unfortunately, they are insufficient. To proceed with processing this permit, we require the following:

# 119091.pdf Markup Summary 10-30-2025

## rabbjr (2)



Subject: Callout Page Label: 1
Author: rabbjr

**Date:** 10/30/2025 1:18:03 PM

Status: Color: Layer: Space: Submit a copy of the recorded deed for Lot 104.



Subject: Callout Page Label: 13 Author: rabbjr

Date: 10/30/2025 1:31:38 PM

Status: Color: Layer: Space: A preliminary inspection is scheduled for tomorrow. Additional comments may be necessary.





# ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090

WWW.CCEO.ORG

Date Sept	tember 22, 2025	F	119091 Permit Number
1. APPLICANT /	AGENT INFORMATION		
	IEGGIE DA VIDENE HA DODA		CREC IOINICON RE
-	JESSIE FAYRENE HARDIN		GREG JOHNSON, P.E.
_	1221 GOLF COURSE DRIVE		170 HOLLOW OAK
	SPRING BRANCH TEXAS 78070	-	NEW BRAUNFELS TEXAS 78132
Phone #	210-797-3286	Phone #	830-805-2778
Email -	johnnlori89@yahoo.com	Email	gregjohnsonpe@yahoo.com
2. LOCATION			
Subdivision Nam	e LAKE OF THE HILLS ESTA	TES Unit	Lot 104 & 105 Block 30
Survey Name / A	bstract Number		creage
Address	1221 GOLF COURSE DRIVE	City SPRING BR.	ANCH State TX Zip 78070
3. TYPE OF DEV	/ELOPMENT Submit a copy of the re	ecorded deed for Lo	ot 104.
Single Fam	ily Residential		
Type of Co	onstruction (House, Mobile, RV, Etc.) MOBIL	LE HOME & DETACHE	D LIVING_
Number of	Bedrooms 4+1		
Indicate So	Ft of Living Area 1536 + 312		
	Family Residential		
	aterials must show adequate land area for doubling	g the required land needed	for treatment units and disposal area)
	cility		-
	actories, Churches, Schools, Parks, Etc Indi		ints
	ts, Lounges, Theaters - Indicate Number of Se		
	el, Hospital, Nursing Home - Indicate Number		
	iler/RV Parks - Indicate Number of Spaces		
Miscellane	ous		
	70,000	(044	*
	t of Construction: \$ 70,000	•), is 150%	
	of the proposed OSSF located in the United S		
	No (If yes, owner must provide approval from USACE f		ents within the USACE flowage easement)
Source of Water	er 🔀 Public 🗌 Private Well 📗 Rainwate	er Collection	
4. SIGNATURE			
- The completed ar	dication, I certify that: oplication and all additional information submitted o at I am the property owner or I possess the appropr		
<ul> <li>Authorization is h site/soil evaluatio</li> </ul>	ereby given to the permitting authority and designation and inspection of private sewage facilities  a permit of authorization to construct will not be issued.		
by the Comal Co	unty Flood Damage Prevention Order. nsent to the online posting/public release of my e-m	nail address associated with	n this permit application, as applicable.
VIL	Vie Hardi	9/30/2	18
Signature of O	wner	Date	Page 1 of 2 Revised January 2021



# ON-SITE SEWAGE FACILITY APPLICATION

195 DAVID JONAS DR NEW BRAUNFELS, TX 78132 (830) 608-2090 WWW.CCEO.ORG

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E
System Description PROPRIETARY; AEROBIC TREATMENT AND SURFACE IRRIGATION
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons)NU-WATER B-800Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)360  (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)
Is the property located over the Edwards Recharge Zone?  Yes No  (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
Is there an existing TCEQ approved WPAP for the property?  Yes No  (if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)
Is there at least one acre per single family dwelling as per 285.40(c)(1)? Yes No
If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? Yes No (If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)
Is the property located over the Edwards Contributing Zone? Yes No
Is there an existing TCEQ approval CZP for the property?  Yes No  (if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No (if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)
Is this property within an incorporated city? Yes No
If yes, indicate the city:
FIRM #2585
By signing this application, I certify that:  - The information provided above is true and correct to the best of my knowledge.  - I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable
Signature of Designer Date Page 2 of 2

### **AFFIDAVIT**

# THE COUNTY OF COMAL STATE OF TEXAS

### CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities (OSSF's), this document is filed in the Deed Records of Comal County, Texas.

T

The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on Environmental Quality (TCEQ) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility for implementing the laws of the State of Texas relating to water and adopting rules necessary to carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

П

An OSSF requiring a maintenance contract, according to 30 Texas Administrative Code §285.91(12) will be installed on the property described as (insert legal description):

UNIT/PHASE/SECTION3	BLOCK 104 & 105	LOT LAKE OF THE	HILLS ESTATES SUB	DIVISION
IF NOT IN SUBDIVISION:	ACREAGE		SUB	KVBY
The property is owned by	(insert owner's full na	me) <u>:</u> JESSI	E FAYRENE HARDIN	
the initial two-year service	e policy, the owner of a	intenance contract for the sacrobic treatment system act within 30 days or main	for a single family	
	or new owner. A copy of	perty, the permit for the O f the planning materials for e.		
WITNESS BY HAND(S)	ON THIS <u>30</u> DAY O	<u>September</u>	,20_25_	
V. Jessiella	lin	JESSIE FAYRENE HAI	RDIN	
Owner(s) signature(s)		Owner (s) Printed name (s)		
JESSIE FAYRENE H	ARDIN SWORN T	O AND SUBSCRIBED BEI	FORE ME ON THIS 30	DAY OF
September	,20 <u>25</u>			
Du Ja				
Notary Public Sig	nature			
GREG W. JO Notary Public, St Contra. Expires Notary ID 12	ato of Texas 05-17-2028			

# AFFIDAVIT TO THE PUBLIC

STATE OF TEXAS	8			
Before me, the undersigned a who after being by me duly a tract or parcel of land lying a described as follows:	worn, upon oath st	ate that they are the ov	vner of record of that	certain
UNIT/PELASE/SECTION	9 BLOCK 184 &	105 LOT LAKE OF	THE HILLS ESTATES	SUBDIVISION
IF NOT IN SUBDIVISION:	ACREAGE _		······································	SURVEY
The property is owned by (insert e	waer's fuil name):_	JESSIE FA	YRENE HARDIN	
The undersigned further sta boundary between the prop- Any buyer or transferee is	erties. These proper	ties cannot be sold sepa		
WITNESS MY/OUR HAN  ESSIE FAYRENE HARDIN	<b>D(S)</b> on this <u>30</u> 7	day of Septemb	<u>C</u> , 20 <u>25</u> .	_
SWORN TO AND SUBSC	RIBED BEFORE	MIE on this 30 <sup>7 H</sup> day (	or <u>September</u> :	20 <u>25</u> .
Notary Public Signat	ure de la constant de	My Come 8/2	Broussard hission Expires : 24/2029 ID125410506	

# THE COUNTY OF COMAL STATE OF TEXAS

# CERTIFICATION OF SINGLE FAMILY DWELLING

According to Texas Commission of Environmental Quality Rules for On-Site Sowage Facilities, this document is filed in the Deed Records of COMAL COUNTY, TEXAS.

	•	
Before me this day appeared JESSI 1221 GOLF COURSE D	IE FAYRENE HARDIN, being the owners of the DRIVE They further state that the Residence upled only by a single family.	referenced property at e and any additional
living space on this property will be occu	upied only by a single family.	
An OSSF requiring a Certification of Six	ingle Passily Dwelling, will be installed on the property de	secribed as:
UNIT30_BLOCK_16	04 & 195 Lot Lake of the Hills estate	Subdivision
IF NOT IN SUBDIVISION: AC	TRACE	SURVEY
The property is eward by	JESSIE FAYRENE HARDIN	
THE SANTING CHIES AY HAND ON THIS	OF DAY OF Section ber 20 25.	
OWNER GROWNTER		
	OWNER (SIGNATURE) FORE ME ON THIS 30 DAY OF 54 DECIMOR	Γ 26.25 DV
Jessie Fayrene Hardin		
OWNER NAME (PRINTED)	OWNER NAME (PRINTED)	
annett bruso	md	
Notery Public Signeture	'' 'Y	



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
10/06/2025 08:52:43 AM
PRISCILLA 3 Pages(s)
202506032011



### WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority Permit/License Number Customer JESSIE FAYRENE HARDIN Block Creek Aerobic Services, LLC 444 A Old Hwy #9 Site Address 1221 GOLF COURSE DR Comfort, TX 78013 City SPRING BRANCHZip 78070 Off. (830) 995-3189 Mailing Address 1221 Golf Course Dr. SB, TX 78070 County COMAL Phone (210) 797-3286 Fax. (830) 995-4051 Map # CCEO PG 15, F1 Email johnnlori89@yahoo.com

LAKE OF THE HILLS ESTATES, BLK 30, LOT 104 & 105

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between JESSIE FAYRENE HARDIN (hereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC. By this agreement, Block Creek Aerobic Services, LLC and its employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated above, as described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein.

## II. Effective Date:

This Agreement commences on LTO and ends on

for a total of two (2) years (initial agreement) or one (1) year (thereafter). If this is an initial agreement (new installation), the Customer shall notify the Contractor within two (2) business days of the system's first use to establish the date of commencement. If no notification is received by Contractor within ninety (90) days after completion of installation or where county authority mandates, the date of commencement will be the date the "License to operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.

#### III. Termination of Agreement:

This Agreement may be terminated by either party for any reason, including for example, substantial failure of either party to perform in accordance with the terms of this Agreement, without fault or liability of the terminating party. The terminating party must provide written notice to the non-terminating party thirty (30) days prior to the termination of this Agreement. If this Agreement is terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of all outstanding charges, any remaining monies from prepayment for services will be refunded to customer within thirty (30) days of termination of this Agreement. Either party terminating this Agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory agency a minimum of thirty (30) days prior to the date of such termination. Nonpayment of any kind shall be considered breach of contract and a termination of contract.

### IV. Services:

### Contractor will:

- a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electrical circuits, timer. Aeration including compressor and diffusers, CFM/PSI measured, lids safety pans, pump, compressor, sludge levels, and anything else required as per the manufacturer.
- b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the control panel.
- c. Repair or replace, if Contractor has the necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and the service(s) cost less than \$100.00, Customer hereby authorizes Contractor to perform the service(s) and bill Customer for said service(s). When service costs are greater than \$100.00, or if contractor does not have the necessary supplies at the site, Contractor will notify Customer of the required service(s) and the associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with in two (2) business days after said notification.
- d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).
  - e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.
- f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.

V. Disinfection:

all rights reserved Customer's Initials

Contractor's Initials

RC

Not required: X required. The responsibility to maintain the disinfection device(s) and provide any necessary chemicals is that of the Customer.

### VI. Electronic Monitoring:

Electronic Monitoring is not included in this Agreement.

### VII. Performance of Agreement:

Commencement of performance by Contractor under this Agreement is contingent on the following conditions:

- a. If this is an initial Agreement (new installation):
- Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.

If the above conditions are not met, Contractor is not obligated to perform any portion of this Agreement.

### VIII. Customer's Responsibilities:

The customer is responsible for each and all of the following:

- a. Provide all necessary yard or lawn maintenance and removal of all obstacles, including but not limited to dogs and other animals, vehicles, trees, brush, trash, or debris, as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.
  - b. Protect equipment from physical damage including but not limited to that damage caused by insects.
- c. Maintain a current license to operate, and abide by the conditions and limitations of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever requirements are more stringent, as well as the proprietary system's manufacturer recommendations.
- d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of, the OSSF.
- e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.
- f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.
  - g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.
- h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.
- i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at Customer's expense.
  - j. Maintain site drainage to prevent adverse effects on the OSSF.
  - k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

#### IX. Access by Contractor:

Contractor is hereby granted an easement to the OSSF for the purpose of performing services described herein. Contractor may enter the property during Contractor's normal business hours and/or other reasonable hours without prior notice to Customer to perform the Services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components. Tanks and treatment units shall be accessible by means of man ways, or risers and removable covers, for the purpose of evaluation as required by State and/or local rules and the proprietary system manufacturer. It is Customers responsibility to keep lids exposed and accessible at all times.

#### X. Limit of Liability

Contractor shall not be held liable for any incidental, consequential, or special damages, or for economic loss due to expense, or for loss of profits or income, or loss of use to Customer, whether in contract tort or any other theory. In no event shall Contractor be liable in an amount exceeding the total Fee for Services amount paid by Customer under this Agreement.

#### XI. Indemnification:

Customer (whether one or more) shall and does hereby agree to indemnify, hold harmless and defend Contractor and each of its successors, assigns, heirs, legal representatives, devisees, employees, agents and/or counsel (collectively "Indemnitees") from and against any and all liabilities, claims, damages, losses, liens, causes of action, suits, fines, judgments and other expenses (including, but not limited to, attorneys' fees and expenses and costs of investigation), of any kind, nature or description, (hereinafter collectively referred to as "Liabilities") arising out of, caused by, or resulting, in whole or in part, from this Agreement.

Customer's Initials

Customer's Initials

Contractor's Initials

RC

# THIS INDEMNITIFCATION APPLIES EVEN IF SUCH LIABILITIES ARE CAUSED BY THE CONCURRENT OR CONTRIBUTORY NEGLIGENCE OR BY THE STRICT LIABILITY OF ANY INDEMNITEE.

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer shall require its insurer(s) to waive its/their right of subrogation to the extent such action is required to render such waiver of subrogation effective. Customer shall be subrogated to Indemnitees with respect to all rights Indemnitees may have against third parties with respect to matters as to which Customer provides indemnity and/or defense to Indemnitees. No Indemnification is provided to Indemnitees when the liability or loss results from (1) the sole responsibility of such Indemnitee; or, (2) the willful misconduct of such Indemnitee. Upon irrevocable acceptance of this Indemnification obligation, Customer, in its sole discretion, shall select and pay counsel to defend Indemnitees of and from any action that is subject to this Indemnification provision. Indemnitees hereby covenant not to compromise or settle any claim or cause of action for which Customer has provided Indemnification without the consent of Customer.

#### XII. Severability:

If any provision of the "Proposal and Contract" shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of the "Agreement" is invalid or unenforceable, but that by limiting such provision it would become valid and enforceable, then such provision shall be deemed to be written, construed, and enforced as so limited.

#### XIII. Fee for Services:

The Fee for Services does not include any fees for equipment, material, labor necessary for non-warranty repairs, unscheduled inspections, or Customer requested visits to the site.

#### XIV. Payment

Full payment is due upon execution of this Agreement (Required of new Customer). For any other service(s) or repair(s) provided by Contractor the Customer shall pay the invoice(s) for said service(s) or repair(s) within thirty (30) days of the invoice date. The Contractor shall mail all invoices on the date of invoice. All payments not received within thirty (30) days from the invoice date will be subject to a \$29.00 late penalty and a 1.5% per month carrying charge, as well as any reasonable attorney's fees, and all collection and court costs incurred by Contractor in collection of unpaid debt(s). Contractor may terminate contract at any time for nonpayment for services. Any check returned to Contractor for any reason will be assessed a \$30.00 return check fee.

### XV. Application or Transfer of payment:

The fees paid for this agreement may be transferred to subsequent property owner(s); however, this Agreement is not transferable. Customer shall advise the subsequent property owner(s) of the State requirement that they sign a replacement agreement authorizing Contractor to perform the herein described Services, and accepting Customer's Responsibilities. This replacement Agreement must be signed and received in Contractor's offices within ten (10) business days of date of transfer of property ownership. Contractor will apply all funds received from Customer first to any past due obligation arising from this Agreement including late fees or penalties, return check fees, and/or charges for services or repairs not paid within thirty (30) days of invoice date. Any remaining monies shall be applied to the funding of the replacement Agreement. The consumption of funds in this manner may cause a reduction in the termination date of effective coverage per this Agreement. See Section IV.

### XVI. Entire Agreement:

This agreement contains the entire Agreement of the parties, and there are no other conditions in any other agreement, oral or written.

Rudy Carson

Block Creek Aerobic Services, LLC,

Customer Signature

Date

copyright

RC

MP# 0002036

# ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	September 23, 2025	
Site Location:	LAKE of the HILLS ESTATES, BLOCK 30, LOTS 104 & 105	
Proposed Excavation Depth:	N/A	
Locations of soil boring	ions must be performed on the site, at opposite ends of the proposed disposal area.  or dug pits must be shown on the site drawing.  soil evaluations must be performed to a depth of at least two feet below the	

proposed excavation depth. For surface disposal, the surface horizon must be evaluated.

Describe each soil horizon and identify any restrictive features on the form. Indicate depths where features appear.

Class	Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 6"	BROWN
				·	
	III	III CLAY LOAM	III CLAY LOAM N/A	III CLAY LOAM N/A NONE	III CLAY LOAM N/A NONE LIMESTONE

Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
SAME		AS		ABOVE	
	SAIVIE	SAIVIE	SAIVIE	AS	AS

I certify that the finding	s of this report a	re based on m	y field observation	ons and are acc	curate to
the best of my ability.	-		•		

Greg W. Johnson, P.E. 67587-F2585, S.E. 11561

09/23/2025

Date

# OSSF SOIL EVALUATION REPORT INFORMATION

Applicant Information: Site Evaluator Information: Name: JESSIE FAYRENE HARDIN Name: Greg W. Johnson, P.E., R.S, S.E. 11561 **1221 GOLF COURSE DRIVE** Address: Address: 170 Hollow Oak City: SPRING BRANCH State: **TEXAS** City:\_New Braunfels State: Texas 78070 Phone: (210) 797-3286 Zip Code: Zip Code: 78132 Phone & Fax (830)905-2778 Property Location: LAKE of the HILLS **Installer Information:** Lot BELOW Unit \_\_\_\_ Blk 30 Subd. **ESTATES** Name: **1221 GOLF COURSE DRIVE** Street Address: Company: SPRING BRANCH City: Zip Code: Address: \_\_\_\_\_ State:\_\_\_\_ Additional Info.: LOTS 104 & 105 Phone Zip Code: \_\_\_\_\_ **Topography:** Slope within proposed disposal area: Presence of 100 vr. Flood Zone: YES NOXExisting or proposed water well in nearby area. YES NO X Presence of adjacent ponds, streams, water impoundments YES NOXPresence of upper water shed YES NO X Organized sewage service available to lot YES NO X

I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 29, 2016).

GREG W. JOHNSON, P.E. 67587 - S.E. 11561

Date: September 24, 2025

09/24/25 DATH



FIRM #2585

# AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR:
JESSIE FAYRENE HARDIN
1221 GOLF COURSE DRIVE
SPRING BRANCH, TEXAS 78070

# **SITE DESCRIPTION:**

Located in Lake of the Hills, Block 30 Lot 104 & 105, at 1121 Golf Course Drive, the proposed system will serve a four bedroom mobile (1440 sf.) and a one bedroom detached living (312 sf), situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and Live Oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

# **PROPOSED SYSTEM:**

A 3 or 4-inch SCH-40 pipe discharges from the mobile and joins flow from the detached living into a NuWater B-800 800 gpd aerobic plant containing a 431-gallon pretreatment tank, an aerobic treatment plant, and then to a 854-gallon pump chamber containing a (0.5) HP FPS E-Series-20XFE-05P4-2W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 6 minute run time with float setting at 40 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron 1"Arkal disc filter then through a 1" SCH-40 manifold to a 2880 sf. drip tubing field, with Netifim Bioline drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator Model PMR40MF installed in the pump tank on the manifold to the field will maintain pressure at 40 psi. A 1" SCH-40 return line is installed to continuously flush the system to pump tank by throttling a 1.25" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified and rocks removed then built up with six inches of Type II or Type III soil. Drip tubing will be laid and will be capped with 6" of Type II or Type III soil (NOT SAND). The field area will be sodded with grass prior to system startup. Risers are required on tank inspection ports as per 30 TAC 285.38 (9/1/2023). This includes access limitation (<65lbs lid or hardware secured lid), inspection and cleanout ports shall have risers over the port openings which extend to a minimum of two inches above grade. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

# **DESIGN SPECIFICATIONS:**

Daily flow: 4 BR Mobile Res (1440sf) & 1 BR (312sf) detached living @ 360 gpd (Table III)

Pretreatment tank size: 639 Gal

Plant Size: NuWater B-800 800 gpd (TCEQ Approved)

Pump tank size: 854 Gal

Reserve capacity after High Level: 120 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 360 GPD/0.20 = 1800 sf.(Actual 2880 sf) Total linear feet drip tubing: 1440' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 720 emitters @ .61 gph @ 30 psi =7.32 gpm

Pump Requirement (cont.): (0.5 HP FPS E-Series-20XFE-05P4-2W115)

# MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

IN DRIP TUBING W/ NOM. DIA. 0.55" ID

 $MSV = 2 FPS (\Pi d \uparrow 2)/4*7.48 gal/cf*60 sec/min$ 

 $MSV = 2(3.14159((.55/12) \uparrow 2)/4) *7.48*60$ 

MSV = 1.5 gpm PER LINE \* 4 LINES = 6 GPM MIN FLOW RATE

### IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

 $MSV = 2 FPS (\Pi d^{\dagger} 2)/4*7.48 gal/cf*60 sec/min$ 

 $MSV = 2(3.14159((1.049/12) \uparrow 2)/4)*7.48*60$ 

MSV = 5.4 GPM

# **PIPE AND FITTINGS:**

All pipes and fittings in this drip tubing system shall be 1.25" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective September 1, 2023)

Greg W. Johnson, P.E. No. 67587 F#

170 Hollow Oak

New Braunfels, Texas 78132

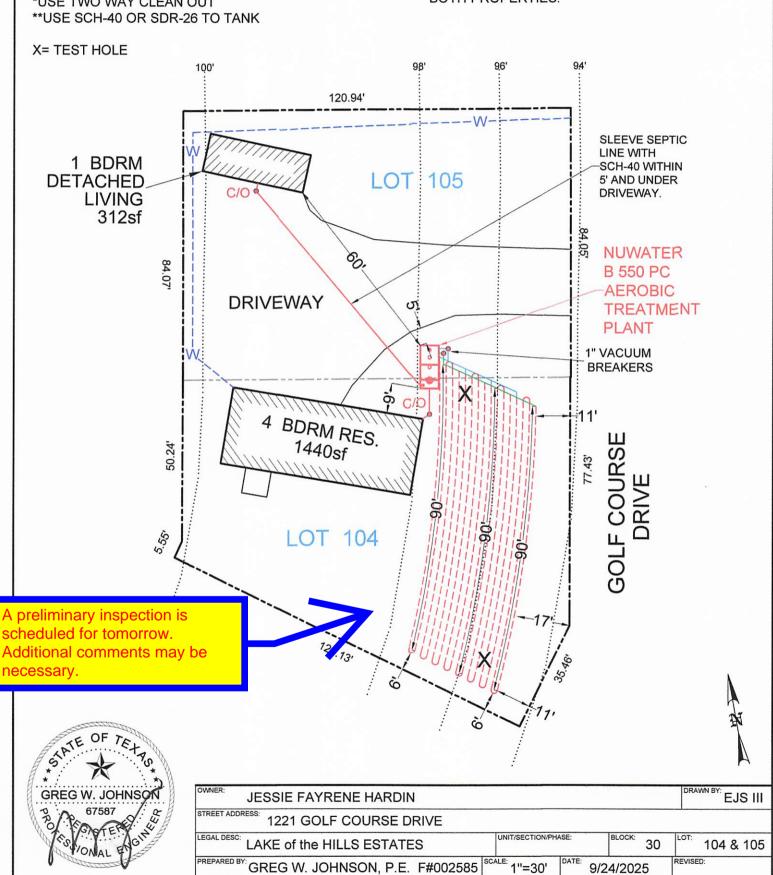
830/905-2778

INSTALL 2880sf OF FIELD USING 1440' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

\*USE TWO WAY CLEAN OUT

NOTE:

NO OSSF SYSTEM CAN BE INSTALLED ON THE SAME PROPERTY AS THE SINGLE FAMILY DWELLING, DUE TO PLACEMENT OF HOUSE AND SIZE OF LOT. JESSIE FAYRENE HARDIN OWNS BOTH PROPERTIES.



# **Assembly Details**

**OSSF** 



#### **DIMENSIONS:**

Outside Height: 67" Outside Width: 75" Outside Length: 164.5"

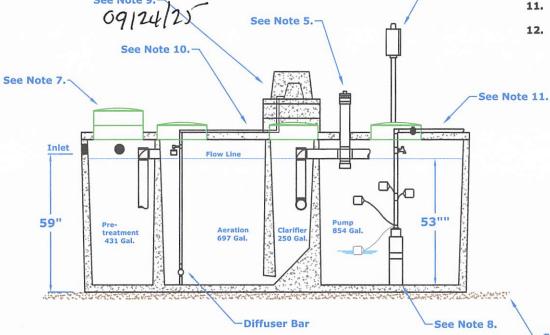
### **MINIMUM EXCAVATION DIMENSIONS:**

Width: 87" Length: 177"

\_See Note 9.

#### **GENERAL NOTES:**

- 1. Plant structure material to be precast concrete and steel.
- 2. Maximum burial depth is 30" from slab top to grade.
- 3. Weight = 16,700 lbs.
- Treatment capacity is 800 GPD. Pump compartment set-up for a 420 GPD Flow Rate (5 beedroom, < 4,501 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 2.60 lbs. per day.
- Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- Bio-Robix B-800 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer available for drip applications. Electrical Requirement to be 115 Volts, 60 Hz, Single Phase, 30 AMP, Grounded Receptacle.
- 20" Ø acess riser w/ lid (Typical 4). Optional extension risers available.
- 8. 20 GPM 1/2 HP, high head effluent pump.
- 9. HIBLOW Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 1" Sch. 40 PVC pipe to distribution system provided by contractor.
- 12. 4" min. compacted sand or gravel pad by Contractor



-See Note 12.

# NuWater B-800 Aerobic Treatment Plant (Assembled)

Model: B-800

March, 2010 By: A.S.

Scale:

 All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B800-2



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051

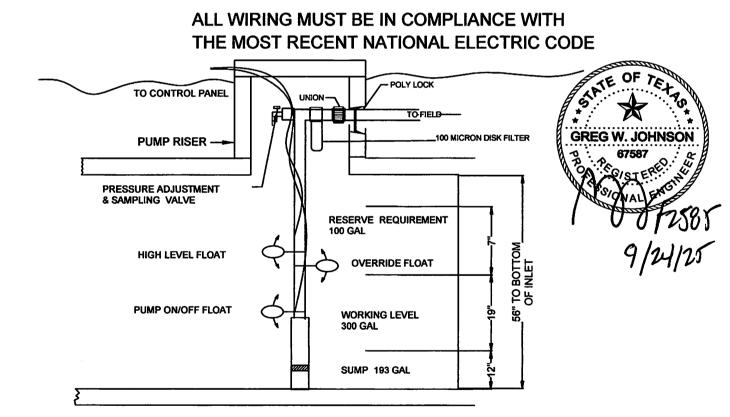
# TANK NOTES:

Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

A two way sanitary tee is required between residence and tank.

A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks



TYPICAL PUMP TANK CONFIGURATION NU-WATER B-800 PUMP TANK

# **Arkal 1" Super Filter**

# Catalog No. 1102 0\_\_\_

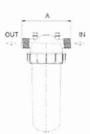
### **Features**

- · A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- Manufactured entirely from fiber reinforced plastic.
- · A cylindrical column of grooved discs constitutes the filter element.
- · Spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs are available in various filtration grades.



### **Technical Data**

	1" BSPT (male)	1" NPT (male)
Inlet/outlet diameter	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m <sup>3</sup> /h (1.7 l/sec)	35 gpm
General filtration area	500 cm <sup>2</sup>	77.5 in <sup>2</sup>
Filtration volume	600 cm <sup>3</sup>	37 in <sup>3</sup>
Filter length L	340 mm	13 13/32"
Filter width W	130 mm	5 3/32"
Distance between end connections A	158 mm	6 7/32"
Weight	1.420 kg	3.13 lbs.
Maximum temperature	70° C	158 °F
рН	5-11	5-11





## Filtration Grades

Blue (400 micron / 40 mesh)

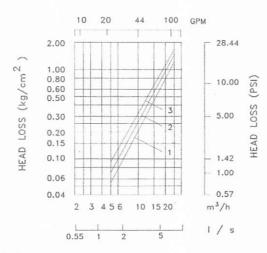
Yellow (200 micron / 80 mesh)

Red (130 micron / 120 mesh)

Black (100 micron /140 mesh)

Green (55 micron)

## **Head Loss Chart**





# PMR-MF

# PRESSURE-MASTER REGULATOR - MEDIUM FLOW

### **Specifications**

The pressure regulator shall be capable of operating at a constant, factory preset, non-adjustable outlet pressure of 6, 10, 12, 15, 20, 25, 30, 35, 40, 50, or 60 PSI (0.41, 0.69, 0.83, 1.03, 1.38, 1.72, 2.07, 2.41, 2.76, 3.45, or 4.14 bar) with a flow range between:

4 - 16 GPM (909 - 3634 L/hr) for 6 - 10 PSI models or

2 - 20 GPM (454 - 4542 L/hr) for 12 - 60 PSI models.

The pressure regulator shall maintain the nominal pressure at a minimum of 5 PSI (0.34 bar) above model inlet pressure and a maximum of 80 PSI (5.52 bar) above nominal model pressure\*. Refer to the PRU performance curve to establish specific outlet pressures based on relative inlet pressure and flow rate. Always install downstream from all shut off valves. Recommended for outdoor use only. Not NSF certified.

All pressure regulator models shall be equipped with one of these inlet-x-outlet configurations:

#### Inlet Outlet

3/4-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

1-inch Female British Standard Pipe Thread (FBSPT) 1-inch Female British Standard Pipe Thread (FBSPT)

3/4-inch Female National Pipe Thread (FNPT) 1-inch Female National Pipe Thread (FNPT)

The upper housing, lower housing, and internal molded parts shall be of engineering-grade thermoplastics with internal elastomeric seals and a reinforced elastomeric diaphragm. Regulation shall be accomplished by a fixed stainless steel compression spring, which shall be enclosed in a chamber isolated from the normal water passage.

Outlet pressure and flow shall be clearly marked on each regulator.

The pressure regulator shall carry a two-year manufacturer's warranty on materials, workmanship, and performance. Each pressure regulator shall be water tested for accuracy before departing the manufacturing facility.

The pressure regulator shall be manufactured by Senninger Irrigation in Clermont, Florida. Senninger is a Hunter Industries Company.

### **Physical**

### 3/4" FNPT x 3/4" FNPT model (shown on right)

Overall Length

5.2 inches (13.1 cm)

Overall Width

2.5 inches (6.4 cm)

### 1" FNPT x 1" FNPT model

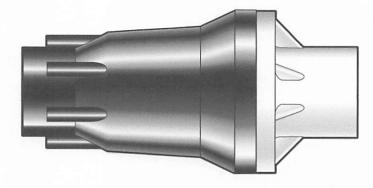
## 1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



Please consult factory for applications outside of recommended guidelines.



# **PMR-MF**

# PRESSURE-MASTER REGULATOR - MEDIUM FLOW

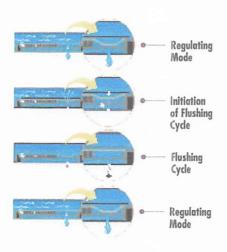
# **Model Numbers**

Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR-6 MF	4 - 16 GPM	6 PSI	80 psi
	(909 - 3634 L/hr)	(0.41 bar)	(5.51 bar)
PMR-10 MF	4 - 16 GPM	10 PSI	90 psi
	(909 - 3634 L/hr)	(0.69 bar)	(6.20 bar)
PMR-12 MF	2 - 20 GPM	12 PSI	90 psi
	(454 - 4542 L/hr)	(0.83 bar)	(6.20 bar)
PMR-15 MF	2 - 20 GPM	15 PSI	95 psi
	(454 - 4542 L/hr)	(1.03 bar)	(6.55 bar)
PMR-20 MF	2 - 20 GPM	20 PSI	100 psi
	(454 - 4542 L/hr)	(1.38 bar)	(6.89 bar)
PMR-25 MF	2 - 20 GPM	25 PSI	105 psi
	(454 - 4542 L/hr)	(1.72 bar)	(7.24 bar)
PMR-30 MF	2 - 20 GPM	30 PSI	110 psi
	(454 - 4542 L/hr)	(2.07 bar)	(7.58 bar)
PMR-35 MF	2 - 20 GPM	35 PSI	115 psi
	(454 - 4542 L/hr)	(2.41 bar)	(7.93 bar)
PMR-40 MF	2 - 20 GPM	40 PSI	120 psi
	(454 - 4542 L/hr)	(2.76 bar)	(8.27 bar)
PMR-50 MF	2 - 20 GPM	50 PSI	130 psi
Ľ	(454 - 4542 L/hr)	(3.45 bar)	(8.96 bar)
PMR-60 MF	2 - 20 GPM	60 PSI	140 psi
	(454 - 4542 L/hr)	(4.14 bar)	(9.65 bar)



# Bioline® Dripperline

## Pressure Compensating Dripperline for Wastewater



BioLine's Self-Cleaning, Pressure Compensating Dripper is a fully selfcontained unit molded to the interior wall of the dripper tubing.

As shown at left, BioLine is continuously self-cleaning during operation, not just at the beginning and end of a cycle. The result is dependable, clog free operation, year after year.



## **Product Advantages**

### The Proven Performer

- · Tens of millions of feet used in wastewater today.
- · Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- · Preferred choice of major wastewater designers and regulators.
- Proven track record of success for many years of hard use in wastewater applications.

### Quality Manufacturing with Specifications Designed to Meet Your Needs

- Pressure compensating drippers assure the highest application uniformity even on sloped or rolling terrain.
- Excellent uniformity with runs of 400 feet or more reducing installation costs.
- Highest quality-control standards in the industry: Cv of 0.25 (coefficient of manufacturer's variation).
- · A selection of flows and spacings to satisfy the designer's demand for almost any application rate.

### Long-Term Reliability

- · Protection against plugging:
  - Dripper inlet raised 0.27" above wall of tubing to prevent sediment from entering dripper.
  - Drippers impregnated with Vinyzene to prevent buildup of microbial slime.
  - Unique self-flushing mechanism passes small particles before they can build up.

## Cross Section of Bioline Dripperline



ECHFILTER

#### Root Safe

- A physical barrier on each BioLine dripper helps prevent root intrusion.
- Protection never wears out never depletes releases nothing to the environment.
- Working reliably for up to 15 years in subsurface wastewater installations.
- Additional security of chemical root inhibition with Techfilter supplies
   Trifluralin to the entire system, effectively inhibiting root growth to the dripper outlets.



## **Applications**

- · For domestic strength wastewater disposal.
- Installed following a treatment process.
- Can be successfully used on straight septic effluent with proper design, filtration and operation.
- Suitable for reuse applications using municipally treated effluent designated for irrigation water.

### Specifications

Wall thickness (mil): 45\*

Nominal flow rates (GPH): .4, .6, .9\*

Common spacings: 12", 18", 24"\*

Recommended filtration: 120 mesh

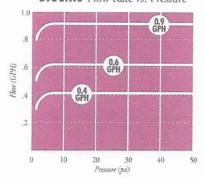
Inside diameter: .570\*

Color: Purple tubing indicates non-potable

source

\*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

## **BIOLINE** Flow Rate vs. Pressure





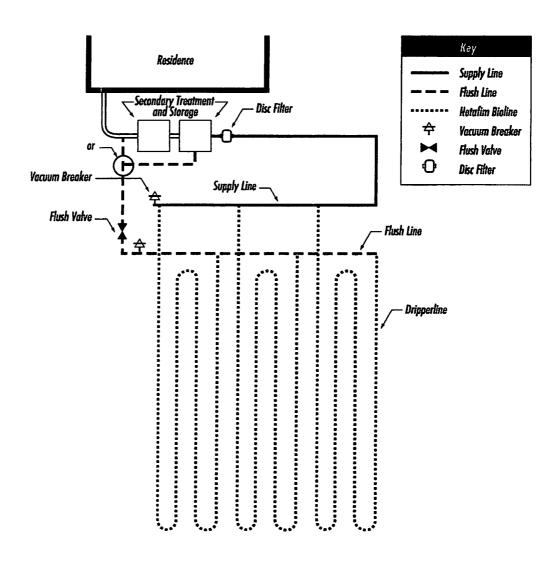
**NETAFIM USA** 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

# **SAMPLE DESIGNS**

### SINGLE TRENCH LAYOUT

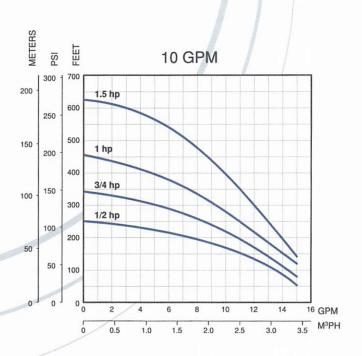
Rectangular field with supply and flush manifold on same side and in same trench;

- · Locate supply and flush manifold in same trench
- · Dripperlines are looped at the end opposite the supply and flush manifolds
- The longest Bioline length should not exceed 400 ft. Drip fields 200 ft. in length might loop the Bioline once; drip dispersal fields under 100 ft. might be looped twice, as illustrated

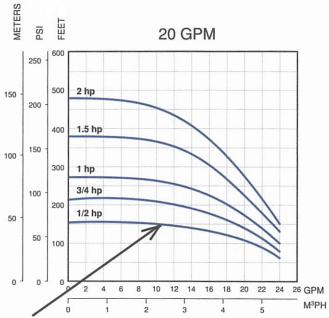


# Environmental Series Pumps





# **Thermoplastic Performance**



# **Thermoplastic Units Ordering Information**

1/2 - 1.5 HP Single-Phase Units								
Order No.	Model	GPM	HP	Volt	Wire	Wt.		
94741005	10FE05P4-2W115	10	1/2	115	2	24		
94741010	10FE05P4-2W230	10	1/2	230	2	24		
94741015	10FE07P4-2W230	10	3/4	230	2	28		
94741020	10FE1P4-2W230	10	1	230	2	31		
94741025	10FE15P4-2W230	10	1.5	230	2	46		
94742005	20FE05P4-2W115	20	1/2	115	2	25		
94742010	20FE05P4-2W230	20	1/2	230	2	25		
94742015	20FE07P4-2W230	20	3/4	230	2	28		
94742020	20FE1P4-2W230	20	1	230	2	31		
94742025	20FE15P4-2W230	20	1.5	230	2	40		

Thermoplastic 1/2 - 2 HP Pump Ends								
Order No.	Model	GPM	HP	Volt	Wire	Wt		
94751005	10FE05P4-PE	10	1/2	N/A	N/A	6		
94751010	10FE07P4-PE	10	3/4	N/A	N/A	7		
94751015	10FE1P4-PE	10	1	N/A	N/A	8		
94751020	10FE15P4-PE	10	1.5	N/A	N/A	12		
94752005	20FE05P4-PE	20	1/2	N/A	N/A	6		
94752010	20FE07P4-PE	20	3/4	N/A	N/A	7		
94752015	20FE1P4-PE	20	1	N/A	N/A	8		
94752020	20FE15P4-PE	20	1.5	N/A	N/A	10		
94752025	20FE2P4-PE	20	2	N/A	N/A	11		

## ATC 4000082402266-KB

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

# **WARRANTY DEED**

Date:

October 15, 2024

Grantor:

Tiny House Nation LLC

**Grantor's Mailing Address:** 

2811 Rusty Dr., Austin, TX 78702

Grantee:

Jessie Fayrene Hardin

Grantee's Mailing Address:

1221 Golf Course Dr., Spring Branch, TX 78070

Consideration: TEN AND NO/100 DOLLARS and other good and valuable consideration.

Property (including any improvements):

Lot 105, Block 30, LAKE OF THE HILLS ESTATES, Comal County, Texas, according to map or plat recorded in Volume 5, Page 340, Map and Plat Records, Comal County, Texas.

Reservations From and Exceptions to Conveyance and Warranty: This conveyance, however, is made and accepted subject to the following matters, to the extent same are in effect at this time: any and all restrictions, covenants, assessments, reservations, outstanding mineral interests held by third parties, conditions, and easements, if any, relating to the hereinabove described property, but only to the extent they are still in effect and shown of record in the hereinabove mentioned County and State or to the extent that they are apparent upon reasonable inspection of the property; and to all zoning laws, regulations and ordinances of municipal and/or other governmental authorities, if any, but only to the extent they are still in effect and relating to the hereinabove described property. Ad valorem taxes on said property for the current year, having been prorated, the payment thereof is assumed by Grantee.

Grantor, for the consideration, receipt of which is acknowledged, and subject to the reservations from and exceptions to conveyance and warranty, grants, sells and conveys to Grantee the property, together with all and singular the rights and appurtenances thereto in any wise belonging, to have and hold it to Grantee, Grantee's heirs, executors, administrators, successors or assigns forever. Grantor binds Grantor and Grantor's heirs, executors, administrators and successors to warrant and forever defend all and singular the property to Grantee and Grantee's heirs, executors, administrators, successors and assigns against every person whomsoever lawfully

claiming or to claim the same or any part thereof, except as to the reservations from and exceptions to conveyance and warranty.

When the context requires, singular nouns and pronouns include the plural.

Tiny House Nation LLC

By:

Joshua Salinas, Member

**ACKNOWLEDGMENT** 

STATE OF TEXAS

COUNTY OF THAIR

This instrument was acknowledged before me on this the 15<sup>th</sup> day of October, 2024, by Joshua Salinas, Member, of Tiny House Nation LLC, on its behalf.

FRANCES R HUBBARD
Notary ID # 132387861
My Commission Expires
March 04, 2028

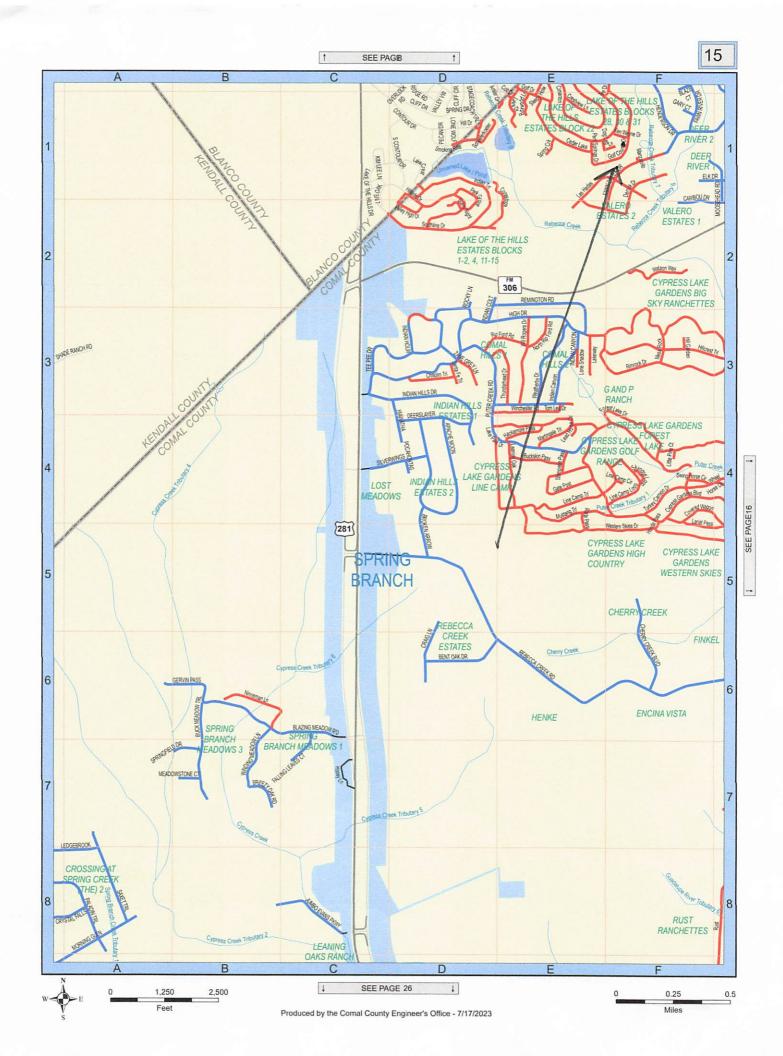
PREPARED IN THE OFFICE OF: Law Office of Kenneth R. Cooper 14607 San Pedro, Suite 130 San Antonio, TX 78232 Notary Public, State of Texas

Frances KUMI

AFTER RECORDING RETURN TO: Jessie Fayrene Hardin 1221 Golf Course Dr. Spring Branch, TX 78070

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
10/15/2024 04:23:42 PM
TRACY 2 Pages(s)
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# OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

119091

			119091
	Date Received	Initials	Permit Number
nstructions:	s that do not apply place	· "N/A" Thic	OSSE Davolanment Application
Place a check mark next to all items that apply. For items Checklist <u>must</u> accompany the completed application.	s triat do not apply, place	e N/A . IIIIS	OSSF Development Application
DSSF Permit			
Completed Application for Permit for Authorization to	o Construct an On-Site	Sewage Fac	ility and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	valuator or a Profession	al Engineer	
Planning Materials of the OSSF as Required by the of a scaled design and all system specifications.	TCEQ Rules for OSSF	Chapter 285	. Planning Materials shall consist
Required Permit Fee - See Attached Fee Schedule			
Copy of Recorded Deed			
Surface Application/Aerobic Treatment System			
Recorded Certification of OSSF Requiring Ma	nintenance/Affidavit to th	e Public	
Signed Maintenance Contract with Effective D	Pate as Issuance of Lice	nse to Opera	ate
affirm that I have provided all information required for constitutes a completed OSSF Development Applications.		nent Applica	tion and that this application
180	10	0/09/20	025
Signature of Applicant	· · · · · · · · · · · · · · · · · · ·		Date
COMPLETE APPLICATION			ETE APPLICATION
Check No Receipt No	(Mis	sing Items Ci	rcled, Application Refeused)
	<u> </u>	Q	Revised: September 2019