

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

Revised: September 2019

	Date Received	Initials	Permit Number
Instructions:			
Place a check mark next to all items that apply. For items Checklist <u>must</u> accompany the completed application.	s that do not apply, plac	e "N/A". This	OSSF Development Application
OSSF Permit			
Completed Application for Permit for Authorization t	to Construct an On-Site	Sewage Faci	ility and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	Evaluator or a Profession	nal 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	aintenance/Affidavit to the	he Public	
Signed Maintenance Contract with Effective D	Date as Issuance of Lice	ense to Opera	te
I affirm that I have provided all information required to constitutes a completed OSSF Development Applications and the constitutes are completed of the constitutes are completed of the constitutes are completed of the constitutes are constituted as a complete of the constitute of		ment Applica	tion and that this application
180	11	1/13/20	025
Signature of Applicant			Date
COMPLETE APPLICATION Check No Receipt No	(Mis		ETE APPLICATION rcled, Application Refeused)



ON-SITE SEWAGE FACILITY APPLICATION

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

WWW CCEO ORG

Date Octo	ber 14, 2025	Permit Number				
1. APPLICANT / A	GENT INFORMATION					
Owner Name DAISY A. MARRERO		Agent Name	GREG JOHNSON, P.E.			
Mailing Address	9859 RAVENFIELD DRIVE	Agent Address				
City, State, Zip	SAN ANTONIO TEXAS 78245	City, State, Zip	NEW	BRAUNFELS	TEXAS 78132	
Phone #	210-702-1648	Phone #		830-805-	2778	
Email	rcghomebuilders@yahoo.com	Email	gre	egjohnsonpe@	yahoo.com	
2. LOCATION						
Subdivision Name	CYPRESS COVE	Ur	nit SEC 9	Lot 686	Block	
	stract Number					
Address	141 8 CEDAR GROVE TRAIL	City SPRING E	BRANCH	State_TX	Zip 78070	
3. TYPE OF DEVE						
Single Family	Residential					
Type of Cons	struction (House, Mobile, RV, Etc.)	HOUSE				
Number of B						
Indicate Sq F	Ft of Living Area1636					
Non-Single Fa	amily Residential					
(Planning mate	erials must show adequate land area for doublin	g the required land need	ed for treatme	ent units and d	lisposal area)	
	ity					
	ories, Churches, Schools, Parks, Etc Indi		pants			
Restaurants,	Lounges, Theaters - Indicate Number of S	eats				
Hotel, Motel,	Hospital, Nursing Home - Indicate Number	of Beds				
Travel Trailer	r/RV Parks - Indicate Number of Spaces	-	-			
Miscellaneou	is					
Estimated Cost o	of Construction: \$320,000	(Structure Only)				
Is any portion of	the proposed OSSF located in the United S	States Army Corps of E	Engineers (L	JSACE) flows	age easement?	
Yes No	(If yes, owner must provide approval from USACE	or proposed OSSF improve	ements within t	the USACE flow	age easement)	
		er Collection			and the state of t	
4. SIGNATURE OF	OWNER					
facts. I certify that I property. - Authorization is here site/soil evaluation a I understand that a p	ation, I certify that: ication and all additional information submitted of am the property owner or I possess the appropriately given to the permitting authority and designated inspection of private sewage facilities permit of authorization to construct will not be issued to provide the property of the provided in	iate land rights necessar ated agents to enter upor	y to make the	e permitted implescribed prope	provements on said erty for the purpose of	
	nt to the online posting/public release of my e-m	ail address associated w	ith this permi	it application	as applicable	



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 DRIP TUBING
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons)NUWATER B-550-PCAbsorption/Application Area (Sq Ft)1884
Gallons Per Day (As Per TCEQ Table III) 240 (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: GREG W. JOHNSON FOR THE CONTROL OF TH
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
November 4, 2025
Signature of Designer Date Page 2 of 2

Babbie Koepp

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.

Ŧ

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/SECTION CYPRESS COVE SUBDIVISION BLOCK 686 LOT IF NOT IN SUBDIVISION: ACREAGE SURVEY DAISY A. MARRERO The property is owned by (insert ewner's full name): This OSSF must be covered by a continuous maintenance contract for the first two years, After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally. Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Engineer's Office. WITNESS BY HAND(S) ON THIS 4 Mas DAISY A. MARRERO Owner (s) Printed name (s) AISY A. MARRERO SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 4 20 25 Filed and Recorded **Official Public Records** Bobbie Koepp, County Clerk olic Signature **Comal County, Texas** 11/10/2025 08:11:16 AM **GREG W. JOHNSON** Notary Public, State of Texas TERRI 1 Pages(s) Comm. Expires 05-17-2026 202506035904 Notary ID 124218310

WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority COMAL Permit/License Number Customer DAISY A. MARRERO
Site Address 1418 CEDAR GROVE TRAIL Block Creek Aerobic Services, LLC 444 A Old Hwy #9 Comfort, TX 78013 City SPRING BRANCHZip 78070 Mailing Address 9859 Ravenfield Dr. S.A. TX 78245
County COMAL COUNT Map # CCEO PG 16, F3 Off. (830) 995-3189 Fax. (830) 995-4051 Phone 210-702-1648 CYPRESS COVE, SECTION 9, LOT 686 Email rcghomebuilders@yahco.cor

I. General: This Work DAISY A. MARRERO General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between (hereinafter referred to as "Customer") and Block Creek Aerobic Services. LLC. By this agreement, Block Creek Acrobic 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.
- of the ts for

	onse to Customer's request for unscheduled servids and holidays excluded) of said request. Unless will be billed to Customer.	
V. Disinfection:		
0W_		RC
-	C COCKANICAL	
Customer's Initials	all rights received	Contractor's initials

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):

I. 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.



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 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 powritten.

Rudy Carson

Block Creek Aerobic Services, LLC,

Contractor MP# 0002036 Customor Cionoturo

Date

RC

copyright all rights reserved

ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	October 14, 2025	
Site Location:	CYPRESS COVE, SECTION 9, LOT 686	
Proposed Excavation Depth:	N/A	
Locations of soil boring	ons must be performed on the site, at opposite ends of the proposed disposal area. r dug pits must be shown on the site drawing. oil 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.

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 2"	Ш	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 2"	BROWN
2						
3						
4						
5						

SOIL BORING	NUMBER SUR	FACE EVALUAT	ION			
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME		AS		ABOVE	
2			:			
3 4						
5						

I certify that the findings of this	report are based on n	ny field observations and	are accurate to
the best of my ability.			

Greg W Johnson # E 67587-F2585 S.E. 11561

Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: October 15, 2025 **Applicant Information: Site Evaluator Information:** Name: DAISY A. MARRERO Name: Greg W. Johnson, P.E., R.S, S.E. 11561 c/o 9859 RAVENFIELD DRIVE Address: Address: 170 Hollow Oak **SAN ANTONIO TEXAS** City: State: City: New Braunfels State: Texas Phone: (210) 702-1648 78245 Zip Code: 78132 Phone & Fax (830)905-2778 Zip Code: **Property Location: Installer Information: CYPRESS COVE** Lot 686 Unit 9 Blk Subd. Name: Street Address: 1418 CEDAR GROVE TRAIL Company: SPRING BRANCH Zip Code: Address:____ City:_____ State:____ Additional Info.: Phone _____ Zip Code: **Topography:** Slope within proposed disposal area: Presence of 100 yr. Flood Zone: YES NO X Existing or proposed water well in nearby area. YES NO X Presence of adjacent ponds, streams, water impoundments YES NO X Presence 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

10/15/25

GREG W. JOHNSON

ROPEGISTER

OF 764

76

GREG W. JOHNSON

ROPEGISTER

OF 764

FIRM #2585

AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: DAISY A. MARRENRO 9859 RAVENFIELD DRIVE SAN ANTONIO, TX 78245

SITE DESCRIPTION:

Located in Cypress Cove, Section 9, Lot 686, at 1418 Cedar Grove Trail, the proposed system will serve a three bedroom residence (1636sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and 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-inch SCH-40 pipe discharges from the residence into a NuWater B-550 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768gallon pump chamber containing a submersible (FPS E-Series 20FE05P42W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 1884 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 PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to continuously flush the system to the pump tank by throttling a 1" ball valve to the pump tank. Solids caught in the disc filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with 10" of Type II or Type III soil, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" required between rock and drip lines. 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 waste flow: 240 GPD Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B550 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

Reserve capacity after High Level: 80 Gal (1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 1884 sf.) Total linear feet drip tubing: 942' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 471 emitters @ .61 gph @ 30 psi = 4.79 gpm

Pump Requirement (cont.): FPS E-Series 20FE05P42W115 submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

MSV = 2(3.14159((.55/12)†2)/4)*7.48*60

MSV = 1.5 gpm PER LINE * 3 LINES = 4.5 GPM MIN FLOW RATE

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

MSV = 5.4 GPM

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1" 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.

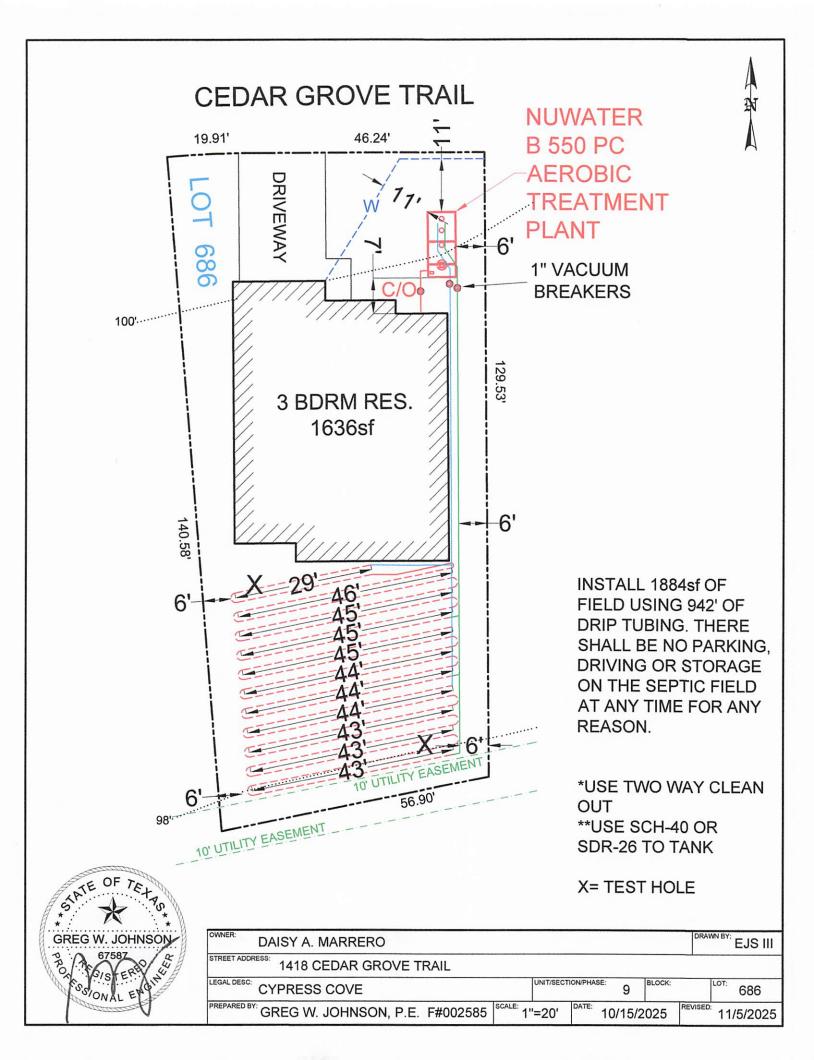
No. 67587 / F-2585

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778





Assembly Details

OSSF



See Note 59" Inlet See Note 9. treatmer 353 Gal. See Note 10. Flow Line Aeration 560 Gal. Diffuser Bar See Note 5. Clarifier 190 Gal α 768 Gal 53 See Note 8. See Note 9. See Note 11. 9.

GENERAL NOTES:

- Plant structure material to be precast concrete and steel. Maximum burial depth is 30" from slab top to grade.
- Weight = 14,900 lbs.
- BOD Loading = 1.62 lbs. per day. aera). Please specify for additional set-up requirements. for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living Treatment capacity is 600 GPD. Pump compartment set-up
- Standard tablet chlorinator or Optional Liquid chlorinator.
- 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 NSF approved chlorinators (tablet & liquid) available. Blo-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer
- 20 GPM 1/2 HP, high head effluent pump. risers available.
- HIBLOW Air Compressor w/ concrete housing. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 1" Sch. 40 PVC pipe to distribution system provided by
- 4" min. compacted sand or gravel pad by Contractor

contractor.

DIMENSIONS:

Outside Width: 63"
Outside Length: 164" Outside Height: 67"

MINIMUM EXCAVATION DIMENSIONS: Length: 176" Width: 76"

NuWater B-550 (600 GPD) Aerobic Treatment Plant (Assembled)

Model: B-550-PC-400PT

Dwg. #: ADV-B550-3

Wastewater Solutions IIc Advantage

Scale:

March, 2012 - Rev 1 By: A.S.

See Note 12.

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

TANK NOTES:

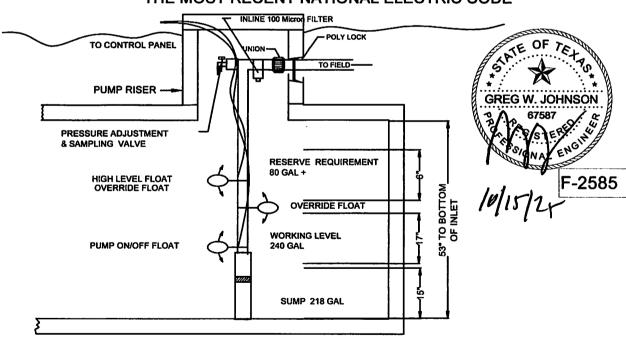
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

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

ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE



TYPICAL PUMP TANK CONFIGURATION NU-WATER 550PC -400PT 768 GAL PUMP TANK

Arkal 1" Super Filter

Catalog No. 1102 0____

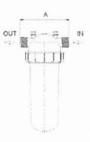
Features

- · 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 ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
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
pH	5-11	5-11





Filtration Grades

(400 micron / 40 mesh) Blue

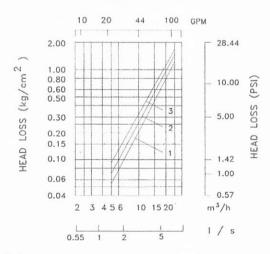
Yellow (200 micron / 80 mesh)

Red (130 micron / 120 mesh) (100 micron /140 mesh)

(55 micron) Green

Black

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)

5.2 inches (13.1 cm) Overall Length

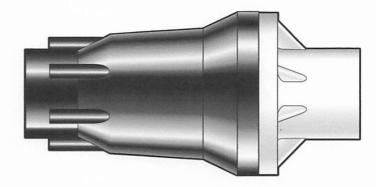
Overall Width 2.5 inches (6.4 cm)

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

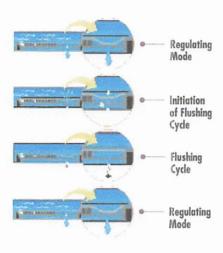
PRESSURE-MASTER REGULATOR - MEDIUM FLOW

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
	(454 - 4542 L/hr)	(3.45 bar)	(8.96 bar)
PMR-60 MF	2 - 20 GPM	60 PSI	140 psi
İ	(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



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"*

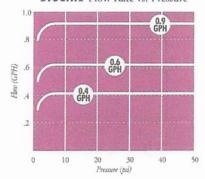
Recommended filtration: 120 mesh

Inside diameter: .570*

Color: Purple tubing indicates non-potable

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

BIOLINE Flow Rate vs. Pressure





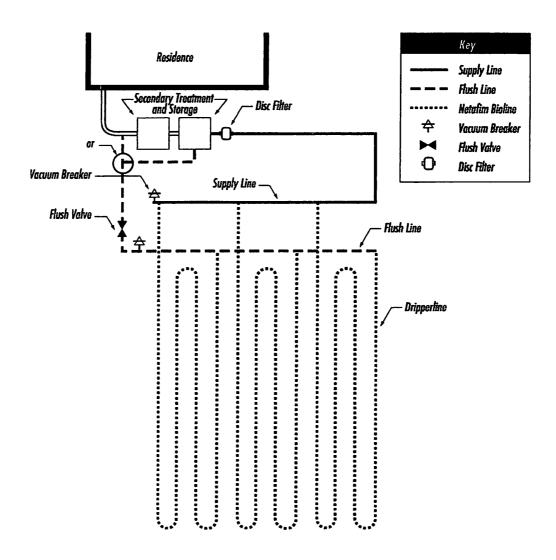
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

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



Presidio Title GF# 1-250519 BC; \$29

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.

GENERAL WARRANTY DEED

Date:

September 22, 2025

Grantor:

GARY GIBSON

Grantee:

DAISY A. MARRERO

Grantee's Mailing Address, Grantee's Mailing Address, and after Recording, Return to: 9859 Kaven Field & San Jahren?

Cash and other good and valuable consideration, the receipt and sufficiency

of which are hereby acknowledged.

Property (including any improvements):

Lot 686, CYPRESS COVE, SECTION NINE, in the County of Comal, Texas, according to map or plat thereof thereof recorded in Volume 2, Page 66. Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None

Exceptions to Conveyance and Warranty: Validly existing easements, rights-of-way, and prescriptive rights, whether of record or not; all presently recorded and validly existing instruments, other than conveyances of the surface fee estate, that affect the Property; and taxes for 2025, which Grantee assumes and agrees to pay, but not subsequent assessments for that and prior years due to change in land usage, ownership, or both, the payment of which Grantor assumes.

Grantor, for the Consideration and subject to the Reservations from Conveyance and the 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 way belonging, to have and to hold it to Grantee and Grantee's heirs, successors, and assigns forever. Grantor binds Grantor and Grantor's heirs and successors to warrant and forever defend all and singular the Property to Grantee and Grantee's heirs, successors, and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, except as to the Reservations from Conveyance and the Exceptions to Conveyance and Warranty.

The Contract between Grantor as the Seller and Grantee as the Buyer, if any, may contain limitations as to warranty or other agreed matters; to the extent that such Contract provides for

limitations or other agreed matters that will survive the closing and this conveyance, then such limitations or other agreed matters are hereby deemed incorporated by reference. The warranty of title contained in this Deed is hereby expressly excluded from the limitations or other agreed matters referenced in this paragraph.

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

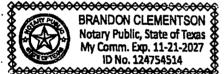
STATE OF TEXAS

COUNTY OF BEXAR

This instrument was acknowledged before me on September 22, 2025 by GARY GIBSON.

)

)



Notary Public, State of Texas

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk **Comal County, Texas** 09/23/2025 08:10:31 AM TERRI 2 Pages(s) 202506030662



