### **Comal County Environmental Health OSSF Inspection Sheet**

staller Name:	OSSF Installer #:	
1st Inspection Date:	2nd Inspection Date:	3rd Inspection Date:
Inspector Name:	Inspector Name:	Inspector Name:

Perm	it#:		Address:				
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
1	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Site and Soil Conditions Consistent with Submitted Planning Materials		285.31(a) 285.30(b)(1)(A)(iv) 285.30(b)(1)(A)(v) 285.30(b)(1)(A)(iii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				
2	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards		285.91(10) 285.30(b)(4) 285.31(d)				
3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)				
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot		285.32(a)(3)				
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
6	PRETREATMENT Installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(G) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(iv) 285.32(b)(1)(F) 285.32(b)(1)(G)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(A) 285.32(b)(1)(E) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

**Inspector Notes:** 

## Comal County Environmental Health OSSF Inspection Sheet

	B	A	C't at a		4	2-11	211.
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and " T " Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum Requirements		285.32(b)(1) (E)285.91(2)285.32(b)(1) (F)285.32(b)(1)(E) (iii)285.32(b)(1)(E)(iii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume Installed						
	PUMP TANK Volume Installed						
13	AEROBIC TREATMENT UNIT Size Installed						
14	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)				
18							

## Comal County Environmental Health OSSF Inspection Sheet

	B		<b>6</b> 11.11		4.11	2.11	0.11
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
32	EFFLUENT DISPOSAL SYSTEM Utilized Only by Single Family Dwelling EFFLUENT DISPOSAL SYSTEM Topographic Slopes < 2.0% EFFLUENT DISPOSAL SYSTEM Adequate Length of Drain Field ( 1000 Linear ft. for 2 bedrooms or Less & an additional 400 ft. for each additional bedroom) EFFLUENT DISPOSAL SYSTEM Lateral Depth of 18 inches to 3 ft. & Vertical Separation of 1ft on bottom and 2 ft. to restrictive horizon and ground water respectfully EFFLUENT DISPOSAL SYSTEM Lateral Drain Pipe (1.25 - 1.5" dia.) & Pipe Holes ( 3/16 - 1/4" dia. Hole Size ) 5 ft. Apart		285.33(b)(3)(A) 285.33(b)(3)(A) 285.33(b)(3) (B)285.91(13) 285.33(b)(3)(D) 285.33(b)(3)(F)				
	AEROBIC TREATMENT UNIT IS Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)				
	AEROBIC TREATMENT UNIT Inspection/Clean Out Port & Risers Provided AEROBIC TREATMENT UNIT Secondary restraint system provided AEROBIC TREATMENT UNIT Riser permanently fastened to lid or cast into tank AEROBIC TREATMENT UNIT Riser cap protected against unauthorized intrusions						
	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.						
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
38	PUMP TANK Secondary restraint system provided						
	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried						

## Comal County Environmental Health OSSF Inspection Sheet

	<u> </u>								
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.		
	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II) 285.33(d)(2)(G)(iii)(III) 285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iii)(I)						
	APPLICATION AREA Low Angle Nozzles Used / Pressure is as required APPLICATION AREA Acceptable Area, nothing within 10 ft of sprinkler heads? APPLICATION AREA The Landscape Plan is as Designed		285.33(d)(2)(G) (i)285.33(d)(2) (A)285.33(d)(2)(F)						
	APPLICATION AREA Area Installed								
	PUMP TANK Meets Minimum Reserve Capacity Requirements								
	PUMP TANK Material Type & Manufacturer								
	PUMP TANK Type/Size of Pump Installed								



## Permit of Authorization to Construct an On-Site Sewage Facility Permit Valid For One Year From Date Issued

Permit Number: 118401

Issued This Date: 03/11/2025

This permit is hereby given to: MARIA T. ALVIDEREZ PAEZ & LARRY STOSPAL

To start construction of a private, on-site sewage facility located at:

1160 SEQUOIA TRL

CANYON LAKE, TX 78133

Subdivision: TAMARACK SHORES

Unit: 1

Lot: 51

Block: 0

Acreage: 0.2900

#### APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

**Drip Irrigation** 

This permit gives permission for the construction of the above referenced on-site facility to commence. Installation must be completed by an installer holding a valid registration card from the Texas Commission on Environmental Quality (TCEQ). Installation and inspection must comply with current TCEQ and Comal County requirements.

Call (830) 608-2090 to schedule inspections.



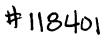


### **ON-SITE SEWAGE FACILITY APPLICATION**

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

WWW.CCEO.ORG

1. APPLICANT / AGENT INFORMATION  MARIA T. ALVIDREZ PAEZ & LARRY STOSPAL  Mailing Address  1172 SEQUOIA TRAIL  Agent Address  170 HOLLOW OAK  Agent Address  170 HOLLOW OAK  City, State, Zip CANYON LAKE TEXAS 78133  City, State, Zip NEW BRAUNFELS TEXAS 78132  Phone # 214-870-0450 Phone # 830-905-2778  Email stospall@marshall.edu  Email gregiohnson-pe@yahoo.com  2. LOCATION  Subdivision Name TAMARACK SHORES  Unit SEC I Lot 51 Block  Survey Name / Abstract Number Address  1160 SEQUOIA TRAIL  City CANYON LAKE State TX Zip 78133  3. TYPE OF DEVELOPMENT  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.)  Number of Bedrooms  Indicate Sq Ft of Living Area 1495  Non-Single Family Residential  (Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)  Type of Facility  Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupants  Restaurants, Lounges, Theaters - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Spaces  Miscellaneous  Estimated Cost of Construction: \$ 225,000 (Structure Only)  Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?  ASSIGNED RESIDENCE OF OWNER  By spinig this application, I certify that:  The completed application and all additional information submitted does not contain any false information and does not conceal any material facts. I certify that 1 am the property owner or 1 possess the appropriate land rights necessary to make the permitted improvements on said		cember 27, 2024		Permit Nu	mber	118	401	
Owner Name STOSPAL Agent Name GREG JOHNSON, P.E.  Mailing Address 1172 SEQUOIA TRAIL Agent Address 170 HOLLOW OAK  City, State, Zip CANYON LAKE TEXAS 78133 City, State, Zip NEW BRAUNFELS TEXAS 78132  Phone # 214-870-0450 Phone # 830-905-2778  Email stospall@marshall.edu Email gregiohnsonpe@yahoo.com  2. LOCATION  Subdivision Name TAMARACK SHORES Unit SEC 1 Lot 51 Block  Survey Name / Abstract Number Address 1160 SEQUOIA TRAIL City CANYON LAKE State TX Zip 78133  3. TYPE OF DEVELOPMENT  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.) [OUSE]  Number of Bedrooms 2  Indicate Sq Ft of Living Area 1495  Non-Single Family Residential  (Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)  Type of Facility Offices, Factories, Churches, Schools, Parks, Etc Indicate Number of Goccupants  Restaurants, Lounges, Theaters - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Spaces  Miscellaneous  Estimated Cost of Construction: \$ 225,000 (Structure Only)  Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?  Yes ∑ No (If yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)  Source of Water ∑ Public  Private Well Rainwater Collection  4. SIGNATURE OF OWNER	1. APPLICANT /							
City, State, Zip	Owner Name		Agent Name	(	GREG JO	HNSC	N, P.E.	
City, State, Zip	Mailing Address	1172 SEQUOIA TRAIL			4504/500 (D. C. C. C.			
Phone #   214-870-0450	City, State, Zip	CANYON LAKE TEXAS 78133	City, State, Zip	and the country of				78132
Subdivision Name	Phone #	214-870-0450	Phone #		200			
Subdivision Name	Email	stospal1@marshall.edu	Email	gre	egjohnsor	npe@ya	ahoo.co	m
Survey Name / Abstract Number	2. LOCATION					1 0,		
Survey Name / Abstract Number	Subdivision Nam	eTAMARACK SHORES	Ur	nit SEC 1	Lot	51	Blo	ck
Address	Survey Name / A	bstract Number			-			o
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The completed application and all additional information submitted does not contain any false information and does not conceal any material								
property.	The completed appleted facts. I certify that	plication and all additional information submitted do	es not contain any false te land rights necessar	e information a y to make the	and does permitted	not cor	nceal an vements	y material s on said
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities	- Authorization is he site/soil evaluation	and inspection of private sewage facilities						•
<ul> <li>I understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.</li> <li>I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.</li> </ul>	by the Comai Lou	nty Flood Damage Prevention Order.						3.5
V And My Land Market 1 10 And Control of the Contro	VAL	/ A. N. L.		An (Do perilli	applicati	on, as a	pplicab	ie.
Signature of Owner Date Page 1 of	Signature of Ow	yner y www.	Date	0/5		-		Page 1 of 2







#### TAMARACK SHORES, SECTION 1, LOT 51

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

ENGINEER'S OFFICE	09/23/2025 1:27:48 PM	<u>w</u> `	WW CCEO ORG
Planning Materials & Site Ev	valuation as Required Completed By	GREG W. JOHNSON, P.E.	
System Description	PROPRIETARY; AEROBIC T	REATMENT AND DRIP TUBING	<del></del>
Size of Septic System Requi	ired Based on Planning Materials & Soil Ev	aluation	
Tank Size(s) (Gallons)	CLEARSTNEAM GOO NOS	Absorption/Application Area (Sq Ft)	1300
Gallons Per Day (As Per TCE			
(Sites generating more than 500	00 gallons per day are required to obtain a perm	it through TCEQ.)	
(if yes, the planning materials mate	the Edwards Recharge Zone? Yes nust be completed by a Registered Sanitarian (Figure 2) Yes ortify that the OSSF design complies with all provided the control of the property?	R.S.) or Professional Engineer (P.E.))  No	
	r single family dwelling as per 285.40(c)(1)		
(if yes, the R.S or P.E. shall ce	, does the proposed development activity ratify that the OSSF design will comply with all-psF until the proposed WPAP has been approved	rovisions of the proposed WPAP. A Permit to	
Is the property located over	the Edwards Contributing Zone? X Yes	□ No	
Is there an existing TCEQ ap	oproval CZP for the property? 🔲 Yes 🍃	<b>∑</b> No	
(if yes, the P.E. or R.S. shall ce	rtify that the OSSF design complies with all prov	risions of the existing CZP.)	
If there is no existing CZP, d	loes the proposed development activity req	uire a TCEQ approved CZP? Yes	⊠ No
	rtify that the OSSF design will comply with all p until the UP has been approved by the appropr		onstruct will not be
ls this property within an inco	orporated city?	Shar X ct 70.	
If yes, indicate the city:		GREG W. JOHNSON  67587  GISTERE FIRM	#2585
·	bove is true and correct to the best of my knowle e online posting/public release of my e-mail add	edge. ress associated with this permit application, a	s applicable.
		December 29, 2024	

Date

#### **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.

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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.

II

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):

1	_unit/phase/section	BLOCK	51	LOT_	TAMARACK SHORES	SUBDIVISION
if i	NOT IN SUBDIVISION:	ACRBAGE	ß	····		SURVEY
	The property is owned by (	insert owner's	fall n	ame):	MARIA T. ALVIDREZ PAEZ & LAR	RY STOSPAL
	the initial two-year service	policy, the own	ner of	an aerobi	e contract for the first two years. After treatment system for a single family in 30 days or maintain the system	
	Upon sale or transfer of the transferred to the buyer or obtained from the Comal C	new owner. A	copy (	of the pla	e permit for the OSSF shall be uning materials for the OSSF can be	
	WITNESS BY HAND(S) O	N THIS 13	DAY	of <u>f</u>	ebruary ,20 25	
	, , ,			LA	RRY STOSPAL	
	Owner(s) signature(s)			Own	er (s) Printed name (s)	
-	February LARR	Y STOSPAL SW	ORN	TO AND	SUBSCRIBED BEFORE ME ON THI	s <u>/3</u> day of
	1 Soldar G	,20			Filed and Recorded	]
	/ xu ja-				Official Public Reco	ords
	Notary Public Sign	ature	_		Bobbie Koepp, Cou	nty Clerk
					Comal County, Texa	as
	GREG W. JOHN	SCN			02/18/2025 08:05:3	
	Comm. Expires 06-1	7-2026			MARY 1 Pages(s)	)
	Notary ID 124218	3310			202506004470	
					Robbin K	, ()4 000



# Higher Ratings LLC 2 Year Maintenance Service Contract

Property Address:	1160 SEQUOIA TRL CA	NYON LA	KE, TX 78133	(	
Permit #:	C	ontract Sta	Start date of Li	icense to Operate Endi	ng: 2 years from start of LTO
Customer Name: P	AEZ MARIA T A & LARRY S	TOSPAL	Contact #: 2	14-870-0450	
	will maintain the OSSF syst				
During this period, v	we will conduct a system i	nspection (	everv 4 month	ns. These inspe	ctions will consist of
	sidual, sludge sample, dist	100			177
	onents, and code compliar				
				(F. 5)	Light
This contract will no	ot cover costs of service ca	ills labor r	naterial not co	overed under w	arranty, or pumping
	arts that have voided warr			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
2	be replaced and billed; ov			- /	
	ncy service calls between s			, ,	
	or every 15 minutes after				
	bjected to a \$20.00 late pe			1.127	
	the reasonable attorney's	71	of the same of the		
	npaid debt(s). By signing th	4	3		
	which were installed but no		10. A		
responsible for any	labor costs associated wit	th the insta	allation and re	move of said pa	arts.
		A IA			
Improper usage, su	ch as shutting off power to	o the syste	m, exceeding	engineered-des	sign capabilities,
improper disposal of	of non-biodegradable mat	erials (che	micals, solven	ts, grease, oil, p	aint, or any other
substance not suita	ble for treatment) can res	ult in syste	m failure or p	oor performan	ce and voided
warranty.	A STATE OF THE STA				
	A SA				
State law requires h	nomeowners to maintain t	their own c	:hlorine residu	ıal. Chlorine tal	blets can be
purchased if reques	sted by our services.				
	A S				
Property owners wi	ill be responsible for all co	sts, if need	led, for the re	quired BOD and	d TSS laboratory
samples as required	d by law.				
	ÿ.	Compl C	aunt.		
All testing and repo	orting required by	Comal Co	Jurily ————————————————————————————————————	and Texas	state regulations.
				-	
					access is not available, the
will be a charge of \$	\$100.00 to make an additi	onal visit to	o the propert	y.	

Response time for service calls will be addressed within 72 hours from the time the call was received. Service emergencies after 5pm and on weekdays will be considered after hours and billed at \$175.00 an hour with a

minimum charge of 2 hours. Emergencies on Saturday and Sunday will also be billed at

\$175.00 an hour with a minimum of 2 hours.



Client's Responsibilities: The Client is responsible for each and all the follow 09/10/2025 10:58:02 AM

- 1. Maintain chlorinator and provide proper chlorine supply, if OSSF is equipped with same.
- 2. Provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow Contractor easy access to all parts of the OSSF.
- Maintain a current license to operate and abide by the conditions and limitations of that license and all requirements for on-site sewage facilities (OSSF's) from the State and local regulatory agency, as well as manufacturer's recommendations.
- 4. Immediately notify the Contractor and Agency of all problems with, including the failure of the OSSF.
- 5. Upon receiving a written notification of services needed from the Contractor, it becomes the Client's responsibility to contact the Contractor to authorize the service. If the Client chooses to use a different contractor to perform the service, the Client's responsible for ensuring the contractor holds the proper license (installer II) and is certified by the manufacturer. Also, the Client is responsible for ensuring proper notification is given to the Agency, as required by the State and local Agency rules.
- 6. Provide the Contractor with water usage records, upon request, for evaluation by the Contractor of the OSSF performance.
- 7. Clients residing in Harris County should allow for samples at both the inlet and outlet to the OSSF to be obtained by the Contractor for the purpose of evaluating the OSSF's performance when requested by the Client. If these samples are sent to the lab for testing, the Client will directly pay the lab for the cost of the testing plus pay the Contractor for all man-hours expended in providing this additional service at the rate of \$75.00 per hour measured from office to site, site to lab, and lab to office, otherwise known as portal to portal.
- 8. Not allow the backwash from water treatment or water conditioning equipment to enter the OSSF.
- 9. Provide for pumping of tanks, when needed, at Clients expense.
- 10. Maintain site drainage to prevent adverse effects on OSSF.
- 11. Promptly and fully pay Contactor's bills, fees, or invoices as described herein.

Acceptance of Agreement

rid Howiatdost

Owner Signature

Date 9/8/2025

Maintenance Provider

Date 9-3-2025

Contact us:

Majid Howiatdost Jr. EIT

9131 Alpine Trail St. San Antonio Tx 78250

Email: Mhowiatdost@yahoo.com

Ph: 210.389.8228 MP# OS0002768 SE# OS0036822

Installer II # OS0040164

RS# 5255

## ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey I	Performed: Decem	ber 27, 2024				
Site Location:1	160 SEQUOIA TI	RAIL - TAMARA	CK SHORES, SE	CCTION 1, LOT 51	_	
Proposed Excavat	ion Depth:	6''				
Locations For subsu proposed	s of soil boring or durface disposal, soil excavation depth. I	ug pits must be show evaluations must be For surface disposal	vn on the site draw e performed to a de , the surface horize	osite ends of the proving.  epth of at least two foon must be evaluated the form. Indicate de	eet below the	
SOIL BORING	NUMBER	1				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
24" 2 3 4 5	Ш	SILTY CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 24"	BROWN
SOIL BORING	NUMBER	2				V
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 1 2 3 4 5	SAME	AS	ABOVE			
I certify that the	ne findings of this ability.	report are based of	on my field obse	rvations and are ac	SIA	E OF TE+70

Date

GREG W. JOHNSON
67587
G/S/S/S/S/ONAL ENGINE

etor Information:  ag W. Johnson, P.E., R.S, S.E. 11561  70 Hollow Oak  Braunfels  State: Texas  78132  Phone & Fax (830)905-2778  State:  pany:  State:  State:
g W. Johnson, P.E., R.S, S.E. 11561 70 Hollow Oak Braunfels State: Texas 78132 Phone & Fax (830)905-2778  State: Texas 18132 Phone & Fax (830)905-2778  State: Texas 18132 Phone & Fax (830)905-2778  State: Texas 18132 Phone & Fax (830)905-2778
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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 - F#2585



#### **DRIP TUBING SYSTEM**

**DESIGNED FOR:** 

MARIA T. ALVIDREZ PAEZ & LARRY STOSPAL 1172 SEQUOIA TRAIL CANYON LAKE, TX 78133

#### **SITE DESCRIPTION:**

Located in Tamarack Shores, Section 1, Lot 51, at 1160 Sequoia Trail, this septic will serve a two bedroom residence (1495 sf) in area with moderate depth Type-III soil as described in the Soil Evaluation Report. 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 residence to a Clearstream 600 NC3T 600gpd aerobic plant containing a 400-gallon pretreatment tank, an aerobic treatment plant, and a 700-gallon pump chamber. The effluent pump in the ATU is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 180 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 1300sf. drip tubing field, with Netifim 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 40 psi 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 the pump tank by throttling a 1" 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. Field area will be excavated eight inches then field area scarified then 2" of Type II or Type III soil added, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" soil required between drip and rock. 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: 180 gpd Table III Pretreatment tank size: 400 Gal

Plant Size: Clearstream 600 NC3T 600 gpd (TCEQ Approved)



Pump tank size: 700 Gal

Reserve capacity after High Level: 60 Gal (>1/3 day Req'd)

Application Rate: Ra = 0.2 gal/sf

Total absorption area: Q/Ra = 180 GPD/0.20 = 900 sf. (Actual 1300 sf.)

Total linear feet drip tubing: 650' *Netifim* drip tubing .61 GPH Pump requirement: 325 emitters @ .61 gph @ 30 psi = 3.30 gpm Pump Requirement (cont.): Dominator 0.5 hp submersible well pump

Dosing volume: 50-70 gal.

Pump Tank Calculations: 700 Gal (14.5 gal/in.)
Volume below working level = 12"= 148 gal

Working level = 180 gal = 15"

Reserve Requirement = >1/3 day = 60 gal. = 5"

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 MIN FLOW RATE x 2 = 3 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

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. Drip tubing 0.61 gph drip tubing to be used in field.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission on Environmental Quality (Effective December 29, 2016)

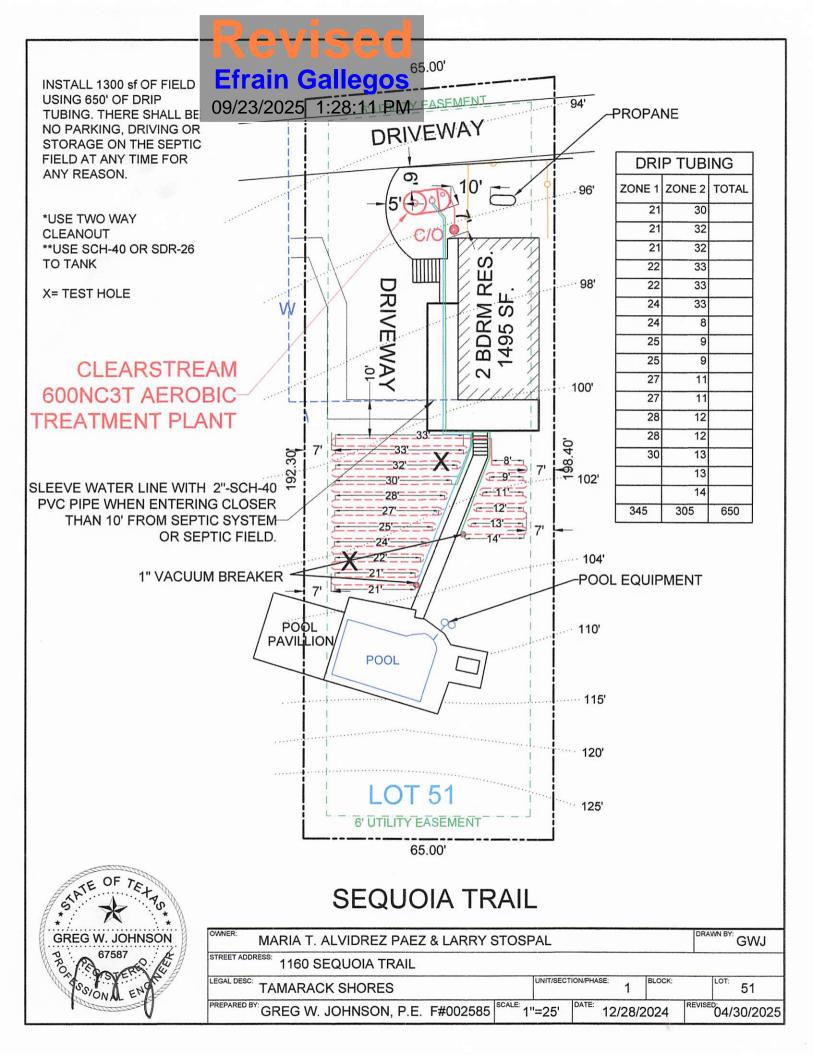
Greg W. Johnson, P.E.

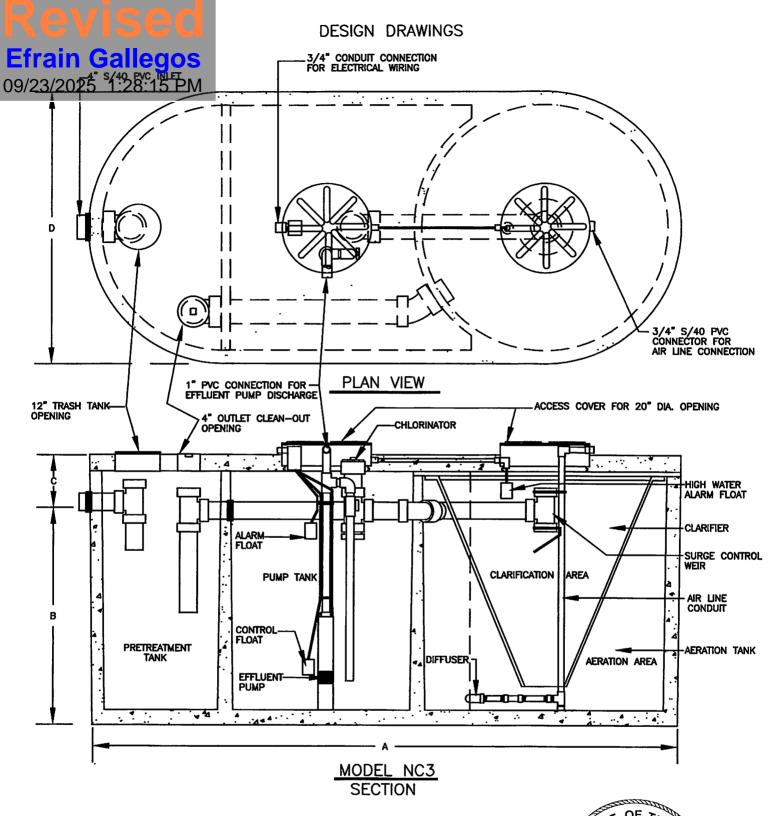
No. 67587 - F-2585

170 Hollow Oak

New Braunfels, Texas 78132 830/905-2778







#### DIMENSIONAL DATA

MODEL	Α	В	С	D
500NC3-500	12'-2"	60"	10"	75"
500NC3-750	13'-5"	60"	10"	75"
600NC3	12'-7"	60"	10"	82"



F-2585

14/30/25



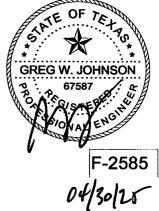
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

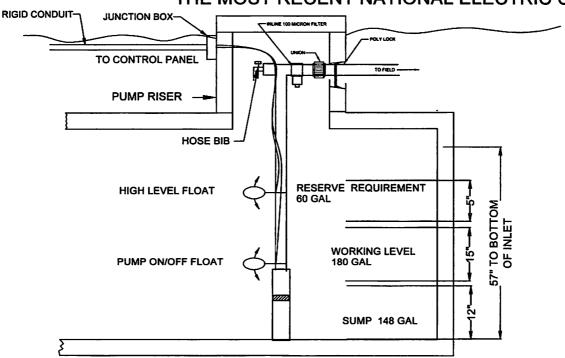
A two way sanitary tee is required between residence and tank.

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

Tanks must be left uncovered and full of water for inspection by the permitting authority.



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



TYPICAL PUMP TANK CONFIGURATION
CLEARSTREAM 600NC3T W/ 700 GAL PUMP TANK

## **Arkal 1" Super Filter**

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

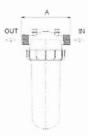
#### **Features**

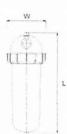
- A "T" shaped filter with two 1" male threads.
- A "T" volume filter for in-line installation on 1" pipelines.
- The filter prevents clogging due to its enlarged filtering area that collects sediments and particles.
- · Manufactured entirely from fiber reinforced plastic.
- · A cylindrical column of 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 <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



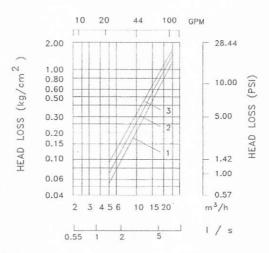


#### Filtration Grades

Green (55 micron)

Blue	(400 micron / 40 mesh)
Yellow	(200 micron / 80 mesh)
Red	(130 micron / 120 mesh)
Black	(100 micron /140 mesh)

#### **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

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)

#### Outlet

34-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

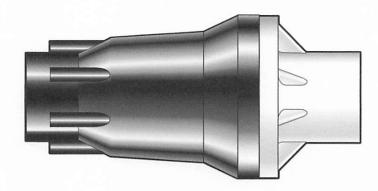
1" FBSPT x 1" FBSPT model

Overall Length

5.8 inches (14.6 cm)

Overall Width

2.5 inches (6.4 cm)



<sup>\*</sup> Please consult factory for applications outside of recommended guidelines.



## **PMR-MF**

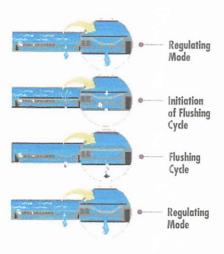
### PRESSURE-MASTER REGULATOR - MEDIUM FLOW

#### **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
	(454 - 4542 L/hr)	(4.14 bar)	(9.65 bar)



#### 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



#### Doot Cafe

- 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"\*

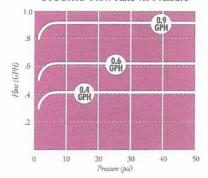
Recommended filtration: 120 mesh Inside diameter: .570\*

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





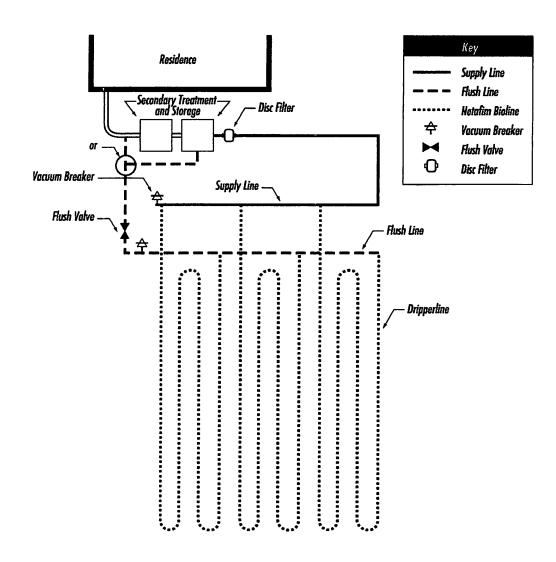
NETAFIM USA 5470 E. Home Ave. • Fresno, CA 93727 888.638.2346 • 559.453.6800 FAX 800.695.4753 www.netafimusa.com

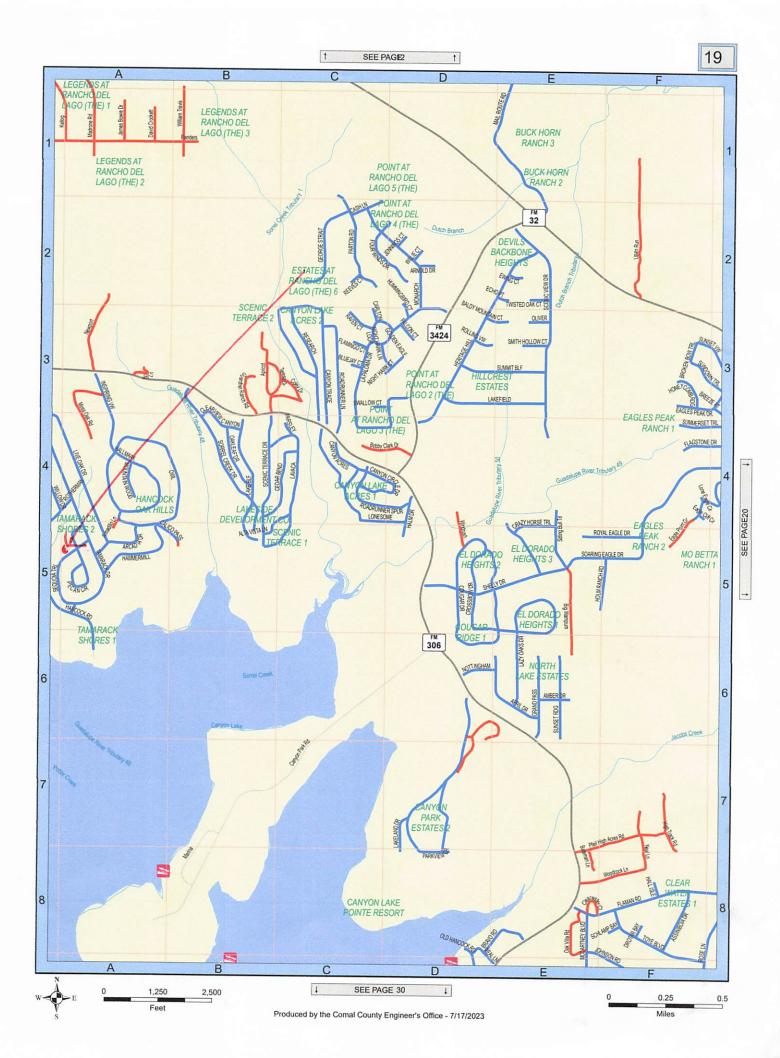
## **SAMPLE DESIGNS**

#### **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





### CTOT 20-506657-AB

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**

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

8

THAT MILAGROS PANSAROLA RAYMUNDO, and RAYMOND CAPARAS OROSA, and MARIFEOROSA, hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by MARIA T. ALVIDREZ PAEZ, a single woman and LARRY STOSPAL, a single man, hereinafter called Grantee, the receipt and sufficiency of which is hereby acknowledged;

HAS GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto the sald Grantee the following described property situated in Comal County, Texas, to-wit:

Lot 51, TAMARACK SHORES, SECTION 1, an addition in Comal County, Texas, according to the map or plat recorded in Volume 4, page 7, Map and Plat Records of Comal County, Texas.

This conveyance is made subject to, all and singular, the restrictions, conditions, easements, and covenants, if any, applicable to and enforceable against the above described property as reflected by the records of the County Clerk of Comal County, Texas.

Taxes for the current year have been prorated and are thereafter assumed by Grantee.

Grantor does hereby bind Grantor, Grantor's heirs, executors, administrators, and
successors to warrant and forever defend, all and singular, the said premises unto the
said Grantee, Grantee's heirs, executors, administrators, successors, and assigns against
any person whomsoever claiming or to claim the same or any part thereof.  DATED this the 4th day of July, 2020.  MILAGROS PANSAROLA RAYMUNDO  RAYMOND CAPARAS OROSA
MARIFOROSA MARIFOROSA
STATE OF
JASPREET KAUR  COMM. #2250547   Jaspreet Kaul  BOTANY PUBLIC CAUFORNIA   SAN BERNAROINO CAUFORNIA   SA
Notary Public, State of
STATE OF § COUNTY OF §
This instrument was acknowledged before me on this the day of July, 2020, by MARIF OROSA

**GRANTEE'S MAILING ADDRESS:** 

1172 Sequoiatre

Campolake TX 78133

722 DEEDS Capital Title Co. (KE) GF #20-505657-NB

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

(CALIFORNIA CIVIL CODE § 1189)

A notary public or other officer completing this certificate verifies only the identity of the individual, who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA COUNTY OF Los Angeles )		
On 3no Aug 2020 before me, Luis Pr	eciado, Notary Pu	ıblic
personally appeared RAYMOND CAPAY		The state of the s
who proved to me on the basis of satisfactory e subscribed to the within instrument and acknowl in his/her/their authorized capacity(les), and the the person(s), or the entity upon behalf of which the	edged to me that it by his/her/thei	he/she/they executed the same r signature(s) on the instrument
I certify under PENALTY OF PERJURY under the lav	vs of the State of	California that the foregoing
paragraph is true and correct. WITNESS my hand and official seal.		
SirReigch		
Signature of Notary Public	Notary Seal)	LUIS PRECIADO Notary Public - California Los Angules County Commission # 22123 6 My Comm. Expires Sep 15 2021
ADDITIONAL OPTIO	NAL INFORMAȚI	ON
Description of Attached Document		
Title or Type of Document: Wへんんいて り E Number of Pages:Signer(s) Other Than Na Additional Information:	amed Above:	Document Date:

revision date 01/01/2015

# CALIFORNIA ALL-PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

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	1
STATE OF CALIFORNIA COUNTY OF Los Angeles	لید بد
On 300 Aug 2020 before me, Luis Preciado, Notary Public	
personally appeared MARIFE AMI SUSMENA OROSA	
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is, subscribed to the within instrument and acknowledged to me that he/she/they executed the sain his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.	me
I certify under PENALTY OF PERIURY under the laws of the State of California that the foregoing paragraph is true and correct.  WITNESS my band and official seal.	
Signature of Notary Public Notary Seal)  Notary Seal)  Luis PRECIADO Notary Public - Culiforni Las Angeles County Cammission # 2212316 My Comm. Capires Sep 15.	Ş
ADDITIONAL OPTIONAL INFORMATION	
Description of Attached Document  GENERAL	
Title or Type of Document: WARRNITY DEED Document Date:	
Number of Pages:Signer(s) Other Than Named Above: Filed and Recorded	_
Additional Information: Official Public Records Bobbie Koepp, County Clerk	
Comal County, Texas 08/05/2020 02:38:00 PM	



CHRISTY 5 Pages(s)

202006031965

From: Ritzen, Brenda

To: "stospall@marshall.edu"; "(gregjohnsonpe@yahoo.com)"

Subject: RE: 118401.pdf

**Date:** Wednesday, May 7, 2025 10:53:00 AM

Attachments: Pages from 118401.pdf

image001.png

#### Dear Property Owner / Agent :

See attached. The 2 year initial maintenance contract included with your permit submittal has been voided by the maintenance provider. Please submit a new 2 year initial maintenance contract with a TCEQ authorized maintenance provider. Your permit to construct will be on hold until a new signed contract is received.

#### 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:** Tuesday, March 11, 2025 2:57 PM

To: stospall@marshall.edu; '(gregjohnsonpe@yahoo.com)' <gregjohnsonpe@yahoo.com>

**Subject:** 118401.pdf

#### Dear Property Owner / Agent :

A copy of the Permit to Construct for the referenced permit submittal is attached.

Thank you,

From: Helmke, Shelly K.

To: Ritzen, Brenda; Olvera, Brandon

**Subject:** FW: void contract putting in different system and went with another installer

**Date:** Wednesday, May 7, 2025 10:43:37 AM

Attachments: Scan.pdf

From: BCAS <bcas@blockcreek.com>
Sent: Wednesday, May 7, 2025 9:48 AM

To: Helmke, Shelly K. <helmks@co.comal.tx.us>

Subject: void contract putting in different system and went with another installer

## This email originated from outside of the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

- Comal IT



### WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority COMAL Block Creek Aerobic Services, LLC 444 A Old Hwy #9 Comfort, TX 78013 Off. (830) 995-3189 Fax. (830) 995-4051

TAMARACK SHORES, SECTION 1, LOT 51

Permit/License Number
Customer MARIA T. ALVIDREZ PAEZ & LARRY STOSPAL
Site Address 1160 SEQUOIA TRAIL
City CANYON LAKE Zip 78133
Mailing Address 1172 SEQUOIA TRAIL, C.L., TX 78133
County COMAL Map # CCEO 19, A5
Phone 214-870-0450
Email stospali@marshall.edu

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between MARIAT. ALVIDREZ PAEZ & LARRY STOSPAL (hereinafter referred to as "Customer") and Block Creek Aerobic Services, LLC and "Contractor") agree to render services at the site address stated above, 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:

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Customer'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):

 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.

 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.

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Customer's Initials

Contractor's Initials

### 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

#### 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

### 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,

**Rudy Carson** 

Block Creek Aerobic Services, LLC,

Contractor

Customer Signature

MP# 0002036

RC



Regulatory Authority COMAL Block Creek Aerobic Services, LLC 444 A Old Hwy #9 Comfort, TX 78013 Off. (830) 995-3189 Fax. (830) 995-4051

**TAMARACK SHORES, SECTION 1, LOT 51** 

I. General: This Work for Hire Agreement (hereinafter referred to as "Agreement") is entered into by and between MARIAT. ALVIDREZ PAEZ & LARRY STOSPAL (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.

Email stospali@marshall.edu

П	Effe	ctive	Da	te

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:

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#### IV. Services:

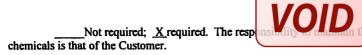
#### Contractor will:

- 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.
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- 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:

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disinfection device(s) and provide any necessary

#### 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:

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  - 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.

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#### 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, attorncys' 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.

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## THIS INDEMNITIFCATION APPLIES EVEN IF SUCH MANIFES 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.

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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.

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#### XIV. Payment:

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#### 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, ral 20 written.

**Rudy Carson** 

Block Creek Aerobic Services, LLC,

Contractor MP# 0002036 Customer Signature

RC

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all rights reserved





ARACK SHORES, SECTION 1, LOT 51

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

Planning Materials & Site Evalu	a ion as R Wed ( pole B	GR G W. JOHNSON, P.E.	
System Description	PROPRIETARY; AEROBIC	TREATMENT AND DRIP TUBING	
Size of Septic System Required	Based on Planning Materials & Soil E	valuation	
Tank Size(s) (Gallons)	NUWATER B-550-PC	Absorption/Application Area (Sq Ft)	1276
Gallons Per Day (As Per TCEQ 1	Table 111)180		
(Sites generating more than 5000 g	allons per day are required to obtain a per	mit through TCEQ.)	
Is the property located over the (if yes, the planning materials must	Edwards Recharge Zone? Yes be completed by a Registered Sanitarian	No (R.S.) or Professional Engineer (P.E.))	
	oved WPAP for the property?  Yes that the OSSF design complies with all pr		
Is there at least one acre per sir	ngle family dwelling as per 285.40(c)(1	)? Yes No	
(if yes, the R.S or P.E. shall certify	es the proposed development activity that the OSSF design will comply with all- ntil the proposed WPAP has been approve	provisions of the proposed WPAP. A Permit to Cons	No Struct will not
Is the property located over the	Edwards Contributing Zone? X Yes	☐ No	
Is there an existing TCEQ appro	oval CZP for the property?  Yes	⊠ No	
(if yes, the P.E. or R.S. shall certify	that the OSSF design complies with all pr	ovisions of the existing CZP.)	
If there is no existing CZP, does	s the proposed development activity re	equire a TCEQ approved CZP?  Yes	No
	that the OSSF design will comply with all I the UP has been approved by the appro	provisions of the proposed CZP. A Permit to Constru priate reg	uct will not be
Is this property within an incorpo	orated city?  Yes  No	SINTE OF TEXT	
If yes, indicate the city:		GREG W. JOHNSON  67587  67587  CONSTERED TO THE WAY TO THE WAY	585
By signing this application, I certi	fy that:		
•	e is true and correct to the best of my know	•	
- I attirmatively consent to the on	line posting/public release of my e-mail ac	Idress associated with this permit application, as app	ilicable.

$\mathcal{M}$	December 29, 2024	
Signature of Designer	Date	



# RIP TUBING SYSTEM DESIGNED FOR:

VIDREZ PAEZ & LARRY STOSPAL 1172 SEQUOIA TRAIL CANYON LAKE, TX 78133

#### **SITE DESCRIPTION:**

Located in Tamarack Shores, Section 1, Lot 51, at 1160 Sequoia Trail, this septic will serve a two bedroom residence (1495 sf) in area with moderate depth Type-III soil as described in the Soil Evaluation Report. 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 residence to a NuWater B550-400PT 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768-gallon pump chamber. The effluent pump in the ATU is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 180 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 1276sf. drip tubing field, with *Netifim* 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 40 psi 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 the pump tank by throttling a 1" 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. Field area will be excavated eight inches then field area scarified then 2" of Type II or Type III soil added, then the drip tubing will be laid and capped with 6" of Type II or Type III soil (NOT SAND). A minimum of 12" soil required between drip and rock/tank. 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: 180 gpd Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B-550-400PT 600 gpd (TCEQ Approved)



evel: 60 Gal (>1/3 day Req'd)

Total absorption area. Q/Ra 100 GPD/0.20 = 900 sf. (Actual 1276 sf.)

Total linear feet drip tubing: 638' *Netifim* drip tubing .61 GPH Pump requirement: 319 emitters @ .61 gph @ 30 psi = 3.24 gpm

Pump Requirement (cont.): FPS E-Series 0.5 hp submersible well pump

Dosing volume: 50-70 gal.

Pump Tank Calculations: 768 Gal (14.5 gal/in.)

Volume below working level = 15"= 218 gal

Working level = 180 gal = 12.5"

Reserve Requirement = >1/3 day = 60 gal. = 4.25"

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)†2)/4)\*7.48\*60

MSV = 1.5 gpm MIN FLOW RATE x 3 = 4.5 gpm

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

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. Drip tubing 0.61 gph drip tubing to be used in field.

Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission on Environmental Quality (Effective December 29, 2016)

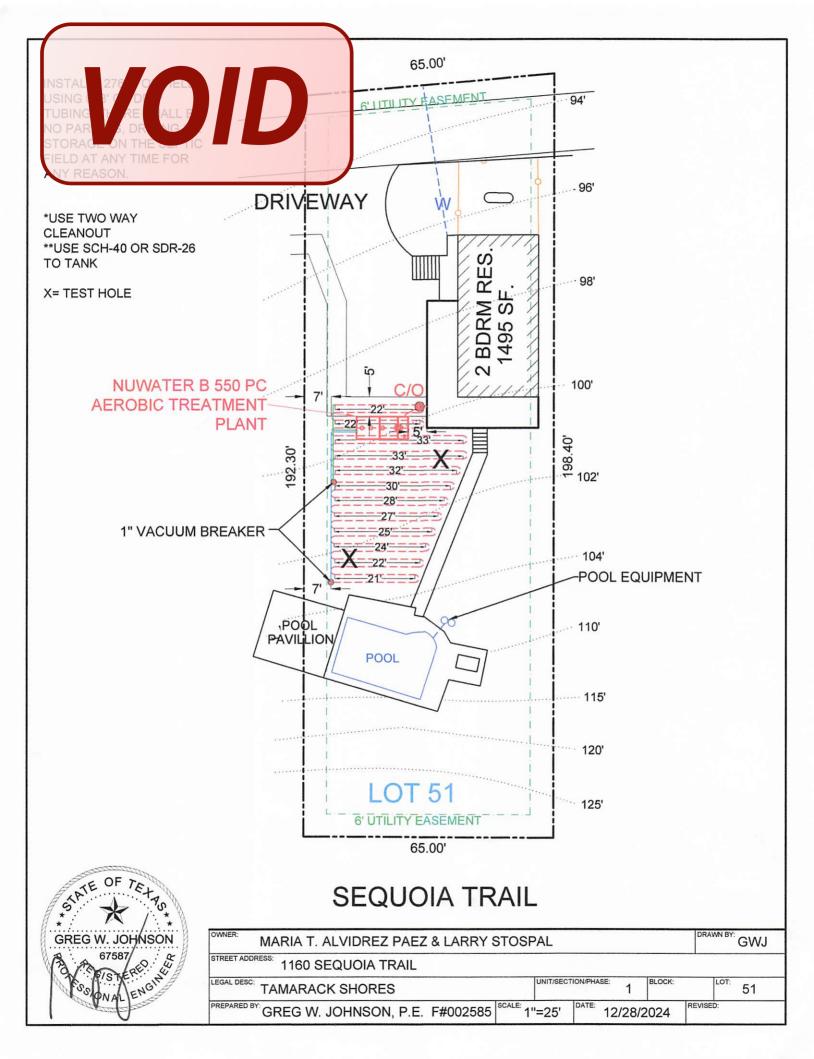
Greg W. Johnson, P.E.

No. 67587 - F-2585

170 Hollow Oak

New Braunfels, Texas 78132 830/905-2778





## **Assembly Details** VOID See Note 9. See Note 9. See Note 5. See Note 10. See Note 7. Inlet Flow Line O 53"" 59" Aeration Clarifler treatment 190 Gal.

#### **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.
- Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day.
- Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- Bio-Robix B-550 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.
- 20 GPM 1/2 HP, high head effluent pump.
- HIBLOW Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant).
- 11. 1" Sch. 40 PVC pipe to distribution system provided by contractor.
- 12. 4" min. compacted sand or gravel pad by Contractor

#### DIMENSIONS:

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

#### MINIMUM EXCAVATION DIMENSIONS:

Width: 76" Length: 176"

See Note 12.

See Note 11.

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

Diffuser Bar

353 Gal.

Model: B-550-PC-400PT

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

Scale: \* All Dimensions subject to allowable specification

See Note 8.

Dwg. #: ADV-B550-3



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

AK NOES.

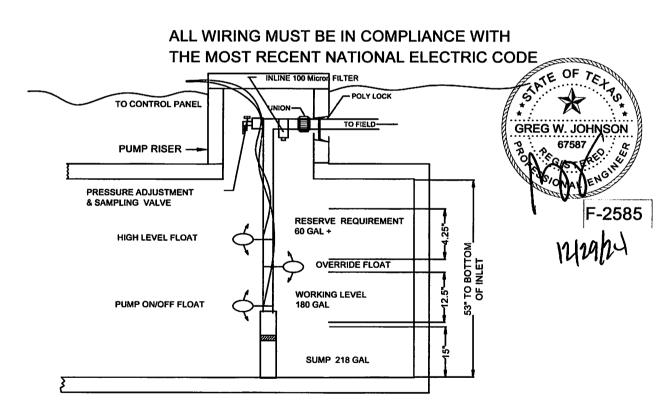
Tanks must be set to allow a

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 550PC -400PT 768 GAL PUMP TANK



Instructions:

**OSSF Permit** 

Copy of Recorded Deed

Surface Application/Aerobic Treatment System

Signature of Applicant

**COMPLETE APPLICATION** 



## OSSF DEVELOPMENT APPLICATION

**CHECKLIST** Staff will complete shaded items 118401 Initials Permit Number Date Received Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist must accompany the completed application. Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Materials shall consist of a scaled design and all system specifications. Required Permit Fee - See Attached Fee Schedule Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public Signed Maintenance Contract with Effective Date as Issuance of License to Operate I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application. 02/18/2025 Date

> INCOMPLETE APPLICATION (Missing Items Circled, Application Refeused) Receipt No.