

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: 09/25/2025 Permit Number: 119011

Location Description: 760 LOOKOUT DR

CANYON LAKE, TX 78133

Subdivision: Canyon Lake Hills

Unit: 1
Lot: 263
Block: 0
Acreage: 0.0000

Type of System: Aerobic

Drip Irrigation

Issued to: 730 Lookout Dr. LLC.

This license is authorization for the owner to operate and maintain a private facility at the location described in accordance to the rules and regulations for on-site sewerage facilities of Comal County, Texas, and the Texas Commission on Environmental Quality.

The license grants permission to operate the facility. It does not guarantee successful operation. It is the responsibility of the owner to maintain and operate the facility in a satisfactory manner.

Alterations to this permit including, but not limited to:

- Increase in the square feet of living area
- Increase in the number of bedrooms
- A change of use (i.e. residential to commercial)
- Relocation of system components (including the relocation of spray heads)
- Installation of landscaping
- Adding new structures to the system

may require a new permit. It is the responsibility of the owner to apply for a new permit, if applicable.

Inspection and licensing of a facility indicates only that the facility meets certain minimum requirements. It does not impede any governmental entity in taking the proper steps to prevent or control pollution, to abate nuisance, or to protect the public health.

This license to operate is valid for an indefinite period. The holder may transfer it to a succeeding owner, provided the facility has not been remodeled and is functioning properly.

Licensing Authority

Comal County Environmental Health

ENVIRONMENTAL HEALTH COORDINATOR

Assistant: OS0034792

staller Name:	OSSF Installer #:	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)				
	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)		285.32(a)(5)				
5	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)(C)(i) 285.32(b)(1)(C)(ii) 285.32(b)(1)(D) 285.32(b)(1)(E) 285.32(b)(1)(E) 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) 285.32(b)(1)(E)(ii)(II)				
7	PRETREATMENT Grease Interceptors if required for commercial		285.34(d)				

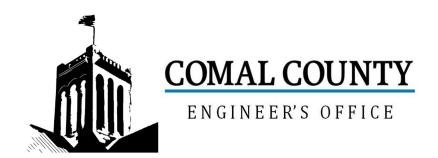
Inspector Notes:

N-	December 41	A may	Citotiana	Net	1 at 1	2 m d 1	7 mal 1
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK IsingleTank, 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)(ii) (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) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
1	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)				
	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						
12							
	PUMP TANK Volume Installed						
1	AEROBIC TREATMENT UNIT Size Installed						
14							
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
15	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)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				
18			203.33(a)(2)				

	OSSI Inspection Sheet							
No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.	
19	DISPOSAL SYSTEM Drip Irrigation		285.33(c)(3)(A)-(F)					
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)					
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(4) 285.33(a)(3) 285.33(a)(1) 285.33(a)(2)					
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)					
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)					
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)					
	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC							
26	DRAINFIELD Area Installed							
	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)					
	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media							
	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)					
	DRAINFIELD Leaching Chambers DRAINFIELD Chambers - Open End Plates w/Splash Plate, Inspection Port & Closed End Plates in Place (per manufacturers spec.)		285.33(c)(2)					
	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)					

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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.						
	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						
37	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						

	<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: 119011

Issued This Date: 09/16/2025

This permit is hereby given to: 730 Lookout Dr. LLC.

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

760 LOOKOUT DR

CANYON LAKE, TX 78133

Subdivision: Canyon Lake Hills

Unit: 1

Lot: 263

Block: 0

Acreage: 0.0000

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

Date		Gallegos	Permit Nu	mber	,
1. APPLICANT / AGEN	IT INFORMATION				
Owner Name 730 Lo	09/15/2028 pokout Dr. LLC.	5 9:41:38 AM	David Winte	rs Septics LLC.	
Dhone #		Dhone #	830-935-247	77	
Email		Email		ics@gvtc.com	
2. LOCATION					
Subdivision Name Can	iyon Lake Hills		Unit 1	Lot 263	Block
NO.000000000000000000000000000000000000	t Number				
Address 760 Lookout D					
3. TYPE OF DEVELOP					
Single Family Res	sidential				
Type of Construc	ction (House, Mobile, RV, Etc.) Ho	use + 1 bedroom (Casita		
Number of Bedro					
Indicate Sq Ft of	Living Area 1430 Sq Ft. Main H	House + 270 Sq. F	t. Casita =	=1700 Sq. F	t.
Non-Single Famil	•	• •		•	
	s must show adequate land area for dou	bling the required land nee	ded for treatm	ent units and dis	posal area)
Type of Facility					
Offices, Factorie	s, Churches, Schools, Parks, Etc I	Indicate Number Of Occ	upants		
Restaurants, Lou	unges, Theaters - Indicate Number o	of Seats			
Hotel, Motel, Hos	spital, Nursing Home - Indicate Num	ber of Beds			
Travel Trailer/R\	/ Parks - Indicate Number of Spaces	S			
Miscellaneous _					
	onstruction: \$ 150,000.00	(Structure Only)			
* .	proposed OSSF located in the United				
Yes X No	(If yes, owner must provide approval from US	ACE for proposed OSSF impr	ovements withir	the USACE flowa	ge easement)
Source of Water X	Public Private Well Ra	ainwater			
4. SIGNATURE OF O	WNER				
facts. I certify that I am	n, I certify that: ion and all additional information submitt the property owner or I possess the app	ted does not contain any fa propriate land rights necess	alse information cary to make th	n and does not co ne permitted impr	onceal any material overnents on said
site/soil evaluation and	given to the permitting authority and des inspection of private sewage facilities				
 I understand that a perr by the Comal County F 	nit of authorization to construct will not b lood Damage Prevention Order. o the online posting/public release of my				
Lester Collinsworth	Mund	9/9/202			
Signature of Owner	HALL H	Date			Page 1 of 2 Revised January 2021
					nevised January 2021



ON-SITE SEWAGE FACILITY APPLICATION

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

Planning Materials & Site Evaluation as Required Completed By
System Description
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons) Absorption/Application Area (Sq Ft)
Gallons Per Day (As Per TCEQ Table III)
(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?
(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)?
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?
(If yes, the R.S. or P.E. 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?
If yes, indicate the city: GARRETT R. WINTERS
By signing this application, I certify that:
- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.
Signature of Designer Date



AFFIDAVIT OF A SINGLE FAMILY RESIDENCE

THE COUNTY OF Comal	
STATE OF TEXAS	
Before me, the undersigned authority, on this day personally appeared	730 Lookout Dr. LLC.
oath states that he/ she is the owner of record of those certain tracts or	who after being duly sworn, upon
situated in Comal County, Texas, and being more particularly described	as follows:
Lot 263, CANYON LAKE HILLS, UNIT NO.1, Situated in Comal County, Texas	
The undersigned further states the following described structures	
1430 Sq Ft. 3 bedroom Main House and the 270 Sq. Ft.1 bed Casita	
on the said residential property are for one family and are routinely use of that one family.	ed only by members of the household
WITNESS BY HAND(S) ON THE 21th DAY OF April	, 20 <u>25</u>
Allus	
Owner(s) signature(s)	
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 21 DAY OF April , 2025	
Notary Signature	SAMUEL PEDRAZA Notary Public, State of Texas Notary ID# 13167716-7
National Drinted Nama: Scimilar 1 Podrata.	My Commission Expires AUGUST 10, 2026

My Commission Expires: August 10, 2026.

COUNTY OF COMAL STATE OF TEXAS

AFFIDAVIT TO THE PUBLIC

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

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

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, give 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 owners 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.

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):

Lot 263, CANYON LAKE HILLS, UNIT NO.1, Situated in Comal County,

Texas

The property is owned by (insert owner's full name):

760 Lookout Drive, LLC.

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 OSSF may be obtained from Comal County Engineer's Office.

WITNESS BY HAND(S) ON THIS 21 DAY OF MCYCh 2025.

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Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 03/21/2025 03:51:34 PM TRACY 2 Pages(s) 202506008236



DAVID WINTERS SEPTICS, LLC PO BOX 195 SPRING BRANCH, TX 78070 830-935-2477 OFFICE 830-935-2477 FAX

wintersseptics@gvtc.com

Routine Maintenance and Inspection Agreement

This Work-for-Hire Agreement (hereaf	ter referred to as this "Agreement") is enter	ered into, by, and between	
760 Lookout Canyon LLC.		d David Winters Septic's, LLC, Inc.	
(hereafter referred to as "Contractor") 1	ocated at 760 Lookout Dr.	Date beginning on Issue Date of	
and contract ending 2 years from Issu	e Date of License to Operate	License to Opera	ite
By this agreement the Contractor agree	s to render professional service, as describe	bed herein, and the Client agrees to fulfill the	
terms of this Agreement as described h	erein.		

This agreement will provide for all required inspections, testing, and service for your Aerobic Treatment System. The policy will include the following:

- 1. Three (3) inspections per year/service calls (at least one every four months), for a total of six (6) over the two-year period, including inspection, adjustment, and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting control panel, air pumps, air filters, diffuser operation, and replacing or repairing any component not found to be functioning correctly. Any alarm situations affecting the proper function of the Aerobic process will be addressed within a 48-hour time frame. This contract does not include labor on warranty and non-warranty parts.
- 2. An effluent quality inspection consisting of a visual check of color, turbidity, scum overflow and examination for odors. A test for chlorine residual and pH will be taken and reported as necessary.
- 3 If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified on your inspection report.
- 4. The Client is responsible for the chlorine tablets and/or liquid chlorine; they must be filled before or during the service visit.
- 5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will not be covered by this policy.

At the conclusion of the initial service policy, our company will make available, for purchase on an annual basis, a continuing service policy cover NORMAL inspection, maintenance and repair.

The Homeowners Manual must be strictly followed or warranties are subject invalidation. Pumping of sludge build up is not covered by this policy and will result in additional charges.

This agreement does not cover any labor or parts for items which must be replaced due to acts of God, i.e., lightning strikes, high winds, flooding, freezing.

This agreement DOES NOT COVER materials or parts which must be replaced due to misuse or abuse of the system. These include but are not limited to: Sewage flows exceeding the recommended daily hydraulic design capabilities, Disposal of Non-Biodegradable materials, such as chemicals, grease or oil, sanitary napkins, tampons, baby wipes, disposable diapers, Clogs in the line between the house and the tank.

This agreement DOES NOT COVER LABOR OR PARTS for out- of- warranty items.

Service calls made outside of the regular maintenance schedule are subject to a \$75.00 SERVICE CALL FEE due at the time of service.

	ACCESS BY CONTRACTOR The contractor or anyone authorized by the contractor purpose of service described above.	or may enter the property at reasonable times without prior notice for the First 2 years
		included with new
T b	PAYMENT AGREEMENT The client will pay compensation to the contractor for payable in one lump sum payment upon acceptant lescribed due date will be subject to a \$25.00 late possible.	or the services in the amount of <u>install</u> . This compensation shall ce of this agreement. Payments not received within 30 days of the above
E a	TERMINATION OF THIS AGREEMENT Either party may terminate this agreement within 10 accordance with its terms by other party without fau will immediately notify the appropriate health autho	days of written notice in the event of substantial failure to perform in lt of the terminating party. If this agreement is terminated, the contractor rity.
t	LIMIT OF LIABILTY The Contractor will not be liable for indirect, consect theory. In no event shall the Contractor's liability for agreement.	quential, incidental or punitive damages, whether in contract or any other r direct damages exceed the price for the services described in this
1	Daywald #	
	Permit #	
7	The effective date of this initial maintenance agre	eement shall be the date the license to operate is issued.
(Client	Contractor
	760 Lookout Canyon LLC.	David Winters Septics LLC.
	Name	─ 사고 영화 중에 가입니다.
	760 Lookout Dr.	1550 Oak Meadows
!	Address	
	Canyon Lake, TX 78133	Canyon Lake, Texas 78133
City/	Canyon Lake, TX 78133 State/Zip Code	Canyon Lake, Texas 78133
City/		1
City/	State/Zip Code	
City/	State/Zip Code 830-227-5009	1

Signature of Client

Maintenance Provider #-MP0001686

BSICON & SE Ca.C. tion	
Efrain Gallegos Date Performed: _	/

Page 1	(Soil	&	Site	Eval	luat	ion)
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(Signature of person performing evaluation)

Page 1 (Soil	& Site Eval	aation	Gallegos 5 9:52:55 AM	Oate Performed:	/
Property Own	ner:	03/13/2023	9.92.99 AIVI	_	
oorings or dug p	IENTS: t two soil excava its must be show	tions must be performed on the on the site drawing. For su	he site, at opposite ends ibsurface disposal, soil e	valuations must be p	osal area. Locations of soil performed to a depth of at
		lentify any restrictive features			
Soil Boring Number:					
Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.			,		
2 FT.					
3 FT.					
4 FT.					
5 FT.					
Soil Boring Number: Depth (Feet)	Texture Class	Gravel Analysis (If Applicable)	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
1 FT.					
2 FT. 3 FT.					
4 FT.					
5 FT.					
Presence of 10 Presence of up Presence of ac Existing or pr	oposed water	zone			 ☐ Yes ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No
Ground Slope I certify that tability.		Ethis report are based on	my field observation	ns and are accura	

(Date)

Registration Number and Type

GW Septic Designs



On-Site Sewage Facility Application and Design

Prepared By:
Garrett R. Winters
Registered Professional Sanitarian
R.S# <u>5213</u>



Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com



Owner/Site Location

Owner/Builder: 730 Lookout LLC.

Address: 760 Lookout Dr. Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

Lot: 263

LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10-foot setback from all water lines and 5-foot from property lines.

This design was performed in conformance with Chapter 285 of the Texas Commission on Environmental Quality. I have performed a thorough site visit of the proposed lot as a Professional Registered Sanitarian and Site Evaluator in accordance with Chapter 285, Subchapter D, regarding Recharge Features, of the Texas Commission on Environmental Quality

System Summary

This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality.

- 600gpd Aerobic DRIP treatment unit
- Control Dosing Timer
- 20gpm submersible effluent pump
- Aerator
- SCH40 PVC Sewer line
- 1" purple PVC SCH40 supply/return manifold
- NETAFIM Arkal 100-micron disk filter
- Pressure Gauge
- 40PSI pressure regulator Model PMR40MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connections
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: SINGLE FAMILY RESIDENCE (1430SF) + 1 BEDROOM CASITA (270SF) COMBINED 1700SF

of Bedrooms: 4

Wastewater Usage Rate: 300GPD

Application Rate: 0.2

Application Area Required: 1,500SF

Actual Application Area: 1,626SF (NEW SECTION 270SF TO BE ADDED)

System Components

Pretreatment Tank: 500gal Pump Tank: 800gal Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 100gal





Potable Water Lines

Potable water lines must be at a minimum distance of 10 feet from OSSF components. If a water line is within 10 feet, it must be sleeved with 2" SCH40 PVC Pipe in order to provide equivalent protection of a 10' separation in compliance with TAC chapter 290, Subchapter D, Rules for Public Drinking Water Systems.

Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from house-to-tank and tank-to-drain field must be bedded with class Ib, II, or III soils containing less than 30% gravel. The bottom of the excavation for the tank shall be level and free of large rocks/debris, the tanks shall then be bedded with a 4"-6" layer of sand, sandy loam, 3/4 dust or pea gravel. All openings in the tank are to be sealed to prevent the escape of wastewater. For all OSSF's permitted on or after September 1, 2023, 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. 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. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions. Acceptable protective measures include: a padlock and a cover that can be removed with tools.

LANDSCAPING

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection. The native soil in the proposed drip field is to be scarified, the location of an individual sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding/seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. The drip field shall then either be seeded and covered with Curlex or sodded.

As the septic designer for this project, responsibility is limited to the design and layout of the septic system based on the conditions at the time of design. There can be no liability for any drainage issues or system performance problems arising from construction activities or modifications made by contractors or other parties after the design has been finalized. It is essential for all parties to consult with qualified professionals before making changes that could impact on the system.





Maintenance Contract

For any OSSF with a pump, the installer shall provide the Designated Representative with proof of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Maintenance & Operations

Water Conservation: Proper water management is essential to prevent septic system failure. To promote water efficiency, the use of low-flow toilets (1.6 gallons per flush or less) and water-saving showerheads and faucets is mandatory. Additionally, any leaking fixtures should be promptly repaired or replaced to ensure optimal system performance.

Garbage Disposal: The use of a garbage disposal is discouraged, as it increases the presence of fats, grease, and floating solids within the septic tank, which can clog the system's lines and disrupt normal operation.

Septic Tank Maintenance: Septic tanks require regular pumping to function effectively. It is recommended that tanks be pumped annually by a licensed pumping service. In the event of an alarm condition, discontinue use of the system until the pumping chamber is serviced, and a qualified maintenance provider or licensed installer addresses the necessary repairs.

Appropriate Waste Disposal: The system is designed exclusively for treating and disposing of domestic wastewater. The disposal of products such as commercial enzymes, yeast, or water softener backflush through the system is prohibited, as they may interfere with the treatment and disposal processes.

Vegetation and Drain Field Maintenance: The presence of vegetation on the drain field is crucial for system functionality. Erosion control measures should be applied immediately to disturbed or imported soils upon system completion to minimize erosion. Ground cover must be maintained, as it supports plant transpiration and stabilizes the soil. If vegetation dies, it should be promptly replaced to maintain

system efficiency. Any settling of the soil that causes ponding or surface water channeling should be addressed by replacing the material with quality sandy loam, which should be compacted and revegetated. Proper drainage and maintenance of vegetation prevent the formation of furrows and ensure the long-term viability of the drain field. Berms, swales, and retaining walls originally designed for the system must be preserved. The final landscaping must not interfere with the protection of the disposal fields or septic tanks. It is important to note that clay-backed sod is not recommended for this type of drain field. Furthermore, no structures (such as sidewalks, patios, or decks) should be placed over the disposal fields, and no traffic should be allowed over any components of the septic system.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

SOSIONAL SATURATION P. S.

GARRETT R. WINTERS



109/16/2025 teaching and intenance: Regular flushing under full system pressure is vital for the proper operation and longevity of the system. Over time, biomat can accumulate in dripper lines and emitters, leading to clogs. Frequent flushing helps to dislodge the biomat and reduce debris buildup. Dripper lines and filters should be cleaned on a routine basis. If the lines become sluggish or filters frequently clog, it may be necessary to install a larger filter or an automatic backwashing system. It is important to monitor the pressure within the dripper lines and ensure the pressure regulator valve is properly adjusted. If a flow meter is installed, check the flow rates regularly. Any adjustments or maintenance should be performed in consultation with your maintenance provider. Routine inspections are required and will be conducted by your installer or maintenance provider for the first two years. After the two-year maintenance period, it will be the homeowner's responsibility to engage a maintenance provider for continued scheduled upkeep of the system.

Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System

A 3- or 4-inch SCH-40 pipe discharges from the residence into an Aquaklear AKA600CA aerobic treatment plant (600 gpd), which includes a 500-gallon pretreatment tank and an 800-gallon pump chamber. A threaded union will be installed in the pump tank on the supply manifold, and a pressure regulator will be set to maintain a pressure of 40psi. The pump chamber houses a 0.5 HP Franklin C1-Series-20XC1-05P4-2W115 submersible well pump (or equivalent). Distribution is facilitated through a self-flushing 100-micron Arkal Disk filter and then through a 1-inch SCH-40 manifold to a minimum of 1,626 square feet of drip tubing field. This field will use Netifim Bioline drip lines, spaced approximately two feet apart, with 0.61 gph emitters set every two feet, as per the attached schematic. A 1-inch SCH-40 return line is installed to periodically flush the system. Solids collected in the disk filter will be flushed back to the pretreatment tank during each cycle. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower areas of the field. The field area will be scarified and built up with 4 INCHES of imported Type II or Type III soil (not sand) and capped with 6 inches. The drip field will then be seeded and covered with Curlex or sodded.



The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

OSSF INFORMATION FLOOD PLAIN: AFTER CAREFUL EXAMINATION - STRUCTURE: HOME (1430SF) + 1 BED CASITA (270F AND STUDY OF AVAILABLE DATA (INCLUDING - BEDROOMS: 4 FEMA PANEL ZONE X (AREA OF MINIMAL - DAILY WASTEFLOW: 300GPD FLOOD HAZARD) I HAVE DETERMINED, TO - TANK MANUFACTURER: AQUAKLEAKA600CA THE BEST OF MY ABILITY, THAT NEITHER THE NOTE - MINIMUM DRIP FIELD COVERAGE: 1500SF WATER LINE TO BE SLEEVED IN SCH40 HOUSE NOR THE SEPTIC IS LOCATED WITHIN - ACTUAL COVERAGE AREA: 1626SF PIPE WHERE IT IS WITHIN 10' OF THE THE 100 YEAR FLOOD PLAIN. SEWER LINE. SLEEVING THE WATER LINE WILL PROVIDE EQUIVALENT PROTECTION TO THE SETBACK REQUIREMENTS IN TAC285 CONCERNING WATER LINES. **Efrain Gallegos** LIGHTHOUSEDR 09/16/2025 8:35:21 AM DRIP FIELD LINE LENGTH WATER METER 18 1430SF 6FT OSSF SETBACK 3BR 18 240GPD 17 17 TH1 - PERIQDIC 16 FLUSHENTRY 16 NEW SECTION OF DRIP FIELD 15 TO BE ADDED 000 15 10 135LF 22 270SF 12 22 (EXISITNG PERMIT# 118496) 13 20 26 LINES AT 20 14 **VARIOUS LENGTHS NOTE** 15 17 SHOWN (402LF) AEROBIC TREATMENT UNIT TO BE 16 BURIED AT A DEPTH TO ALLOW FOR 12" 17 14 OF SOIL BETWEEN TOP OF THE WATER LINE 18 14 TO BE SLEEVED AEROBIC TREATMENT UNIT AND THE 1 BED CASITA 19 13 W/ 2" SCH40 PVC **BOTTOM THE DRIP TUBING** WHEN WITHIN 10' 20 13 FROM DRIP FIELD 12 21 SLEEVE SUPPLY/RETURN MANIFOLD 22 12 THROUGH OVERHEAD EASM'T 23 24 - EXISTING AQUAKLEAR AKA600CA **OVERHEAD EASM'T** 25 PERMIT# 118496 26 TOTAL 402LF (EXISITNG PERMIT# 118496) - 12 LINES @ 23FT 276LF 1 BEDROOM CASITA IS TO BE USED BY MEMBERS OF THE SAME SINGLE FAMILY OF 1430SF RESIDENCE PREPARED BY: GARRETT R. WINTERS DATE DESCRIPTION ADDRESS: 760 Lookout Dr.

R.S #5213

OWNER: 730 Lookout LLC.

Canyon Lake, TX 78133

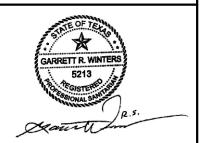
SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263



SCALE:1"- 20'

DATE: 9/15/2025



NOTES

.25" FALL PER 1'

RETURN LINES

AND AIR

STRUCTURE TO TANK

ALL POTABLE WATER LINES SHALL BE A

MINIMUM OF 10 FEET FROM ANY PART OF

USE 3" OR 4" SCH40 PIPE TO CONNECT

NO VEHICLE TRAFFIC IS TO BE ON ANY

PART OF THE DISPOSAL AREA SYSTEM SHALL INCLUDE AUDIO AND

CLEANED WITH THE APPROPRIATE

WITH THE MANUFACTURER'S

RECOMMENDATION

SOLVENT AND GLUED IN ACCORDANCE

ONLY GOOD QUALITY SANDY LOAM SHALL

BE APPLIED OVER THE DISPOSAL FIELDS.

CLASS IV CLAY IS UNACCEPTABLE AND

WILL CAUSE SYSTEM FAILURE. SANDY

LOAM SHALL BE DEFINED AS SHOWN IN

CLASSIFICATIONS) OF THE RULES AND

VERIFYING THE QUALITY OF EACH LOAD OF

SHOULD NOT BE ALLOWED TO FLOW OVER

DIVERSION BERMS, SWALES AND/OR RAIN

NECESSARY TO PREVENT SUCH RUNOFF

SPECIFICATIONS NOTED IN THESE PLANS.

ALTERATIONS TO THE SYSTEM BY THE

LANDSCAPING, DRAINAGE, BUILDING

AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE

SOLE RESPONSIBILITY OF THE OWNER

THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE

ONLY AND SHOULD NOT BE UTILIZED OR

ACCURATELY REPRESENT THE LAYOUT

AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY

BOUNDARIES FOR REGULATORY AND OPERATIONAL COMPLIANCE.

CONSTRUCTED FOR SURVEYING

PURPOSES. ITS PURPOSE IS TO

OWNER, INCLUDING BUT NOT LIMITED TO

TABLE VI (USDA SOIL TEXTURAL

REGULATIONS OF THE TCEQ. THE

INSTALLER IS RESPONSIBLE FOR

LOAM PLACED ON THE SYSTEM.

STORM WATER (RAINFALL RUNOFF)

THE DISPOSAL FIELDS OR THE TANKS.

GUTTERS SHOULD BE INSTALLED AS

THIS DISPOSAL SYSTEM HAS BEEN

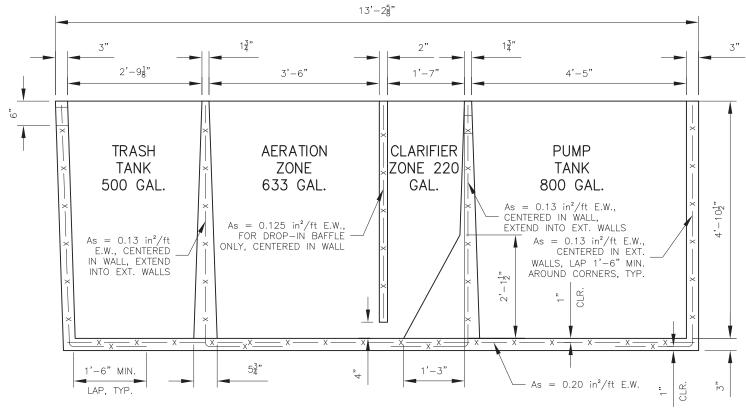
DESIGNED TO OPERATE PROPERLY AT

TANK SEWER PIPE MUST HAVE AT MINIMUM

VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND

VISUAL ALARMS TO INDICATE HIGH WATER

ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE, ALL JOINTS SHALL BE



REINFORCING SECTION

PUMP FLOAT SETTINGS FOR: 300GPD

Volume	800.0	gallons		
Water Depth	50.5	inches		
Volume / Vertical Inch	15.84	gal/in		
Min. Reserve Volume	1/3	of Q	100	gal/day
Pump OFF	10	inches =	158.4	gallons
Pump ON	12	inches =	31.7	gallons
High Water ALARM	32	inches =	316.8	gallons
RESERVE	50.5	inches =	293.1	gallons



			PREPARED F	OR:	
				DAVID WINTERS SE P.O. BOX 19 RINF BRANCH, TX	5
REV.NO.	DATE	REVISION			
PREPARED	BY:		 DATE: 09/20/2021 SCALE: N.T.S.	SHEET TITLE: REINFORCING SECTION	DRWN BY: C(

SPECIALTY PRECAST CONCRETE ENGINEERS
860 HOOPER ROAD, ENDWELL, NY 13760-1564
PHONE(607)231-6600 FAX(607)231-6650

AQUAKLEAR
WASTEWATER TREATMENT SYSTEM
MODEL AKA600CA

CCFH

CONTRACTOR: DWG. L.D. RS-02
DELTA PROJ. NO.: 2021.750.001 SHT. NO. 2 OF 3



BIOLINE® DRIPLINE

THE WORLD'S MOST ADVANCED CONTINUOUS SELF-CLEANING, PRESSURE COMPENSATING DRIPLINE SPECIFICALLY DESIGNED FOR WASTEWATER

CROSS SECTION OF BIOLINE DRIPLINE

Bioline dripper inlets are positioned in the center of flow where water is the cleanest





PRODUCT ADVANTAGES

- Pressure compensation all drippers deliver equal flow, even on sloped or rolling terrain.
- Unique flow path Turbonet technology provides more control of water and a high resistance to clogging.
- Continuous self-flushing dripper design flushes debris, as it is detected - throughout operation, not just at the beginning or end of a cycle. Ensures uninterrupted dripper operation.
- Single hole dripper outlet from tubing:
 - Better protection against root intrusion
 - Allows the dripline to be used in subsurface applications without need for chemical protection
- Drippers capture water flow from the center of the tubing ensures that only the cleanest flow enters the dripper.
- Built-in physical root barrier drippers are protected from root intrusion without the need for chemical protection. Water exits dripper in one location while exiting the tubing in another.
- Three dripper flow rates provides the broadest range of flow rates available. Allows the designer to match the dripline to any soil or slope condition.
- Bioline tubing is completely wrapped in purple easily identifying it for non-potable use, regardless of how the tubing is installed.
- Anti-bacterial-impregnated drippers prevents buildup of microbial slime.
- Can be used subsurface Bioline can be installed on-surface, under cover or subsurface.
- No special storage requirements does not degrade if stored outdoors.
- Techfilter compatible an optional level of protection, provides a limited lifetime warranty against root intrusion.

APPLICATIONS

- Typically installed following a treatment process
- Can be used with domestic septic tank effluent with proper design, filtration and operation
- Reuse applications including municipally treated effluent designated for irrigation and other disinfected and non-disinfected water sources.

SPECIFICATIONS

- Dripper flow rates: 0.4, 0.6 or 0.9 GPH
- Dripper spacings: 12", 18" or 24" dripper spacings and blank tubing
- Pressure compensation range: 7 to 58 psi (stainless steel clamps recommended above 50 psi)
- Maximum recommended system pressure:
 50 nsi
- Tubing diameter: 0.66" OD, 0.57" ID
- Tubing color: Purple color indicates nonpotable
- Coil lengths: 500' or 1,000' (Blank tubing in 250')
- Recommended filtration: 120 mesh
- Bending radius: 7"
- UV resistant
- Tubing material: Linear low-density polyethylene

Additional spacing and pipe sizes available by special order. Please contact Netafim USA Customer Service for details.

BIOLINE DRIPLINE

MAXIMUM LENGTH OF A SINGLE LATERAL WITH 3.0 fps Flush velocity ADDITIONAL FLOW OF 2.3 GPM REQUIRED PER LATERAL TO ACHIEVE 3 fps DRIPPER SPACING DRIPPER FLOW RATE (GPH) | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | 0.9 GPH | 0.4 GPH | 0.6 GPH | Flow per 100' (GPM / GPH) 1.53/92 0.77/46 0.67/40 1.02/61 0.44/26.67 0.68/41 1.02/61 0.51/31

Lateral lengths are based on flows allowing for a 3 fps flushing/scouring velocity

MAX	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 2.5 fps FLUSH VELOCITY											
ADD	ADDITIONAL FLOW OF 2.0 GPM REQUIRED PER LATERAL TO ACHIEVE 2.5 fps											
	DRIPPER SPACING 12" 18" 24"											
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH		
ш	15	128	115	100	172	155	136	205	187	165		
PRESSURE	25	183	161	137	248	220	188	301	268	231		
PRES	35	228	198	166	310	272	229	379	333	283		
NLET	40	248	214	178	338	295	247	413	362	305		
2	45	266	229	190	364	316	263	447	389	327		
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46		

Lateral lengths are based on flows allowing for a 2.5 fps flushing/scouring velocity

	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 20 fps FLUSH VELOCITY ADDITIONAL FLOW OF 1.6 GPM REQUIRED PER LATERAL TO ACHIEVE 2.0 fps										
	DRIPPER SPACING 12" 18" 24"										
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	
ш	15	161	141	119	217	191	164	263	233	201	
PRESSURE	25	221	190	157	302	261	218	369	321	270	
J. SE	35	269	229	187	370	316	260	455	391	324	
INLET	40	290	246	200	399	340	278	493	421	347	
2	45	310	261	212	427	362	296	527	449	369	
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46	

Lateral lengths are based on flows allowing for a 2 fps flushing/scouring velocity

	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.5 fps Flush Velocity											
ADD	ADDITIONAL FLOW OF 1.2 GPM REQUIRED PER LATERAL TO ACHIEVE 1.5 fps											
	DRIPPER SPACING 12" 18" 24"											
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH		
щ	15	201	171	140	275	235	194	337	289	241		
PRESSURE	25	266	222	179	366	308	251	453	383	313		
E S	35	316	262	210	437	365	295	543	455	369		
INLET	40	337	280	223	469	391	313	583	487	393		
2	45	358	296	235	497	413	331	619	517	415		
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46		

Lateral lengths are based on flows allowing for a 1.5 fps flushing/scouring velocity

MAX	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 1.0 fps FLUSH VELOCITY											
ADD	ADDITIONAL FLOW OF 0.8 GPM REQUIRED PER LATERAL TO ACHIEVE 1.0 fps											
DRIPPER SPACING 12" 18" 24"												
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH		
ш	15	248	205	163	344	285	228	427	355	285		
SUR	25	315	258	203	440	361	286	549	453	359		
PRESSURE	35	367	299	234	513	419	331	643	527	417		
NLET	40	389	316	248	545	445	350	683	559	441		
Z	45	409	332	260	574	468	367	721	589	463		
Flow	Flow per 100' (GPM / GPH) 0.67/40 1.02/61 1.53/92 0.44/26.67 0.68/41 1.02/61 0.34/20 0.51/31 0.77/46											

Lateral lengths are based on flows allowing for a 1 fps flushing/scouring velocity

MAX	MAXIMUM LENGTH OF A SINGLE LATERAL WITH 0.5 fps Flush velocity										
ADD	ADDITIONAL FLOW OF 0.4 GPM REQUIRED PER LATERAL TO ACHIEVE 0.5 fps										
	DRIPPER SPACING 12" 18" 24"										
DRIP	PER FLOW RATE (GPH)	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	0.4 GPH	0.6 GPH	0.9 GPH	
ш	15	301	242	188	422	341	265	531	429	335	
PRESSURE	25	369	296	228	520	418	323	655	527	409	
PRES	35	421	337	260	595	476	368	749	603	467	
INLET	40	443	354	273	626	501	387	790	635	491	
2	45	464	371	285	656	524	404	829	665	513	
Flow	per 100' (GPM / GPH)	0.67/40	1.02/61	1.53/92	0.44/26.67	0.68/41	1.02/61	0.34/20	0.51/31	0.77/46	

Lateral lengths are based on flows allowing for a 0.5 fps flushing/scouring velocity

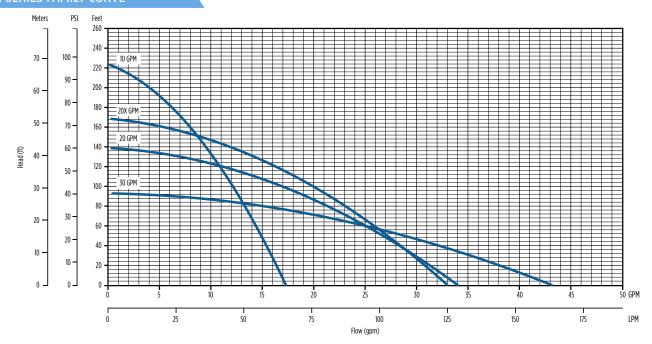
Netafim recommends flushing velocities capable of breaking free any accumulated bioslimes and debris in the piping network.

- Notes: 1. Refer to local regulations for information on flushing velocities that may be written into codes.
 - 2. Netafim does not endorse a specific flushing velocity.
 - 3. Flushing velocities should be determined based on regulations, quality of effluent, and type of flushing control.
 - Using a flushing velocity less than 1 fps does not provide turbulent flow as defined by Reynolds Number.
 - Higher flushing velocities provide more aggressive flushing.





C1 SERIES FAMILY CURVE



FEATURES

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic discharge head design resists breakage during installation and operation
- Standard backflow prevention through a built-in, but removable, check valve.
- Single shell housing design provides a compact unit while ensuring cool and quiet operation
- Hydraulic components molded from high quality engineered thermoplastics
- Optimized hydraulic design allows for increased performance and decreased power usage
- All metal components are made of high grade stainless steel for corrosion resistance
- Available with a high quality 115 V or 230 V, 1/2 hp motor
- Fluid flows of 10, 20, and 30 gpm, with a max shut-off pressure of over 100 psi
- Heavy-duty 300 V 10 foot SJ00W jacketed lead

APPLICATIONS

- Gray water pumping
- Filtered effluent service water pumping
- Water reclamation projects such as pumping from rain catchment basins
- Aeration and other foundation or pond applications
- Agriculture and livestock water pumping

ORDERING INFORMATION

GPM	HP	Volts	Stage	Model No.	Order No.	Length (in)	Weight (lbs)
10		115	6	10C1-05P4-2W115	90301005	26	17
10		230	6	10C1-05P4-2W230	90301010	26	17
20		115	4	20C1-05P4-2W115	90302005	25	16
20	1/2	230	4	20C1-05P4-2W230	90302010	25	16
20X	1/2	115	5	20XC1-05P4-2W115	90302015	26	17
201		230	5	20XC1-05P4-2W230	90302020	26	17
30		115	3	30C1-05P4-2W115	90303005	25	16
30		230	3	30C1-05P4-2W230	90303010	25	16

NOTE: All units have 10 foot long SJ00W leads





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 Model Numbers Chart on page 2 for outlet flow based on the model. 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
¾-inch Female National Pipe Thread (FNPT)	3/4-inch Female National Pipe Thread (FNPT)
1-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)

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.

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

* Please consult the factory for applications outside of recommended guidelines.

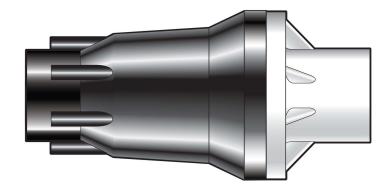
Physical

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)





PMR-MF

PRESSURE-MASTER REGULATOR - MEDIUM FLOW

Model Numbers

Model #	Flow Range	Preset Operating Pressure	Maximum Inlet Pressure
PMR06MF3F3FV (3/4" F x 3/4" F NPT) or PMR06MF4F4FV (1" F x 1" F NPT) or PMR06MF4F3FV (1" F x 3/4" F NPT)	4 - 16 GPM (909 - 3634 L/hr)	6 PSI (0.41 bar)	80 psi (5.51 bar)
PMR10MF3F3FV (3/4" F x 3/4" F NPT) or PMR10MF4F4FV (1" F x 1" F NPT) or PMR10MF4F3FV (1" F x 3/4" F NPT)	4 - 16 GPM (909 - 3634 L/hr)	10 PSI (0.69 bar)	90 psi (6.20 bar)
PMR12MF3F3FV (3/4" F x 3/4" F NPT) or PMR12MF4F4FV (1" F x 1" F NPT) or PMR12MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	12 PSI (0.83 bar)	90 psi (6.20 bar)
PMR15MF3F3FV (3/4" F x 3/4" F NPT) or PMR15MF4F4FV (1" F x 1" F NPT) or PMR15MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	15 PSI (1.03 bar)	95 psi (6.55 bar)
PMR20MF3F3FV (3/4" F x 3/4" F NPT) or PMR20MF4F4FV (1" F x 1" F NPT) or PMR20MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	20 PSI (1.38 bar)	100 psi (6.89 bar)
PMR25MF3F3FV (3/4" F x 3/4" F NPT) or PMR25MF4F4FV (1" F x 1" F NPT) or PMR25MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	25 PSI (1.72 bar)	105 psi (7.24 bar)
PMR30MF3F3FV (3/4" F x 3/4" F NPT) or PMR30MF4F4FV (1" F x 1" F NPT) or PMR30MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	30 PSI (2.07 bar)	110 psi (7.58 bar)
PMR35MF3F3FV (3/4" F x 3/4" F NPT) or PMR35MF4F4FV (1" F x 1" F NPT) or PMR35MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	35 PSI (2.41 bar)	115 psi (7.93 bar)
PMR40MF3F3FV (3/4" F x 3/4" F NPT) or PMR40MF4F4FV (1" F x 1" F NPT) or PMR40MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	40 PSI (2.76 bar)	120 psi (8.27 bar)
PMR50MF3F3FV (3/4" F x 3/4" F NPT) or PMR50MF4F4FV (1" F x 1" F NPT) or PMR50MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	50 PSI (3.45 bar)	130 psi (8.96 bar)
PMR60MF3F3FV (3/4" F x 3/4" F NPT) or PMR60MF4F4FV (1" F x 1" F NPT) or PMR60MF4F3FV (1" F x 3/4" F NPT)	2 - 20 GPM (454 - 4542 L/hr)	60 PSI (4.14 bar)	140 psi (9.65 bar)



Arkal 1½" Super Filter

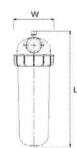
Catalog No. 1152 0___

Features

- A "T" shaped filter with two 1½" male threads.
- A "T" volume filter for in-line installation on 1½" 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.
- A sealing spring keeps the discs compressed.
- Screw-on filter cover.
- Filter discs are available in various filtration grades.

Technical Data

	1½" BSPT (male)	1½" NPT (male)
Inlet/outlet diameter	40 mm – nominal diameter	
	48.2 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	
Maximum flow rate	12 m³/h (2.22 l/sec)	52.8 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	350 mm	13 25/32"
Filter width W	130 mm	5 3/32"
Distance between end connections A	etween end connections A 200 mm	
Weight	1.51 kg	3.32 lbs.
Maximum temperature	70° C	158° F
pH	5-11	5-11



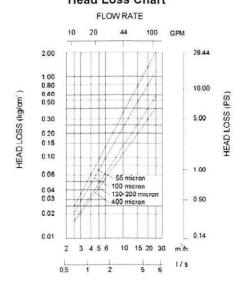
Filtration Grades

Blue	(400 micron / 40 mesh)
Yellow	(200 micron / 80 mesh)

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

Green (55 micron)

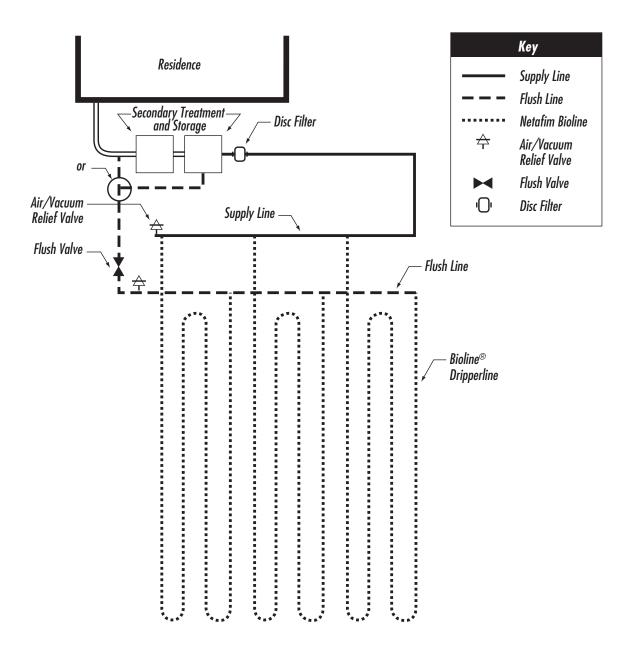
Head Loss Chart



SINGLE TRENCH LAYOUT

Rectangular field with supply and flush manifolds on the same side and in the same trench:

- Locate the supply and flush manifolds in the same trench
- Dripperlines are looped at the halfway point of their run and returned to flush manifold
- Bioline® laterals should never exceed recommended lengths



Comal County Web Map



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

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

8

THAT KATHERINE DENISE KELLY, Independent Executor of Estate of RICHARD SPENCER, JR., Deceased, 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 760 LOOKOUT DRIVE, LLC, a Texas Limited Liability Company, whose address is 156 Canyon Bend, Canyon Lake, Texas 78133, 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 said Grantee the following described property situated in Comal County, Texas, to-wit:

Lot 263, CANYON LAKE HILLS, UNIT NO. 1, situated in Comal County, Texas, according to map or plat recorded in Volume 2, Page 17, 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.

TO HAVE AND TO HOLD the above described premises, together with, all and singular, the rights and appurtenances thereto in anywise belonging unto the said Grantee, Grantee's heirs, executors, administrators, successors, or assigns forever.

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 $\frac{3}{100}$ day of **December**, 2024, $\frac{3}{100}$ and $\frac{3}{100}$

KATHERINE DENISE KELLY, Independent Executor of Estate of RICHARD SPENCER,

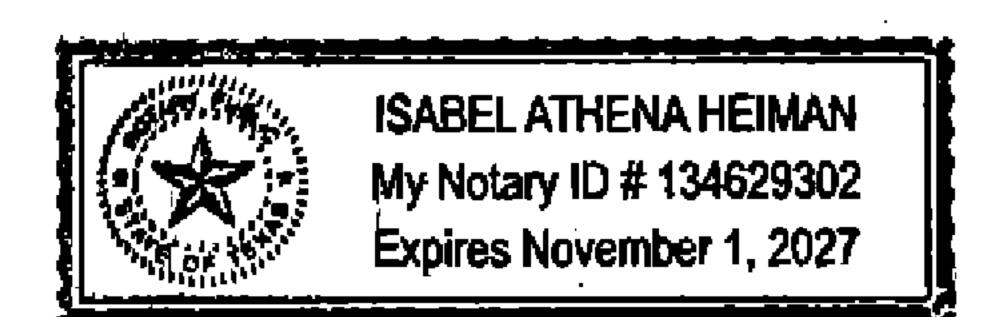
JR., Deceased

STATE OF TEXAS COUNTY OF Brazoria

This instrument was acknowledged before me on this the $\frac{-5}{2}$ day of December, 2024, by KATHERINE DENISE KELLY, Independent Executor of Estate of RICHARD SPENCER, JR., Deceased.

Notary Public, State of Texas

1742.deeds New Braunfels Title Co (LB) GF #NB-4401-24



Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 12/04/2024 11:57:47 AM LAURA 2 Pages(s)

202406036876 Bobble Koepp





ON-SITE SEWAGE FACILITY APPLICATION

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

Date		Permit Number 119011		
1. APPLICANT / AGENT INFORMATION				
Owner Name 730 Lookout Dr. LLC.	Agent Name	David Winters Septics LLC.		
Mailing Address	Agent Address	A		
City, State, Zip		Spring Branch, TX 78070		
Phone #	Phone #	830-935-2477		
Email	hai	Winten septics@gvtc.com		
2. LOCATION				
Subdivision Name Canyon Lake Hills		Unit 1 Lot 263 Block		
Survey Name / Abstract Number		Acreage		
Address 760 Lookout Dr.	City Canyon Lake			
3. TYPE OF DEVELOPMENT				
Single Family Residential ■				
Type of Construction (House, Mobile, RV, Etc.) Hou	use + Office with s	sink		
Number of Bedrooms 3				
Indicate Sq Ft of Living Area 1430 Sq Ft. Main H	louse + 270 Sq. F	t. Office =1700 Sq. Ft.		
Non-Single Family Residential		·		
(Planning materials must show adequate land area for doub	ling the required land nee	eded for treatment units and disposal area)		
Type of Facility				
Offices, Factories, Churches, Schools, Parks, Etc Ir	ndicate Number Of Occ	cupants		
Restaurants, Lounges, Theaters - Indicate Number of	Seats			
Hotel, Motel, Hospital, Nursing Home - Indicate Numb	per of Beds			
Travel Trailer/RV Parks - Indicate Number of Spaces				
Miscellaneous				
Estimated Cost of Construction: \$ 150,000.00	(Structure Only)			
Is any portion of the proposed OSSF located in the Unite	d States Army Corps of	f 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	inwater			
4. SIGNATURE OF OWNER				
By signing this application, I certify that: - The completed application and all additional information submitted facts. I certify that I am the property owner or I possess the approperty.	ed does not contain any fa opriate land rights necess	alse information and does not conceal any material sary to make the permitted improvements on said		
property. - Authorization is hereby given to the permitting authority and desired.	gnated agents to enter up	oon the above described property for the purpose of		
site/soil evaluation and inspection of private sewage facilities - I understand that a permit of authorization to construct will not be by the Comal County Flood Damage Prevention Order.				
- I affirmatively consent to the online posting/public release of my				
Lester Collinsworth	9/9/202	25 Page 1 of 2		
Signature of Owner	Date	Revised January 2021		

OSSF Soil & Site Evaluation Page 1 (Soil & Site Evaluation) Date Per ormed: ____/___/ Property Owner: Site Location: **REOUIREMENTS:** At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Locations of soil borings or dug pits must be shown on the site drawing. For subsurface disposal, soil evaluations must be performed to a depth of at least two feet below the proposed disposal field excavation depth. For surface disposal, the surface horizon must be evaluated. Describe each soil horizon and identify any restrictive features on this form. Indicate depths where features appear. **Soil Boring Number: Depth Texture Gravel Analysis** Restrictive **Observations Drainage** (Feet) (If Applicable) (Mottles/ Horizon Class Water Table) 1 FT. 2 FT. 3 FT. 4 FT. 5 FT. **Soil Boring Number: Gravel Analysis Depth Texture Drainage** Restrictive **Observations** (Feet) (If Applicable) (Mottles/ **Horizon** Class Water Table) 1 FT. 2 FT. 3 FT. 4 FT. 5 FT. FEATURES OF SITE AREA Presence of 100 year flood zone \square Yes \square No Presence of upper water shed \square Yes \square No Presence of adjacent ponds, streams, water impoundments ☐ Yes ☐ No Existing or proposed water well in nearby area (within 150 feet) ☐ Yes ☐ No Ground Slope I certify that the findings of this report are based on my field observations and are accurate to the best of my ability.

(Date)

Registration Number and Type

(Signature of person performing evaluation)

Owner/Site Location

Owner/Builder: SUNNY CIRCLE HOMES

Address: 760 Lookout Dr. Canyon Lake, TX 78133

Subdivision: CANYON LAKE HILLS 1

Lot: 263



LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10-foot setback from all water lines and 5-foot from property lines.

This design was performed in conformance with Chapter 285 of the Texas Commission on Environmental Quality. I have performed a thorough site visit of the proposed lot as a Professional Registered Sanitarian and Site Evaluator in accordance with Chapter 285, Subchapter D, regarding Recharge Features, of the Texas Commission on Environmental Quality

System Summary

This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality.

- 600gpd Aerobic DRIP treatment unit
- Control Dosing Timer
- 20gpm submersible effluent pump
- Aerator
- SCH40 PVC Sewer line
- 1" purple PVC SCH40 supply/return manifold
- NETAFIM Arkal 100-micron disk filter
- Pressure Gauge
- 40PSI pressure regulator Model PMR40MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connections
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: SINGLE FAMILY RESIDENCE (1430SF) + OFFICE NO BR (270SF) COMBINED 1700SF

of Bedrooms: 4

Wastewater Usage Rate: 300GPD

Application Rate: 0.2

Application Area Required: 1,500SF

Actual Application Area: 1,626SF (NEW SECTION 270SF TO BE ADDED)

System Components

Pretreatment Tank: 500gal Pump Tank: 800gal Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 100gal



Potable Water Lines

Potable water lines must be at a minimum distance feet, it must be sleeved with 2" SCH40 PVC Pipe in compliance with TAC chapter 290, Subchapter D, Ru



Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from house-to-tank and tank-to-drain field must be bedded with class Ib, II, or III soils containing less than 30% gravel. The bottom of the excavation for the tank shall be level and free of large rocks/debris, the tanks shall then be bedded with a 4"-6" layer of sand, sandy loam, 3/4 dust or pea gravel. All openings in the tank are to be sealed to prevent the escape of wastewater. For all OSSF's permitted on or after September 1, 2023, 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. 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. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions. Acceptable protective measures include: a padlock and a cover that can be removed with tools.

LANDSCAPING

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection. The native soil in the proposed drip field is to be scarified, the location of an individual sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding/seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. The drip field shall then either be seeded and covered with Curlex or sodded.

As the septic designer for this project, responsibility is limited to the design and layout of the septic system based on the conditions at the time of design. There can be no liability for any drainage issues or system performance problems arising from construction activities or modifications made by contractors or other parties after the design has been finalized. It is essential for all parties to consult with qualified professionals before making changes that could impact on the system.





For any OSSF with a pump, the installer shall provide the languated matter and of an executed two-year full-service maintenance contract as required by the TCEQ. The maintenance company will verify that the system is operating properly and that they will provide on-going maintenance of the installation. The initial contract will be for a minimum of 2 years. A maintenance contract will authorize the Maintenance Company to maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Maintenance & Operations

Water Conservation: Proper water management is essential to prevent septic system failure. To promote water efficiency, the use of low-flow toilets (1.6 gallons per flush or less) and water-saving showerheads and faucets is mandatory. Additionally, any leaking fixtures should be promptly repaired or replaced to ensure optimal system performance.

Garbage Disposal: The use of a garbage disposal is discouraged, as it increases the presence of fats, grease, and floating solids within the septic tank, which can clog the system's lines and disrupt normal operation.

Septic Tank Maintenance: Septic tanks require regular pumping to function effectively. It is recommended that tanks be pumped annually by a licensed pumping service. In the event of an alarm condition, discontinue use of the system until the pumping chamber is serviced, and a qualified maintenance provider or licensed installer addresses the necessary repairs.

Appropriate Waste Disposal: The system is designed exclusively for treating and disposing of domestic wastewater. The disposal of products such as commercial enzymes, yeast, or water softener backflush through the system is prohibited, as they may interfere with the treatment and disposal processes.

Vegetation and Drain Field Maintenance: The presence of vegetation on the drain field is crucial for system functionality. Erosion control measures should be applied immediately to disturbed or imported soils upon system completion to minimize erosion. Ground cover must be maintained, as it supports plant transpiration and stabilizes the soil. If vegetation dies, it should be promptly replaced to maintain

system efficiency. Any settling of the soil that causes ponding or surface water channeling should be addressed by replacing the material with quality sandy loam, which should be compacted and revegetated. Proper drainage and maintenance of vegetation prevent the formation of furrows and ensure the long-term viability of the drain field. Berms, swales, and retaining walls originally designed for the system must be preserved. The final landscaping must not interfere with the protection of the disposal fields or septic tanks. It is important to note that clay-backed sod is not recommended for this type of drain field. Furthermore, no structures (such as sidewalks, patios, or decks) should be placed over the disposal fields, and no traffic should be allowed over any components of the septic system.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

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GARRETT R. WINTERS

System Flushing and Maintenance: Regular flushing unlongevity of the system. Over time, biomat car accumul flushing helps to dislodge the biomat and reduce debris routine basis. If the lines become sluggish or fitters freq automatic backwashing system. It is important to monit

shing under a system preserve with for the proper operation and accumulated drips align and anity as Jesus g to clog. Frequent see debris buildup. Dripper lines and fitters should be cleaned on a ters frequently clog, it may be necessary to install a larger filter or an accompany to the pressure within the dripper lines and a sure the a flow meter is installed, check the flow rates regularly. Any

pressure regulator valve is properly adjusted. If a flow meter is installed, check the flow rates regularly. Any adjustments or maintenance should be performed in consultation with your maintenance provider. Routine inspections are required and will be conducted by your installer or maintenance provider for the first two years. After the two-year maintenance period, it will be the homeowner's responsibility to engage a maintenance provider for continued scheduled upkeep of the system.

Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System

A 3- or 4-inch SCH-40 pipe discharges from the residence into an Aquaklear AKA600CA aerobic treatment plant (600 gpd), which includes a 500-gallon pretreatment tank and an 800-gallon pump chamber. A threaded union will be installed in the pump tank on the supply manifold, and a pressure regulator will be set to maintain a pressure of 40psi. The pump chamber houses a 0.5 HP Franklin C1-Series-20XC1-05P4-2W115 submersible well pump (or equivalent). Distribution is facilitated through a self-flushing 100-micron Arkal Disk filter and then through a 1-inch SCH-40 manifold to a minimum of 1,626 square feet of drip tubing field. This field will use Netifim Bioline drip lines, spaced approximately two feet apart, with 0.61 gph emitters set every two feet, as per the attached schematic. A 1-inch SCH-40 return line is installed to periodically flush the system. Solids collected in the disk filter will be flushed back to the pretreatment tank during each cycle. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower areas of the field. The field area will be scarified and built up with 4 INCHES of imported Type II or Type III soil (not sand) and capped with 6 inches. The drip field will then be seeded and covered with Curlex or sodded.



The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

FLOOD PLAIN: AFTER CAREFUL EXAMINATION AND STUDY OF AVAILABLE DATA (INCLUDING FEMA PANEL ZONE X (AREA OF MINIMAL FLOOD HAZARD) I HAVE DETERMINED, TO THE BEST OF MY ABILITY, THAT NEITHER THE HOUSE NOR THE SEPTIC IS LOCATED WITHIN THE 100 YEAR FLOOD PLAIN.

DRIP FIELD

LENGTH

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402LF

LINE

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TOTAL

NOTE

EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACKFILLED. EXISTING DRAINFIELD TO BE ABANDONED

NOTE

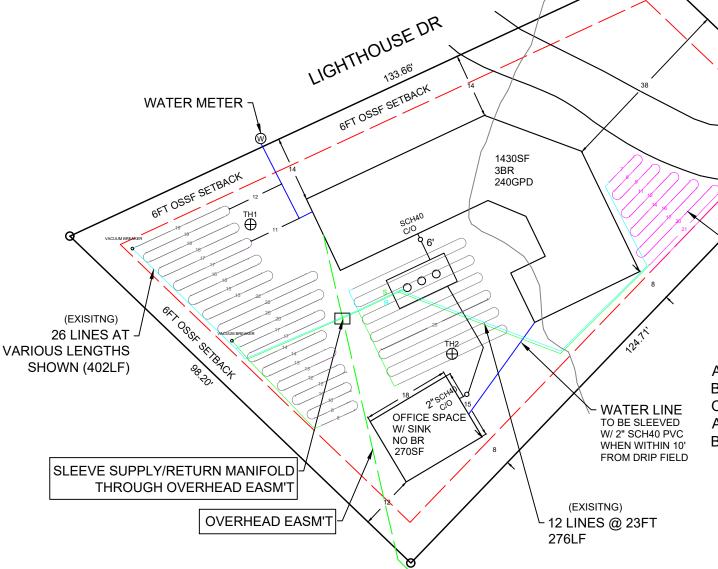
WATER LINE TO BE SLEEVED IN SCH40 PIPE WHERE IT IS WITHIN 10' OF THE SEWER LINE. SLEEVING THE WATER LINE WILL PROVIDE EQUIVALENT PROTECTION TO THE SETBACK REQUIREMENTS IN TAC285 CONCERNING WATER LINES.

OSSF INFORMATION - STRUCTURE: HOME

- STRUCTURE: HOME (1430SF) + OFFICE (270F)
- BEDROOMS: 4
- DAILY WASTEFLOW: 300GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 1500SF
- ACTUAL COVERAGE AREA: 1626SF

NOTES

- ALL POTABLE WATER LINES SHALL BE A
 MINIMUM OF 10 FEET FROM ANY PART OF
 THE OSSE
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
- USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
- VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINES
- NO VEHICLE TRAFFIC IS TO BE ON ANY PART OF THE DISPOSAL AREA
- SYSTEM SHALL INCLUDE AUDIO AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE. ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL FIELDS. CLASS IV CLAY IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF)
 SHOULD NOT BE ALLOWED TO FLOW OVER
 THE DISPOSAL FIELDS OR THE TANKS.
 DIVERSION BERMS, SWALES AND/OR RAIN
 GUTTERS SHOULD BE INSTALLED AS
 NECESSARY TO PREVENT SUCH RUNOFF
- THIS DISPOSAL SYSTEM HAS BEEN
 DESIGNED TO OPERATE PROPERLY AT
 SPECIFICATIONS NOTED IN THESE PLANS.
 ALTERATIONS TO THE SYSTEM BY THE
 OWNER, INCLUDING BUT NOT LIMITED TO
 LANDSCAPING, DRAINAGE, BUILDING
 AND/OR WATER USAGE, MAY CAUSE
 PREMATURE FAILURE AND SHALL BE THE
 SOLE RESPONSIBILITY OF THE OWNER
- THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE ONLY AND SHOULD NOT BE UTILIZED OR CONSTRUCTED FOR SURVEYING PURPOSES. ITS PURPOSE IS TO ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY BOUNDARIES FOR REGULATORY AND OPERATIONAL COMPLIANCE.



NOTE

NEW SECTION OF DRIP FIELD

TO BE ADDED

135LF

270SF

VOID

AEROBIC TREATMENT UNIT TO BE BURIED AT A DEPTH TO ALLOW FOR 12" OF SOIL BETWEEN TOP OF THE AEROBIC TREATMENT UNIT AND THE BOTTOM THE DRIP TUBING



PREPARED BY: GARRETT R. WINTERS

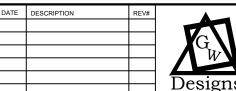
R.S #5213

OWNER: SUNNY CIRCLE HOMES

ADDRESS: 760 Lookout Dr. Canyon Lake, TX 78133

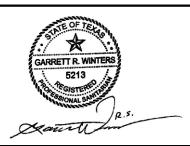
SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263

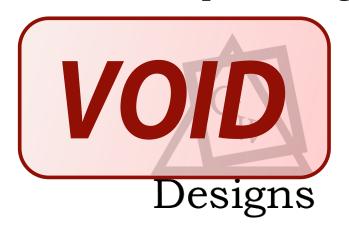


SCALE:1"- 20'

DATE: 9/8/2025



GW Septic Designs



On-Site Sewage Facility Application and Design

Prepared By:
Garrett R. Winters
Registered Professional Sanitarian
R.S# 5213



Contact Information

Phone: (210) 854-2673

Email: Gwintersseptics@gmail.com

Owner/Site Location

Owner/Builder: 730 Lookout Dr. LC.
Address: 760 Lookout Dr. Canyon Lake,
Subdivision: CANYON LAKE HILLS 1

Lot: 263



LOT DESCRIPTION

The proposed method of wastewater treatment is aerobic treatment with Drip irrigation. The sizing of the OSSF was determined as specified in the Texas Commission on Environmental Quality (TCEQ) CHAPTER 285.33 (C)(2). Water saving devices are assumed for the septic system design. This site is not within the 100-Year flood plain (see site plan). Water to the property will be serviced by a public water supply. All parts of the system will maintain at least a 10-foot setback from all water lines and 5-foot from property lines.

This design was performed in conformance with Chapter 285 of the Texas Commission on Environmental Quality. I have performed a thorough site visit of the proposed lot as a Professional Registered Sanitarian and Site Evaluator in accordance with Chapter 285, Subchapter D, regarding Recharge Features, of the Texas Commission on Environmental Quality

System Summary

This design was performed in conformance with Chapter 285 of Texas Commission on Environmental Quality.

- 600gpd Aerobic DRIP treatment unit
- Control Dosing Timer
- 20gpm submersible effluent pump
- Aerator
- SCH40 PVC Sewer line
- 1" purple PVC SCH40 supply/return manifold
- NETAFIM Arkal 100-micron disk filter
- Pressure Gauge
- 40PSI pressure regulator Model PMR40MF
- Vacuum Breakers installed at the highest points of the drip field.
- Spin lock connections
- Drip Tubing (Netafim Bioline)
- Visual and audio alarms monitoring high water and aerator failure placed in a noticeable location.

Wastewater Design Flow

Structure: SINGLE FAMILY RESIDENCE (1430SF) + 1 BEDROOM CASITA (270SF) COMBINED 1700SF

of Bedrooms: 4

Wastewater Usage Rate: 300GPD

Application Rate: 0.2

Application Area Required: 1,500SF

Actual Application Area: 1,626SF (NEW SECTION 270SF TO BE ADDED)

System Components

Pretreatment Tank: 500gal Pump Tank: 800gal Aeration Tank: 600gpd

Pump: C1 20gpm submersible pump (Model no. 20C1-05P4-2W115 or equivalent)

Pump tank reserve minimum: 100gal



Potable Water Lines

Potable water lines must be at a mini num disfeet, it must be sleeved with 2" SCH4) PVC Pip compliance with TAC chapter 290, Supchapter



Electrical Components

All electrical wiring shall conform to the requirements of the National Electric Code (1999) or under any other standards approved by the executive director. Additionally, all external wiring shall be installed in approved, rigid, non-metallic gray code electrical conduit. The conduit shall be buried according to the requirements in the National Electric Code and terminated at a main circuit breaker panel or sub-panel. Connections shall be in approved junction boxes. All electrical components shall have an electrical disconnect within direct vision from the place where the electrical device is being serviced. Electrical disconnects must be weatherproof (approved for outdoor use) and have maintenance lockout provisions.

Installation

A 3" or 4" solid-wall SCH40 or SDR 26 PVC pipe with a minimum downward slope of 1/8 inch per foot will be installed between the tank and house. A 2-way cleanout must be included in the line between the house and tank. All piping from house-to-tank and tank-to-drain field must be bedded with class Ib, II, or III soils containing less than 30% gravel. The bottom of the excavation for the tank shall be level and free of large rocks/debris, the tanks shall then be bedded with a 4"-6" layer of sand, sandy loam, 3/4 dust or pea gravel. All openings in the tank are to be sealed to prevent the escape of wastewater. For all OSSF's permitted on or after September 1, 2023, 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. 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. Risers must be fitted with removable watertight caps and protected against unauthorized intrusions. Acceptable protective measures include: a padlock and a cover that can be removed with tools.

LANDSCAPING

The native vegetation in the distribution area should consist of low-level shrubs, plains grass, bluestem, or Bermuda. The entire area of the drip disposal must be covered with a ground cover such as grass seed or sod prior to the final inspection. The native soil in the proposed drip field is to be scarified, the location of an individual sewage system shall not be in a poorly drained or filled area, or in any area where seasonal flooding/seeping occurs, without prior written approval. Stormwater runoff should not be allowed to flow over the drip field or tanks. Berms, swales and/or rain gutters should be installed by the owner/contractor to minimize erosion and field saturation. If the slope in the drain field area is greater than 30% or is complex, the area is unsuitable for the disposal method, suitable fill shall be brought into the field area to meet this requirement. The drip field shall then either be seeded and covered with Curlex or sodded.

As the septic designer for this project, responsibility is limited to the design and layout of the septic system based on the conditions at the time of design. There can be no liability for any drainage issues or system performance problems arising from construction activities or modifications made by contractors or other parties after the design has been finalized. It is essential for all parties to consult with qualified professionals before making changes that could impact on the system.



Maintenance Contract

For any OSSF with a pump two-year full-service main



with proof of an executed ce company will verify that the installation. The initial e Maintenance Company to

maintain and repair the system as needed. The owner must continuously maintain a signed written contract with a valid maintenance company and shall submit a copy of the contract to the permitting authority at least 30 days prior to the date service will cease.

Maintenance & Operations

Water Conservation: Proper water management is essential to prevent septic system failure. To promote water efficiency, the use of low-flow toilets (1.6 gallons per flush or less) and water-saving showerheads and faucets is mandatory. Additionally, any leaking fixtures should be promptly repaired or replaced to ensure optimal system performance.

Garbage Disposal: The use of a garbage disposal is discouraged, as it increases the presence of fats, grease, and floating solids within the septic tank, which can clog the system's lines and disrupt normal operation.

Septic Tank Maintenance: Septic tanks require regular pumping to function effectively. It is recommended that tanks be pumped annually by a licensed pumping service. In the event of an alarm condition, discontinue use of the system until the pumping chamber is serviced, and a qualified maintenance provider or licensed installer addresses the necessary repairs.

Appropriate Waste Disposal: The system is designed exclusively for treating and disposing of domestic wastewater. The disposal of products such as commercial enzymes, yeast, or water softener backflush through the system is prohibited, as they may interfere with the treatment and disposal processes.

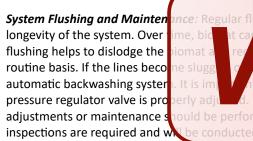
Vegetation and Drain Field Maintenance: The presence of vegetation on the drain field is crucial for system functionality. Erosion control measures should be applied immediately to disturbed or imported soils upon system completion to minimize erosion. Ground cover must be maintained, as it supports plant transpiration and stabilizes the soil. If vegetation dies, it should be promptly replaced to maintain

system efficiency. Any settling of the soil that causes ponding or surface water channeling should be addressed by replacing the material with quality sandy loam, which should be compacted and revegetated. Proper drainage and maintenance of vegetation prevent the formation of furrows and ensure the long-term viability of the drain field. Berms, swales, and retaining walls originally designed for the system must be preserved. The final landscaping must not interfere with the protection of the disposal fields or septic tanks. It is important to note that clay-backed sod is not recommended for this type of drain field. Furthermore, no structures (such as sidewalks, patios, or decks) should be placed over the disposal fields, and no traffic should be allowed over any components of the septic system.

Surface Water Management: To prevent infiltration of surface water into the treatment tanks, proper drainage must be maintained. If tanks are located downhill, berms or tank lid risers should be used to direct surface water away. Standing water over the tanks should be avoided, as it can cause tanks to fill excessively, leading to potential flooding of the drain field and additional strain on the system's pump, which may accelerate system failure. Gutters may be required to divert water from the disposal area.

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GARRETT R. WINTERS





or the proper operation and leading to clogs. Frequent should be cleaned on a to install a larger filter or an er lines and ensure the rates regularly. Any er for the first two years.

After the two-year maintenance period, it will be the homeowner's responsibility to engage a maintenance provider for continued scheduled upkeep of the system.

Affidavit

Prior to issuance of a permit, a certified copy of an affidavit must be submitted to the County Clerk's office. The affidavit is a recorded file in reference to the real property deed on which the surface application is installed on the property. The permit issued to the previous owner of the property being transferred to the new owner in accordance with §285.20(5) of the TCEQ OSSF Rules. The permit will be issued in the name of the owner of the OSSF. Permits shall be transferred to the new owner automatically upon legal sale of the OSSF. The transfer of an OSSF permit under this section shall occur upon actual transfer of the property on which the OSSF is located unless the ownership of the OSSF has been severed from the property.

Proposed System •

A 3- or 4-inch SCH-40 pipe discharges from the residence into an Aquaklear AKA600CA aerobic treatment plant (600 gpd), which includes a 500 gallon pretreatment tank and an 800-gallon pump chamber. A threaded union will be installed in the pump tank on the supply manifold, and a pressure regulator will be set to maintain a pressure of 40psi. The pump chamber houses a 0.5 HR Franklin C1-Series-20XC1-05P4-2W115 submersible well pump (or equivalent). Distribution is facilitated through a self-flushing 100-micron Arkal Disk filter and then through a 1-inch SCH-40 manifold to a minimum of 1,626 square feet of drip tubing field. This field will use Netifim Bioline drip lines, spaced approximately two feet apart, with 0.61 gph emitters set every two feet, as per the attached schematic. A 1-inch SCH-40 return line is installed to periodically flush the system. Solids collected in the disk filter will be flushed back to the pretreatment tank during each cycle. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower areas of the field. The field area will be scarified and built up with 4 INCHES of imported Type II or Type III soil (not sand) and capped with 6 inches. The drip field will then be seeded and covered with Curlex or sodded.

Flushing back of system: Periodic / continuous?

The following design is intended to follow and meet the TCEQ 30 TAC 285 OSSF Regulations. The performance of this system cannot be guaranteed even though all provisions of 30 TAC 285 have been met or exceeded.

GARRETT R. WINTE

FLOOD PLAIN: AFTER CAREFUL EXAMINATION NOTE AND STUDY OF AVAILABLE DATA (INCLUDING EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND - BEDROOMS: 4 FEMA PANEL ZONE X (AREA OF MINIMAL BACKFILLED. EXISTING DRAINFIELD TO BE ABANDONED FLOOD HAZARD) I HAVE DETERMINED, TO **Efrain Gallegos** THE BEST OF MY ABILITY, THAT NEITHER THE NOTE HOUSE NOR THE SEPTIC IS LOCATED WITHIN WATER LINE TO BE SLEEVED IN SCH40 09/15/2025 10:04:31 AM PIPE WHERE IT IS WITHIN 10' OF THE THE 100 YEAR FLOOD PLAIN. Is a new ATU being SEWER LINE. SLEEVING THE WATER LINE WILL PROVIDE EQUIVALENT PROTECTION installed? TO THE SETBACK REQUIREMENTS IN TAC285 CONCERNING WATER LINES. DRIP FIELD LINE LENGTH VOID 19 19 18 Existing permit 1430SF 3BR number for reference. 240GPD 17 16 \oplus 16 NEW SECTION OF DRIP FIELD 15 TO BE ADDED 10 15 135LF 22 270SF 12 22 (EXISITNG) 13 20 26 LINES AT 20 14 **VARIOUS LENGTHS** NOTE 15 17 SHOWN (402LF) AEROBIC TREATMENT UNIT TO BE 16 BURIED AT A DEPTH TO ALLOW FOR 12" 17 14 OF SOIL BETWEEN TOP OF THE WATER LINE 18 14 TO BE SLEEVED AEROBIC TREATMENT UNIT AND THE 1 BEDROOM 19 13 W/ 2" SCH40 PVC CASITA 270 SF **BOTTOM THE DRIP TUBING** 20 13 WHEN WITHIN 10' FROM DRIP FIELD 12 21 SLEEVE SUPPLY/RETURN MANIFOLD 22 12 THROUGH OVERHEAD EASM'T 23 (EXISITNG) 24 **OVERHEAD EASM'T** 12 LINES @ 23FT 25 276LF 26 TOTAL 402LF 1 BEDROOM CASITA IS TO **BE USED BY MEMBERS** OF THE SAME SINGLE FAMILY. Submit a notarized copy of single family affidavit DATE DESCRIPTION ADDRESS: 760 Lookout Dr.

OSSF INFORMATION

- STRUCTURE: HOME (1430SF) + 1 BED CASITA (270F
- DAILY WASTEFLOW: 300GPD
- TANK MANUFACTURER: AQUAKLEAR AKA600CA
- MINIMUM DRIP FIELD COVERAGE: 1500SF
- ACTUAL COVERAGE AREA: 1626SF

NOTES

- ALL POTABLE WATER LINES SHALL BE A MINIMUM OF 10 FEET FROM ANY PART OF
- TANK SEWER PIPE MUST HAVE AT MINIMUM .25" FALL PER 1'
- USE 3" OR 4" SCH40 PIPE TO CONNECT STRUCTURE TO TANK
- VACUUM BREAKERS ARE TO BE PLACED AT THE HIGHEST POINT ON THE SUPPLY AND RETURN LINES
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- SYSTEM SHALL INCLUDE AUDIO AND VISUAL ALARMS TO INDICATE HIGH WATER AND AIR
- ALL PIPES SHALL BE SCHEDULE 40 PVC OR APPROVED EQUAL, UNLESS NOTED OTHERWISE, ALL JOINTS SHALL BE CLEANED WITH THE APPROPRIATE SOLVENT AND GLUED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION
- ONLY GOOD QUALITY SANDY LOAM SHALL BE APPLIED OVER THE DISPOSAL FIELDS. CLASS IV CLAY IS UNACCEPTABLE AND WILL CAUSE SYSTEM FAILURE. SANDY LOAM SHALL BE DEFINED AS SHOWN IN TABLE VI (USDA SOIL TEXTURAL CLASSIFICATIONS) OF THE RULES AND REGULATIONS OF THE TCEQ. THE INSTALLER IS RESPONSIBLE FOR VERIFYING THE QUALITY OF EACH LOAD OF LOAM PLACED ON THE SYSTEM.
- STORM WATER (RAINFALL RUNOFF) SHOULD NOT BE ALLOWED TO FLOW OVER THE DISPOSAL FIELDS OR THE TANKS. DIVERSION BERMS, SWALES AND/OR RAIN **GUTTERS SHOULD BE INSTALLED AS** NECESSARY TO PREVENT SUCH RUNOFF
- THIS DISPOSAL SYSTEM HAS BEEN DESIGNED TO OPERATE PROPERLY AT SPECIFICATIONS NOTED IN THESE PLANS. ALTERATIONS TO THE SYSTEM BY THE OWNER, INCLUDING BUT NOT LIMITED TO LANDSCAPING DRAINAGE BUILDING AND/OR WATER USAGE, MAY CAUSE PREMATURE FAILURE AND SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER
- THIS SITE PLAN IS EXPRESSLY INTENDED FOR ON-SITE SEWAGE FACILITY (OSSF) USE ONLY AND SHOULD NOT BE UTILIZED OR CONSTRUCTED FOR SURVEYING PURPOSES. ITS PURPOSE IS TO ACCURATELY REPRESENT THE LAYOUT AND DESIGN OF THE SEWAGE SYSTEM WITHIN THE SPECIFIED PROPERTY **BOUNDARIES FOR REGULATORY AND** OPERATIONAL COMPLIANCE.

ARRETT R. WINTER

5213

SCALE:1"- 20'

DATE: 9/8/2025

PREPARED BY: GARRETT R. WINTERS

R.S #5213

OWNER: SUNNY CIRCLE HOMES

Canyon Lake, TX 78133

SUBDIVISION: CANYON LAKE HILLS 1

LOT: 263







Address:		
Legal Description:		

Dear Property Owner & Agent,

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

119011.pdf Markup Summary

Callout (4)



ATA (INCLUDING PAINMAL PAINMAL PAINMAL PAINMAL PAINMAL PAINMAL TO AT NEITHER THE COATED WITHIN PAINMAL PAINMAL

Subject: Callout

Page Label: 760 Lookout Dr.-Layout1(2)

Author: Efrain Gallegos Date: 9/15/2025 11:17:59 AM

Status: Color: Layer: Space: Is a new ATU being installed?





Subject: Callout

Page Label: 760 Lookout Dr.-Layout1(2)

Author: Efrain Gallegos Date: 9/15/2025 11:24:14 AM

Status: Color: Layer: Space: Submit a notarized copy of single family affidavit



Subject: Callout

Page Label: 760 Lookout Dr.-Layout1(2)

Author: Efrain Gallegos Date: 9/15/2025 11:25:31 AM

Status:
Color: Layer:
Space:

Existing permit number for

reference.



Address:		
Legal Description:		

Dear Property Owner & Agent,

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



Subject: Callout

Page Label: GW DESIGNS GENERAL NOTES DRIP1

(COMAL) 4

Author: Efrain Gallegos Date: 9/15/2025 11:47:35 AM

Status: Color: Layer: Space: Flushing back of system: Periodic / continuous?

Highlight (3)



Subject: Highlight

Page Label: 760 Lookout Dr.-Layout1(2)

Author: Efrain Gallegos Date: 9/15/2025 11:17:29 AM

Status: Color: Layer: Space: EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACKFILLED. EXISTING

BACKFILLED. EXISTIN DRAINFIELD TO BE ABANDONED



Subject: Highlight

Page Label: 760 Lookout Dr.-Layout1(2)

Author: Efrain Gallegos Date: 9/15/2025 11:21:14 AM

Status: Color: Layer: Space: 1 BEDROOM CASITA IS

TO

BE USED BY MEMBERS OF THE SAME SINGLE

FAMILY.



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



Address:

Subject: Highlight
Page Label: 760 Lookout Dr.-Layout1(2)
Author: Efrain Gallegos
Date: 9/15/2025 11:44:45 AM

Status: Color: Layer: Space:

Owner dos not match from application.





OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded items

			119011
	Date Received	Initials	Permit Number
Instructions:			
Place a check mark next to all items that apply. For items Checklist must accompany the completed application.	s that do not apply, plac	ce "N/A". This	OSSF Development Application
OSSF Permit			
Completed Application for Permit for Authorization to	to Construct an On-Site	Sewage Faci	lity and License to Operate
Site/Soil Evaluation Completed by a Certified Site E	Evaluator or a Professio	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 consis
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 t	he Public	
Signed Maintenance Contract with Effective	Date as Issuance of Lic	ense to Opera	ate
I affirm that I have provided all information required constitutes a completed OSSF Development Applica		ment Applica	ation and that this application
Lester Collinsworth		03.	/21/2025
Signature of Applicant			Date
COMPLETE APPLICATION Check No Receipt No	— (М		LETE APPLICATION ircled, Application Refeused)
			Revised: September 2019