

# Comal County

OFFICE OF COMAL COUNTY ENGINEER

# License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:

05/31/2019

Permit Number:

108024

Location Description:

1731 WESTVIEW COURT DR CANYON LAKE, TX 78133

Subdivision:

Canyon Lake Forest

Unit:

anyon Lake 1 ore

Lot:

249

Block: Acreage:

Type of System:

Aerobic

Drip Irrigation

Issued to:

Acequia Properties, 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

OS0032485

ENVIRONMENTAL HEAL

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VIRONMENTAL HEALTH INSPECTOR

	1st Inspection Date: 2 Inspector Name: ## / KE	ust. 1 121/9	Dearwis Varhel  2nd Inspection Date Inspector Name:	OSSF In	staller #: 05 0	od 13	n Date: 5-31 Name: Com	-19 fi	nal
	Permit#: 10 80 24		Address: C. L. Fo	sect.	1 1731		View I		
•	Description	Anwaer	Citations Citations	K-3/	Notes	west	1st insp.	2nd imp.	Sed lengs.
	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)(ii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(i)				2/21/19		
	SITE AND SOIL CONDITIONS & SETBACK DISTANCES Setback Distances Meet Minimum Standards	/	285.91(10) 285.30(b)(4) 285.31(d)						
	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	1	285.32(a)(1)						
	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)						
	PRETREATMENT installed (if required) TCEQ Approved List PRETREATMENT Septic Tank(s)		285.32(b)(1)(G)285.32(b)(1						

285.34(d)

MT-2/ei/19
Tank set, Leveled
opendtional
Acady For Cover 2 sod

Interceptors if required for

commercial

Covered 5-31-19 Sc

							11
lo.	Description	Ameser	Citations	Notes	1st insp.	2nd insp.	3rd insp.
10	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?	/	285.33(d)(2)(G)(iii)(ii)285.3 3(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)(ii) 285.33(d)(2)(G)(iii)(ii) 285.33(d)(2)(G)(iii)(ii)		2/21/19		
	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)				
12	APPLICATION AREA Area installed						
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						

1st Inspection Date: 2	121/	2nd Inspection Dat	te:			3rd Inspection	on Date:		
Inspector Name: Mike		Inspector Name:				Inspecto	r Name:		
Permit#: 10 80 2		Address: C. L. Fo	Rest	/	1731	West	f view	Ct. DR	
Description	Anwser	Citations			Notes		1st insp.	2nd Insp.	3rd Ins
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)					2/21/19		
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SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)		285.32(a)(1)							
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)							
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)(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)							
PRETREATMENT Grease Interceptors if required for		285.34(d)							

MT-2/21/19
Tank set, Leveled
openational
Acady For Cover 2 god

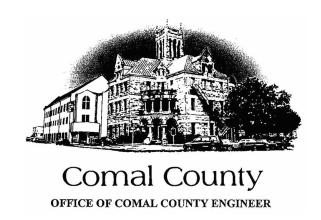
No.		Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK If SingleTank, 2 Compartments Provided with Baffle SEPTIC TANK Inlet Flowline Greater than 3" and " T " Provided on Inlet and Outlet SEPTIC TANK Septic Tank(s) Meet Minimum Requirements		285.32(b)(1)(E) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii) 285.32(b)(1)(D) 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)				
	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 provided SEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
2	SEPTIC TANK Tank Volume Installed						
	PUMP TANK Volume Installed					-	
3	AEROBIC TREATMENT UNIT Size Installed			600	2/21/19		
4	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number			Nu Water			
	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
6	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
.7	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				

No.	Description		itations	Notes	15t Insp.	2nd Inop.	2rd Insp.
1	DISPOSAL SYSTEM Drip Irrigation		i.33(a)(1)				
			i.33(a)(3)		2/21/19		
		285	5.33(a)(4)		2/2/1/19		and the same of th
		285	5.33(a)(2)				
9	DISPOSAL SYSTEM Soil						
c	ubstitution	285	5.33(d)(4)				
0							
	DISPOSAL SYSTEM Pumped		5.33(a)(4)	-			
E	ffluent		5.33(a)(3)				
1		285	5.33(a)(1)				
	DISPOSAL SYSTEM Gravelless Pipe	285	5.33(a)(3)				
			5.33(a)(2)				
			5.33(a)(4)				
			5.33(a)(1)				1
2		200	J.55(4)(1)				
1	DISPOSAL SYSTEM Mound	285	5.33(a)(3)				
		285	5.33(a)(1)				
		285	5.33(a)(2)				
		285	5.33(a)(4)				
3							
	DISPOSAL SYSTEM Other		5.33(d)(6)				1
(	describe) (Approved Design)	285	5.33(c)(4)				
4							
	ORAINFIELD Absorptive Drainline						
	B" PVC						
	or 4" PVC	×					
.5	DRAINFIELD Area Installed						
6	DRAINFIELD Area Installed						
1	ORAINFIELD Level to within 1 inch						
	per 25 feet and within 3 inches						
1.7	over entire excavation	285.3	3(b)(1)(A)(v)				
.							
27	DRAINFIELD Excavation Width						
	DRAINFIELD Excavation Depth						
	DRAINFIELD Excavation						
- 1							
	Separation DRAINFIELD Depth of						
	Porous Media						
	DRAINFIELD Type of Porous	23.					
1	Media						
28							
	DRAINFIELD Pipe and Gravel -						
-	Geotextile Fabric in Place	285.	.33(b)(1)(E)				1 1
29			<u> </u>				
	DRAINFIELD Leaching Chambers						
	DRAINFIELD Chambers - Open	- X					1
	End Plates w/Splash Plate,						
	Inspection Port & Closed End	28	5.33(c)(2)				
	Plates in Place (per	2					
	manufacturers spec.)						
30	OW DESCRIPT DISCOULT		THE OWNER OF THE OWNER O				
	LOW PRESSURE DISPOSAL						
	SYSTEM Adequate Trench Length						
	& Width, and Adequate	285.3	33(d)(1)(C)(i)				
	Separation Distance between						
	Trenches			1		1	

No.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	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)				
$\overline{}$	AEROBIC TREATMENT UNIT IS						
	Aerobic Unit Installed According to Approved Guidelines.		285.32(c)(1)		2/21/19		
	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.	1					
	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti-Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump						
	PUMP TANK Inspection/Clean Out Port & Risers Provided PUMP TANK Secondary restraint system provided PUMP TANK Riser permanently fastened to lid or cast into tank PUMP TANK Riser cap protected against unauthorized intrusions						
8	PUMP TANK Secondary restraint system provided						

	PUMP TANK Electrical	B.T. T.W. 101	1850/18	, ,		
	Connections in Approved Junction			2/21/19		
39	Boxes / Wiring Buried	Marie San Control of the Control of	Skingth	,,	I processes.	entition:

No.	Description	Anwser	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)285.3 3(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)(ii) 285.33(d)(2)(G)(iii)(I)		2/21/19		
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42	APPLICATION AREA Area Installed						
43	PUMP TANK Meets Minimum Reserve Capacity Requirements						
44	PUMP TANK Material Type & Manufacturer						
45	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: 108024

Issued This Date: 08/30/2018

This permit is hereby given to: Acequia Properties, LLC

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

1731 WESTVIEW COURT DR CANYON LAKE, TX 78133

Subdivision: Canyon Lake Forest

Unit: 1

Lot: 249

Block:

Acreage:

#### 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.

## \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

# APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Phone# 830-609-7955 Phone #  Email clint.rostedt@gmail.com Email  All correspondence should be sent to:  Owner Agent Both Method  Subdivision Name CANYON LAKE FOREST Unit/Phase/Section 1 Lot  Acreage/Legal  Street Name/Address 1731 WESTVIEW COURT DRIVE City CANYON  Type of Development:  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.) HOUSE  Number of Bedrooms 3  Indicate Sq Ft of Living Area 1329  Commercial or Institutional Facility  (Planning materials must show adequate land area for doubling the required land needed for tr  Type of Facility  Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupent Restaurants, Lounges, Theaters - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds	GREG W. JOHNSON, P.E.  170 HOLLOW OAK  NEW BRAUNFELS, TX 78132  (830) 905-2778  gregjohnsonpe@yahoo.com    Mail   Email  249
City, State, Zip  BULVERDE TEXAS 78163  City, State, Zip  Phone#  830-609-7955  Phone #  Email  clint.rostedt@gmail.com  Email  All correspondence should be sent to:  Owner  Agent  Both  Method  Subdivision Name  CANYON LAKE FOREST  Unit/Phase/Section  Lot  Acreage/Legal  Street Name/Address  1731 WESTVIEW COURT DRIVE  City  CANYON  Type of Development:  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.)  HOUSE  Number of Bedrooms  1529  Commercial or Institutional Facility  (Planning materials must show adequate land area for doubling the required land needed for tr  Type of Facility  Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupent  Restaurants, Lounges, Theaters - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Spaces  Miscellaneous  Estimated Cost of Construction: \$ 185,000  (Structure Only)  Is any portion of the proposed OSSF located in the United States Army Corps of Engine	NEW BRAUNFELS, TX 78132  (830) 905-2778  gregiohnsonpe@yahoo.com  Hall Email  249 Block  LAKE Zip 78133  RECEIVED  AUG 2 2 2018
Phone# 830-609-7955 Phone #  Email clim.rostedt@gmail.com Email  All correspondence should be sent to:  Owner  Agent  Both Method  Subdivision Name  CANYON LAKE FOREST Unit/Phase/Section  1 Lot  Acreage/Legal  Street Name/Address  1731 WESTVIEW COURT DRIVE  City  CANYON  Type of Development:  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.)  HOUSE  Number of Bedrooms  3  Indicate Sq Ft of Living Area  1529  Commercial or Institutional Facility  (Planning materials must show adequate land area for doubling the required land needed for tr  Type of Facility  Offices, Factories, Churches, Schools, Perks, Etc Indicate Number Of Occupent Restaurants, Lounges, Theaters - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Spaces  Miscellaneous  Estimated Cost of Construction: \$ 185,000 (Structure Only)  Is any portion of the proposed OSSF located in the United States Army Corps of Engine	(830) 905-2778 gregjohnsonpe@yahoo.com  : ☐ Mail ☑ Email 249 Block  ILAKE Zip 78133  RECEIVED  AUG 2 2 2018
Email clint.rostedt@gmail.com Email  All correspondence should be sent to:  Owner  Agent  Both  Method  Subdivision Name  CANYON LAKE FOREST  Unit/Phase/Section  1  Lot  Acreage/Legel  Street Name/Address  1731 WESTVIEW COURT DRIVE  City  CANYON  Type of Development:  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.)  HOUSE  Number of Bedrooms  3  Indicate Sq Ft of Living Area  1529  Commercial or Institutional Facility  (Planning materials must show adequate land area for doubling the required land needed for tr  Type of Facility  Offices, Factories, Churches, Schools, Perks, Etc Indicate Number Of Occupent Restaurants, Lounges, Theaters - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Spaces  Miscellaneous  Estimated Cost of Construction: \$ 185,000  (Structure Only)  Is any portion of the proposed OSSF located in the United States Army Corps of Engine	gregiohnsonpe@yahoo.com    Mail   Email   249   Block   LAKE   Zip   78133   RECEIVED   AUG 2 2 2018
All correspondence should be sent to:  Owner  Agent  Both  Method  Subdivision Name  CANYON LAKE FOREST  Unit/Phase/Section  1  Lot  Acreage/Legal  Street Name/Address  1731 WESTVIEW COURT DRIVE  City  CANYON  Type of Development:  Single Family Residential  Type of Construction (House, Mobile, RV, Etc.)  HOUSE  Number of Bedrooms  3  Indicate Sq Ft of Living Area  1529  Commercial or Institutional Facility  (Planning materials must show adequate land area for doubling the required land needed for tr  Type of Facility  Offices, Factories, Churches, Schools, Perks, Etc Indicate Number Of Occupent Restaurants, Lounges, Theeters - Indicate Number of Seats  Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds  Travel Trailer/RV Parks - Indicate Number of Spaces  Miscellaneous  Estimated Cost of Construction: \$ 185,000  (Structure Only)  Is any portion of the proposed OSSF located in the United States Army Corps of Engine	Email  249 Block  LAKE Zip 78133  RECEIVED  AUG 2 2 2018
Subdivision Name CANYON LAKE FOREST Unit/Phase/Section 1 Lot Acreage/Legal Street Name/Address 1731 WESTVIEW COURT DRIVE City CANYON Type of Development:  Single Family Residential Type of Construction (House, Mobile, RV, Etc.) HOUSE Number of Bedrooms 3 Indicate Sq Ft of Living Area 1529  Commercial or Institutional Facility (Planning materials must show adequate land area for doubling the required land needed for tr Type of Facility Offices, Factories, Churches, Schools, Parks, Etc Indicate Number Of Occupent Restaurants, Lounges, Theaters - Indicate Number of Seats Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds Travel Trailer/RV Parks - Indicate Number of Spaces Miscellaneous  Estimated Cost of Construction: \$ 185,000 (Structure Only) Is any portion of the proposed OSSF located in the United States Army Corps of Engine	249 Block  TLAKE Zip 78133  RECEIVED  AUG 2 2 2018
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	are /IISACE) flowage accoment?
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	Within the SOFICE horizon date in only
Source of Water Public Private Well	
Are Water Saving Devices Being Utilized Within the Residence?   ☐ Yes ☐ No	
By signing this application, I certify that:  - the completed application and all additional information submitted does not contain any false information at Authorization is hereby given to the permitting authority and designated agents to enter upon the above designated agents age	nd does not conceal any material facts.
Signature of Owner Date 7/20/	ator has performed the reviews required

195 David Jones Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

Page I of 2 Revised July 2018

Revised July 2018

# \* \* \* COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

# APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site	Evaluation as Required Comple	ted By GREG W. JOHNSON, P.E.	
			RECEIVED
System Description	PROPRIETARY;	AEROBIC TREATMENT AND DRIP T	AUG 2 2 2018
Size of Septic System Req	uired Based on Planning Materi	ials & Soil Evaluation	AUG 2 2 2018
Tank Size(s) (Gallons)	NUWATER B-550-PC	_Absorption/Application Area (Sq Ft)	COUNTY ENGINEER
	TCEQ Table III) 240 5000 gallons per day are required to	to obtain a permit through TCEQ)	
	er the Edwards Recharge Zone? s must be completed by a Registere	P Yes No Pofessional Engineer	(P.E.))
Is there an existing TCEQ	approved WPAP for the propert	ty? 🗌 Yes 🔯 No	
(if yes, the R. S. or P. E. shall	certify that the OSSF design comp	lies with all provisions of the existing WPAP.)	
(If yes, the R.S. or P. E. shall	certify that the OSSF design will co	ment activity require a TCEQ approved V omply with all provisions of the proposed WP has been approved by the appropriate region	AP. A Permit to Construct will
is the property located over	er the Edwards Contributing Zon	ne? 🛛 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 compl	ies with all provisions of the existing CZP)	
(if yes, the P.E. or R.S. shall	certify that the OSSF design will con	ent activity require a TCEQ approved CZ mply with all provisions of the proposed CZP. approved by the appropriate regional office	A Permit to construct will)
ls this property within	an incorporated city?	es No	
If yes, indicate the city	/:	GREG W. JOHN 67587 G/S/G/STER	O WE
			FIRM #2585
	ove is true and correct to the best o	e-mail address associated with this permit app	olication, as applicable
Signature Designer		August 6, 2018	Page 2 of 2

195 David Jonas Dr., New Braunfels, Texas 78132-3760 (830) 608-2090 Fax (830) 608-2078

### AFFIDAVIT



DUDDLE MUPT

THE COUNTY OF COMAL STATE OF TEXAS

## CERTIFICATION OF OSSF REQUIRING MAINTENANCE

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities (OSSF's), this document is filed in the Deed Records of Comal County, Texas.	RECEIVED
	11-

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AUG 2 2 2018

The Texas Health and Safety Code, Chapter 300 authorizes the Texas Countries (OSSFs). Additionally, Environmental Quality (TCEQ) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the commission primary responsibility FNGINEER The Texas Health and Safety Code, Chapter 366 authorizes the Texas Commission on carry out its powers and duties under the TWC. The commission, under the authority of the TWC and the Texas Health and Safety code, requires owner's to provide notice to the public that certain types of OSSFs are located on specific pieces of property. To achieve this notice, the commission requires a recorded affidavit. Additionally, the owner must provide proof of the recording to the OSSF permitting authority. This recorded affidavit is not a representation or warranty by the commission of the suitability of this OSSF, nor does it constitute any guarantee by the commission that the appropriate OSSF was installed.

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

1	NIT HASE/SECTION	BLOCK_	249	LOT_	CANYON LAKE FOREST	SUBDIVISION
IF NO	T IN SUBDIVISION:	ACREAGE			ya maka mangi didungak aji dang sakapindan da didakan karipan magi ngi dan mangan maning kamanyaya	SURVEY
	The property is owned by	(insert owner's	full na	me):	ACEQUIA PROPERTIES,	ILC
	the initial two-year service	policy, the own	er of a	a acrobic f	contract for the first two years. A treatment system for a single famile 30 days or maintain the system	
	Upon sale or transfer of t transferred to the buyer o obtained from the Comal	r new owner. A	copy of	the plant	permit for the OSSF shall be ning materials for the OSSF can b	ė
	WITNESS BY HAND(S)	ON THIS 21	DAY O	F Au	gust ,20 18	
CLR	Owner(s) signature(s)	At Pa		Ace	guia Properties UC, (s) Printed name (s)	Lint Rosted
	Clinton Lee 12	esteat sw	ORN T	O AND S	UBSCRIBED BEFORE ME ON TI	HIS AL DAY OF
	Migust	,20_18		THIS A	REA FOR COMAL COUNTY CLERK RECORDS	NG PURPOSES ONLY
Section of the sectio	Notary Public Sign	nature	The state of the s		Filed and Recorded Official Public Records	
gilande dan bankan tigikat og	SARA COP Notary Public, St Comm. Expires Notary ID 13	04-06-2020	and the second s		Bobbie Koepp, County Cl Comal County, Texas 08/22/2018 01:31:58 PM TERRI 1 Page(s)	erk
To the philips and the second seconds.	(Notary Seal Her	come alpanes as a comparation and a comparation of the comparation of	And the second		201806033078	

AUG 2 2 2018

**LOT 249** 

NTY ENGINEER

#### WASTEWATER TREATMENT FACILITY MONITORING AGREEMENT

Regulatory Authority COMAL	Permit/License Number COU
Block Creek Aerobic Services, LLC	Permit/License Number COU Customer ACEQUIA PROPERTIES, LLC
444 A Old Hwy #9	Site Address 1731 WESTVIEW COURT DRIVE
Comfort, TX 78013	City CANYON LAKE Zip 78133
Off. (830) 995-3189	Mailing Address P.O. BOX 156, BULVERDE, TX 78
Fax. (830) 995-4051	County COMAL Map # 355 D5
and the second s	Phone 830-609-7955
2 YEAR CONTRACT	Email clint rostedt@gmail.com
2 YEAR WARRANTY ON PARTS AND LABOR	Subd/Legal: CANYON LAKE FOREST, UNIT 1,

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

II. Effective Date:

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

III. Termination of Aureement:

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

#### IV. Services:

Contractor will:

a Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment system manufacturer, and required by state and/or local regulation, for a total of three visits to site per year. The list of items checked at each visit shall be the: control panel, Electrical circuits, timer, Aeration including compressor and diffusers, CFM/PSI measured, lids safety pans, pump, compressor, sludge levels, and anything else required as per the manufacturer.

b. Provide a written record of visits to the site by means of an inspection tag attached to or contained in the

control panel

c. Repair or replace, if Contractor has the necessary materials at site, any component of the OSSF found to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and the service(s) cost less than \$100.00, Customer hereby authorizes Contractor to perform the service(s) and bill Customer for said service(s). When service costs are greater than \$100.00, or if contractor does not have the necessary supplies at the site, Contractor will notify Customer of the required service(s) and the associated cost(s). Customer must notify Contractor of arrangements to affect repair of system with in two (2) business days after said notification.

d. Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only).

e. Forward copies of this Agreement and all reports to the regulatory agency and the Customer.

f. Visit site in response to Customer's request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to Customer.



V. Disinfection:

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

VI. Electronic Monitoring:

Electronic Monitoring is not included in this Agreement.

AUG 2 2 2018

VII. Performance of Agreement:

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

a. If this is an initial Agreement (new installation):

 Contractor's receipt of a fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.

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

#### VIII. Customer's Responsibilities:

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

a. Provide all necessary yard or lawn maintenance and removal of all obstacles, including but not limited to dogs and other animals, vehicles, trees, brush, trash, or debris, as needed to allow the OSSF to function property, and to allow Contractor safe and easy access to all parts of the OSSF.

b. Protect equipment from physical damage including but not limited to that damage caused by insects.

c. Maintain a current license to operate, and abide by the conditions and limitations of that license, and all requirements for and OSSF from the State and/or local regulatory agency, whichever requirements are more stringent, as well as the proprietary system's manufacturer recommendations.

d. Notify Contactor immediately of any and all alarms, and/or any and all problems with, including failure of,

 e. Provide, upon request by Contractor, water usage records for the OSSF so that the Contractor can perform a proper evaluation of the performance of the OSSF.

f. Allow for samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluating the OSSF's performance. If these samples are taken to a laboratory for testing, with the exception of the service provided under Section IV (d) above, Customer agrees to pay Contractor for the sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus the associated fees for laboratory testing.

- g. Prevent the backwash or flushing of water treatment or conditioning equipment from entering the OSSF.
- h. Prevent the condensation from air conditioning or refrigeration units, or the drains of icemakers, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by system designer.

i. Provide for pumping and cleaning of tanks and treatment units, when and as recommended by Contactor, at

Customer's expense.

j. Maintain site drainage to prevent adverse effects on the OSSF.

k. Pay promptly and fully, all Contractor's fees, bills, or invoices as described herein.

IX. Access by Contractor:

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

X. Limit of Liability:

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

XI. Indemnification:

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

CLR

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BS

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

Customer hereby waives its right of recourse as to any Indemnitee when Indemnification applies, and Customer shall require it 2 2 2018 insurer(s) to waive its/their right of subrogation to the extent such action is required to render such waiver of subrogation effective. Customer shall be subrogated to Indemnitees with respect to all rights indemnitees may have against third parties with respect to matters as to which Customer provides indemnity and/or defense to Indemnitees. No Indemnification is provided to indemnitees when the liability or loss results from (1) the sole responsibility of such Indemnitee; or, (2) the willful misconduct of such Indemnitee. Upon irrevocable acceptance of this Indemnification obligation, Customer, in its sole discretion, shall select and pay counsel to defend Indemnitees of and from any action that is subject to this Indemnification provision. Indemnitees hereby coverant not to compromise or settle any claim or cause of action for which Customer has provided Indemnification without the consent of Customer.

#### XII. Severability:

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

#### XIII. Fee for Services:

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

#### XIV. Payment:

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

#### XV. Application or Transfer of payment:

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

### XVI. Entire Agreement:

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

Block Creek Aerobic Services, LLC,

Contractor

MC# 0000042 and MC#0000002

Customer Signature

Date

# ON-SITE SEWERAGE FACILITY SOIL EVALUATION REPORT INFORMATION

Date Soil Survey Performed:	August 06, 2018	
Site Location:	CANYON LAKE FOREST, UNIT 1, LOT 249	RECEIVED
Proposed Excavation Depth: _	N/A	AUG 2 2 2018

Requirements:

nents:

At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area ENGINEER

Locations of soil boring 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 excavation depth. For surface disposal, the surface horizon must be evaluated.

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

Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
6"	m	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 6"	BROWN
				1		

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

I certify that the findings of this report are based on my fie	ld observations and are accurate to
the best of my ability.	
/ *X X	08/06/18
Greg W. Johnson, P.E. 67587-F2585, S.E. 11561	Date

Date: August 07, 2018				
Applicant Information:	Site Evaluator Inform	ation:		
Name: ACEQUIA PROPERTIES, LLC.	Name: Greg W. Johnson, P.E., R.S, S.E. 11561			
Address: P.O. BOX 156	Address: 170 Hollow	Oak		
City: BULVERDE State: TEXAS	City: New Braunfels State: Texas			
Zip Code: 78163 Phone: (830) 609-7955	Zip Code: <u>78132</u> Pl	none & Fax (830)905-2778		
Property Location:	Installer Informa	tion:		
Lot 249 Unit 1 Blk Subd. CANYON LAKE FO	REST Name:			
Street Address: 1731 WESTVIEW COURT DRIVE				
City: CANYON LAKE Zip Code: 7813	Address:			
Additional Info.:	~*·	State:		
	Zip Code:	Phone		
Topography: Slope within proposed disposal area:	6 to 8 %			
Presence of 100 yr. Flood Zone:	YESNO_X			
Existing or proposed water well in nearby area.	$YES_{}$ NO $\underline{X}$	RECEIVED		
Presence of adjacent ponds, streams, water impoundments	YESNO_X	ALIC 9 9 2019		
Presence of upper water shed	YESNO_X	AUG 2 2 2018		
Organized sewage service available to lot	$YES NO _X$			
		COUNTY ENGINEE		

I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 27, 2012).

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

PROPEGIS PESSIONAL

FIRM #2585



AEROBIC TREATMENT
DRIP TUBING SYSTEM
DESIGNED FOR:
ACEQUIA PROPERTIES, LLC
P.O. BOX 156
BULVERDE, TEXAS 78163

### SITE DESCRIPTION:

Located in Canyon Lake Forest, Unit 1, Lot 249 at 1731 Westview Court Drive, the proposed system will serve a three bedroom residence (1529sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

### PROPOSED SYSTEM:

A 3-inch SCH-40 pipe discharges from the residence into a NuWater B-550 600gpd aerobic plant containing a 353-gallon pretreatment tank, an aerobic treatment plant, and a 768gallon pump chamber containing a submersible (Franklin C1 20XC1-05P4-W115 ) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1"SCH-40 manifold to a 2000 sf. drip tubing field, with Netifim Bioline drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the spin filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with ~6" of Type II or Type III soil, then the drip tubing will be laid and capped with ~6" of Type II or Type III soil (NOT SAND). The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

## **DESIGN SPECIFICATIONS:**

Daily waste flow: 240 GPD Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B550 600gpd (TCEQ Approved)

Pump tank size: 768 Gal

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

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Application Rate: Ra = 0.2 gal/sf

AUG 2 2 2018

Total absorption area: Q/Ra = 240 GPD/0.20 = 1200 sf. (Actual 2000 sf.)

Total linear feet drip tubing: 1000' Netifim Bioline drip tubing .61 GPH

COUNTY ENGINEER

Pump requirement: 500 emitters @ .61 gph @ 30 psi = 5.0833gpm

Pump Requirement (cont.): Franklin C1 20XC1-05P4-W115 submersible well pump

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

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

IN RETURN MANIFOLD W/ NOM. DIA 1.049" ID

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

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

MSV = 5.4 GPM

### **PIPE AND FITTINGS:**

All pipes and fittings in this drip tubing system shall be 1" schedule 40 PVC. All joints shall be sealed with approved solvent-type PVC cement. Clipper type cutters are recommended to prevent PVC burrs during cutting of pipes causing possible plugging.

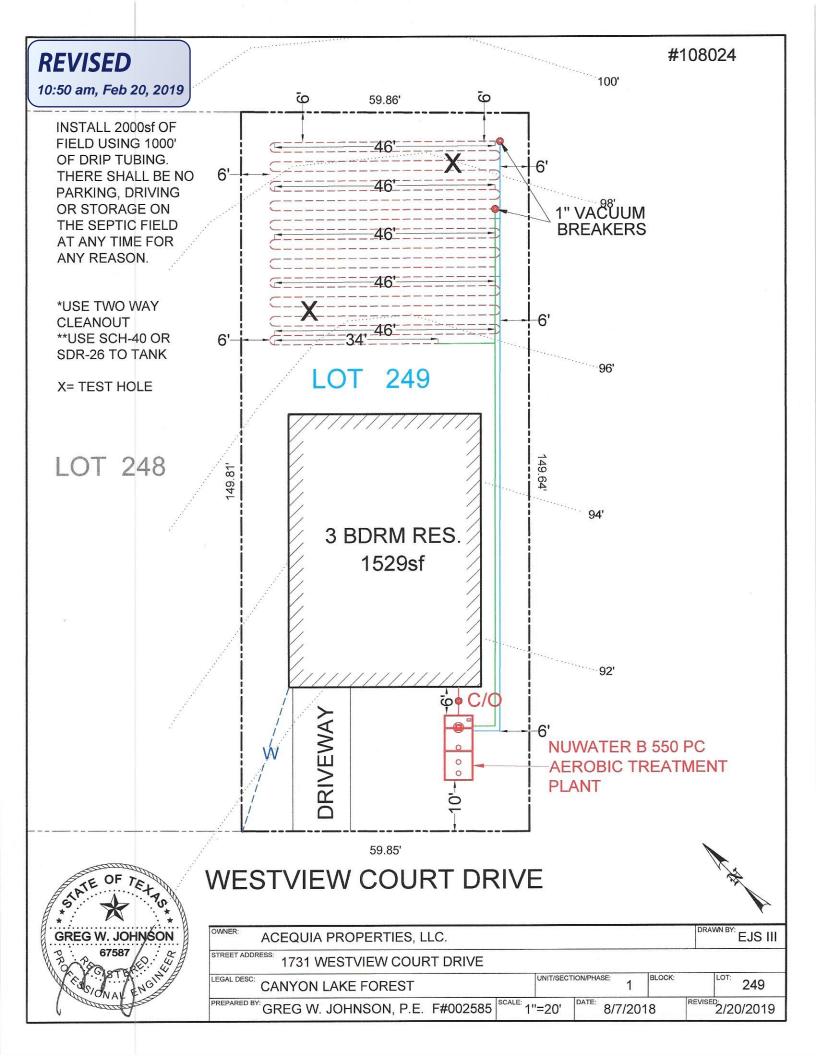
Designed in accordance with Chapter 285, Subchapter D, §285.30 and §285.40 Texas Commission On Environmental Quality. (Effective December 29, 2016)

08/06/13

170 Hollow Oak

New Braunfels, Texas 78132

830/905-2778



RECEIVED

TANK NOTES:

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

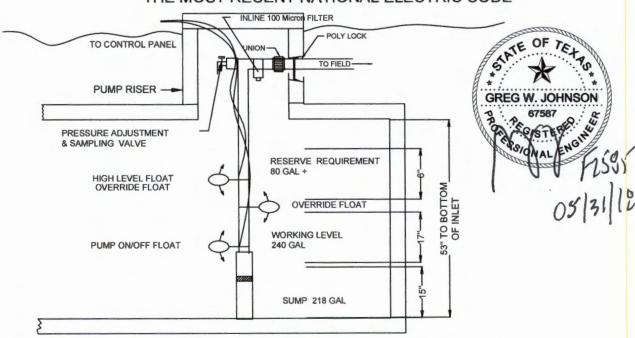
AUG 2 2 2018 COUNTY ENGINEER

Tightlines to the tank shall be SCH-40 PVC.

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

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

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



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

# AUG 22 2018 ENGINEER

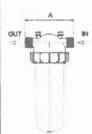
# **Arkal 1" Super Filter** Catalog No. 1102 0\_\_\_\_

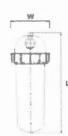
### **Features**

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

#### **Technical Data**

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



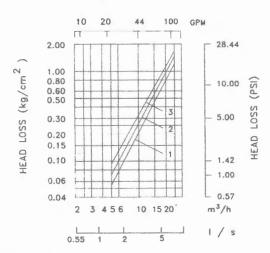


#### **Filtration Grades**

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

Green (55 micron)

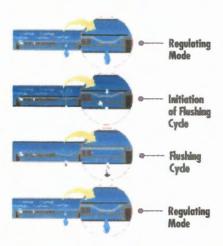
# **Head Loss Chart**



# NETAFIM

# Bioline® Dripperline

# Pressure Compensating Dripperline for Wastewater



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

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



### **Product Advantages**

#### The Proven Performer

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

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

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

#### **Long-Term Reliability**

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

#### Cross Section of Bioline Dripperline



CHFILTE

#### Root Safe

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



### COUNTY ENGINEER

#### **Applications**

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

### **Specifications**

Wall thickness (mil): 45\*

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

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

Recommended filtration: 120 mesh

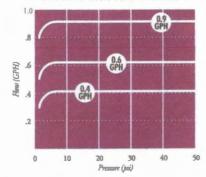
Inside diameter: .570\*

Color: Purple tubing indicates non-potable

SOUICE

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

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





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



## NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

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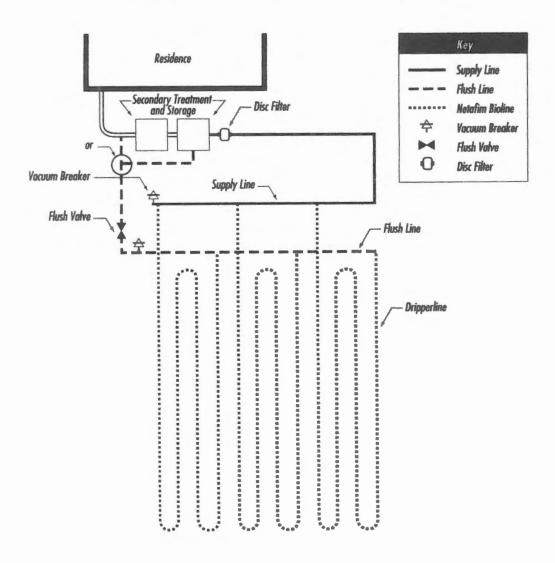
# **SAMPLE DESIGNS**

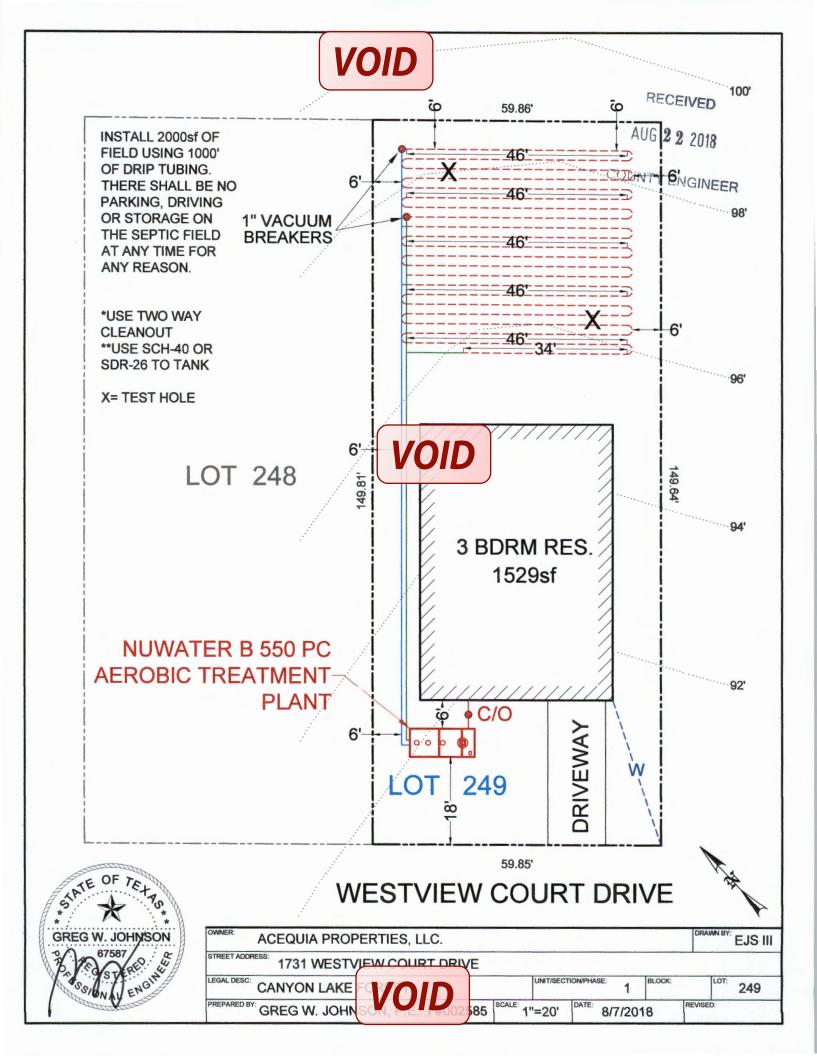
#### SINGLE TRENCH LAYOUT

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

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





From: <u>Hernandez, Sandra</u>
To: <u>"Greg Johnson"</u>

**Subject:** 108024 deficiency comment

**Date:** Thursday, August 30, 2018 3:03:07 PM

## RE: Canyon Lake Forest, Unit 1, Lot 249

## Greg,

We received planning materials for the referenced permit application on August 22, 2018 and found those planning materials to be deficient. In order to continue processing this permit, we need the following information:

Your site description indicates a lot number than what it shown on the recorded deed.

If you have any questions, you can email me or call the office.

#### Thanks,

Sandra Ann Hernandez
Environmental Health Assistant
Comal County Engineers Office
New Braunfels, Texas 78132
830-608-2090 Office
830-608-2078 Fax
www.cceo.org



# AEROBIC TREATMENT DRIP TUBING SYSTEM

DESIGNED FOR: ACEQUIA PROPERTIES, LLC P.O. BOX 156 BULVERDE, TEXAS 78163 AUG 2 2 2018

COUNTY ENGINEER

### SITE DESCRIPTION:

Located in Canyon Lake Forest, Unit 1, Lot 228, at 1731 Westview Court Drive, the proposed system will serve a three bedroom residence (1529sf.) situated in an area with shallow Type III soil as described in the Soil Evaluation Report. Native grasses and oak trees were found throughout this property. An aerobic treatment plant utilizing drip irrigation was chosen as the most appropriate system to serve the conditions on this lot.

## **PROPOSED SYSTEM:**

A 3-inch SCH-40 pipe discharges from the residence into a NuWater B-550 600gpd aerobic aerobic treatment plant, and a 768plant containing a 353-gallon pretream anklin C1 20XC1-05P4-W115) well gallon pump chamber containing a pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 8 minute run time with float setting at 240 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter (Arkal) then through a 1" SCH-40 manifold to a 2000 sf. drip tubing field, with Netifim Bioline drip lines set approximately two feet apart with 0.61 gph emitters set every two feet, as per the attached schematic. A pressure regulator PMR-MF 30psi installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1" SCH-40 return line is installed to periodically flush the system by cycling a 1" ball valve. Solids caught in the spin filter are continuously flushed each cycle back to the pump tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Field area will be scarified and built up with ~6" of Type II or Type III soil, then the drip tubing will be laid and capped with ~6" of Type II or Type III soil (NOT SAND). The field area will be sodded with grass prior to system startup. Tank must have at grade risers on each opening with watertight caps that must be at least 65# or have a padlock or can only be removed with tools. A secondary plug, cap, or suitable restraint must be provided below riser cap to prevent tank entry should the cap be damaged or removed, in compliance with Chapter §285.38.

### **DESIGN SPECIFICATIONS:**

Daily waste flow: 240 GPD Table III Pretreatment tank size: 353 Gal

Plant Size: NuWater B550 600gpd (





NOTICE OF CONFIDENTIALTY 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**

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THE STATE OF TEXAS

AUG 2 2 2018

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

COUNTY ENGINEER

THAT N. STAHL PARK-KUGLEN, LLC., hereinafter called Grantor, for and in consideration of the sum of TEN AND NO/IOO DOLLARS (\$10.00) cash and other good and valuable consideration in hand paid by ACEQUIA PROPERTIES, LLC, 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 ComalCounty, Texas, to-wit:

Lot 249 CANYON LAKE FOREST, UNIT 1, an addition in Comal County, Texas, according to The map or plat recorded in Volume 1, PAGE 53-54 MAP a n d Plat and 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.

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 13th day of July, 2018

RECEIVED

N. Stahl Park-Kuglen, LLC

AUG 2 2 2018

COUNTY ENGINEER

By:

Jeffrey Kuglen, President

STATE OF TEXAS

COUNTY OF COMAL

This instrument was acknowledged before me on this the 13 day of July 2018, by Jeffrey S. Kuglen, President, N. Stahl Park-Kuglen, LLC.

Grantee's Mailing Address:

DONNA R. SCOTT-WOLFE
Notary Public, State of Texase
Comm. Expires 10-20-2018
Notary ID#: 473643

Notary Public, State of Texas

11011 Portsmouthdr. Spring Branch TX 78070



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AUG 2 2 2018

COUNTY ENGINEER

This page has been added to comply with the statutory requirement that the clerk shall stamp the recording information at the bottom of the last page.

This page becomes part of the document identified by the file clerk number affixed on preceding pages.



Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County Texas
07/13/2018 01:57:30 PM
JESSICA 3 Page(s)
201806027630

Phone: (830) 995-3189

Fax: (830) 995-4051

To: Home Owner 1731 Westview Court Dr Canyon Lake, TX 78133 Printed:9/19/2019 Site: 1731 Westview Court Dr Canyon Lake, TX 78133

Permit #: 108024

Agency: Comal County

County: Comal

Sub:

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic Without Chlorine System S/N: 34180

Disposal: Drip Emitters

Customer ID: 6560

Contract Dates: 5/31/2019 - 5/31/2021

Scheduled Date: 9/30/2019

Inspection 1 of 6

Installed: 1/31/2019

Warranty End: 1/31/2021

GPS Coordinates - Latitude: 29.860828 Longitude: -98.260155

Service Type: Scheduled Inspection

Visit Date: 9/19/2019

Time In: 9:30

Out: 9:50

This counts as a type of "Scheduled Inspection" Entered By: Alex Seidensticker

Method: Grab

Technician: Alex Seidensticker Maint. Provider: Burt Seidensticker

Aerators: Operational Filters: Operational

Irrigation Pumps: Operational Disinfection Device: Operational

Sludge Levels

For Tank 1: 14 For Tank 2: 0" For Tank 3: 0"

CFM: 2.5

Air Filter: Good

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational Sprayfield Veg: Operational

Color: Good Odor: Good

Alarm: Operational

PSI Pressure: 3.0

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location cleaned out drip system filters. Cleaned air filter on compressor. - Scum in pretreatment is 2". Spoke to home owner and explained system and our contract obligations. - Secured system in the on position with a lock bolt

Insp ID #:82942

Provider: Burt Seidensticker

Technician: Alex Seidensticker

Expires: 9/30/2021

License #: MP0000002

Comments

License #: MP0001961

Bonto Sidustido

fra

Phone: (830) 995-3189

Fax: (830) 995-4051

To: Home Owner

1731 Westview Court Dr Canyon Lake, TX 78133

Printed:12/17/2019 Site: 1731 Westview Court Dr Canyon Lake, TX 78133

Permit #: 108024

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic Without ChlorineSystem S/N: 34180

Disposal: Drip Emitters

Customer ID: 6560

Contract Dates: 5/31/2019 - 5/31/2021

Scheduled Date: 1/30/2020

Inspection 2 of 6

Installed: 1/31/2019

Warranty End: 1/31/2021

GPS Coordinates - Latitude: 29.860828 Longitude: -98.260155

Entered By: Jose Luis Ramos

Service Type: Scheduled Inspection

Visit Date: 12/17/2019

Time In: 12:50pm

This counts as a type of "Scheduled Inspection"

Out: 1:10pm

Method: Grab

Technician: Jose Luis Ramos Maint, Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational Disinfection Device: Operational

Sludge Levels

For Tank 1: 12" For Tank 2: 0" For Tank 3: 0"

CFM: 3.0

Air Filter: Good

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good Odor: Good

Alarm: Operational

PSI Pressure: 3.5

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Scum in pretreatment is 2". Cleaned drip filter, flushed lines. - Cleaned compressor filter. - Secured system in the on position with a lock bolt.

Insp ID #:87678

Provider: Rudy Carson

License #: MT0001770

Technician: Jose Luis Ramos

Expires: 9/30/2022

License #: MP0002036

Phone: (830) 995-3189

Fax: (830) 995-4051

To: Home Owner

1731 Westview Court Dr Canyon Lake, TX 78133 Printed:9/11/2020

Site: 1731 Westview Court Dr Canyon Lake, TX 78133

Permit #: 108024

Agency: Comal County

County: Comal

Sub:

Mfg / Brand: Advantage Wastewater LLC - Nu Water Treatment Type: Aerobic Without ChlorineSystem S/N: 34180

Disposal: Drip Emitters

Customer ID: 6560

Contract Dates: 5/31/2019 - 5/31/2021

Scheduled Date: 9/30/2020

Inspection 4 of 6

Installed: 1/31/2019

Warranty End: 1/31/2021

GPS Coordinates - Latitude: 29.860828 Longitude: -98.260155

▼ This counts as a type of "Scheduled Inspection" Entered By: Ronnie W Krampota

Service Type: Scheduled Inspection

Visit Date: 9/11/2020

Method: Grab

Technician: Ronnie W Krampota

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational Disinfection Device: Operational Sludge Levels

For Tank 1: n/a For Tank 2: n/a For Tank 3: 0"

Tank Lid / Riser: Secured

Electric Circuits: Operational Distribution System: Operational Sprayfield Veg: Operational

Alarm: Operational

Comments

Service Completed

- Technician Secured the Tank Lid and/or Riser prior to leaving location. - Secured system in the on position with a lock bolt -Cleaned drip filter and back washed drip line - Could not get PSI reading possible bad PSI gauge - Due to Covid -19 We are only Opening the pump tank recommended by TOWA - Please complete customer information sheet and return to office so we can better serve you in the future. Thanks

Insp ID #:98405

Rudy Carson

Technician: Ronnie W Krampota

License #: MP0002036

License #: MT0001175

Expires: 7/31/2023

Phone: (830) 995-3189

Fax: (830) 995-4051

To: Home Owner

1731 Westview Court Dr Canyon Lake, TX 78133 Printed:5/7/2020

Site: 1731 Westview Court Dr

Canyon Lake, TX 78133

Permit #: 108024

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic Without Chlorin System S/N: 34180

Disposal: Drip Emitters

Customer ID: 6560

Contract Dates: 5/31/2019 - 5/31/2021

Scheduled Date: 5/30/2020

Inspection 3 of 6

Installed: 1/31/2019

Warranty End: 1/31/2021

GPS Coordinates - Latitude: 29.860828 Longitude: -98.260155

Service Type: Scheduled Inspection

Visit Date: 5/7/2020

Time In: 925

Out: 940

This counts as a type of "Scheduled Inspection" Entered By: Alex Seidensticker

Method: Grab

Technician: Alex Seidensticker

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational Disinfection Device: Operational

Sludge Levels

For Tank 1: n/a For Tank 2: n/a

For Tank 3: 0"

CFM: 2.0

Tank Lid / Riser: Secured

Electric Circuits: Operational Distribution System: Operational

Sprayfield Veg: Operational

Odor: Good

Alarm: Operational

PSI Pressure: 2.5

Service Completed

Comments

- Technician Secured the Tank Lid and/or Riser prior to leaving location. Due to covid 19 we're only checking pump tanks, recommended by TOWA. - Cleaned compressor filter. Cleaned drip filter. - Secured system in the on position with a lock bolt.

Insp ID #:93208

Provider:

Rudy Earson

License #: MP0001961

Technician: Alex Seidensticker

Expires: 9/30/2021

License #: MP0002036

Phone: (830) 995-3189

Fax: (830) 995-4051

To: Home Owner

1731 Westview Court Dr Canyon Lake, TX 78133

Printed:1/25/2021 Site: 1731 Westview Court Dr

Canyon Lake, TX 78133

Permit #: 108024

Agency: Comal County

County: Comal

Mfg / Brand: Advantage Wastewater LLC - Nu Water

Treatment Type: Aerobic Without Chlorin System S/N: 34180

Disposal: Drip Emitters

Customer ID: 6560

Contract Dates: 5/31/2019 - 5/31/2021

Scheduled Date: 1/30/2021

Inspection 5 of 6

Installed: 1/31/2019 Warranty End: 1/31/2021

GPS Coordinates - Latitude: 29.860828 Longitude: -98.260155

Service Type: Scheduled Inspection

Visit Date: 1/25/2021

Time In: 115

Out: 130

This counts as a type of "Scheduled Inspection"

Entered By: Cody Ryan Jurgensen

Method: Grab

Technician: Cody Ryan Jurgensen

Maint. Provider: Rudy Carson

Aerators: Operational

Filters: Operational

Irrigation Pumps: Operational Disinfection Device: Operational

Sludge Levels

For Tank 1: 14" For Tank 2: 0" For Tank 3: 0"

**CFM: 3.0** 

Tank Lid / Riser: Secured

Electric Circuits: Operational

Distribution System: Operational

Sprayfield Veg: Operational

Color: Good Odor: Good

Alarm: Operational

PSI Pressure: 3.2

Comments

Service Completed - Technician Secured the Tank Lid and/or Riser prior to leaving location. - Cleaned compressor filter - cleaned drip filter - back flushed lines - set to 24psi - Scum in pretreatment is 10" - Secured system in the on position with a lock bolt

Owner signature:

Insp ID #:104504

Rudy Carson

License Info: MP0002036 Expires:

Technician: Cody Ryan Jurgensen

License Info: MT0001766 Expires: 9/30/2022