

Comal County

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date:	05/21/2019		Permit Number:	108644
Location Description:	2121 FULLER CANYON LAF			
	Subdivision: Unit: Lot: Block: Acreage:	Canyon Lake Estates 1 52 A		
Type of System:	Aerobic Mounded Low	Pressure Dosing		
Issued to:	Craig & Kimbe	rly Meier		

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

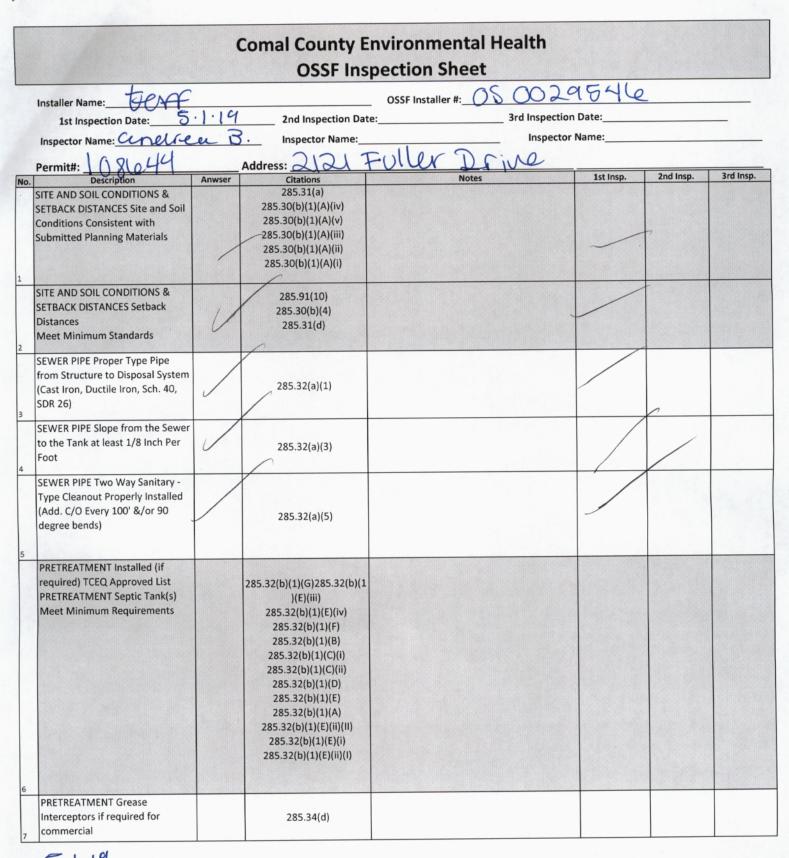
OS0007 TH COORDINATOR

VIRONMENTAL HEALTH INSPECTOR

		Environmental Healt spection Sheet	th 🚌	
Installer Name: UCA		OSSF Installer #: OS O	029546 nspection Date: 5-21-19	fire
Inspector Name: Cuneline	Les B. Inspector Name:		nspector Name: Comos	-0-
Permit#: 10810.44	Anwser Citations	FUILOR DI INC	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)(ii) 285.30(b)(1)(A)(ii) 285.30(b)(1)(A)(ii)			
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)	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 Property 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)(F) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(C)(i) 285.32(b)(1)(E)(i) 285.32(b)(1)(E)(ii)(i) 285.32(b)(1)(E)(ii)(i) 285.32(b)(1)(E)(ii)(i)			
PRETREATMENT Grease Interceptors if required for commercial	285.34(d)		nered 5-2	

Think Set. level open adenal. no leaks. Cever fink : lines.

	OSSF Inspection Sheet					find	
No.	Description	Anwser	Citations	All a second second second second	The second stations and	2nd Insp.	Fid insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Spinkler 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)(ii) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)				1
	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	111	285.33(d)(2)(G)(l) 285.33(d)(2)(A) 285.33(d)(2)(F)				111
41					NR .		
42	APPLICATION AREA Area Installed	1					
43	PUMP TANK Meets Minimum Reserve Capacity Requirements					3 1 5	
44	PUMP TANK Material Type & Manufacturer						
45	PUMP TANK Type/Size of Pump Installed						



5.1.19 TANK Set. level. open abened. No leaks. Cever fenk ; lines.

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o.	Description	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)(11) 285.32(b)(1)(E)(ii)(11) 285.32(b)(1)(E)(ii) 285.32(b)(1)(E)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(ii) 285.32(b)(1)(B) 285.32(b)(1)(A) 285.32(b)(1)(E)(iv)				
	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)				
0	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)				-
.1	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed			~			
	AEROBIC TREATMENT UNIT Size Installed	/		(DO)	$\left(\right)$		
14	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	1		Numan			
	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
16	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
17	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(4) 285.33(a)(1) 285.33(a)(2)			D.	

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o.	Description	Anwser	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
	DISPOSAL SYSTEM Drip Irrigation		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)		/		
	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
2	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
4	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
5	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
6	DRAINFIELD Area Installed	V			~		
	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
.7	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
28	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)				
30	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	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)				
	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.	/			/		
35	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						
37	PUMP TANK Secondary restraint system provided PUMP TANK Electrical Connections in Approved Junction	1					

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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)(11)285.3 3(d)(2)(G)(iii)(11)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)(1)				
40	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)				
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						



Comal County office of comal county engineer

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

Permit Number:	108644
Issued This Date:	01/24/2019
This permit is hereby given to:	Craig & Kimberly Meier

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

2121 FULLER DR CANYON LAKE, TX 78133

Subdivision:	Canyon Lake Estates
Unit:	1
Lot:	52
Block:	А
Acreage:	

APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic Mounded Low Pressure Dosing

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 County requirements.

Call (830) 608-2090 to schedule inspections.

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * * <u>APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN</u> <u>ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE</u>

Date 11/25/2018		Permit #	108644
Owner Name Craig & Kimberly Meier	Agent Name	Brian Erxleben, R.S.	
Mailing Address 2596 Fuller Circle		562 S. Hwy 123 By	
City, State, Zip Canyon Lake, Texas 78133	City, State, Zip	Seguin, Texas 781	55
Phone # 972-953-8509	Phone #	830-660-9133	
Email mrcraigmeier@aol.com	Email	bandverx@gmail.c	om
All correspondence should be sent to:	Agent 🛛 Both	Method:	Mail 🛛 Email
Subdivision Name Canyon Lake Estates	Unit 1	Lot 52	Block A
Acreage/Legal			· ·
Street Name/Address 2121 Fuller Drive		nyon Lake	Zip 78133
Type of Development:			
Single Family Residential			
Type of Construction (House, Mobile, RV, Etc.) House	×		RECEIVED
Number of Bedrooms 3			JAN 1 8 2019
Indicate Sq Ft of Living Area 1300			
Commercial or Institutional Facility			COUNTY ENGINEER
(Planning materials must show adequate land area for doubling t	he required land needed	d for treatment units a	and disposal area)
Type of Facility			
Offices, Factories, Churches, Schools, Parks, Etc Indic	ate Number Of Occup	pants	
Restaurants, Lounges, Theaters - Indicate Number of Se	ats		
Hotel, Motel, Hospital, Nursing Home - Indicate Number			
Travel Trailer/RV Parks - Indicate Number of Spaces			
Miscellaneous			
Estimated Cost of Construction: \$80,000 (St	ructure Only)		
Is any portion of the proposed OSSF located in the United	States Army Corps of	Engineers (USACE	E) flowage easement?
Yes No (If yes, owner must provide approval from USAC	E for proposed OSSF impr	rovements within the US	ACE flowage easement)
Source of Water 🛛 Public 🗌 Private Well			
Are Water Saving Devices Being Utilized Within the Resident	ce? 🛛 Yes 🗌 No	0	
By signing this application, I certify that: - The completed application and all additional information submitted facts.			
 Authorization is hereby given to the permitting authority and design site/soil evaluation and inspection of private sewage facilities. Understand that a permit of authorization to construct will not be a by the Comal County Flood Damage Prevention Order. 	L'and Alia	A STATE OF A	
- I affirmatively consent to the online posting/public release of my e-	mail address associated	d with this permit appl	ication, as applicable.
Himbuly meine per poll	Jan 8,2	هراه	Prove during
Signature of Owner	Date		Page 1 of 2

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

Revised July 2018

* * * COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH * * * <u>APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN</u> <u>ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE</u>

Planning Materials & Site Evaluation as Required Completed By Brian Erxleben, R.S. 3636				
System Description Aerobic Treatment/Mounded drip disposal				
Size of Septic System Required Based on Planning Materials & Soil Evaluation				
Tank Size(s) (Gallons)600 gpd Absorption/Application Area (Sq Ft)128	0			
Gallons Per Day (As Per TCEQ Table III)240				
(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)	RECEIVED			
is the property located over the Edwards Recharge Zone? Yes X No	JAN 18 2019			
(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))	COUNTY ENGINEER			
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.)				
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 Period be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)	ermit to Construct will not			
Is the property located over the Edwards Contributing Zone? 🔀 Yes 🔲 No				
Is there an existing TCEQ approval CZP for the property? 🔲 Yes 🖂 No				
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)				
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP?	Yes 🖂 No			
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Perrissued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)	nit to Construct will not be			
Is this property within an incorporated city? 🔲 Yes 🔀 No				
If yes, indicate the city:				

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 poline posting/public release of my e-mail address associated with this permit application, as applicable.

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11-25-18 Date

Page 2 of 2



THE COUNTY OF G

STATE OF TEXAS



RECEIVED

CERTIFICATION OF OSSF REQUIRING MAINTENANCE

JAN 18 2019

According to Texas Commission on Environmental Quality Rules for On-Site Sewage Facilities, this documentary Electric El

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The Texas Health and Safety Code, Chapter 366, authorizes the Texas Commission on Environmental Quality (commission) to regulate on-site sewage facilities (OSSFs). Additionally, the Texas Water Code (TWC), § 5.012 and § 5.013, gives the TCEQ 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 that the appropriate OSSF was installed.

Π

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

UNIT 1 BLOCK A LOT 52 SUBDIVISION Canyon Lake Estates

IF NOT IN SUBDIVISION: ACRES SURVEY

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The property is owned by Craig & Kimberly Meier.

This OSSF shall be covered by a continuous maintenance contract for the first two years. After the initial two-year service policy, the owner of an aerobic treatment system for a single family residence shall either obtain a maintenance contract within 30 days or maintain the system personally.

Upon sale or transfer of the above-described property, the permit for the OSSF shall be transferred to the buyer or new owner. A copy of the planning materials for the OSSF can be obtained from the Comal County Environmental Health Department.

WITNESS MY HAND ON THIS 8 DAY OF January	, 2018 . J
OWNERAGENT NAME (SIGNATURE) KIMBERLY N	
OWNER/AGENT NAME (SIGNATURE) OR IMBERLY N	neier
OWNER/AGENT NAME (PRINTED) KIMBERLY	
OWNER/AGENT NAME (PRINTED)	MEIE F
SWORN TO AND SUBSCRIBED BEFORE ME ON THIS	DAY OF Janvary, 2019
COLETTE D JOHNSON Notary Public STATE OF TEXAS My Comm. Exp. 02-08-22	Notary Public, State of Texas Notary's Printed Name: COLCHE D. Johnson
Notary ID # 1016305-7	Commission Expires: 02108/2022



RECEIVED

JAN 18 2019

ODUNTY 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 01/18/2019 12:27:54 PM CHRISTY 2 Page(s) 201906002063

Carl Eoff Services

420 Bear Creek Drive, New Braunfels, Tx. 78132

210-669-6088

Service Agreement

JAN 1 8 2019

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COUNTYE GINCER

- I. General: This work for Hire Agreement (herinafter referred to as "Agreement") is entered into by and between Craig & Kimberly Meier (hereinafter referred to as "Contractor"). By this Agreement, Contractor agrees to render services, as described herein, and the Client agrees to fulfill his/her/their responsibilities under this agreement as described herein.
- II. Effective Dates: This Agreement commences on the date the license to operate is issued and upon receipt of full payment and runs for (2) years. Agreement: Starting Date: (_/_/__) Ending Date: (_/_/__).
 - Services by Contractor: Contractor will provide the following services (hereinafter referred to as the "Services"):
 - In compliance with Agency (TCEQ and/or County) and manufacturer's requirements, inspect and perform routine
 maintenance on the On-Site Sewage Facility (hereinafter referred to as the "OSSF") three (3) times per year
 (approximately once every four (4) months).
 - 2. Report to the appropriate regulatory authority and to the **Client**, as is required by both the State's on-site rules and local Agency's rules, if more stringent. All findings must be reported to the local agency within 14 days.
 - 3. If any components of the OSSF are found to be in need of repair during the inspection, the **Contractor** will notify the **Client** of the repairs needed.
 - 4. Visit site in response to Client's request (s) for unscheduled service(s) within two business days from the date of Contractor's receipt of Client's request. All unscheduled responses are in addition to the fee covered by this Agreement and will be billed to the Client.
 - 5. Provide notification of arrival to site to the homeowner or to site personnel. Additionally, written notification of the visit will be left at the site or with site personnel upon completion of inspection, as well as, forwarded to Agency within 14 days.
- IV. Site Location: The Services are to be performed at the property located at:

2121 Fuller Drive Canyon Lake, Texas 78133

111.

, Texas.

- V. Payment(s): The fee for this Agreement, <u>Final Area Auc</u>only covers the Services described herein. This fee does not cover equipment, parts or labor supplied for repairs or charges for unscheduled Client-requested trips to the site. By signing this Contract, the Client is authorizing the Contractor to remove any parts which were installed but not paid for at the end of 30 days. The Client is still responsible for any labor costs associated with the installation and remove of said parts.
- VI. Client's Responsibilities: The Client is responsible for each and all of the following:
 - 1. Maintain chlorinator and provide proper chlorine supply, if OSSF is equipped with same.
 - 2. Provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow **Contractor** easy access to all parts of the OSSF.
 - 3. Immediately notify Contractor and Agency of any and all problems with, including failure of the OSSF.
 - 4. Upon receiving a written notification of services needed from the Contractor, it becomes the Client's responsibility to contact the Contractor to authorize the service. If the Client chooses to use a different contractor to perform the service, the Client is responsible for ensuring the Contractor holds the proper license (Installer II, Maintenance provider) and is certified by the manufacturer. Also, the Client is responsible for ensuring proper notification is given to the Agency, as required by the State and local Agency rules.
 - 5. Clients residing in <u>Comal</u> County should allow for samples at both the inlet and outlet to the OSSF to be obtained by the Contractor for the purpose of evaluating, the OSSF's performance when requested by

Contractor: Initials: Client:

the Client. If these samples are sent to the lab for testing, the Client will directly pay the lab for the cost of the Testing plus pay the Contractor for all man-hours expended in providing this additional service at the Cappen \$75.00 per hour.

- Not allow the backwash from water treatment or water conditioning equipment to enter the OSAN 18 2019
- 7. Maintain site drainage to prevent adverse effects on OSSF.
- 8. Promptly and fully pay Contractor's bills, fees, or invoices as described herein.
- COUNTY ENGINELY VII. Access by Contractor: Contractor, or personnel authorized by the Contractor, may enter the property at reasonable times without prior notice for the purpose of performing the above-described Services. Contractor will require access to the OSSF electrical and physical components, including tanks, by means of manways or risers for the purpose of evaluations required by manufacturer, and/or rules. If such manways or risers are not in place, excavation together with other labor and materials will be required, and will be billed to Client as an additional service at the rate of \$75.00 per hour, plus materials billed also. Excavated soil is to be replaced as best as reasonably prossible.
- VIII. Limits of Liability: In no event shall the Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract tort or any other theory. In no event shall the Contractor's liability for direct damages exceed the price for the Services described in this Agreement.
- IX. Entire Agreement: This Agreement contains the entire agreement of the parties, and there are no other promisies or conditions in any other agreement, oral or written. 1

Client and/or authorized agent:	Vaisp	Noor
Print Name: Craig & Kimberly Meier	Signature: Kinberty	reur
Date:	Email address: mrcraigmeier@aol.com	
Physical Address: 2121 Fuller Drive	Canyon Lake	, Texas (Zip) <u>78133</u>
Mailing Address: 2596 Fuller Circle	Canyon Lake	, Texas (Zip)78133
Phone Numbers: Home: (20) 367-6026 Work: ()Cell: (<u>972)953 - 8509</u> Fax:	()
Carl W Eoff Bear Creek Drive New Braunfels, Texas 78132 Cell: 210-669-6088 Office: 210-609-6631 Fax: 210-609-6631	Signature:	Date:
Certification held by Carl W. Eoff:		

- Installer II License #: OS0029546
- OSSF Maintenance Provider #: MP0001745

OSSF SOIL EVALUATION REPORT INFORMATION

COMAL COUNTY

DATE: 11-25-18

Applicant Information:

Name: Craig & Kimberly Meier Address: 2596 Fuller Circle City: Canyon Lake State: Texas Zip: 78133 Ph: (972) 953-8509 Fax:

Property Location:

Lot: 52 Block: A Subdivision: Canyon Lake Estates, Unit 1 Street/Road Address: 2121 Fuller Drive City: Canyon Lake State: TX Zip: 78133 Additional:

Site Evaluator Information:

Name: Brian Erxleben Address: 562 S. Hwy 123 Bypass #128 City: Seguin State: Texas Zip: 78155 Ph: (830) 660-9133 E-mail: bandverx@gmail.com

Installer Information:

Name: Carl Eoff, OS0029546 Company: Address: 420 Baer Creek Drive City: New Braunfels State: TX Zip: 78132 Ph: (210) 669-6088 Fax:

Show:

SCHEMATIC of LOT of TRACT

North arrow, adjacent streets, property lines, dimensions, location of buildings, easements, swimming pools, water lines, and other structures where known.

Location of existing or proposed water wells within 150 feet of property.

Indicate slope or provide contour lines from the structure to the farthest location for the proposed soil RECEIVED absorption or irrigation area.

Location of soil boring or dug pits (show with respect to a known reference point).

IAN 18 2019 Location of drainage ways, water impoundment areas, cut or fills bank, sharp slopes and breaks. Lot Size: 0.165 acres

SITE DRAWING

COUNTY ENGINEER

SEE SITE PLAN			
		2	
FEA	TURES OF	SITE AREA	
Presence of 100 year flood zone		Presence of upper water shed	YESNO_ <u>X</u>
Existing or proposed water well in nearby area Presence of adjacent ponds, streams, water impoundmen		Organized sewage service available to lot	YESNO_ <u>X</u>
Site Evaluator: NAME: <u>BRIAN ERXLEBEN</u> Signature:	1/1	License No	• 11458

COMAL COUNTY ENVIRONMENTAL HEALTH DEPARTMENT OSSF SOIL EVALUATION FORM

RECEIVED

JAN 1 8 2019

Owners Name: <u>Craig & Kimberly Meier</u> Physical Address: <u>2121 Fuller Drive</u> Canyon Lake, Texas 78133

Name of Site Evaluator: Brian Erxleben, S.E. #11458

Date Performed: 11-20-18 Proposed Excavation Depth: N/A - Mounded Drip

Requirements:

ements: At least two soil excavations must be performed on the site, at opposite ends of the proposed disposal area. Soil evaluation must be shown on the application site drawing or designer's 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.

Please describe each soil horizon and identify any restrictive features in the space provided below. Draw lines at the appropriate depths.

SOIL BORING NUMBER 1&2

Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III- blocky, platy or massive	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0 <u>↓</u> 3" 1 2 3 4 5	<u>Type 3</u> Rock	<u>Clay loam</u>	<u>No gravel</u>	<u>None</u>	<u>None</u> Yes	Mounded aerobic drip on a minimum of 12" of type 2 imported soil

Depth (Feet)	Texture Class	Soil Texture	Structure (For Class III- blocky, platy or massive	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations

FEATURES OF SITE AREA

Presence of 100 year flood zone Presence of adjacent ponds, streams, water impoundments Existing or proposed water well in nearby area Organized sewage available to lot or tract Recharge features within 150 feet



I certify that the above statements are true and are based on my own field observations.

Signature of Site Evaluator

Date

11-25-18

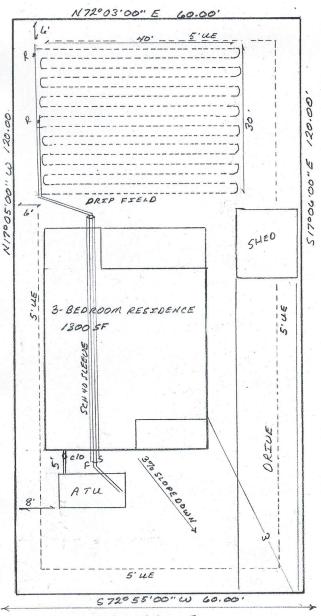
Brian Erxleben, R.S., S.E. 562 S. Hwy 123 Bypass #128 Seguin, Texas 78155 Mobile (830) 660-9133 Fax (830) 372-3778

OSSF DESIGN

Owner: Craig & Kimberly Meier Location: 2121 Fuller Circle Canyon Lake, Texas 78133 Phone: (972) 953-8509 Date: 11-25-18	
Development: Residence with water saving devices Bedrooms: 3 Sq. Ft: 1300	
Q: 240 gpd Soil: Type 3 Ra: 0.20 gall/ft²/day JAN 1 8 201	9
System Type: Aerobic Treatment & Disinfection/Drip Disposal	EER
ATU: Nu-Water B-550 600 gpd Dripline: Netafim Bioline 0.62	
Dripline Spacing: 2' Emitter Spacing: 24" Emitter Flow Rate (F): 0.62 gph	
Total Absorption Area Required (A): 1200 ft^2 (Q/R _a) Total Length Dripline Required (L): 600 ft (A/2)	
Total Length Dripline Designed: 640 ft Total Absorption Area Designed: 1280 ft ² (L)(2 ft)	
Total Number Emitters (E): 320 (L/2) Dripline Flow Rate: 3.31 gpm (E)(F)/(60 min/hr)	
Dosing Duration: 9 min (6-15 min) Dosing Volume: 30 gall (Duration)(Dripline Flow Rate)	
Doses Per Day: 8 (Q/Dosing Volume) Dosing Interval: 2 hrs (18/Doses per day + 1)	
Supply Line: Sch 40, 1" purple (~150') Flush Line: Sch 40, 1" purple (~150')	
Filter: 100-130 micron disc filter, manual flush Flush Valve: 1" Ball Valve	
Disinfection: Required	

Pump Used: 0.50 HP, 20 gpm High Head Effluent Pump





FULLER DRIVE

LOT 52, BLOCK A CANYON LAKE ESTATES, UNIT 1 0.165 ACRES

LOT IS LOCATED OUTSIDE OF THE 100-YEAR FLOODPLAIN AND WITHIN THE CONTRIBUTING ZONE. THERE IS NO EXISTING CZP FOR THE SUBDIVISION. DEVELOPMENT IS A SINGLE FAMILY DWELLING WITH <20% IMPERVIOUS COVER AND A CZP IS NOT REQUIRED.

AS-BUILT DEŞIGN:

CRAIG & KIMBERLY ME	CIER
2121 FULLER DRIVE	
CANYON LAKE, TEXAS	78133 -
BRIAN C. ERXLEBEN, R.S.	DATE: 4-26-19
562 S. HWY 123 BYPASS #128	
SEGUIN, TEXAS 78155	
(830) 660-9133	SCALE: 1" = 20'

REVISED 10:13 am, Apr 26, 2019

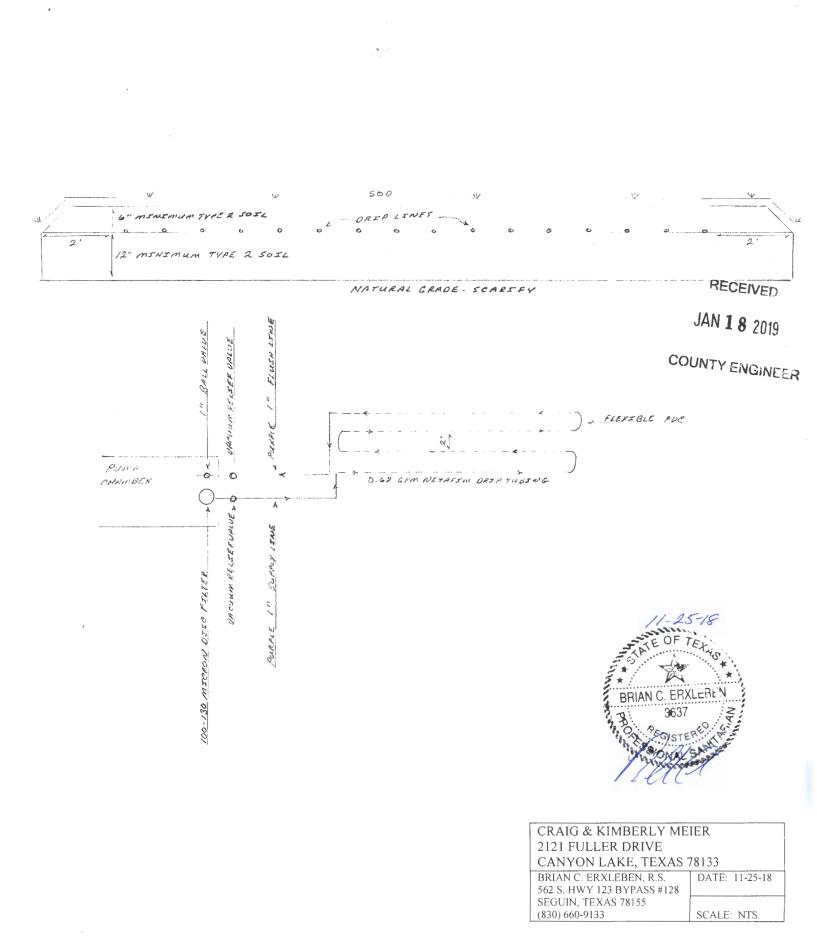


NOTES:

- 1. This system is designed for a maximum of 240 gall of wastewater per day. Exceeding this volume may result in system failure.
- 2. System designed as a mounded aerobic drip system with disinfection. Replacement soil shall be type 2 and the drainfield shall be sized on the absorption rate for the native type 3 soil.
- 3. Install a minimum 500 gpd ATU. Audible and visual high water alarms, external disconnect within site of the pump tank, pump and alarms on separate breakers and external wiring in conduit required.
- 4. Install a 2-way cleanout in a 3" or 4" sch 40 tightline from the house to the tank, minimum slope 1/8 in/ft. The native soil shall be scarified and a minimum of 12" of type 2 sandy loam soil shall be placed over the / dripfield area and a minimum of 2' beyond the edges.
- Install 640' of Netafim 0.62 gph dripline on top of the imported soil, 2' apart. No single lateral shall exceed 400' in length. All loops in the dripline shall be flexible PVC.
- 6. Supply (S) and flush (F) lines shall be 1" purple sch 40. A 100-130 micron disc filter shall be installed in the supply line inside the pump chamber. A 1" ball valve shall be installed on the flush line and shall be located in the tank or in a valve box. This valve shall be used to open the flush line periodically to flush the drip lines.
- 7. Disinfection is required and the flush line shall terminate in the pump chamber.
- 8. A vacuum relief valve (R) shall be installed on both the supply and flush lines at their highest points. The valves shall be located in valve boxes filled with pea gravel.
- 9. Cover the dripfield with a minimum of 6" type 2 soil. Drainfield shall be sodded in grass.
- 10. The pump shall operate on a timer set to run for a 9 minute duration every 2 hours.
- 11. Vehicles should not be driven over the drainfield and impervious materials and irrigation systems shall not be installed over the drainfield.
- 12. Supply and flush lines to be sleeved in sch 40 under and to 5' from the house to provide the equivalent protection of a 5' separation.

DRIP FIELD DETAIL SHEET

r



TOTAL DYNAMIC HEAD (TDH) CALCULATIONS

- Total Flow = 3.31 gpm
- Operational Pressure = **25 psi**
- Number of Laterals = 2
- Lateral Length = 320 ft
- Supply Line 1 in Sch 40 = 50'
- Head Loss Friction Laterals: (0.78 ft/100 ft)(320 ft)(2) = 5 psi
- Head Loss Friction Supply: 2 psi
- Head Loss Friction Filter = 1 psi
- Head Loss Friction Fittings: 1 psi
- Head Loss Elevation: 9 ft
- TDH = (2.31 ft/psi)(25 psi + 5 psi + 2 psi + 1 psi + 1 psi) + 9 ft = **88 ft**

PUMP REQUIREMENT = 3.31 GPM @ 88 FT TDH

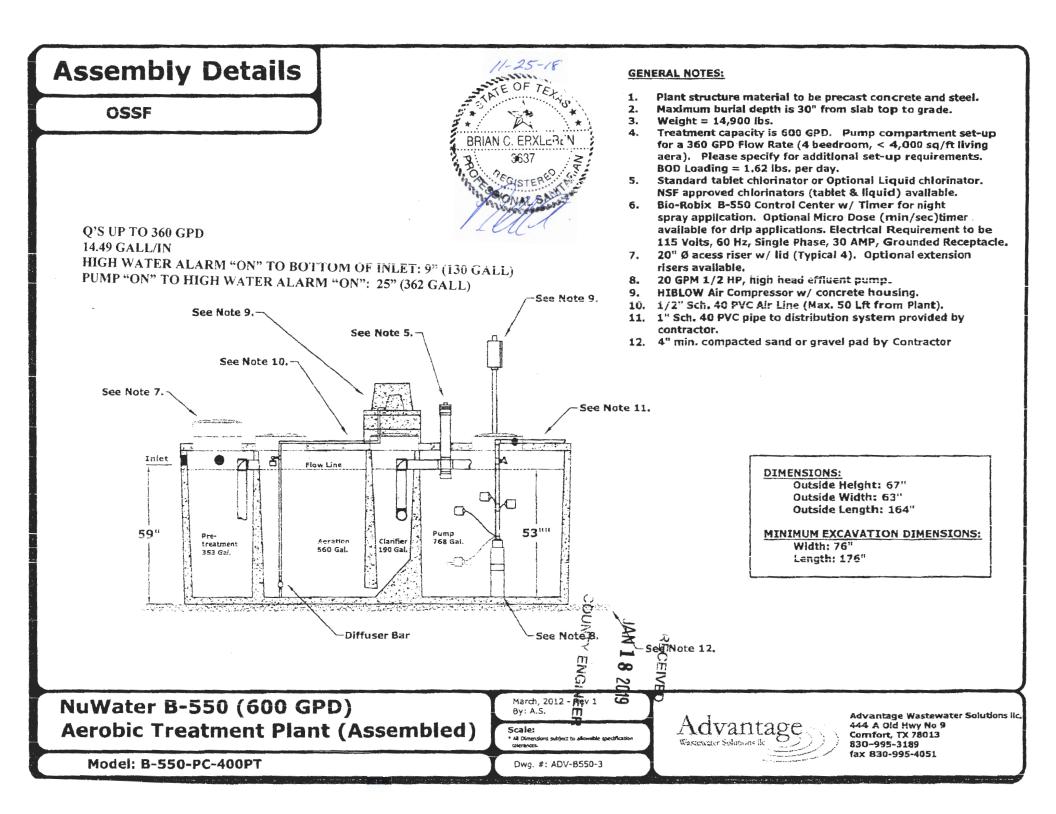
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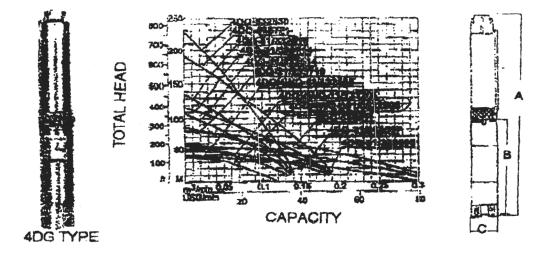
COLD ITY ENGINEER



CRAIG & KIMBERLY MEIER					
2121 FULLER DRIVE					
CANYON LAKE, TEXAS 78133					
BRIAN C. ERXLEBEN, R.S.	BRIAN C. ERXLEBEN, R.S. DATE: 11-25-18				
562 S. HWY 123 BYPASS #128					
SEGUIN, TEXAS 78155					
(830) 660-9133 SCALE: 1" = '					



STAINLESS STEEL PUMP - SINGLE PHASE



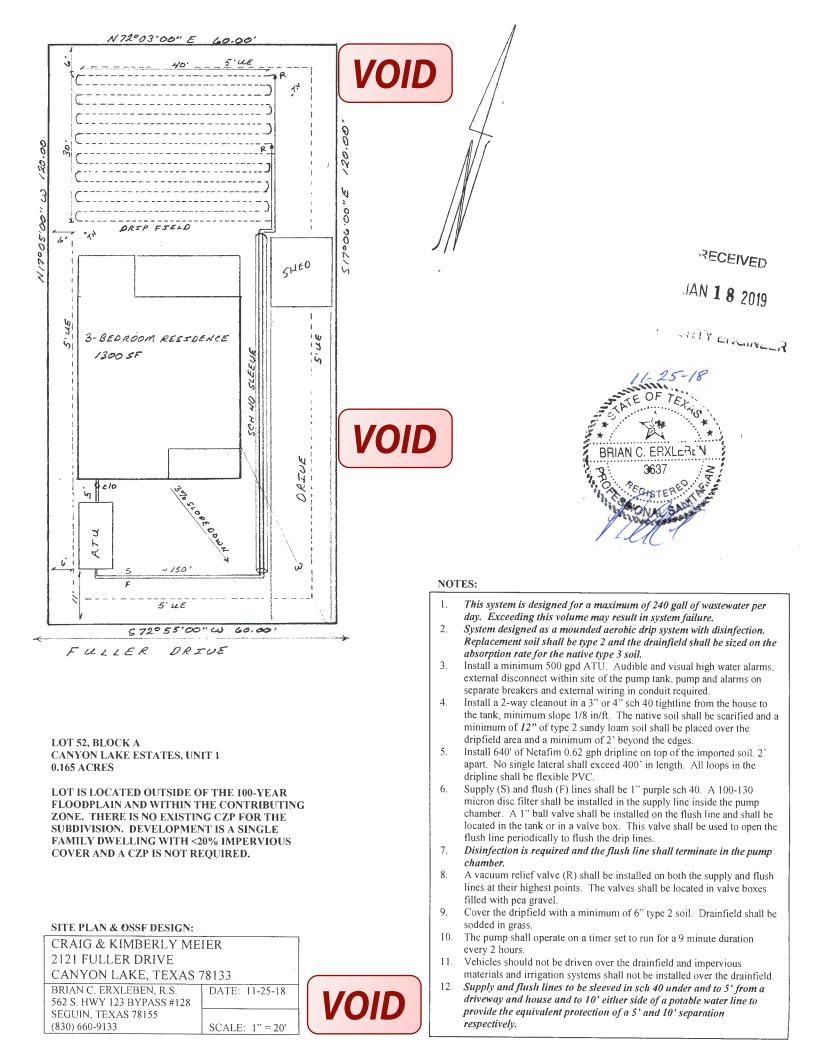
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Specification:

COUNTY ENGINEE

		TYPE	MOTOR		PUMP			STAINLESS STEEL		
									HEIGHT	
inch	Capacity	Stainless Stoc!	Power KW (HP)	Phase PH	Voltage V	Dish Dial	Max Head M / FT	Max Flow Mmm / (SPD	mm A / B	C / Kg
4 ⁿ	25 GPM	4DQ- 0512505	0.4(1/2)	10-2W	100- 240	1 1/4"	37 121	ci.13 34	580 270	98 12
4	25 GPM	40Q- 0632505	0.4(1/2)	30	200)- 48()	1 1/4"	37 121	0.13 34	530 250	96



STC 242884 VN

General Warranty Deed

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.

Date: September 20, 2018

Grantor: JACOB SNYDER and ANGEL LLANOS

Grantor's Mailing Address: 1010 Heritage Park, Cedar Park, TX 78613

Grantee: KIMBERLY MEIER and CRAIG MEIER

Grantee's Mailing Address: 2596 Fuller Circle, Canyon Lake, TX 78133

Consideration: Cash and other valuable consideration,

Property (including any improvements):

Lot 52, Block A, CANYON LAKE ESTATES, SECTION ONE, situated in Comal County, Texas, according to the map or plat thereof recorded in Volume 1, Page(s) 17, Map and Plat Records of Comal County, Texas;

Reservations from Conveyance: NONE.

Exceptions to Conveyance and Warranty: Any and all restrictions, covenants, conditions, reservations, mineral leases, interests, agreements and easements, shown of record in the hereinabove mentioned County and State and to all zoning laws, regulations and ordinances of municipal and/or governmental authorities, if any, but only to the extent that they are still in effect relating to the hereinabove described property, and further subject to all stand by fees, taxes and assessments by any taxing authority for the current and subsequent years, and subsequent taxes and assessments for prior years due to changes in land usage or ownership and all matters reflected on the hereinabove mentioned plat.

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

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

OB SNYDER

IAN 1 8 2019

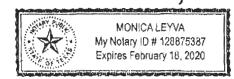
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STATE OF TEXAS

COUNTY OF ELPASO

This instrument was acknowledged before me on the 10 day of September, 2018, by JACO SNYDER.

Notary Public in and for the tate of Texas



RECEIVED

JAN 1 8 2019

ACKNOWLEDG	MENT
STATE OF TEXAS §	
WI Midmonson \$ COUNTY OF COMAL	,
This instrument was acknowledged before me on the	-Armit Alm
COUNTY OF LITTLY arson	Notary Public in and for the State of Texas
Sworn to (ur affirmed) and subscribed before me theorn to un dr. 12 22, 20 18 Stilled before me this	STATE OF TORON
Netazy, Eublic's SignAture Modern Ariston Expires on My Commit:	Sworn to (or affirmed) and subscribed before me this <u>251</u> day of <u>ep</u> + , 20 <u>6</u> , by <u>Argut</u> <u>Hanos</u> <u>Meagan Heaf</u> Notary Public's Signature My Commission Expires on <u>Tuy</u> , 2, 2022
AFTER RECORDING RETURN TO:	PREPARED IN THE LAW OFFICES OF:
CRAIG MEIER KIMBERLY MEIER 2596 Fuller Circle Canyon Lake, TX 78133 Invitate of Texas Invitate of Texas Invitate of Texas	THE HOUGHAM LAW FIRM 5152 Fredericksburg Road, Ste. 280A San Antonio, Texas 78229 Telephone No. (210) 375-7570 Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 10/17/2018 03:49:59 PM TERRI 2 Pages(s) 201806040986



COUNTY OF COMAL

COUNTY ENGINEER'S OFFICE

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OSSF DEVELOPMENT ADDI ICA

USSF DEVELOFMENT AFFLICATION CHECKLIST	Stall will complete shaded
B	items Date Received Initials
	Permit Number
Instructions:	
Place a check mark next to all items that apply. For items that do not apply, pla Application Checklist <u>must</u> accompany the completed application.	ce "N/A". This OSSF Development
OSSF Permit	
Completed Application for Permit for Authorization to Construct an Operate	n On-Site Sewage Facility and License to
Site/Soil Evaluation Completed by a Certified Site Evaluator or a	Professional Engineer

Planning Materials of the OSSF as Required by the TCEQ Rules for OSSF Chapter 285. Planning Neterials of shall consist of a scaled design and all system specifications.

JAN 1 8 2019

Required Permit Fee

Copy of Recorded Deed

Surface Application/Aerobic Treatment System

Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public

Signed Maintenance Contract with Effective Date as Issuance of License to Operate

I affirm that I have provided all information required for my OSSF Development Application and that this application constitutes a completed OSSF Development Application.

Kimberly Du Signature of Applicant

COMPL	ETEA	PPLIC	ATION
	The line /		

Check No.

Receipt No.

INCOMPLETE APPLICATION

(Missing Items Circled, Application Refused)