

Comal County

OFFICE OF COMAL COUNTY ENGINEER

License to Operate On-Site Sewage Treatment and Disposal Facility

Issued This Date: 04/25/2019 Permit Number: 108709

Location Description: 1277 EDWARDS BLVD NEW BRAUNFELS, TX 78132

Subdivision: Preiss Heights
Unit:
Lot: 6
Block: 7
Acreage:

Type of System: Aerobic Drip Irrigation

Issued to: Clutter Falls, 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.

[Signature]

ENVIRONMENTAL HEALTH INSPECTOR

Licensing Authority
Comal County Environmental Health

[Signature]

ENVIRONMENTAL HEALTH COORDINATOR

OS 0025599

OS0034322

Find existing

210-833-2509

Richard Charles

Comal County Environmental Health OSSF Inspection Sheet

Installer Name: Cantysille OSSF Installer #: 050033066

1st Inspection Date: 4-2-19 2nd Inspection Date: _____ 3rd Inspection Date: _____

Inspector Name: andrea J. Inspector Name: _____ Inspector Name: _____

Permit#: 108109 Address: 1277 Edwards Blvd

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

4-2-19

Tanks level, set, operational. No leaks.
Cover tank: line S. old tank pumped
Crushed. Need to see steering from both
bases. Application needs revision.

4-25-19

Both lines
sewered.
Covered per design.

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	SEPTIC TANK Tank(s) Clearly Marked SEPTIC TANK IF Single Tank, 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) 285.91(2) 285.32(b)(1)(F) 285.32(b)(1)(E)(iii) 285.32(b)(1)(E)(ii)(II) 285.32(b)(1)(E)(ii)(I) 285.32(b)(1)(E)(i) 285.32(b)(1)(D) 285.32(b)(1)(C)(ii) 285.32(b)(1)(C)(i) 285.32(b)(1)(B) 285.32(b)(1)(A) 285.32(b)(1)(E)(iv)				
9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	✓	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		✓		
10	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
11	SEPTIC TANK Secondary restraint system 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)				
12	SEPTIC TANK Tank Volume Installed						
13	PUMP TANK Volume Installed	✓		1500	✓		
14	AEROBIC TREATMENT UNIT Size Installed	✓		1000	✓		
15	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number	✓		clearspan	✓		
16	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo-transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				









**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
19	DISPOSAL SYSTEM Drip Irrigation	✓	285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)		✓		
20	DISPOSAL SYSTEM Soil Substitution		285.33(d)(4)				
21	DISPOSAL SYSTEM Pumped Effluent		285.33(a)(3) 285.33(a)(1) 285.33(a)(2)				
22	DISPOSAL SYSTEM Gravelless Pipe		285.33(a)(3) 285.33(a)(2) 285.33(a)(4) 285.33(a)(1)				
23	DISPOSAL SYSTEM Mound		285.33(a)(3) 285.33(a)(1) 285.33(a)(2) 285.33(a)(4)				
24	DISPOSAL SYSTEM Other (describe) (Approved Design)		285.33(d)(6) 285.33(c)(4)				
25	DRAINFIELD Absorptive Drainline 3" PVC or 4" PVC						
26	DRAINFIELD Area Installed						
27	DRAINFIELD Level to within 1 inch per 25 feet and within 3 inches over entire excavation		285.33(b)(1)(A)(v)				
28	DRAINFIELD Excavation Width DRAINFIELD Excavation Depth DRAINFIELD Excavation Separation DRAINFIELD Depth of Porous Media DRAINFIELD Type of Porous Media						
29	DRAINFIELD Pipe and Gravel - Geotextile Fabric in Place		285.33(b)(1)(E)				
30	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)				
31	LOW PRESSURE DISPOSAL SYSTEM Adequate Trench Length & Width, and Adequate Separation Distance between Trenches		285.33(d)(1)(C)(i)				

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	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)				
32	AEROBIC TREATMENT UNIT is Aerobic Unit Installed According to Approved Guidelines.	✓	285.32(c)(1)	See notes	✓		
33	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	✓			✓		
34	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	✓			✓		
36	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	✓			✓		
38	PUMP TANK Electrical Connections in Approved Junction Boxes / Wiring Buried	✓			✓		
39							

**Comal County Environmental Health
OSSF Inspection Sheet**

No.	Description	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
40	APPLICATION AREA Distribution Pipe, Fitting, Sprinkler Heads & Valve Covers Color Coded Purple?		285.33(d)(2)(G)(iii)(II)285.33(d)(2)(G)(iii)(III)285.33(d)(2)(G)(v) 285.33(d)(2)(G)(iii) 285.33(d)(2)(G)(iv) 285.33(d)(2)(G)(i) 285.33(d)(2)(G)(ii) 285.33(d)(2)(G)(iii)(I)				
41	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			SJE			
45	PUMP TANK Type/Size of Pump Installed			1080			

find existing 210-833-2509 Richard Charles

**Comal County Environmental Health
OSSF Inspection Sheet**

Installer Name: Cantysial OSSF Installer #: 050033066
 1st Inspection Date: 4-2-19 2nd Inspection Date: _____ 3rd Inspection Date: _____
 Inspector Name: andrea J. Inspector Name: _____ Inspector Name: _____
 Permit#: 108709 Address: 1277 Edwards Blvd



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3	SEWER PIPE Proper Type Pipe from Structure to Disposal System (Cast Iron, Ductile Iron, Sch. 40, SDR 26)	/	285.32(a)(1)	See notes	/		
4	SEWER PIPE Slope from the Sewer to the Tank at least 1/8 Inch Per Foot	/	285.32(a)(3)	/	/		
5	SEWER PIPE Two Way Sanitary - Type Cleanout Properly Installed (Add. C/O Every 100' &/or 90 degree bends)	/	285.32(a)(5)	/	/		
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4-2-19
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 Cover tank: line S. old tank pumped
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9	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used	✓	285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)		✓		
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**Comal County Environmental Health
OSSF Inspection Sheet**

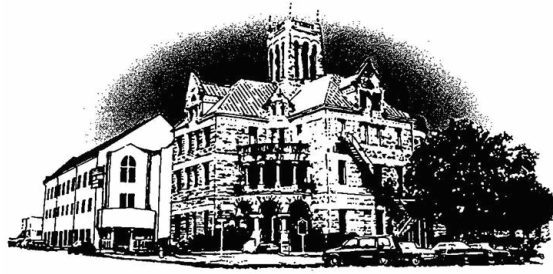
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OSSF Inspection Sheet**

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35	AEROBIC TREATMENT UNIT Chlorinator Properly Installed with Chlorine Tablets in Place.	✓			✓		
36	PUMP TANK Is the Pump Tank an approved concrete tank or other acceptable materials & construction PUMP TANK Sampling Port Provided in the Treated Effluent Line PUMP TANK Check Valve and/or Anti- Siphon Device Present When Required PUMP TANK Audible and Visual High Water Alarm Installed on Separate Circuit From Pump	✓			✓		
37	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	✓			✓		
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**Comal County Environmental Health
OSSF Inspection Sheet**

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42	APPLICATION AREA Area Installed						
43	PUMP TANK Meets Minimum Reserve Capacity Requirements	✓			✓		
44	PUMP TANK Material Type & Manufacturer	✓		SJE	✓		
45	PUMP TANK Type/Size of Pump Installed	✓		1080	✓		



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: 108709
Issued This Date: 02/14/2019
This permit is hereby given to: Clutter Falls, LLC

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

1277 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

Subdivision: Preiss Heights

Unit:

Lot: 6

Block: 7

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.

OSSF DEVELOPMENT APPLICATION CHECKLIST

Staff will complete shaded

<i>items Date Received</i>	<i>initials</i>

<i>Permit Number</i>

Instructions:

Place a check mark next to all items that apply. For items that do not apply, place "N/A". This OSSF Development Application Checklist must accompany the completed application.

OSSF Permit

Completed Application for Permit for Authorization to Construct an On-Site Sewage Facility and License to Operate

Site/Soil Evaluation Completed by a Certified Site Evaluator or a Professional Engineer

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

Required Permit Fee


Copy of Recorded Deed

Surface Application/Aerobic Treatment System

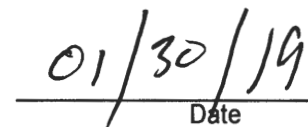
Recorded Certification of OSSF Requiring Maintenance/Affidavit to the Public

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.



 Signature of Applicant



 Date

___ COMPLETE APPLICATION	
Check No. _____	Receipt No. _____

___ INCOMPLETE APPLICATION
(Missing Items Circled, Application Refused)

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***

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

Date January 21, 2019

Permit # 108709

Owner Name CLUTTER FALLS, LLC
Mailing Address 2619 DEERFOOT TRAIL
City, State, Zip AUSTIN, TEXAS 78704
Phone# 512-947-4871
Email amitchamore@gmail.com

Agent Name GREG W. JOHNSON, P.E.
Agent Address 170 HOLLOW OAK
City, State, Zip NEW BRAUNFELS, TX 78132
Phone # (830) 905-2778
Email gregjohnsonpe@yahoo.com

All correspondence should be sent to: Owner Agent Both Method: Mail Email

Subdivision Name PREISS HEIGHTS Unit/Phase/Section _____ Lot 6 Block 7
Acreage/Legal _____
Street Name/Address 1277 EDWARDS BLVD City NEW BRAUNFELS Zip 78132

Type of Development:

Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) HOUSE + APARTMENT

Number of Bedrooms 4 + 2

Indicate Sq Ft of Living Area 2246 + 658

Commercial or Institutional Facility

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility SHORT TERM RENTAL

Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants _____

Restaurants, Lounges, Theaters - Indicate Number of Seats _____

Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds UP TO 12 ppl up to 4 days/wk

Travel Trailer/RV Parks - Indicate Number of Spaces _____

Miscellaneous _____

Estimated Cost of Construction: \$ EXISTING (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

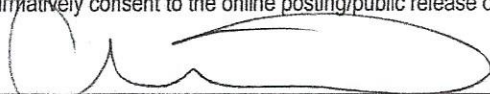
Yes No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water Public Private Well

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 and does not conceal any material facts.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.
- I also understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.


Signature of Owner

29 JAN 19
Date

#108709

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH

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

REVISED 9:44 am, Apr 01, 2019

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

Size of Septic System Required Based on Planning Materials & Soil Evaluation

Tank Size(s) (Gallons) 150 TRASH/1500 EQ & CLEP/1500 EQ 1000 GPD & 1000 PUMP Absorption/Application Area (Sq Ft) 5000

Gallons Per Day (As Per TCEQ Table III) 500

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [X] Yes [] No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? [] Yes [X] 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 [X] No

(If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? [] Yes [X] No

Is there an existing TCEQ approval CZP for the property? [] Yes [X] No

(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? [] Yes [] No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? [] Yes [X] No

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable

Signature of Designer (Handwritten Signature)

Date January 23 2019

3
Yes

AFFIDAVIT



201906003373 01/31/2019 11:32:52 AM 1/1

**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.

I

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

RECEIVED

II

JAN 31 2019

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):

COUNTY ENGINEER
SUBDIVISION

UNIT/PHASE/SECTION 7 BLOCK 6 LOT PREISS HEIGHTS

IF NOT IN SUBDIVISION: _____ ACREAGE _____ SURVEY _____

The property is owned by (insert owner's full name): CLUTTER FALLS, LLC,
a Texas limited liability company

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

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

WITNESS BY HAND(S) ON THIS 29th DAY OF January, 2019

[Signature]
Owner(s) signature(s)

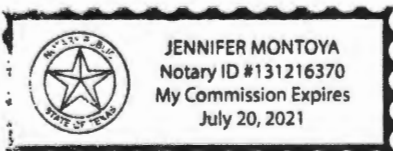
Aaron Mitchamore - Manager
Owner (s) Printed name (s)

Aaron Mitchamore
January, 2019

SWORN TO AND SUBSCRIBED BEFORE ME ON THIS 29 DAY OF

[Signature]
Notary Public Signature

THIS AREA FOR COMAL COUNTY CLERK RECORDING PURPOSES ONLY



(Notary Seal Here)

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
01/31/2019 11:32:52 AM
TERRI 1 Page(s)
201906003373



Bobbie Koepp

Countryside Construction, Inc.
300 Chapman Parkway, Canyon Lake, TX. 78133
Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662

Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: **CLUTTER FALLS, LLC** Address: **1277 EDWARDS BLVD**
Sub-Div./County: **PREISS HEIGHTS - COMAL** **NEW BRAUNFELS, TX. 78132**
Permit #: **108709 DRIP** Model #: **CLEARSTREAM - 1000** Serial #: _____
Phone: **512-947-4871**

(X) Initial Two Year Service Agreement & Two Year Limited Warranty

Legal Description: LT 6, PREISS HEIGHTS, COMAL COUNTY

The effective date of the initial maintenance contract shall be the date the License to Operate is issued.
This contract will be in effect FROM: LTO TO: _____ and will provide the following:

- A: An inspection/service call every (4) four months which will include: inspection, adjustments and servicing of the mechanical & electrical components as necessary to insure proper function of the system.
- B: An effluent quality inspection consisting of a visual check for color, turbidity, scum, overflow and odor.
- C: **The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable).** If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.
- D: If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
- E: The response time to a complaint by the property owner regarding operation of the system, shall be within "48 hours," from the time of notification.
- F: **ANY PARTS, WARRANTY OR NON-WARRANTY, OR FREIGHT CHARGES, LABOR OR SERVICE CALLS DUE NOT PAID FOR REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND COULD RESULT IN REPOSSESSION OF PARTS BY COUNTRYSIDE CONSTRUCTION.**
- G: **THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.**

Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTIED PARTS" EXCHANGED DURING WARRANTY.** All other components will be according to manufacturer's warranties.

Important: As Countryside Construction, Inc. cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. This service agreement does not cover the cost of "service calls, labor or materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

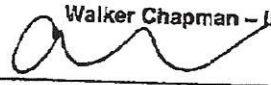
This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:


Violations of the warranty also include: disconnecting the alarm, restricting ventilation to the aerator, overloading the system above its rated capacity; or flooding by external means. Rodent, insect or fire ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be "activated" (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Serviced by: Countryside Construction Inc.

Walker Chapman - Installer's Licensee #SO0002929 - OSSF Maintenance Provider Licensee #MP0000035

(X)  Print Name (X) Aaron Mitcham Date: Feb. 27, 2019

(X)  Date: 2-27-19 Authorized Service Representative (revised 10/9/09)

Ritzen, Brenda

From: Greg Johnson <gregjohnsonpe@yahoo.com>
Sent: Monday, April 15, 2019 8:21 AM
To: Ritzen, Brenda
Subject: Fw: Fwd: EAPP Plan Exemption for 1277 Edwards Blvd, New Braunfels, Texas, 78132
Attachments: image001.png; image001.png

Send for Greg W. Johnson, P.E., R.S.)
170 Hollow Oak
New Braunfels, TX 78132

Office/Fax (830) 905-2778
Email: gregjohnsonpe@yahoo.com

RECEIVED
By Brenda Ritzen at 8:26 am, Apr 15, 2019

----- Forwarded Message -----

From: Aaron Mitchamore <amitchamore@gmail.com>
To: gregjohnsonpe@yahoo.com
Sent: Friday, April 5, 2019 8:53 AM
Subject: Fwd: EAPP Plan Exemption for 1277 Edwards Blvd, New Braunfels, Texas, 78132

----- Forwarded message -----

From: **Russell Hare** <Russell.Hare@tceq.texas.gov>
Date: Fri, Apr 5, 2019, 7:47 AM
Subject: EAPP Plan Exemption for 1277 Edwards Blvd, New Braunfels, Texas, 78132
To: amitchamore@gmail.com <amitchamore@gmail.com>

Mr. Mitchamore,

Based on our phone conversation on April 3, 2019, you are requesting confirmation that the site at 1277 Edwards Blvd, New Braunfels, Texas, 78132 will not need an Edwards Aquifer Protection Plan for proposed changes to the site's on-site-sewage-facility. You stated that the only change to be made was to upgrade the current OSSF to an aerobic system with no construction of impervious cover at the property. Based on the information you provide the site does not require the submittal of an Edwards Aquifer Protection Plan. The applicable section of 30 TAC 213 is cited below.

30 TAC 213.5(h)(2) An individual land owner who seeks to construct his/her own single-family residence or associated residential structures on the site is exempt from the Edwards Aquifer protection plan application requirements under this section, provided that he/she does not exceed 20% impervious cover on the site.

Regards,

Russell Hare, E.I.T.
Environmental Investigator, San Antonio Region
Edwards Aquifer Protection Program
Texas Commission on Environmental Quality
14250 Judson Road
San Antonio, TX 78233
Phone: 210-403-4061
Fax: 210-545-4329
russell.hare@tceq.texas.gov

Property

Account

Property ID: 44992 Legal Description: PREISS HEIGHTS, BLOCK 7, LOT 6
Geographic ID: 420600002600 Zoning:
Type: Real Agent Code:
Property Use Code: 830
Property Use Description: BED & BREAKFAST

Location

Address: 1277 EDWARDS BLVD Mapsco:
NEW BRAUNFELS, TX 78132
Neighborhood: LOWER GUADALUPE-NBHDS WELL Map ID:
Neighborhood CD: RIVER-L1

Owner

Name: CLUTTER FALLS LLC Owner ID: 991511
Mailing Address: 2619 DEERFOOT TRL % Ownership: 100.000000000000%
AUSTIN, TX 78704-2715

Exemptions:

▶ Values

▶ Taxing Jurisdiction

▼ Improvement / Building

Improvement #1: RESIDENTIAL **State Code:** A1 **Living Area:** 2380.0 sqft **Value:** \$350,490

Type	Description	Class CD	Exterior Wall	Year Built	SQFT
→ RES 1 1/2	Residential 1 1/2 story	GOOD - RAQ	FS,FS,ST	1986	1756.0
→ STR2	2nd Floor	*	WE	0	0.0
→ PC	Covered Porch (attached)	*	WE	0	76.0
→ PC	Covered Porch (attached)	*	WE	0	332.0
→ GSTH	Guest House Detached	GOOD - *		2010	624.0
→ DGF1	Detached Garage Finished	GOOD - *		2010	624.0
→ WD	Wood Deck	* - *		2010	192.0
→ WEL1	Water Well	*		0	1.0
→ SEP1	Septic System	*		0	1.0
→ WD	Wood Deck	* - *		2010	312.0
→ ADDN	Addition	*		2010	0.0
→ OP	Open Porch (attached w/no roof)	* - RAQ		2010	240.0
→ OP	Open Porch (attached w/no roof)	* - RAQ		2010	192.0

Greg W. Johnson, P.E.
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778

February 14, 2019

Comal County Office of Environmental Health
195 David Jonas Drive
New Braunfels, Texas 78132-3760

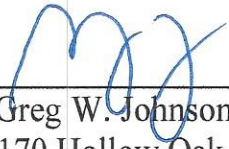
RE- SEPTIC DESIGN - #108709
1277 EDWARDS BLVD
PREISS HEIGHTS, BLOCK 7, LOT 6
NEW BRAUNFELS, TX 78132
CLUTTER FALLS, LLC

Ms. Brenda Ritzen,

The referenced property is located within the Edwards Aquifer Recharge Zone. This property is exempt from a WPAP because it is not a regulated activity according to §213.5(h)(2) "exempt ... does not exceed 20 % impervious cover on the site. To my knowledge no WPAP exists for this property.

Temporary erosion and sedimentation controls should be utilized as necessary prior to construction. If any sensitive feature (caves, solution cavities, sink holes, etc.) is discovered during construction, activities must be suspended immediately and the applicant or his agent must immediately notify the TCEQ Regional Office. After that operations can only proceed after the Executive Director approves required additional engineered impact plans.

Designed in accordance with Chapter 285, Subchapter D, §285.40, 285.4 1, & 285.42, Texas Commission on Environmental Quality (Effective December 29, 2016).

 02/14/19
Greg W. Johnson, P.E. No.67587/F#2585
170 Hollow Oak
New Braunfels, Texas 78132 - 830/905-2778



**ON-SITE SEWERAGE FACILITY
SOIL EVALUATION REPORT INFORMATION**

Date Soil Survey Performed: January 22, 2019

Site Location: PREISS HEIGHTS, BLOCK 7, LOT 6

Proposed Excavation Depth: N/A

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Requirements:

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

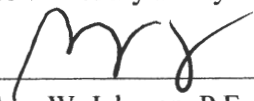
JAN 31 2019

COUNTY ENGINEER

SOIL BORING NUMBER		SURFACE EVALUATION				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	III	CLAY LOAM	N/A	NONE OBSERVED	LIMESTONE @ 6"	BROWN
1						
2						
3						
4						
5						

SOIL BORING NUMBER		SURFACE EVALUATION				
Depth (Feet)	Texture Class	Soil Texture	Gravel Analysis	Drainage (Mottles/ Water Table)	Restrictive Horizon	Observations
0	SAME		AS		ABOVE	
1						
2						
3						
4						
5						

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



 Greg W. Johnson, P.E. 67587-F2585, S.E. 11561

01/22/19

 Date

OSSF SOIL EVALUATION REPORT INFORMATION

Date: January 23, 2019

Applicant Information:

Name: CLUTTER FALLS, LLC.
Address: 2619 DEERFOOT TRAIL
City: AUSTIN State: TEXAS
Zip Code: 78704 Phone: (512) 947-4871

Site Evaluator Information:

Name: Greg W. Johnson, P.E., R.S. S.E. 11561
Address: 170 Hollow Oak
City: New Braunfels State: Texas
Zip Code: 78132 Phone & Fax (830)905-2778

Property Location:

Lot 6 Unit ___ Blk 7 Subd. PREISS HEIGHTS
Street Address: 1277 EDWARDS BLVD.
City: NEW BRAUNFELS Zip Code: 78132
Additional Info.: _____

Installer Information:

Name: _____
Company: _____
Address: _____
City: _____ State: _____
Zip Code: _____ Phone _____


Topography: Slope within proposed disposal area: 6 to 4 %
Presence of 100 yr. Flood Zone: YES X NO ___
Existing or proposed water well in nearby area. YES X NO ___ >100' (EXISTING)
Presence of adjacent ponds, streams, water impoundments YES X NO ___ >75'
Presence of upper water shed YES ___ NO X
Organized sewage service available to lot YES ___ NO X

RECEIVED

JAN 31 2019

COUNTY ENGINEER

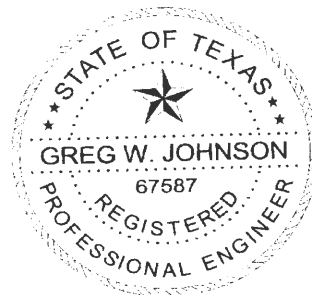
I HAVE PERFORMED A THOROUGH INVESTIGATION BEING A REGISTERED PROFESSIONAL ENGINEER AND SITE EVALUATOR IN ACCORDANCE WITH CHAPTER 285, SUBCHAPTER D, §285.30, & §285.40 (REGARDING RECHARGE FEATURES), TEXAS COMMISSION OF ENVIRONMENTAL QUALITY (EFFECTIVE DECEMBER 29, 2016).



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

01/23/19

DATE



FIRM #2585

**AEROBIC TREATMENT
DRIP TUBING SYSTEM
DESIGNED FOR:
CLUTTER FALLS, LLC
2619 DEERFOOT TRAIL
AUSTIN, TEXAS 78133**

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 5, at 1277 Edwards Blvd, the proposed system will serve an existing four bedroom residence (2264 sf.) and existing two bedroom apartment (658 sf), that may be used for short term rental, situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses, oak, and Mountain Cedar 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 or 4-inch SCH-40 pipe discharges from the buildings into a new 750 gallon trash tank then to a 1500 gallon flow equalization tank fitted with an effluent pump controlled by float switches and cycle timer. Flow is then dosed at a three gallon per minute rate for fourteen minutes, twelve times per day to a Clearstream 1000DC 1000 gpd aerobic plant , followed by a 1080-gallon pump tank containing a (0.5 HP FPS E-Series-20FE05P4-2W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 6 minute run time with float setting at 500 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter then through a 1.25" SCH-40 manifold to a 5000 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 Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1.25" SCH-40 return line is installed to continuously flush the system by cycling a 1.25" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified and built up with 6" of a Type II or III soil. Drip tubing will be laid and will be capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass or covered with Curlex erosion control blankets and heavily seeded prior to system startup. **Tanks 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: 4 Bedroom Res (2246 sf.) & 2 Bedroom Apt (658 sf) = 500gpd (Table III)

Alternate flow: Up to 12 people at 60 gpd 4 days/wk = 720 gal x 4 days / 7 d / wk = 412 gpd

Pretreatment tank size: 750 Gal

Equalization Tank: 1500 Gal ½ hp Goulds WW511A sewage pump (or equivalent)

Plant Size: Clearstream 1000DC 1000gpd (TCEQ Approved)

Pump tank size: 1080 Gal

Reserve capacity after High Level: 180 Gal (1/3 day Req'd)

Application Rate: Ra = 0.1 gal/sf

Total absorption area: Q/Ra = 500 GPD / 0.10 = 5000 sf.

Total linear feet drip tubing: 2500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 1250 emitters @ .61 gph @ 30 psi = 12.17 gpm

Pump Requirement (cont.): (0.5 HP FPS E-Series-20FE05P4-2W115)

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

$$\text{MSV} = 2(3.14159((.55/12)^2/4)*7.48*60$$

$$\text{MSV} = 1.5 \text{ gpm PER LINE} * 8 \text{ LINES} = 12 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.25" ID

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

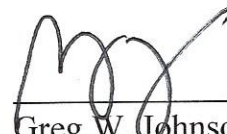
$$\text{MSV} = 2(3.14159((1.25/12)^2/4)*7.48*60$$

$$\text{MSV} = 7.6 \text{ GPM}$$

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1.25" 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)

 04/24/19

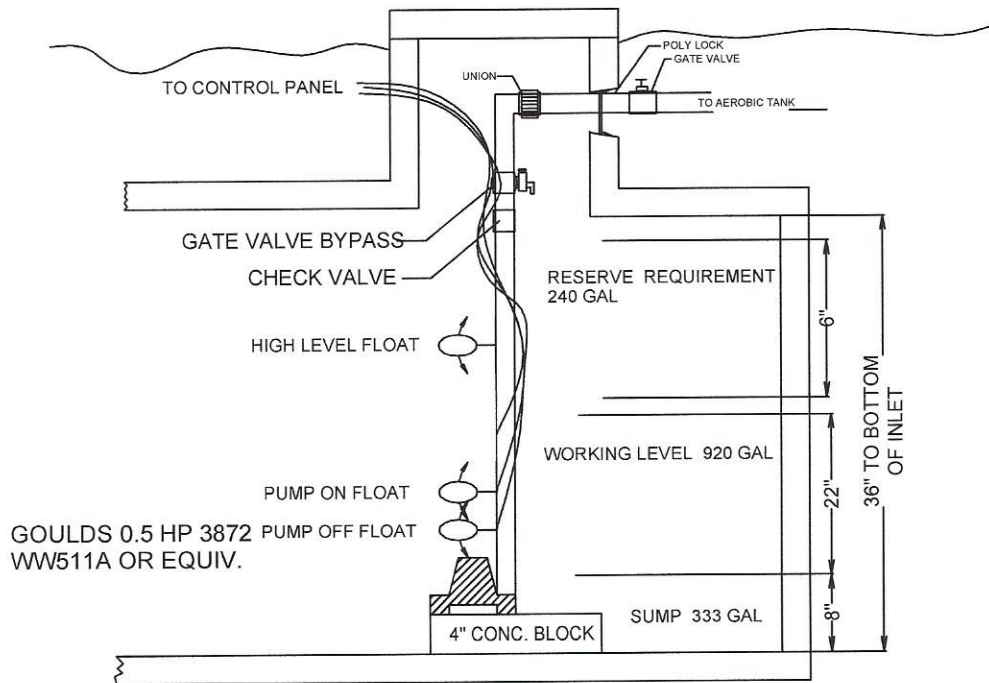
 Greg W. Johnson, P.E. No. 67587 F# 2585
 170 Hollow Oak
 New Braunfels, Texas 78132
 830/905-2778



TANK NOTES:

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



EQUALIZATION TANK 1500 GAL PUMP TANK
VOLUME = 41.67 GAL/IN

INSTALL 5000sf OF FIELD USING 2500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

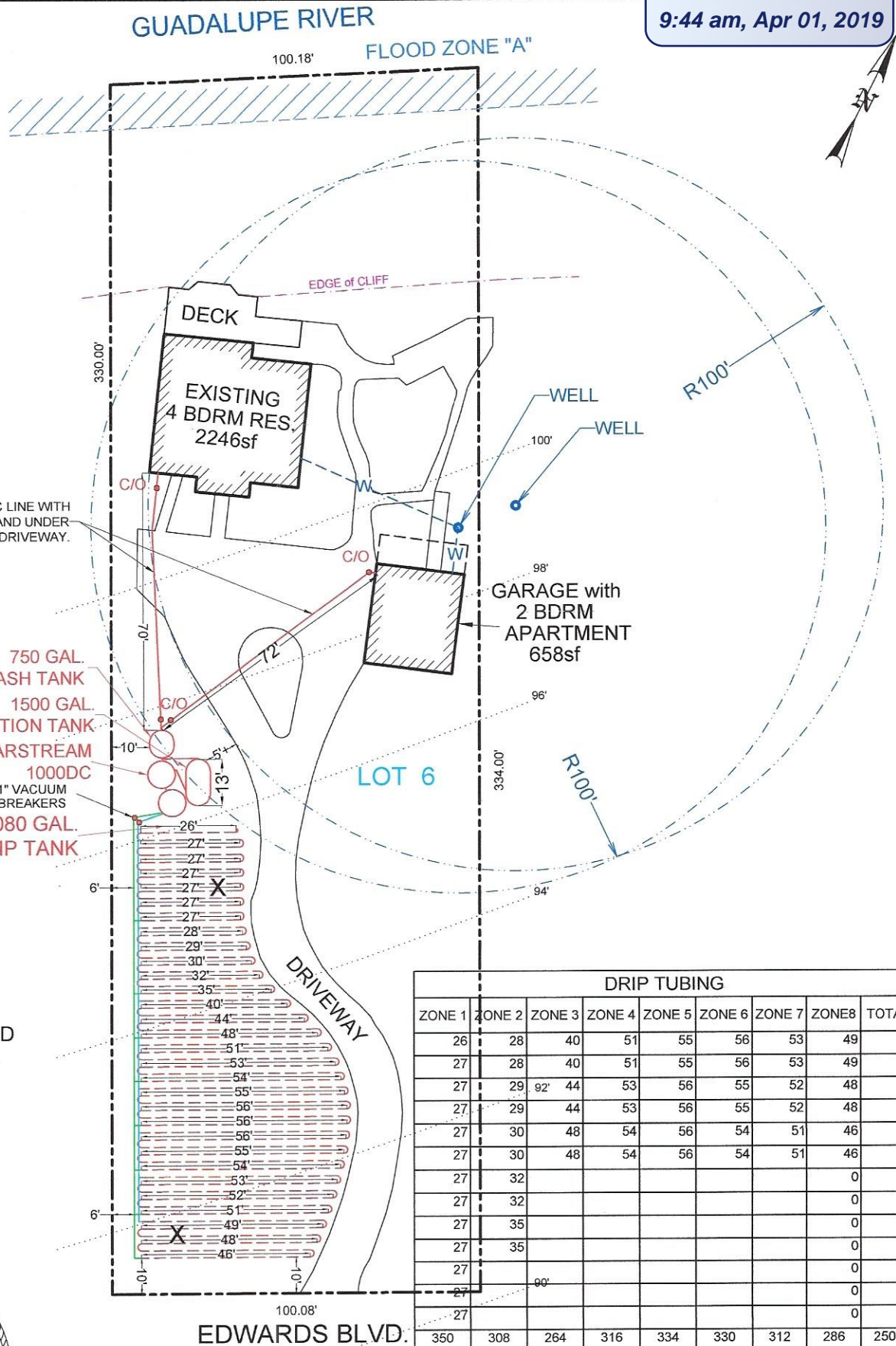
*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

- 750 GAL TRASH TANK
- 1500 GAL. EQUALIZATION TANK
- CLEARSTREAM
- 1000DC
- 1" VACUUM BREAKERS
- 1080 GAL. PUMP TANK

NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED



DRIP TUBING								
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8	TOTAL
26	28	40	51	55	56	53	49	0
27	28	40	51	55	56	53	49	0
27	29	92	44	53	56	55	52	48
27	29	44	53	56	55	52	48	0
27	30	48	54	56	54	51	46	0
27	30	48	54	56	54	51	46	0
27	32						0	0
27	32						0	0
27	35						0	0
27	35						0	0
27							0	0
27							0	0
27							0	0
27							0	0
350	308	264	316	334	330	312	286	2500



OWNER: CLUTTER FALLS, LLC. DRAWN BY: EJS III

STREET ADDRESS: 1277 EDWARDS BLVD.

LEGAL DESC: PREISS HEIGHTS UNIT/SECTION/PHASE: BLOCK: 7 LOT: 6

PREPARED BY: GREG W. JOHNSON, P.E. F#002585 SCALE: 1"=40' DATE: 1/23/2019 REVISED: 3/29/2019

REVISED

9:44 am, Apr 01, 2019

INSTALL 5000sf OF FIELD USING 2500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

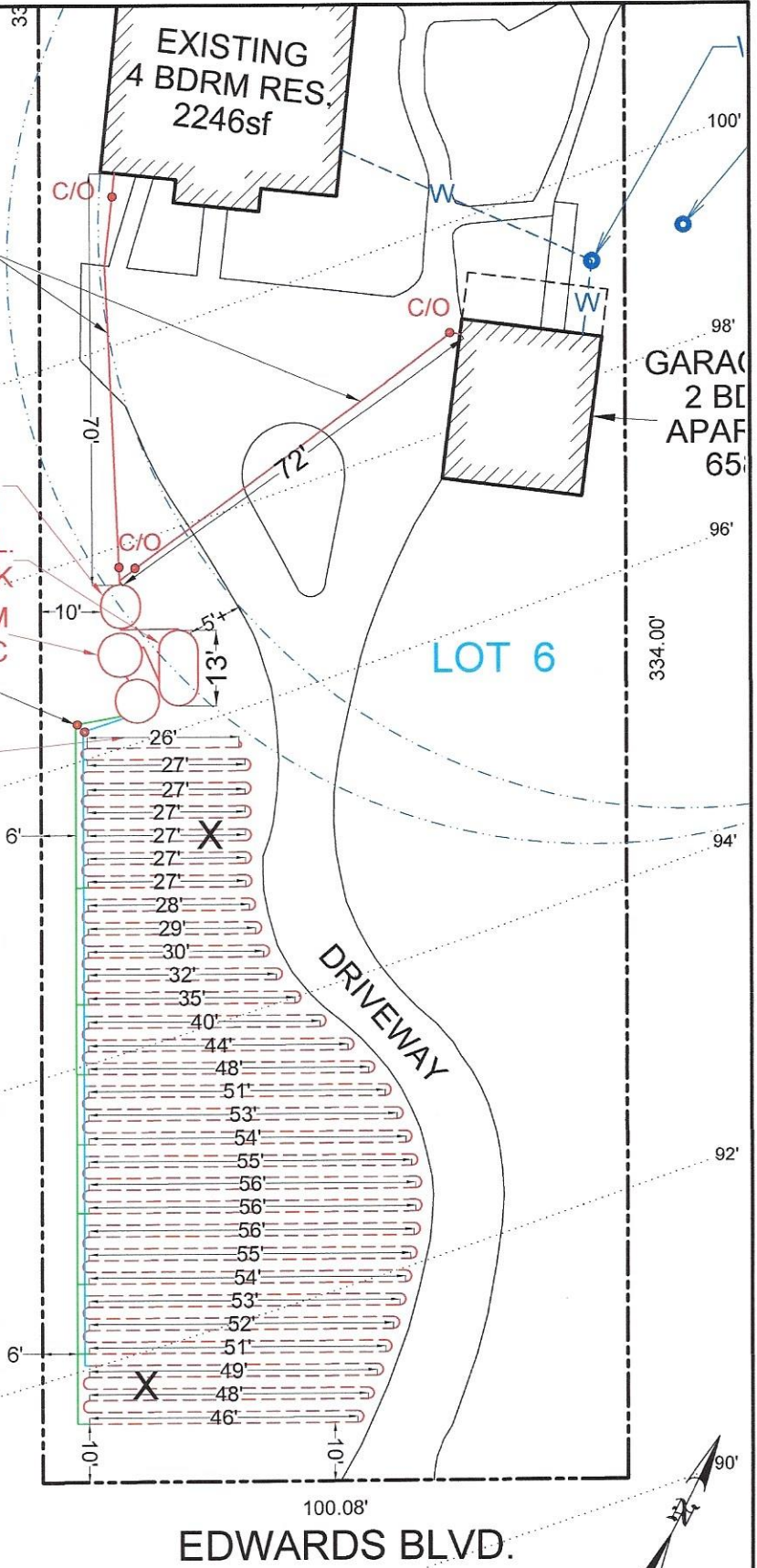
*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

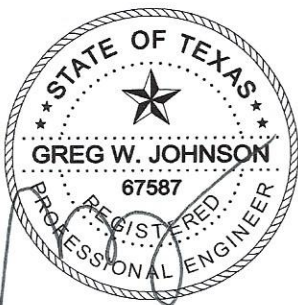
NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED

SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

750 GAL. TRASH TANK
1500 GAL. EQUALIZATION TANK
CLEARSTREAM
1000DC
1" VACUUM BREAKERS
1080 GAL. PUMP TANK



DRIP TUBING								
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8	TOTAL
26	28	40	51	55	56	53	49	0
27	28	40	51	55	56	53	49	0
27	29	44	53	56	55	52	48	0
27	29	44	53	56	55	52	48	0
27	30	48	54	56	54	51	46	0
27	30	48	54	56	54	51	46	0
27	32							0
27	32							0
27	35							0
27	35							0
27								0
27								0
27								0
27								0
27								0
27								0
350	308	264	316	334	330	312	286	2500



OWNER:	CLUTTER FALLS, LLC.			DRAWN BY:	EJS III		
STREET ADDRESS:	1277 EDWARDS BLVD.						
LEGAL DESC:	PREISS HEIGHTS	UNIT/SECTION/PHASE:	BLOCK:	7	LOT:	6	
PREPARED BY:	GREG W. JOHNSON, P.E. F#002585	SCALE:	1"=30'	DATE:	1/23/2019	REVISED:	3/29/2019

TANK NOTES:

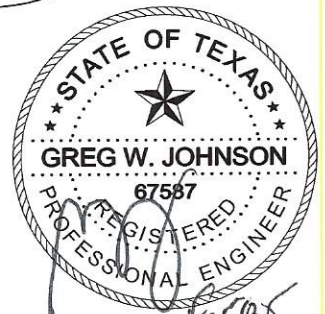
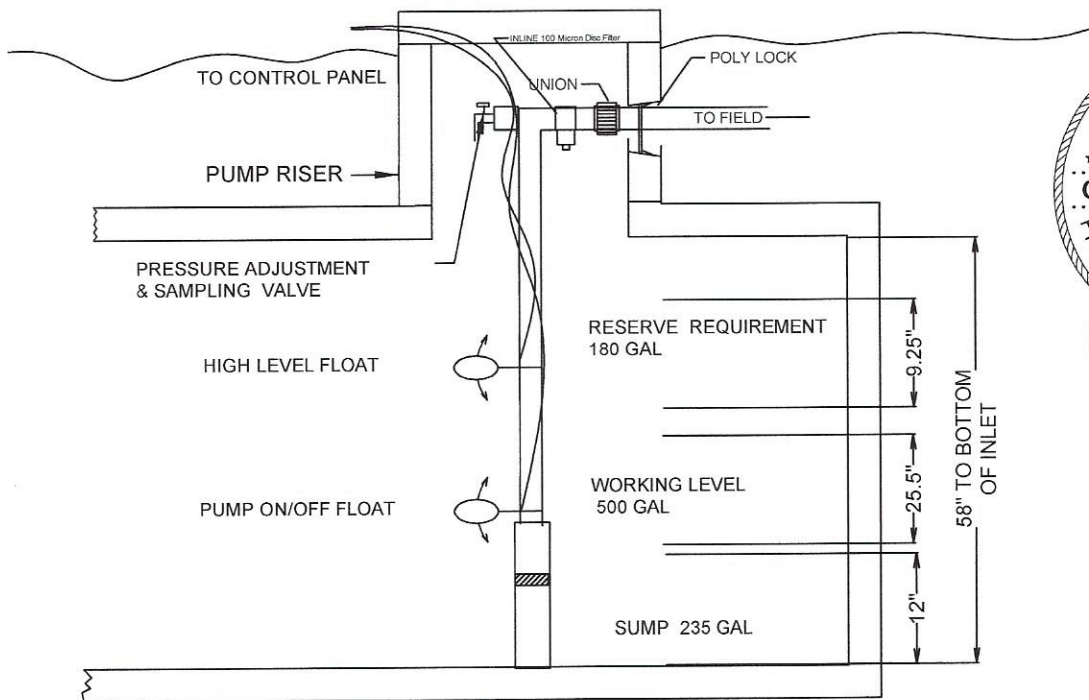
Tanks must be set to allow a minimum of 1/8" per foot fall from the residence.

Tightlines to the tank shall be SCH-40 PVC.

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

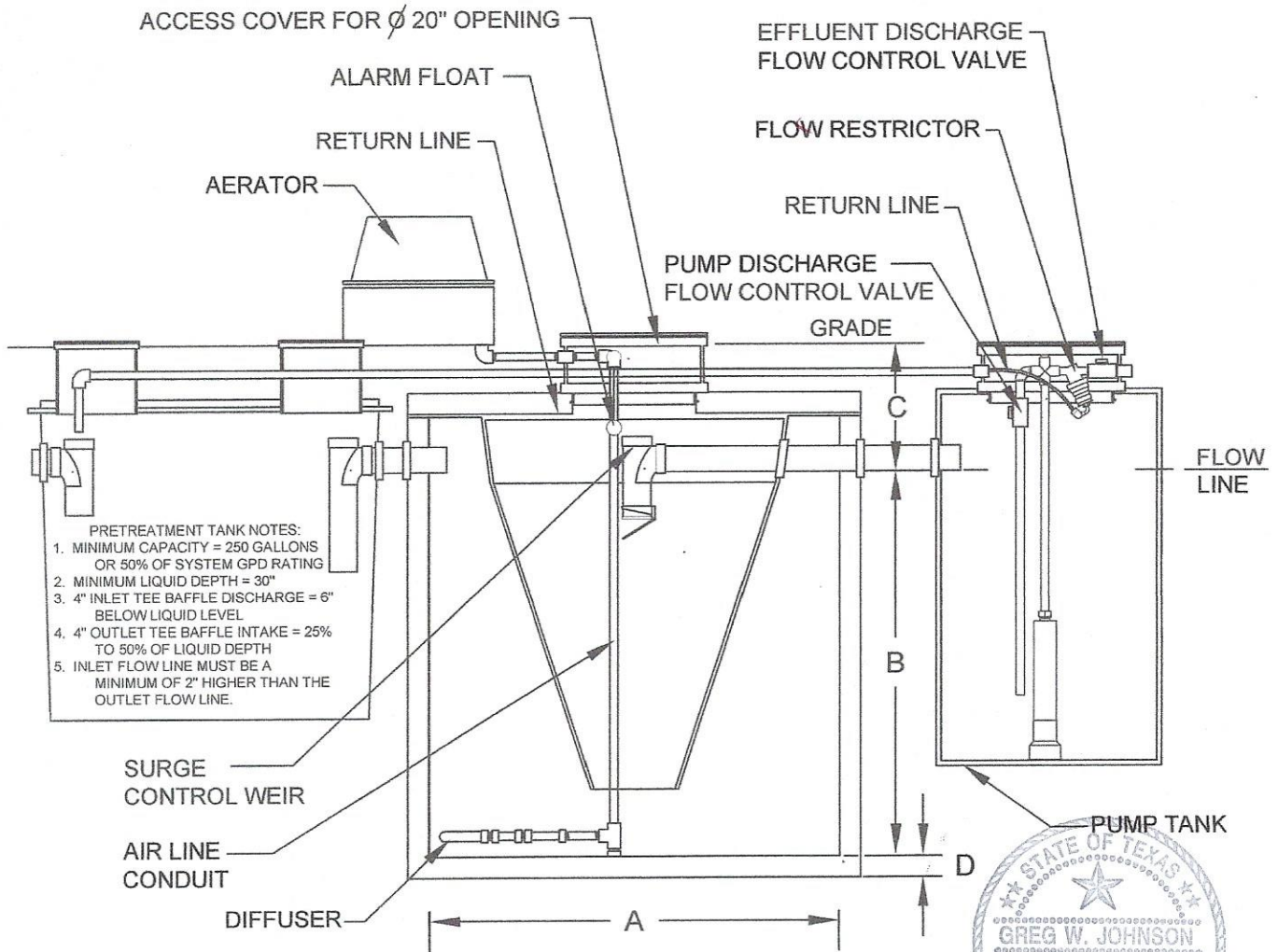
A minimum of 4" of sand, sandy loam, clay loam free of rock shall be placed under and around tanks

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



TYPICAL PUMP TANK CONFIGURATION
CLEARSTREAM 1080 GAL PUMP TANK

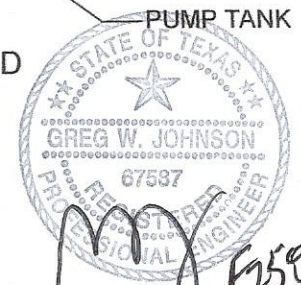
CONCRETE DESIGN DRAWING



- PRETREATMENT TANK NOTES:**
1. MINIMUM CAPACITY = 250 GALLONS OR 50% OF SYSTEM GPD RATING
 2. MINIMUM LIQUID DEPTH = 30"
 3. 4" INLET TEE BAFFLE DISCHARGE = 6" BELOW LIQUID LEVEL
 4. 4" OUTLET TEE BAFFLE INTAKE = 25% TO 50% OF LIQUID DEPTH
 5. INLET FLOW LINE MUST BE A MINIMUM OF 2" HIGHER THAN THE OUTLET FLOW LINE.

DIMENSIONAL TABLE:

MODEL	A	B	C	D
500DC	5'-4"	5'-3"	1'-7½"	3"
500DSC	5'-6"	4'-7"	1'-5½"	3"
600DC	6'-4"	4'-7"	1'-5½"	3"
750DC	6'-4"	5'-5"	1'-7½"	3"
800DC	6'-4"	5'-7"	1'-5½"	3"
1000DC	6'-4"	7'-3"	1'-5¾"	3"
1500DC	7'-6"	7'-9"	1'-0"	4"



U.S. PATENT NUMBERS

5,221,470

5,770,081

5,785,854

**ALL MODELS NOT AVAILABLE
AT ALL LOCATIONS**

TANK NOTES:

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

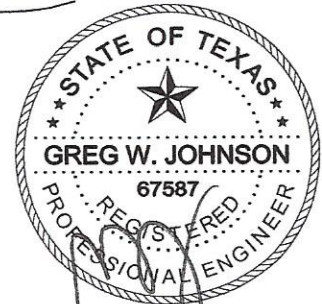
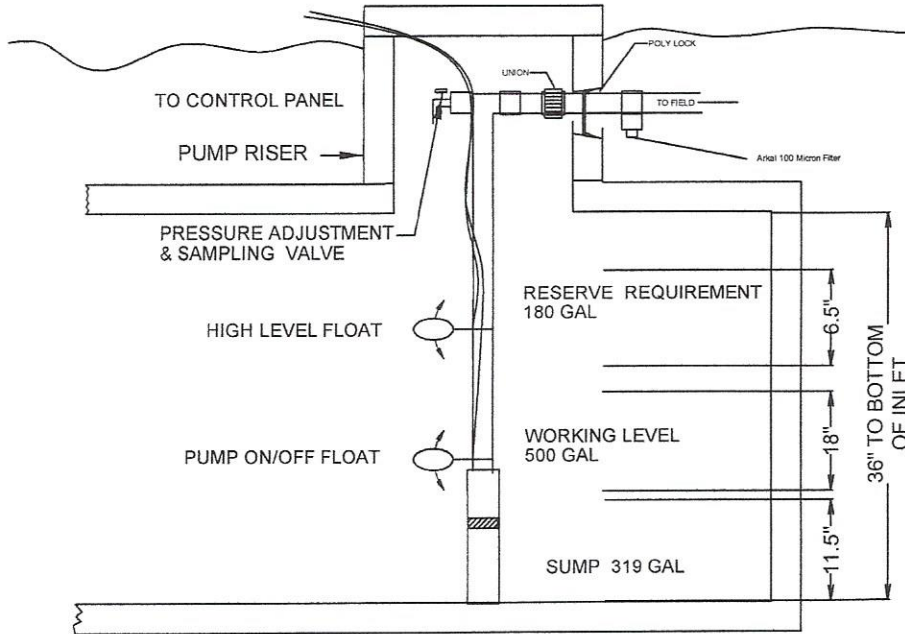
Tightlines to the tank shall be SCH-40 PVC.

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

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

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

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



F#2585

01/23/19

**TYPICAL PUMP TANK CONFIGURATION
1000 GAL SEPTIC TANKS**

Arkal 1" Super Filter

Catalog No. 1102 0 _ _ _

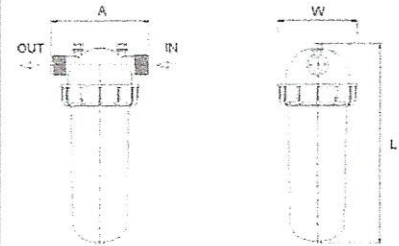
Features

- ◆ 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

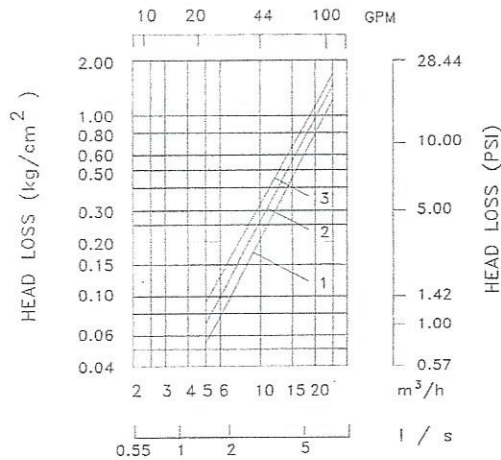
Inlet/outlet diameter	1" BSPT (male)	1" NPT (male)
	25.0 mm – nominal diameter	
	33.6 mm – pipe diameter (O. D.)	
Maximum pressure	10 atm	145 psi
Maximum flow rate	8 m ³ /h (1.7 l/sec)	35 gpm
General filtration area	500 cm ²	77.5 in ²
Filtration volume	600 cm ³	37 in ³
Filter length L	340 mm	13 13/32"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



Filtration Grades

- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

Head Loss Chart



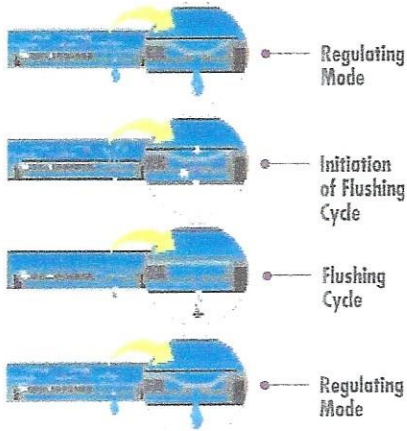
REVISED

8:59 am, Mar 19, 2019



Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



Bioline's Self-Cleaning, Pressure Compensating Dripper is a fully self-contained 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

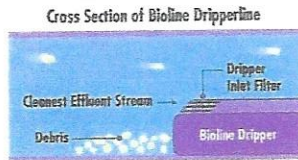
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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

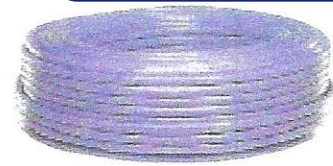
Long-Term Reliability

- 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.



Root Safe

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



Applications

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

Specifications

Wall thickness (mil): 45*

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

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

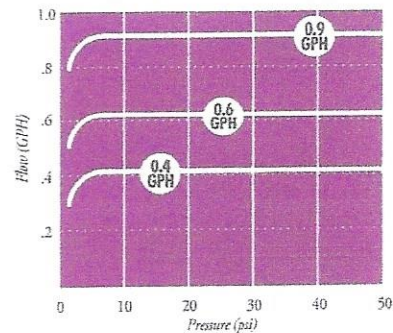
Recommended filtration: 120 mesh

Inside diameter: .570*

Color: Purple tubing indicates non-potable source

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

BIOLINE Flow Rate vs. Pressure



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

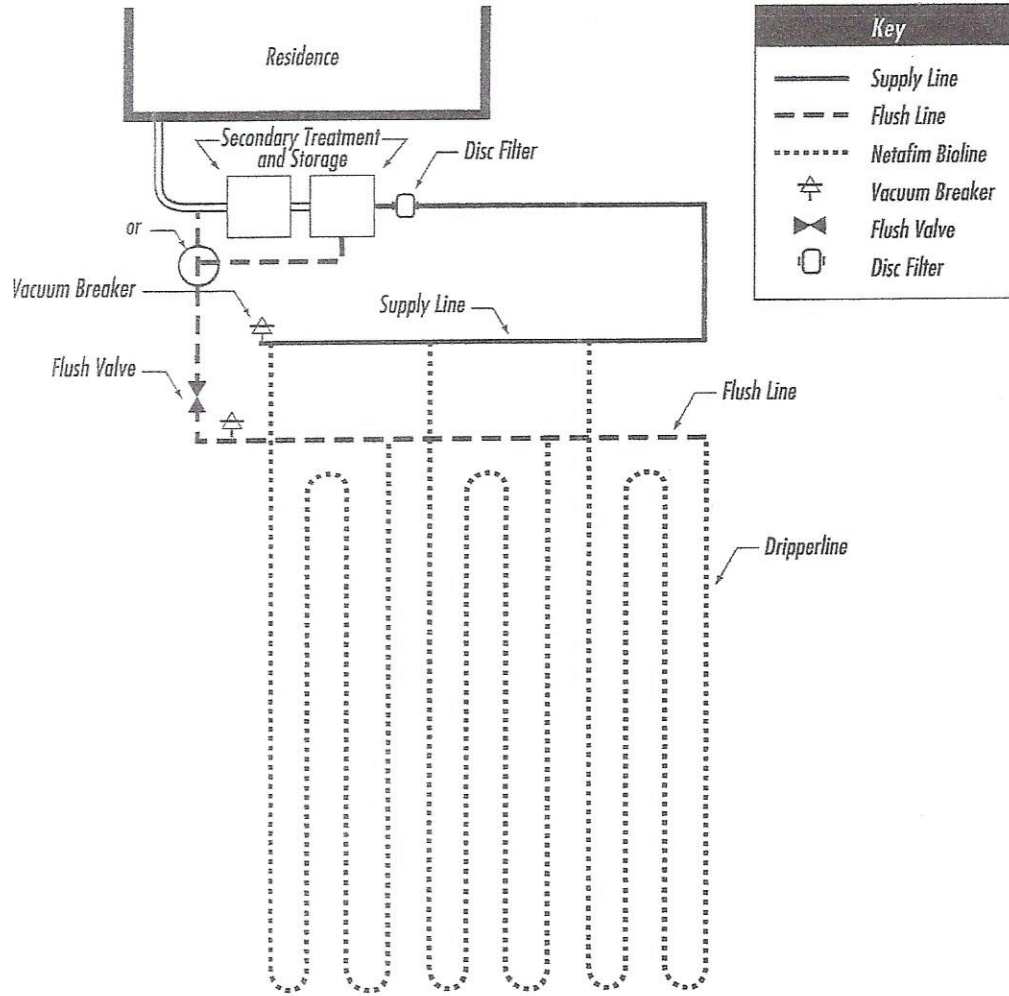
NETAFIM WASTEWATER DISPERSAL SYSTEM DESIGN GUIDE

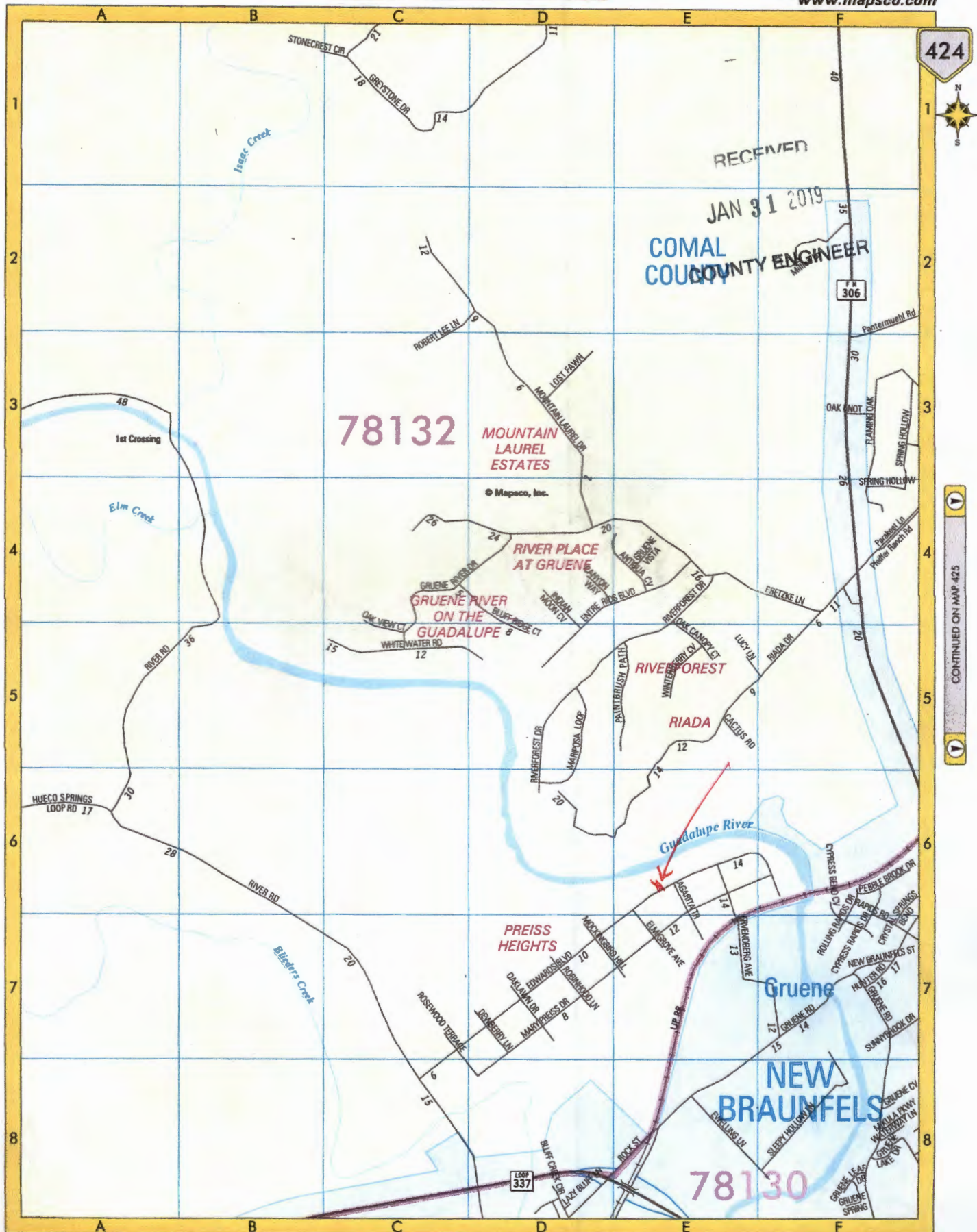
SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

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

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





424

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JAN 31 2019
COMAL COUNTY ENGINEER

78132 MOUNTAIN LAUREL ESTATES
© Mapscoc, Inc.

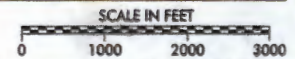
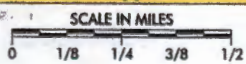
RIVER PLACE AT GRUENE
GRUENE RIVER ON THE GUADALUPE

RIVER FOREST
RIADA

PREISS HEIGHTS

GRUENE
NEW BRAUNFELS

78130



Ritzen, Brenda

From: Ritzen, Brenda
Sent: Tuesday, April 2, 2019 3:37 PM
To: 'Greg Johnson'
Subject: Permit 108709

Re: Clutter Falls, LLC
Preiss Heights Lot 6 Block 7
Application for Permit for Authorization to Construct an On-Site Sewage Facility

Greg,

The following information is needed before I can continue processing the referenced permit submittal:

 This location is advertised as The Retreat at Clutter Falls Bed and Breakfast. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

**AEROBIC TREATMENT
DRIP IRRIGATION SYSTEM
FOR:
CLUTTER FALLS, LLC
2619 DEERFOOT TRAIL
AUSTIN, TEXAS 78133**

VOID

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 5, at 1277 Edwards Blvd, the proposed system will serve an existing four bedroom residence (2264 sf.) and existing two bedroom apartment (658 sf) situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses, oak, and Mountain Cedar 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 or 4-inch SCH-40 pipe discharges from the residence and apartment to a new 750 gallon trash tank then to a 1500 gallon flow equalization tank fitted with an effluent pump controlled by float switches and cycle timer. Flow is then dosed at a three gallon per minute rate for fourteen minutes, nine times per day to a Clearstream 1000DC 1000 gpd aerobic plant, followed by a 1080-gallon pump tank containing a (0.5 HP FPS E-Series-20FE05P4-2W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 6 minute run time with float setting at 500 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter then through a 1.25" SCH-40 manifold to a 5000 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 Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1.25" SCH-40 return line is installed to continuously flush the system by cycling a 1.25" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified and built up with 6" of a Type II or III soil. Drip tubing will be laid and will be capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass or covered with Curlex erosion control blankets and heavily seeded prior to system startup.

Tanks 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.

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***

APPLICATION FOR PERMIT TO CONSTRUCT AN
ON-SITE SEWAGE TREATMENT SYSTEM AND LICENSE TO OPERATE



Date January 21, 2019

Permit # 108709

Owner Name CLUTTER FALLS, LLC
Mailing Address 2619 DEERFOOT TRAIL
City, State, Zip AUSTIN, TEXAS 78704
Phone# 512-947-4871
Email amitchamore@gmail.com

Agent Name GREG W. JOHNSON, P.E.
Agent Address 170 HOLLOW OAK
City, State, Zip NEW BRAUNFELS, TX 78132
Phone # (830) 905-2778
Email gregjohnsonpe@yahoo.com

All correspondence should be sent to: Owner Agent Both Method: Mail Email

Subdivision Name PREISS HEIGHTS Unit/Phase/Section _____ Lot 6 Block 7
Acreage/Legal _____
Street Name/Address 1277 EDWARDS BLVD City NEW BRAUNFELS Zip 78132

Type of Development:

Single Family Residential

Type of Construction (House, Mobile, RV, Etc.) HOUSE + APARTMENT

Number of Bedrooms 4 + 2

Indicate Sq Ft of Living Area 2246 + 658

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JAN 31 2019
COUNTY ENGINEER

Commercial or Institutional Facility

(Planning materials must show adequate land area for doubling the required land needed for treatment units and disposal area)

Type of Facility _____
Offices, Factories, Churches, Schools, Parks, Etc. - Indicate Number Of Occupants _____
Restaurants, Lounges, Theaters - Indicate Number of Seats _____
Hotel, Motel, Hospital, Nursing Home - Indicate Number of Beds _____
Travel Trailer/RV Parks - Indicate Number of Spaces _____
Miscellaneous _____



Estimated Cost of Construction: \$ EXISTING (Structure Only)

Is any portion of the proposed OSSF located in the United States Army Corps of Engineers (USACE) flowage easement?

Yes No (if yes, owner must provide approval from USACE for proposed OSSF improvements within the USACE flowage easement)

Source of Water Public Private Well

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 and does not conceal any material facts.
- Authorization is hereby given to the permitting authority and designated agents to enter upon the above described property for the purpose of site/soil evaluation and inspection of private sewage facilities.
- I also understand that a permit of authorization to construct will not be issued until the Floodplain Administrator has performed the reviews required by the Comal County Flood Damage Prevention Order.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable.

[Signature]
Signature of Owner

29 JAN 2019
Date

VOID

REVISED
9:44 am, Apr 01, 2019

DESIGN SPECIFICATIONS:

Daily waste flow: 4 Bedroom Res (2246 sf.) & 2 Bedroom Apt (658 sf)= 500gpd (Table III)

Pretreatment tank size: 750 Gal

Equalization Tank: 1500 Gal½ hp Goulds WW511A sewage pump (or equivalent)

Plant Size: Clearstream 1000DC 1000gpd (TCEQ Approved)

Pump tank size: 1080 Gal

Reserve capacity after High Level: 180 Gal (1/3 day Req'd)

Application Rate: Ra = 0.1 gal/sf

Total absorption area: Q/Ra = 500 GPD/0.10 = 5000 sf.

Total linear feet drip tubing: 2500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 1250 emitters @ .61 gph @ 30 psi = 12.17 gpm

Pump Requirement (cont.): (0.5 HP FPS E-Series-20FE05P4-2W115)

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

$$MSV = 1.5 \text{ gpm PER LINE} * 8 \text{ LINES} = 12 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.25" ID

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


$$MSV = 2(3.14159((1.25/12)^2)/4) * 7.48 * 60$$

$$MSV = 7.6 \text{ GPM}$$

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1.25" 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)

 03/29/19

Greg W. Johnson, P.E. No. 67587 F# 2585
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778



VOID**DESIGN SPECIFICATIONS:**

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IN RETURN MANIFOLD W/ NOM. DIA 1.25" ID

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


$$\text{MSV} = 2(3.14159((1.25/12)^2)/4) * 7.48 * 60$$

$$\text{MSV} = 7.6 \text{ GPM}$$

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1.25" 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)

 03/29/19
 Greg W. Johnson, P.E. No. 67587 F# 2585
 170 Hollow Oak
 New Braunfels, Texas 78132
 830/905-2778



#108709

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***

APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE TREATMENT SYSTEM AND LICENSE TO OPERATE

VOID

REVISED
8:58 am, Mar 19, 2019

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

Size of Septic System Required Based on Planning Materials & Soil Evaluation

Tank Size(s) (Gallons) 150 TRASH/1500 EQ & CLEARSTREAM
1000 GPD & 1000 PUMP Absorption/Application Area (Sq Ft) 5000

Gallons Per Day (As Per TCEQ Table III) 500

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? Yes No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

Is there an existing TCEQ approved WPAP for the property? Yes No

(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

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 complies with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

Is the property located over the Edwards Contributing Zone? Yes No

Is there an existing TCEQ approval CZP for the property? Yes No

(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? Yes No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? Yes No

If yes, indicate the city: _____



FIRM #2585

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable

[Signature]
Signature of Designer

January 23 2019
Date

VOID

REVISED

8:58 am, Mar 19, 2019

**AEROBIC TREATMENT
DRIP TUBING SYSTEM**

DESIGNED FOR:

CLUTTER FALLS, LLC
2619 DEERFOOT TRAIL
AUSTIN, TEXAS 78133

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 5, at 1277 Edwards Blvd, the proposed system will serve an existing four bedroom residence (2264 sf.) and existing two bedroom apartment (658 sf) situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses, oak, and Mountain Cedar 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 or 4-inch SCH-40 pipe discharges from the residence and apartment to a new 750 gallon trash tank then to a 1500 gallon flow equalization tank fitted with an effluent pump controlled by float switches and cycle timer. Flow is then dosed at a three gallon per minute rate for fourteen minutes, nine times per day to a Clearstream 1000DC 1000 gpd aerobic plant, followed by a 1000-gallon pump tank containing a (0.5 HP FPS E-Series-20FE05P4-2W115) well pump. The well pump is activated by a time controller allowing the distribution ten times per day with an 6 minute run time with float setting at 500 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter then through a 1.25" SCH-40 manifold to a 5000 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 Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1.25" SCH-40 return line is installed to continuously flush the system by cycling a 1.25" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified and covered with 6" of a Type II or III soil. Drip tubing will be laid and will be capped with **VOID** or Type III soil (**NOT SAND**). The field area will be sodded with grass or covered with Curlex erosion control blankets and heavily seeded prior to system startup.

Tanks 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.

VOID

REVISED

8:58 am, Mar 19, 2019

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Daily waste flow: 4 Bedroom Res (2246 sf.) & 2 Bedroom Apt (658 sf)= 500gpd (Table III)

Pretreatment tank size: 750 Gal

Equalization Tank: 1500 Gal w/ ½ hp Goulds WW511A sewage pump (or equivalent)

Plant Size: Clearstream 1000DC 1000gpd (TCEQ Approved)

Pump tank size: 1000 Gal

Reserve capacity after High Level: 180 Gal (1/3 day Req'd)

Application Rate: Ra = 0.1 gal/sf

Total absorption area: Q/Ra = 500 GPD/0.10 = 5000 sf.

Total linear feet drip tubing: 2500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 1250 emitters @ .61 gph @ 30 psi = 12.17 gpm

Pump Requirement (cont.): (0.5 HP FPS E-Series-20FE05P4-2W115)

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

$$\text{MSV} = 2(3.14159((.55/12)^2) / 4) * 7.48 * 60$$

$$\text{MSV} = 1.5 \text{ gpm PER LINE} * 8 \text{ LINES} = 12 \text{ GPM MIN FLOW RATE}$$

IN RETURN MANIFOLD W/ NOM. DIA 1.25" ID

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

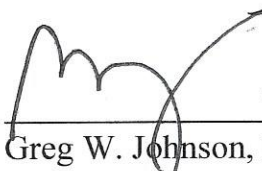
$$\text{MSV} = 2(3.14159((1.25/12)^2) / 4) * 7.48 * 60$$

$$\text{MSV} = 7.6 \text{ GPM}$$

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1.25" 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)

 03/05/19

Greg W. Johnson, P.E. No. 67587 F# 2585
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778



REVISED

8:58 am, Mar 19, 2019

INSTALL 5000sf OF FIELD USING 2500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

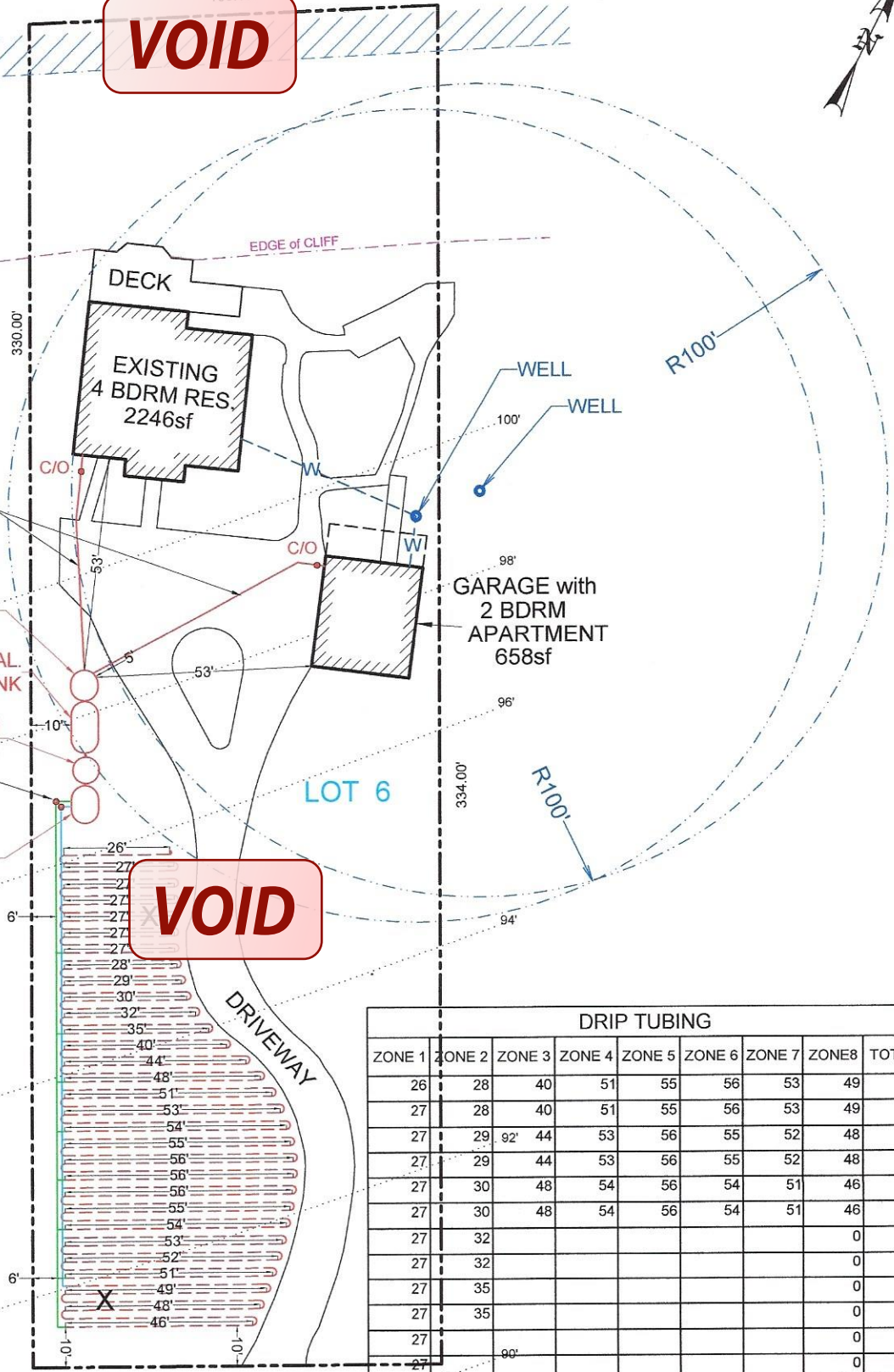
750 GAL TRASH TANK
1500 GAL. EQUALIZATION TANK
CLEARSTREAM 1000DC
1" VACUUM BREAKERS
1000 GAL. PUMP TANK

NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED

GUADALUPE RIVER

FLOOD ZONE "A"

VOID



VOID

DRIP TUBING								
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8	TOTAL
26	28	40	51	55	56	53	49	0
27	28	40	51	55	56	53	49	0
27	29	92	44	53	56	55	52	48
27	29	44	53	56	55	52	48	0
27	30	48	54	56	54	51	46	0
27	30	48	54	56	54	51	46	0
27	32						0	0
27	32						0	0
27	35						0	0
27	35						0	0
27							0	0
27							0	0
27							0	0
27							0	0
27							0	0
350	308	264	316	334	330	312	286	2500



OWNER: CLUTTER FALLS, LLC. DRAWN BY: EJS III

STREET ADDRESS: 1277 EDWARDS BLVD.

LEGAL DESC: PREISS HEIGHTS UNIT/SECTION/PHASE: BLOCK: 7 LOT: 6

PREPARED BY: GREG W. JOHNSON, P.E. F#002585 SCALE: 1"=40' DATE: 1/23/2019 REVISED: 3/5/2019

REVISED
8:59 am, Mar 19, 2019

INSTALL 5000sf OF FIELD USING 2500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED

VOID
SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

750 GAL TRASH TANK

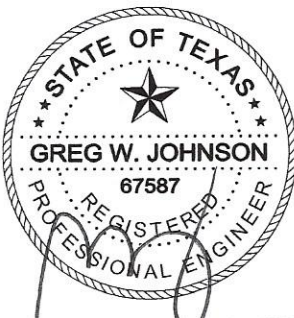
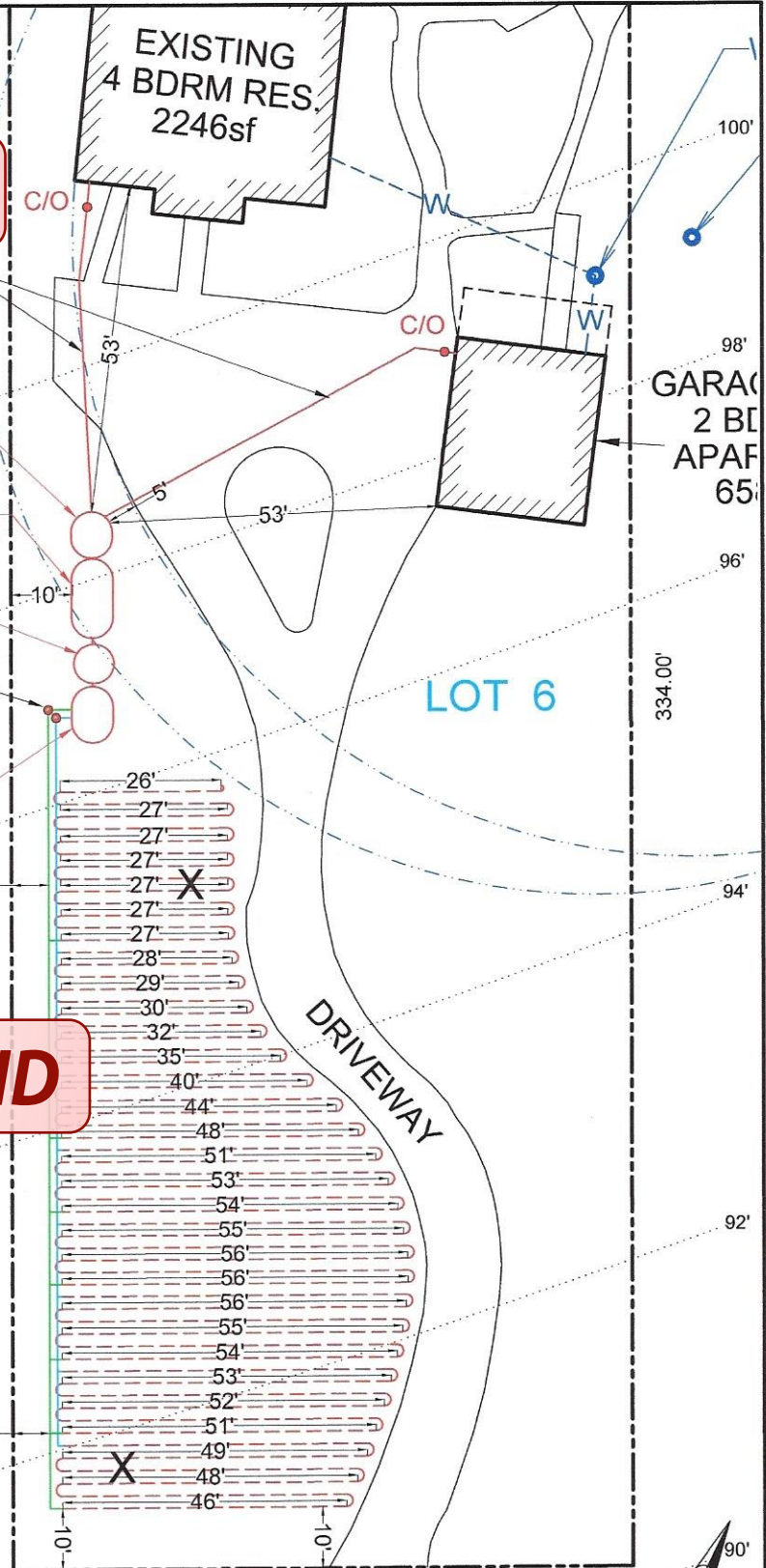
1500 GAL. EQUALIZATION TANK

CLEARSTREAM 1000DC
1" VACUUM BREAKERS

1000 GAL. PUMP TANK

DRIP TUBING							
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
26	28	40	51	55	56	53	49
27	28	40	51	55	56	53	49
27	29	44	53	56	55	52	48
27	29	44	53	56	55	52	48
27	30	48	54	56	54	51	46
27	30	48	54	56	54	51	46
27	32						0
27	32						0
27	35						0
27	35						0
27							0
27							0
27							0
27							0
350	308	264	316	334	330	312	286
							2500

VOID



OWNER: CLUTTER FALLS, LLC.			DRAWN BY: EJS III		
STREET ADDRESS: 1277 EDWARDS BLVD.					
LEGAL DESC: PREISS HEIGHTS		UNIT/SECTION/PHASE:		BLOCK: 7	LOT: 6
PREPARED BY: GREG W. JOHNSON, P.E. F#002585		SCALE: 1"=30'	DATE: 1/23/2019	REVISED: 3/5/2019	

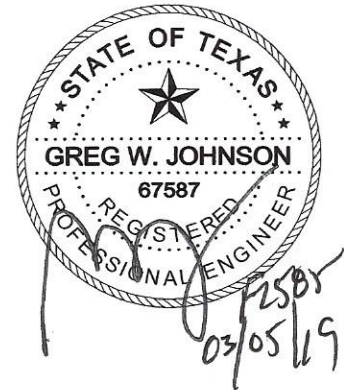
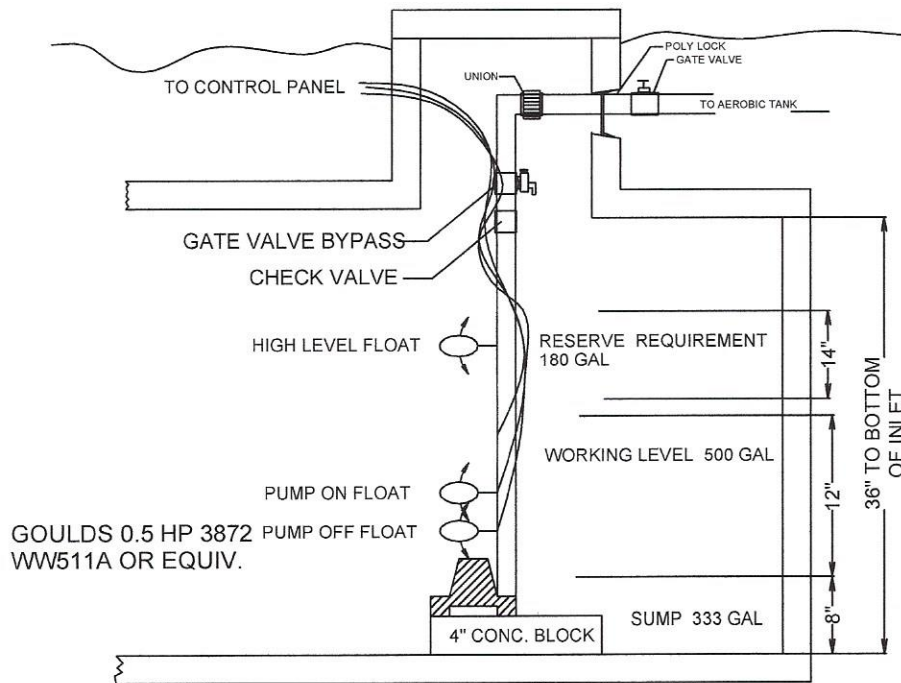
VOID

TANK NOTES:

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

VOID



EQUALIZATION TANK 1500 GAL PUMP TANK
VOLUME = 41.67 GAL/IN

*** COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH ***

APPLICATION FOR ON-SITE SWAMPABILITY AND LICENSE TO OPERATE

VOID

Planning Materials & Site Evaluation as Required Completed By GREG W. JOHNSON, P.E.

System Description PROPRIETARY; AEROBIC TREATMENT AND DRIP TUBING

Size of Septic System Required Based on Planning Materials & Soil Evaluation

639 TRASH/1147 EQ & FUJI CE10

Tank Size(s) (Gallons) 900 GPD & 1000 PUMP Absorption/Application Area (Sq Ft) 5000

Gallons Per Day (As Per TCEQ Table III) 500

(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ)

Is the property located over the Edwards Recharge Zone? [X] Yes [] No

(If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))

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JAN 31 2019

Is there an existing TCEQ approved WPAP for the property? [] Yes [X] No

(if yes, the R. S. or P. E. shall certify that the OSSF design complies with all provisions of the existing WPAP.)

COUNTY ENGINEER

If there is no existing WPAP, does the proposed development activity require a TCEQ approved WPAP? [] Yes [X] No

(If yes, the R.S. or P. E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)

VOID

Is the property located over the Edwards Contributing Zone? [] Yes [X] No

Is there an existing TCEQ approval CZP for the property? [] Yes [X] No

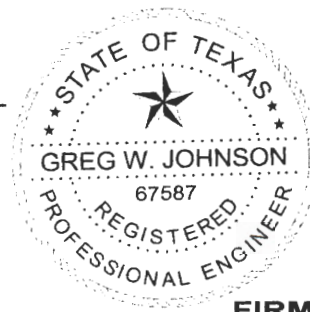
(if yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP)

If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP? [] Yes [] No

(if yes, the P.E. or R.S. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to construct will not be issued for the proposed OSSF until the CZP has been approved by the appropriate regional office.)

Is this property within an incorporated city? [] Yes [X] No

If yes, indicate the city:



FIRM #2585

By signing this application, I certify that:

- The information provided above is true and correct to the best of my knowledge.
- I affirmatively consent to the online posting/public release of my e-mail address associated with this permit application, as applicable

Signature of Designer

Date January 23 2019

VOID



RECEIVED

PAUL SWOYER SEPTIC SUPPLY & SERVICE
23011 FM 306
CANYON LAKE, TX 78133 COUNTY ENGINEER

JAN 31 2019

MP#0001708
CHRISTOPHER RYAN SEIDENSTICKER

Customer: CLUTTER FALLS, LLC

PROPERTY LEGAL DESCRIPTION:

Site Address: 1277 EDWARDS BLVD

PREISS HEIGHTS, BLOCK 7, LOT 6

City/State: NEW BRAUNFELS, TX Zip: 78132

County: COMAL Permit#: _____

Phone Number: 512-947-4871

E-mail: amitchamore@gmail.com

I. General: This On-Site Sewage Facility Service Agreement (hereinafter referred to as "Agreement") is entered into by and between CLUTTER FALLS, LLC, (hereinafter referred to as "Client") and PS Supply & Service LLC, (hereinafter referred to as "Contractor"). By this agreement, Contractor agrees to render services, as described herein (the "Services"), and the client agrees to fulfill his/her/their responsibilities under this agreement herein.

VOID

II. Effective Dates: This agreement commences on the date of License to Operate is issued for Three (3) years.

Date of License to Operate: _____ Last Date of Service: _____

III. Services by Contractor: Contractor will provide the following Services:

1. Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with the code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located (the "County") and the manufacturer's requirements, at a frequency of approximately once every four (4) months.
2. Report to the appropriate regulatory authority and to Client, as required by the State of Texas' on-site rules and, if required, TCEQ or County rules. All findings must be reported to the appropriate regulatory authority within 14 days.
3. Notify Client and repair any components of the OSSF that are found to be in need of repair during the inspection. If warranty, you just do it. If not, Client will be responsible. Repairs will be made so brought up to compliance and bill forward.
4. Visit site in response to Client's request for unscheduled service within two business days from the date of Contractor's actual receipt of Client's request. Unscheduled service visits are not included in the fee agreement herein and will be billed to the client in addition to fees under this Agreement.
5. Provide notification of arrival to site to the Client or to site personnel. Additionally, Contractor will leave written notification of the visit at the site or with site personnel upon completion of inspection, and forward such notice to the appropriate regulatory authority within fourteen (14) days.

IV. Payment(s): Client shall pay to Contractor _____ for the Services describe herein (the "Inspection and Routine Maintenance Fee"), excepting those described in Section III (4), or Section IX, herein. The Fee does not include equipment, parts or labor supplied for anything beyond routine inspection and routine maintenance. Payments for such additional services are due at the time services are provided or rendered. Payments not received within thirty (30) days from the due date will be subject the greater of a \$20.00 late penalty or 1.5% carrying charge on the original balance for each month or portion thereof a balance in past due. If for any reason such charges are found to be usurious by a court of competent jurisdiction, such charges shall be reduced to the maximum allowable by law. By signing this contract, Client authorizes Contractor to remove any parts installed, but not paid in full at the end of the thirty (30) days. Client agrees to pay for any labor cost associated with the installation and the reasonable cost of removal of said parts.

Client: [Signature]

Contractor: [Signature]

VOID

V. Client's Responsibilities: Client is responsible for each and all of the following:

1. To maintain chlorinator and provide proper chlorine supply, if OSSF is so equipped.
2. To provide all necessary yard or lawn maintenance and removal of obstacles as needed to allow the OSSF to function properly, and to allow Contractor ready access to all parts of the OSSF.
3. To maintain a current license to operate, and abide by the conditions and limitations of that license and all requirements for on-site sewage facilities from the State and local regulatory agency.
4. To maintain the OSSF in accordance with manufacturer's recommendations.
5. To immediately notify Contractor and Agency of any and all problems with, the OSSF, including failure thereof.
6. Upon receipt of any written notification of required services from Contractor, to contact Contractor and authorize the required service. If Client elects a different contractor to perform the required service, Client is responsible for ensuring the substitute contractor holds the proper license (Installer II) and is certified by the manufacturer. Additionally, Client shall be responsible for ensuring proper notification is given to the appropriate regulatory authority, as required by the State and/or local regulatory authority rules.
7. To provide Contractor with water usage records, upon request, for evaluation by Contractor of the OSSF performance.
8. To pay required sampling charges for samples collected for testing (e.g. Biological Oxygen Demand/Total Suspended Solids ("BOD/TSS")) that may be required on the OSSF.
9. To prevent backwash from water treatment or water conditioning equipment to enter the OSSF.
10. To provide, at Client's expense, for pumping of tanks as needed.
11. To maintain site drainage sufficient to prevent adverse effects on the OSSF.
12. To promptly and fully pay Contractor's bills, fees, or invoices as described herein.

VI. Access by Contractor: Client agrees to allow Contractor, or personnel authorized by the Contractor, to enter the property at reasonable times without prior notice for the purpose of performing the Services described herein. Such entry shall include access to the OSSF electrical and physical components, including tanks, by means of manways or risers for the purpose of evaluations required by the manufacturer, and/or regulatory authority rules. If such manways or risers are not in place, Client shall allow and be responsible for payment of required excavation, including labor and materials, necessary to allow access to the OSSF or any required components. Such excavation shall be billed at the rate of \$75.00 per hour for labor, plus materials billed at list price. Contractor shall make only those efforts reasonable under the circumstances to replace excavated soil.

VII. Application or Transfer of Payment: The fees paid for this agreement may transfer to any subsequent owner(s) of the property on which the OSSF is located. The subsequent owner(s) must enter into a similar agreement authorizing Contractor to perform the above-described Services, and accepting Client's responsibility for the Agreement must be signed and received within 30 days of transfer of ownership. Contractor will apply funds received from Client first to any past due obligations arising from this Agreement including late charges, return check charges, and charges for repairs or services not paid within 30 days of invoicing. The consumption of the payment in this manner may lead to termination of the agreement by Contractor

VIII. Termination of Agreement: This agreement may be terminated by either party with 30 days written notice. If this agreement is so terminated by Client, Contractor shall be paid at the rate of \$75.00 per hour for any worked performed or required, but not yet paid. If terminated by Contractor, all amounts outstanding shall be due within thirty days of termination. The party terminating will immediately notify the other party, the equipment manufacturer, and the regulatory agency of the termination.

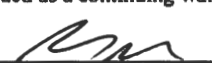
IX. Limitation of Liability: In no event shall Contractor be liable for indirect, consequential, incidental or punitive damages, whether in contract, tort, or any other theory of liability. In no event shall the Contractor's liability for direct damages exceed payments by the Client under this Agreement.


X. Severability and Reformation: If any provision in this Agreement shall be held to be invalid or unenforceable for any reason, it shall be reformed to the minimum extent necessary to effect the intent of the Parties. If any provision is such that it cannot reasonably be reformed, it shall be struck from this Agreement and the remaining provisions shall continue to be valid and enforceable.

XI. Performance of Agreement: Commencement of performance by Contractor under this agreement is contingent on the following conditions: (1) Contractor receiving a fully executed original copy of this agreement. (2) Contractor receiving payment in full of the fee(s) described herein. If the above conditions are not met, then Contractor is from any obligation to perform any portion of this agreement.

XII. Modification. This Agreement may not be changed or modified except by an instrument in writing, signed by both Contractor and Client.

XIII. Waiver. Except as otherwise noted in this Agreement, the waiver by other party of a breach of any provision of this Agreement shall not operate or be construed as a continuing waiver or as a consent to or waiver of any subsequent breach hereof.

Client: 

Contractor: 

VOID

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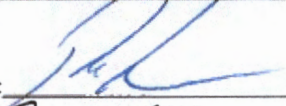
JAN 31 2019

COUNTY ENGINEER

XIV. Headings. The Article and Section headings in this Agreement are for the convenience of reference only and do not constitute a part of this Agreement and shall not be deemed to limit or affect any of the provisions hereof.

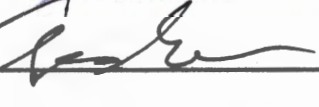
XV. GOVERNING LAW AND CHOICE OF VENUE. EACH OF THE PARTIES HERETO HEREBY CONSENTS TO THE EXCLUSIVE JURISDICTION OF THE COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND TO THE UNITED STATES DISTRICT COURT FOR THE WESTERN DISTRICT OF TEXAS – SAN ANTONIO DIVISION, AS WELL AS TO THE JURISDICTION OF ALL COURTS TO WHICH AN APPEAL MAY BE TAKEN FROM SUCH COURTS, FOR THE PURPOSE OF ANY SUIT, ACTION, OR OTHER PROCEEDING ARISING OUT OF, OR IN CONNECTION WITH, THIS AGREEMENT OR ANY OF THE TRANSACTIONS CONTEMPLATED HEREBY, INCLUDING, WITHOUT LIMITATION, ANY PROCEEDING RELATING TO ANCILLARY MEASURES IN AID OF ARBITRATION, PROVISIONAL REMEDIES AND INTERIM RELIEF, OR ANY PROCEEDING TO ENFORCE ANY ARBITRAL DECISION OR AWARD. EACH PARTY HERETO EXPRESSLY WAIVES ANY AND ALL RIGHTS TO BRING ANY SUIT, ACTION, OR OTHER PROCEEDING IN OR BEFORE ANY COURT OR TRIBUNAL OTHER THAN COURTS OF THE STATE OF TEXAS, COUNTY OF COMAL, AND COVENANTS THAT IT SHALL NOT SEEK IN ANY MANNER TO PROSECUTE OR DEFEND ANY DISPUTE OTHER THAN AS SET FORTH IN THIS ARTICLE XVI OR TO CHALLENGE OR SET ASIDE ANY DECISION, AWARD, OR JUDGMENT OBTAINED IN ACCORDANCE WITH THE PROVISIONS HEREOF. EACH OF THE PARTIES HERETO HEREBY EXPRESSLY WAIVES ANY AND ALL OBJECTIONS IT MAY HAVE TO VENUE, INCLUDING, WITHOUT LIMITATION, THE INCONVENIENCE OF SUCH FORUM, IN ANY OF SUCH COURTS.

XVI. JURY TRIAL WAIVER. THE PARTIES HEREBY UNCONDITIONALLY WAIVE THEIR RIGHT TO A JURY TRIAL OF ANY AND ALL CLAIMS OR CAUSES OF ACTION ARISING FROM OR RELATING TO THEIR RELATIONSHIP. THE PARTIES ACKNOWLEDGE THAT A RIGHT TO A JURY IS A CONSTITUTIONAL RIGHT. THAT THEY HAVE HAD AN OPPORTUNITY TO CONSULT WITH INDEPENDENT COUNSEL. AND THAT THIS JURY WAIVER HAS BEEN ENTERED INTO KNOWINGLY AND VOLUNTARILY BY ALL PARTIES TO THIS AGREEMENT. IN THE EVENT OF LITIGATION, THIS AGREEMENT MAY BE FILED AS A WRITTEN CONSENT TO A TRIAL BY THE COURT.

Approved by Contractor: 

MP#0001708

CHRISTOPHER RYAN SEIDENSTICKER

Approved by Client: 

VOID

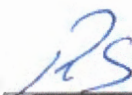
XVII. Reservation of Rights. Contractor reserves all rights not specifically granted herein.

XVIII. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be an original but all of which together will constitute one and the same instrument.

XIX. Counsel. Contractor has previously recommended that Client engage counsel to assist him/her/it in reviewing this Agreement and all other matters relating to it. Contractor and Client shall each bear his/her/its own costs and expenses in connection with the negotiation and documentation of this Agreement.

XX. Entire Agreement: This agreement contains the entire agreement of the parties, and there are no promises or conditions in any other agreement, oral or written. The Parties expressly disclaim reliance on any prior statements, oral or written, by either party not expressly provided for herein.

Client: 

Contractor: 

VOID

**AEROBIC TREATMENT
DRIP TUBING SYSTEM**

DESIGNED FOR:
CLUTTER FALLS, LLC
2619 DEERFOOT TRAIL
AUSTIN, TEXAS 78133

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IAN 31 2019

COUNTY ENGINEER

SITE DESCRIPTION:

Located in Preiss Heights, Block 7, Lot 5, at 1277 Edwards Blvd, the proposed system will serve an existing four bedroom residence (2264 sf.) and existing two bedroom apartment (658 sf) situated in an area with shallow Type IV soil as described in the Soil Evaluation Report. Native grasses, oak, and Mountain Cedar 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 or 4-inch SCH-40 pipe discharges from the residence and apartment to a new 639 gallon trash tank then to a 1447 gallon flow equalization tank fitted with an effluent pump controlled by float switches and cycle timer. Flow is then dosed at a three gallon per minute rate for fourteen minutes, nine times per day to a Fuji Clean CE10 900gpd aerobic plant , followed by a 1000-gallon pump tank containing a (0.5 HP FPS E-Series-20FE05P4-2W115) well pump. The well pump is controlled by a time controller allowing the distribution ten times per day with an 6 minute run time with float setting at 500 gallons. A high level audible and visual alarm will activate should the pump fail. Distribution is through a self flushing 100 micron disc filter then through a 1.25" SCH-40 manifold to a 5000 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 Model PMR30MF installed in the pump tank on the manifold to the field will maintain pressure at 30 psi. A 1.25" SCH-40 return line is installed to continuously flush the system by cycling a 1.25" ball valve. Solids caught in the disc filter are flushed each cycle back to the trash tank. Vacuum breakers installed at the highest point on each manifold will prevent siphoning of effluent from higher to lower parts of the field. Prior to installing drip tubing the entire field area will be scarified and built up with 6" of a Type II or III soil. Drip tubing will be laid and will be capped with ~6" of Type II or Type III soil (**NOT SAND**). The field area will be sodded with grass or covered with Curlex erosion control blankets and heavily seeded prior to system startup.

Tanks 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.

VOID

DESIGN SPECIFICATIONS:

Daily waste flow: 4 Bedroom Res (2246 sf.) & 2 Bedroom Apt (658 sf)= 500gpd (Table III)

Pretreatment tank size: 639 Gal

Equalization Tank: 1447 Gal w/ dual ½ hp Goulds WW511A sewage pumps (or equivalent)

Plant Size: Fuji Clean CE10 900gpd (TCEQ Approved)

Pump tank size: 1000 Gal

Reserve capacity after High Level: 180 Gal (1/3 day Req'd)

Application Rate: Ra = 0.1 gal/sf

Total absorption area: Q/Ra = 500 GPD/0.10 = 5000 sf.

Total linear feet drip tubing: 2500' *Netifim Bioline* drip tubing .61 GPH

Pump requirement: 1250 emitters @ .61 gph @ 30 psi = 12.17 gpm

Pump Requirement (cont.): (0.5 HP FPS E-Series-20FE05P4-2W115)

MINIMUM SCOUR VELOCITY (MSV) > 2 FPS

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

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

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

$MSV = 1.5 \text{ gpm PER LINE} * 8 \text{ LINES} = 12 \text{ GPM MIN FLOW RATE}$

IN RETURN MANIFOLD W/ NOM. DIA 1.25" ID

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

$MSV = 2(3.14159((1.25/12)^2) / 4) * 7.48 * 60$

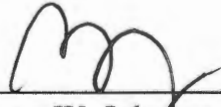
$MSV = 7.6 \text{ GPM}$

VOID

PIPE AND FITTINGS:

All pipes and fittings in this drip tubing system shall be 1.25" 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)



Greg W. Johnson, P.E. No. 67587 F# 2585
170 Hollow Oak
New Braunfels, Texas 78132
830/905-2778



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JAN 31 2019
COUNTY ENGINEER

INSTALL 5000sf OF FIELD USING 2500' OF DRIP TUBING. THERE SHALL BE NO PARKING, DRIVING OR STORAGE ON THE SEPTIC FIELD AT ANY TIME FOR ANY REASON.

*USE TWO WAY CLEANOUTS
**USE SCH-40 OR SDR-26 TO TANK

X= TEST HOLE

SLEEVE SEPTIC LINE WITH SCH-40 WITHIN 5' AND UNDER DRIVEWAY.

639/1447 GAL. EQUALIZATION TANK

FUJI CLEAN - CE10 AEROBIC TREATMENT PLANT

1" VACUUM BREAKERS

1000 GAL. PUMP TANK

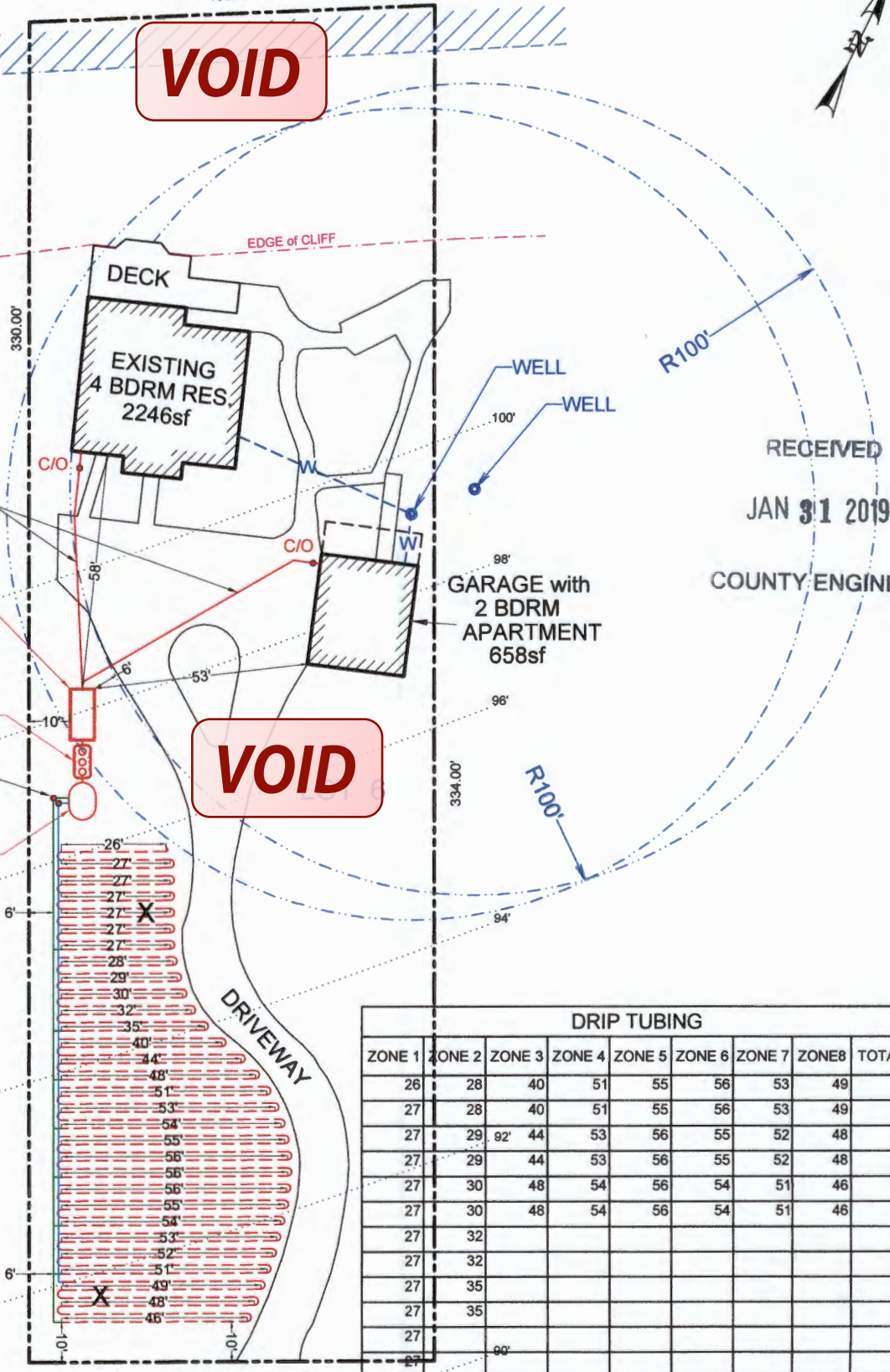
NOTE:
EXISTING SEPTIC TANK TO BE PUMPED, CRUSHED AND BACK FILLED.
EXISTING SEPTIC SYSTEM TO BE ABANDONED

GUADALUPE RIVER

FLOOD ZONE "A"

VOID

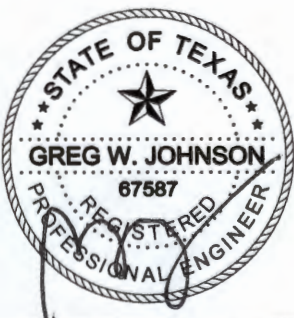
VOID



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JAN 31 2019

COUNTY ENGINEER

DRIP TUBING								
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8	TOTAL
26	28	40	51	55	56	53	49	
27	28	40	51	55	56	53	49	
27	29	92	44	53	56	55	52	48
27	29	44	53	56	55	52	48	
27	30	48	54	56	54	51	46	
27	30	48	54	56	54	51	46	
27	32							
27	32							
27	35							
27	35							
27								
27		90						
27								
350	308	264	316	334	330	312	286	2500

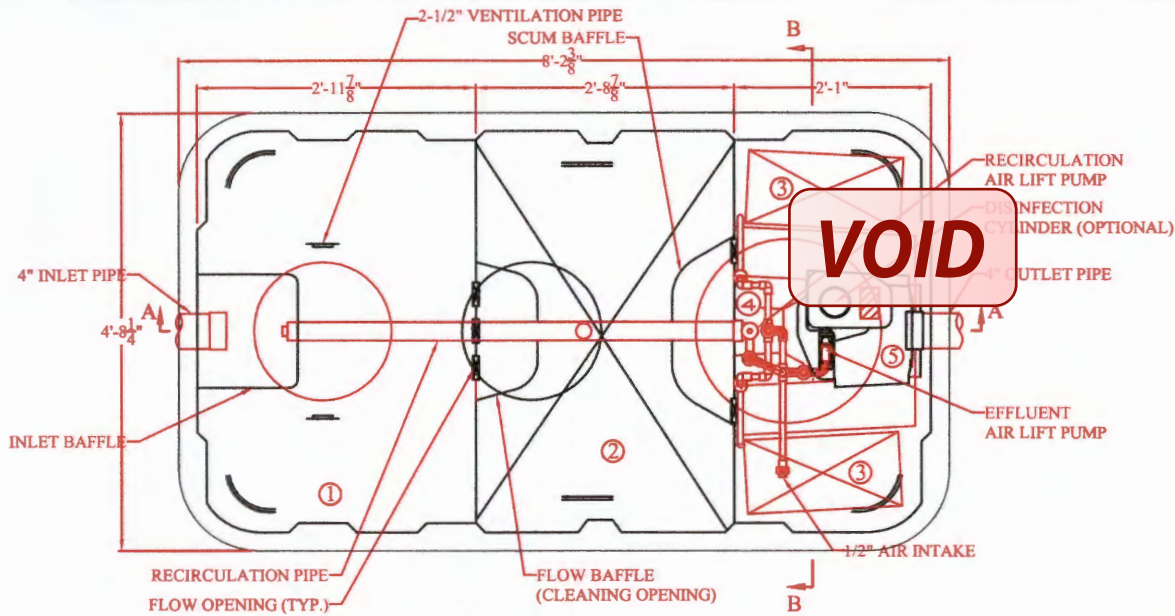


OWNER: CLUTTER FALLS, LLC. DRAWN BY: EJS III

STREET ADDRESS: 1277 EDWARDS BLVD.

LEGAL DESC: PREISS HEIGHTS UNIT/SECTION/PHASE: BLOCK: 7 LOT: 6

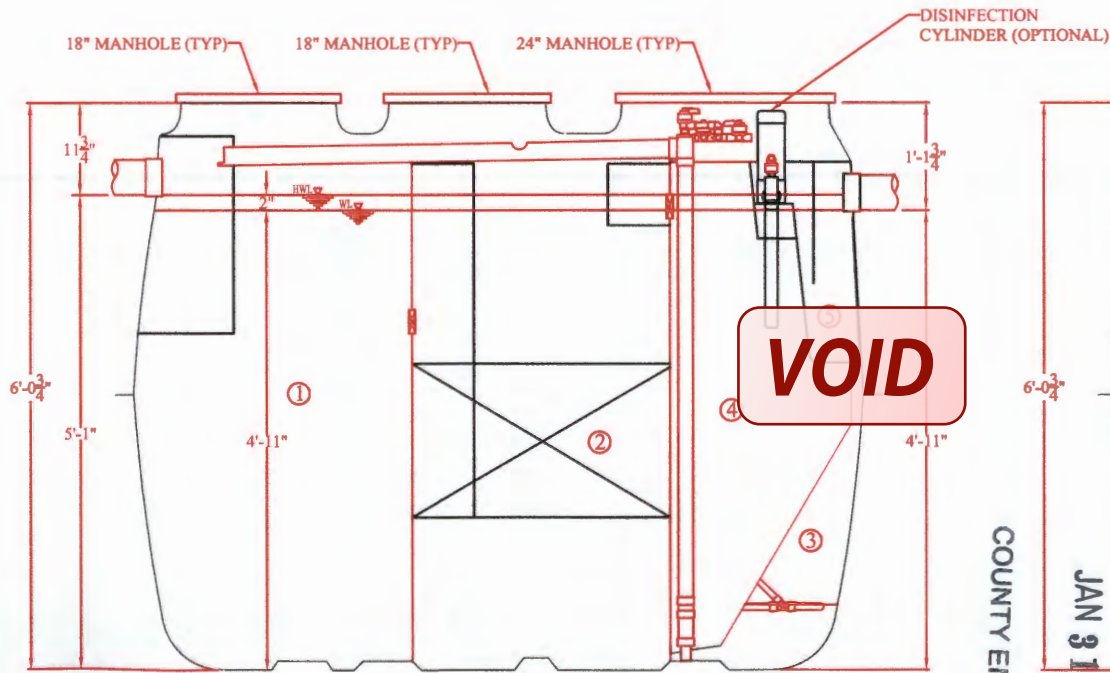
PREPARED BY: GREG W. JOHNSON, P.E. F#002585 SCALE: 1"=40' DATE: 1/23/2019 REVISED:



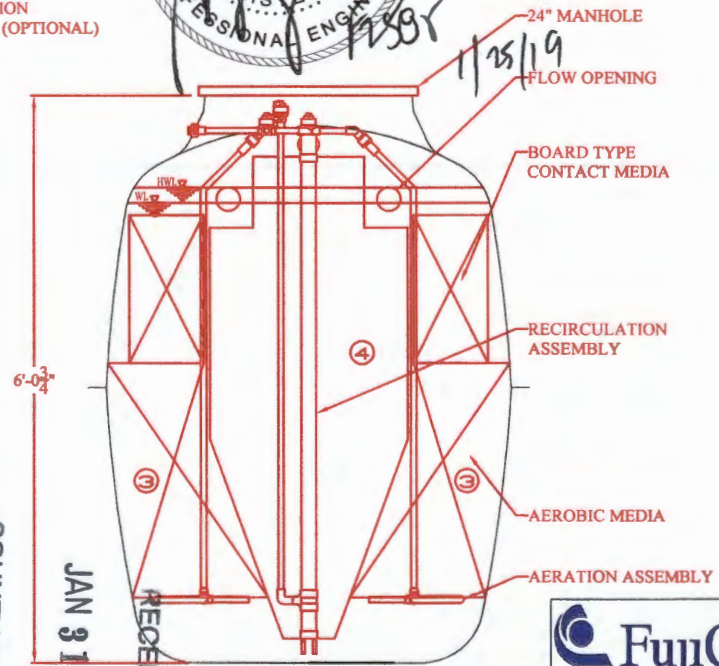
PLAN VIEW

	CHAMBER	Volume (gal)
①	Sedimentation Chamber	397
②	Anaerobic Filtration Chamber	396
③	Aerobic Contact Filtration Chamber	181
④	Storage Chamber	90
⑤	Disinfection Chamber	6
Total Volume		1069

SPECIFICATIONS			
Anaerobic Media	PP / PE	Filling Rate	32%
Board Type Aerobic Media	PVC / PP / PE	Filling Rate	17%
Aerobic Media	PP / PE	Filling Rate	55%
Blower	2.8 cfm		
Tank	FRP		
Piping	PVC / PP / PE		
Access Covers	Plastic / Cast Iron		
Disinfectant (Optional)	Chlorine Tablets		



SECTION A-A VIEW



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SECTION B-B VIEW



CE-10 Structural Drawing

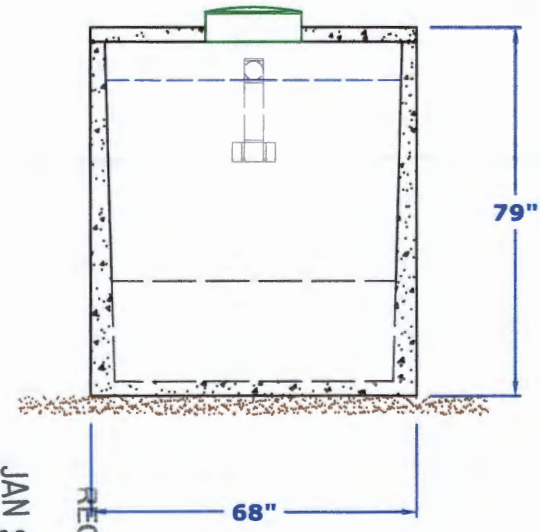
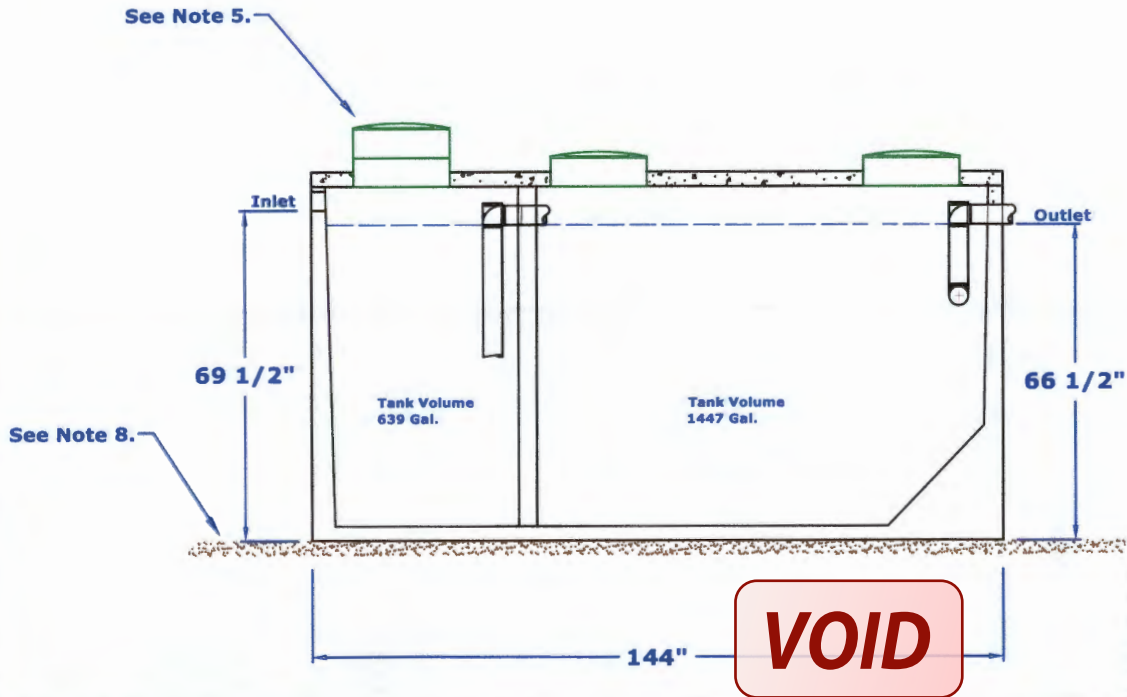
DATE: 03/21/2014 SCALE: 1/2" = 1"

VOID

GENERAL NOTES:

1. Tank structure material to be precast concrete and steel.
2. Maximum burial depth is 30" from slab top to grade.
3. Weight = 16,600 lbs.
4. Tank capacity is 2,086 Gal. (639 trash/1447 EQ tank)
5. 20" Ø access riser w/ lid (Typical 3). Optional extension risers available.
6. 4" min. compacted sand or gravel pad by Contractor

MINIMUM EXCAVATION DIMENSIONS:
Width: 80"
Length: 156"



VOID

COUNTY ENGINEER

JAN 31 2019

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**2086 gallon tank
639 trash / 1447 EQ tank**

Model: 2086 gallon

November 2011
By: gwj

Scale:
* All Dimensions subject to allowable specification tolerances.

Dwg. #: 2086 tank



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

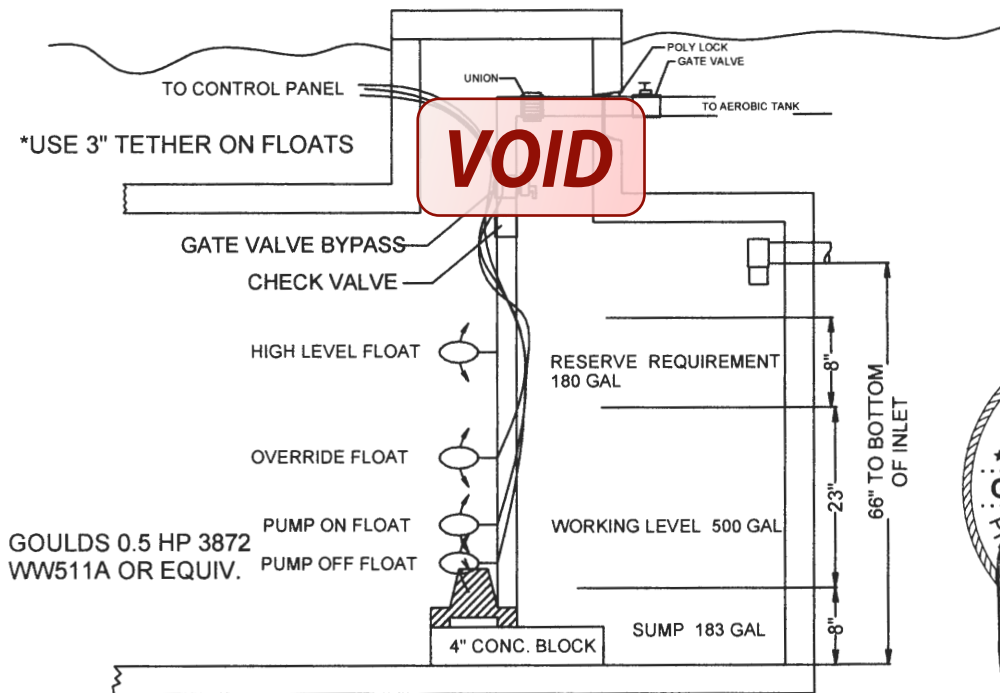
TANK NOT **VOID**

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

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ALL WIRING MUST BE IN COMPLIANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE JAN 31 2019

COUNTY ENGINEER



001/23/19

EQUALIZATION TANK 1447 GAL PUMP TANK
VOLUME = 22.97 GAL/IN

VOID

TANK NOTES:

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

Tightlines to the tank shall be SCH-40 PVC.

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

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

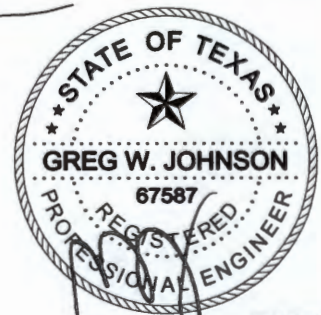
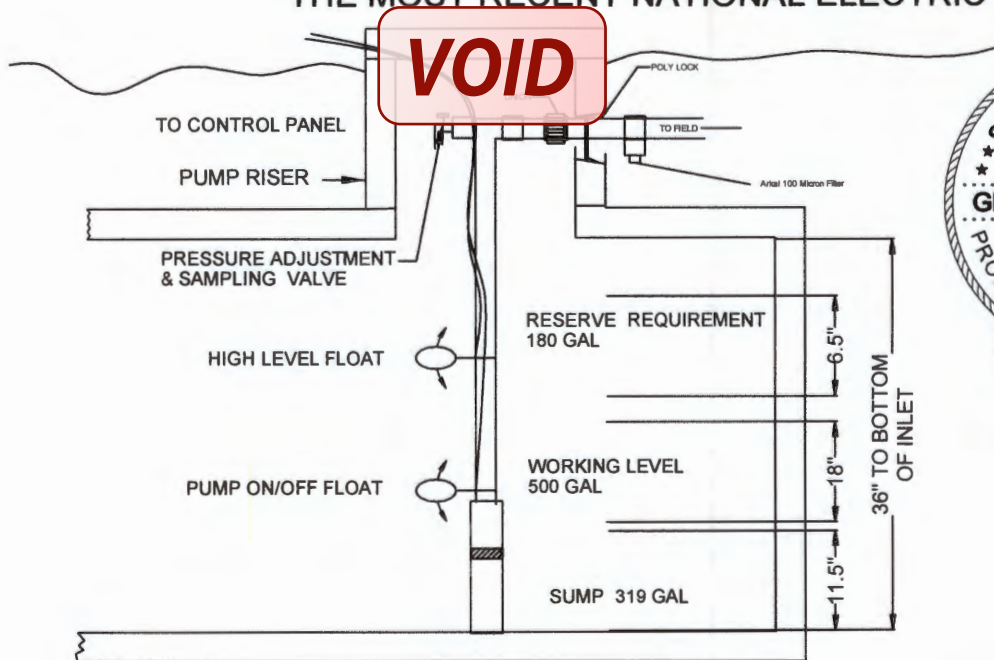
Tanks must be left uncovered and full of water for inspection by the permitting authority.

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JAN 31 2019

COUNTY ENGINEER

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



F#2585

01/23/19

**TYPICAL PUMP TANK CONFIGURATION
1000 GAL BLOCK SEPTIC TANKS**

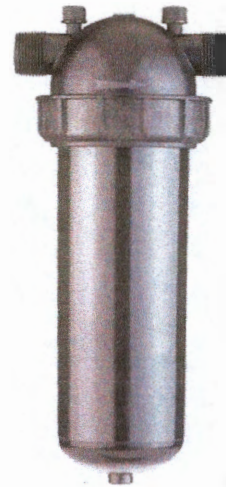
VOID

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.



RECEIVED

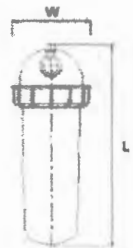
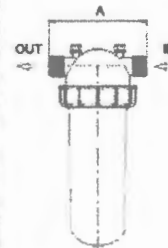
JAN 31 2019

Technical Data

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

VOID

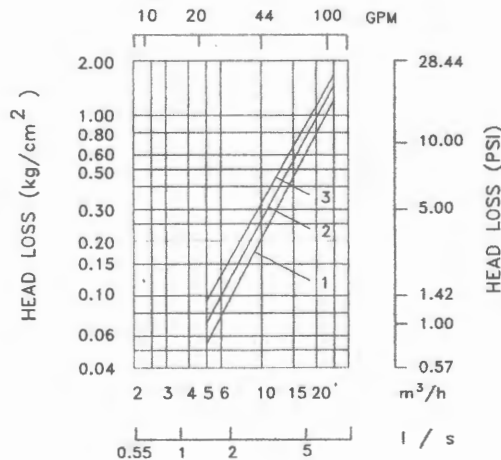
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Filtration Grades

- Blue (400 micron / 40 mesh)
- Yellow (200 micron / 80 mesh)
- Red (130 micron / 120 mesh)
- Black (100 micron / 140 mesh)
- Green (55 micron)

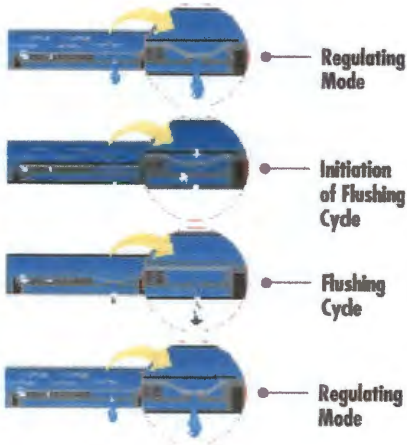
Head Loss Chart





Bioline® Dripperline

Pressure Compensating Dripperline for Wastewater



Bioline's Self-Cleaning, Pressure Compensating Dripper is a fully self-contained 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

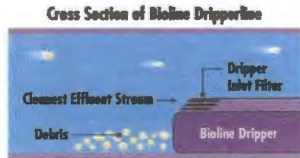
- Tens of millions of feet used in wastewater today.
- Bioline is permitted in every state allowing drip disposal.
- Backed by the largest, most quality-driven manufacturer of drip products in the U.S.
- Preferred choice of major wastewater designers and regulators.
- Proven track record of success for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



Root Safe

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



Applications

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

Specifications

Wall thickness (mil): 45*
 Nominal flow rates (GPH): .4, .6, .9*
 Common spacings: 12", 18", 24"*
 Recommended filtration: 120 mesh
 Inside diameter: .570*
 Color: Purple tubing indicates non-potable source

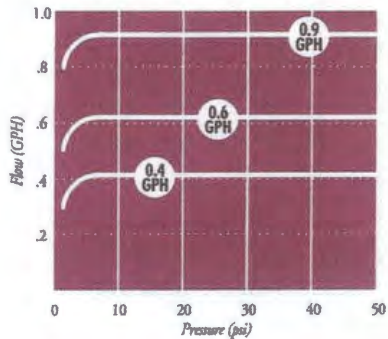
*Additional flows, spacings, and pipe sizes available by request. Please contact Netafim USA Customer Service for details.

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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

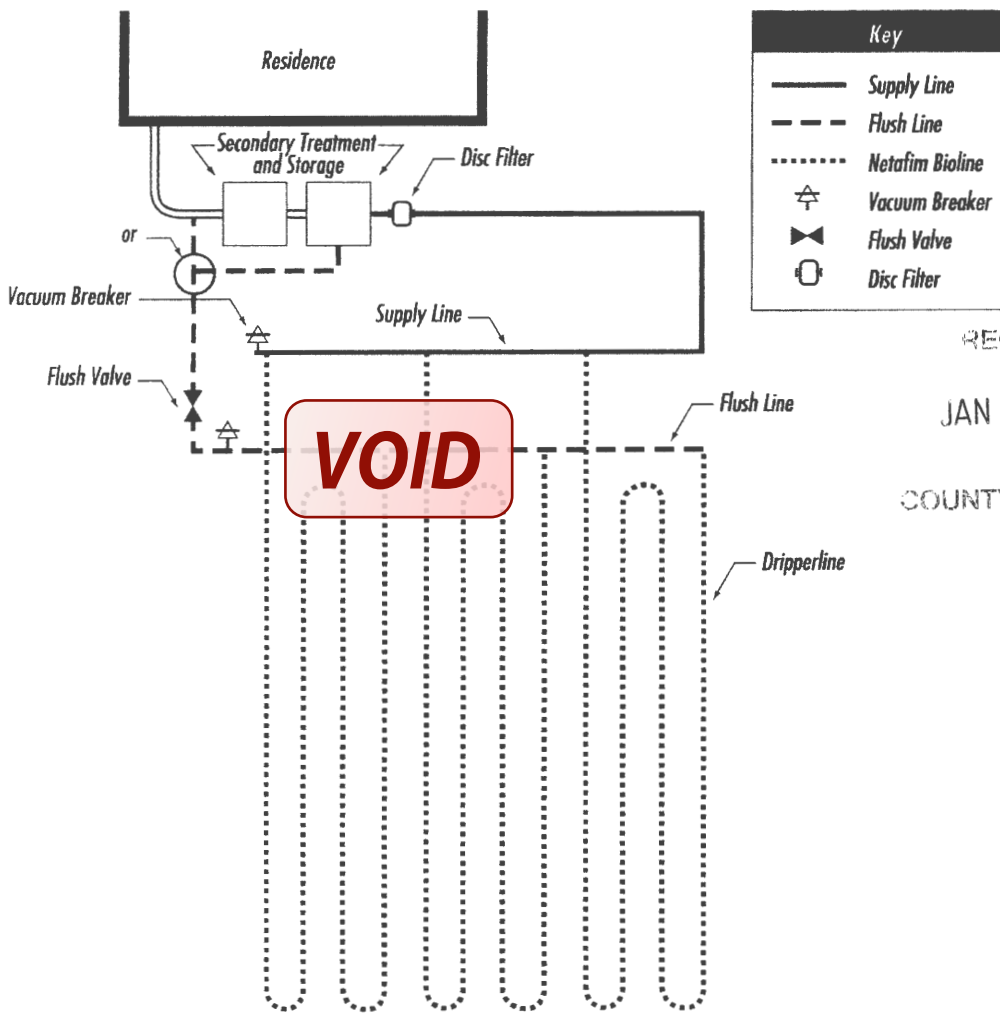
VOID

SAMPLE DESIGNS

SINGLE TRENCH LAYOUT

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

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



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JAN 31 2019

COUNTY ENGINEER


Ritzen, Brenda

From: Ritzen, Brenda
Sent: Wednesday, February 13, 2019 1:08 PM
To: 'Greg Johnson'
Subject: Permit 108709

Re: Preiss Heights
Lot 6 Block 7
Application for Permit for Authorization to Construct an On-Site Sewage Facility

Greg,

The following information is needed before I can continue processing the referenced permit submittal:

-  Provide WPAP exemption utilized.
2. Revise as needed and resubmit.

Thank you,

Brenda Ritzen, OS0007722
Environmental Health Coordinator
Comal County Engineers Office
195 David Jonas Drive
New Braunfels, Texas 78132
830-608-2090
www.cceo.org

Alamo Title Co. GF# 4000141800283

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.

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JAN 21 2019

COUNTY ENGINEER

GENERAL WARRANTY DEED WITH VENDOR'S LIEN

STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF COMAL

§

§

Date: May 15, 2018

Grantor: CLYDE A. COMBS and MARCIA COMBS, husband and wife

Grantor's Mailing Address:

2505 Lark Glen Lane
Austin, TX, 78748
Travis County

Grantee: **CLUTTER FALLS, LLC**, a Texas limited liability company

Grantee's Mailing Address:

2619 Deerfoot Trail
Austin, Texas 78704
Travis County

Consideration:

Cash and a note of even date executed by Grantee and payable to the order of TRUSTTEXAS BANK, SSB, in the principal amount of FIVE HUNDRED THOUSAND and 00/100's DOLLARS (\$500,000.00) [the "Note"], which represents part payment of the purchase price of the Property. The Note is secured by a first and superior vendor's lien and superior title retained in this deed in favor of TRUSTTEXAS BANK, SSB, and by a first-lien deed of trust of even date from Grantee to N. MICHAEL WARZECHA, Trustee.

Property (including any improvements):

Lot 6, Block 7, Preiss Heights, according to the map or plat thereof recorded under Volume 105, Pages 314-318 of the Map and Plat Records of Comal County, Texas.

Reservations from Conveyance: None.

Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to all validly existing conditions, restrictions, reservations, declarations, exceptions, easement grants, set-backs, assessments, maintenance and / or association charges and ordinances, affecting the property conveyed, if any, appearing in the public records; and all leases, grants, exceptions or reservations of coal, lignite, oil, gas and other minerals, together with all rights, privileges, and immunities relating thereto, appearing in the public records; and standby fees, taxes, and assessments by any taxing authority for the 2018 tax year, and subsequent taxes and assessments by any taxing authority for prior years due to change in land usage or ownership.

Grantee, by its acceptance hereof, agrees to be solely responsible for payment of all ad valorem taxes pertaining to the Property for the calendar year 2018 and subsequent years.

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

The vendor's lien against and superior title to the Property are retained until each note described herein is fully paid according to its terms, at which time this deed will become absolute.

TRUSTTEXAS BANK, SSB, at Grantee's request, has paid in cash to Grantor that portion of the purchase price of the Property that is evidenced by the Note. The first and superior vendor's lien against and superior title to the Property are retained for the benefit of TRUSTTEXAS BANK, SSB, and are transferred to TRUSTTEXAS BANK, SSB, without recourse against Grantor.

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

[signature(s) on following page(s)]

Executed effective as of the date first set forth herein.

GRANTOR:

Clyde A. Combs

CLYDE A. COMBS

Marcia Combs

MARCIA COMBS

STATE OF TX
COUNTY OF Comal

§
§

This instrument was acknowledged before me on May 15, 2018, by CLYDE A. COMBS, an individual.



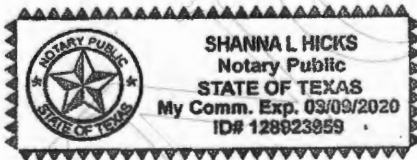
Shanna L. Hicks

Notary Public, State of TX

STATE OF TX
COUNTY OF Comal

§
§

This instrument was acknowledged before me on May 15, 2018, by MARCIA COMBS, an individual.



Shanna L. Hicks

Notary Public, State of TX

Filed and Recorded
Official Public Records
Bobbie Koepf, County Clerk
Comal County, Texas
05/16/2018 01:49:35 PM
LAURA 3 Pages(s)
201806019059

AFTER RECORDING RETURN TO:

CLUTTER-FALLS, LLC
2619 Deerfoot Trail
Austin, Texas 78704

After Recording Return to:
Alamo Tree Company
494 South Seguin St., Ste 100
New Braunfels, TX 78130



Bobbie Koepf

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: AUGUST 28, 2019 Installed: 4/25/2019 Service Expires: 4/25/2021

BILLING ADDRESS

PHYSICAL ADDRESS

* CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78133

TELEPHONE NEED#
 ALT PHONE:

LOT: LT 6

PERMIT #
 COUNTY
 EN:
 MAPS#

108709
 COMAL
 61267882/61760237
 NOT AVAILABLE

SUBDIVISION Manufacturer: CLEARSTREAM 1000

NOTES

TYPE OF SYSTEM DRIP

Inspected Item:	Operational Inoperative		2. Action taken or Repairs or Needed repairs to system (list all components replaced):
	Operational	Inoperative	
Aerators SCFD/Compressor PSI (Record Pressure Reading)	1.25		Cleaned Air Comp Filters
Filters	-		cleaned micron
Irrigation Pumps	-		chk pumps
Recirculation Pumps	N/A		Fleets Alarms
Disinfection Device	✓		& drip field
Chlorine Supply		✓	
Electrical Circuits	✓		
Distribution System	✓		
Sprayfield Vegetation		✓	
Back Flush Drip Field, if applicable	✓		
Other as Noted			
Access Ports are Secured	Yes	No	

3. Tests required and results:

	Required		Results	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		Clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard

Date of completion: 8-29-19 Start Job Time: 2:32 Stop Job Time: 2:44

Maintenance Provider: Waltra Chapman

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-5662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: DECEMBER 25, 2019 Installed: 4/25/2019 Service Expires: 4/25/2021

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: NEED# LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 SN: 517050082/517050237
 SUBDIVISION: Manufacturer: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors PSI Record Pressure Reading	1-25		cleaned Filters
Filters	-		cleaned Micron Filter
Irrigation Pumps	-		ckd pump
Recirculation Pumps	N/A		Floats & Alarms
Disinfection Device	-		& drip field
Chlorine Supply	-		
Electrical Circuits	-		
Distribution System	-		
Sprayfield Vegetation	*	✓	
Back Flush Drip Field, if applicable			
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? Y/N Yes No

3. Tests required and results:

	Required		Results	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-	0	
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard 9
 Date of completion: 12-16-19 Start Job Time: 12:23 Stop Job Time: 12:35
 Maintenance Provider: Walter Chapman

COUNTRYSIDE CONSTRUCTION, INC.
300 CHAPMAN PARKWAY
CANYON LAKE, TX 78133

Phone: 830-899-2615
Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: **AUGUST 25, 2020** Installed: **4/25/2019** Service Expires: **4/25/2021**

BILLING ADDRESS:
*** CLUTTER FALLS, LLC**
2619 DEERFOOT TRAIL
AUSTIN, TX 78704

PHYSICAL ADDRESS:
1277 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

TELEPHONE: NEED# **LOT: LT 6,** **PERMIT#: 108709**
ALT. PHONE: **COUNTY: COMAL**
SUBDIVISION: MFG: CLEARSTRM 1000 **SN: 517050082/517050237**
MAPSCO: N/A

NOTES:
TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI (Record Pressure Reading)	1.25	
Filters	-	
Irrigation Pumps	-	
Recirculation Pumps	N/A	
Disinfection Device	-	
Chlorine Supply		-
Electrical Circuits	-	
Distribution System	-	
Sprayfield Vegetation		-
Back Flush Drip Field, if applicable	✓	
Other as Noted		

2. Action taken or Repairs or Needed repairs to system (list all components replaced):

cleaned Filter
cleaned mirrors
ckd pu mp
Floats Alarms
& drip field

SYSTEM OPERATING AS DESIGNED? Yes No

Access Posts are Secured Yes No

3. Tests required and results:

	Required		Results ng/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: *Richard* **9**
Date of completion: *8-25-20* **Start Job Time:** _____ **Stop Job Time:** _____
Maintenance Provider: *Wolkenchipsman*

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: AUGUST 25, 2020 Installed: 4/25/2019 Service Expires: 4/25/2021

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 SN: 517050082/517050237
 SUBDIVISION: MFG: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators 3CFM/Compressors PSI (Record Pressure Reading)	1.25		cleaned Filter
Filters	-		
Irrigation Pumps	-		Repaired motor
Recirculation Pumps	NA		
Disinfection Device	-		chkd pu mp
Chlorine Supply		-	
Electrical Circuits	-		Floats Alarms
Distribution System	-		
Sprayfield Vegetation		-	
Back Flush Drip Field, if applicable	✓		& drip field
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard 9
 Date of completion: 8-25-20 Start Job Time: _____ Stop Job Time: _____
 Maintenance Provider: Wolkenchipsman

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: DECEMBER 25, 2020 Installed: 4/25/2019 Service Expires: 4/25/2021

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 SN: 517050082/517050237
 SUBDIVISION: MFG: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators		
3CFM/Compressor PBT (Record Pressure Reading)	1.25 yz	
Filters	-	
Irrigation Pumps	-	
Recirculation Pumps	N/A	
Disinfection Device	-	
Chlorine Supply	-	+
Electrical Circuits	-	
Distribution System	-	
Sprayfield Vegetation		-
Back Flush Drip Field, if applicable	-	
Other as Noted		

2. Action taken or Repairs or
 Needed repairs to system (list all
 components replaced):

Cleaned Micron
Back Flushed system
chk pumps
Floats Alarms
& drip field

SYSTEM OPERATING AS DESIGNED? Yes No

Access Posts are Secured Yes No

3 Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)				
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard 9
 Date of completion: 1-8-21 Start Job Time: _____ Stop Job Time: _____
 Maintenance Provider: Walter Chapman

Countryside Construction, Inc.
300 Chapman Parkway, Canyon Lake, TX. 78133
Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662
Septic System Service Agreement

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: CLUTTER FALLS, LLC **Address:** 1277 EDWARDS BLVD
Sub-Div./County: PREISS HEIGHTS, COMAL **NEW BRAUNFELS, TX 78132**
Permit #: 108709 DRIP **Model #:** CLEARSTREAM 1000 **Serial #:** 517050082/517050237
Phone: 512-947-4871 (Aaron)

PLEASE SELECT CONTRACT TERM

() One Year Service Agreement \$450.00

Two Year Service Agreement \$880.00

Legal Description: LT 6, PREISS HEIGHTS - COMAL

This non-refundable contract will be in effect **FROM: 4/25/2021 TO: 4/25/2022** OR 2023 (If paying the two year service agreement add one year to expiration date by circling it) ~~Countryside Construction, Inc.~~ will provide the following:

- An inspection every (4) four months which will include: Servicing of the mechanical & electrical components as necessary to insure system is functioning as engineer designed, pulling and cleaning the Norweco Brand aerator shaft, cleaning compressor air filters of other brands, check chlorine, conduct solids test to determine if system should be pumped, back flushing tubing for drip irrigation fields and checking sprinklers on above ground systems.
- 1) **The property owner is responsible for "purchasing and keeping chlorine"** in the chlorinator, (if applicable). If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.
 - 2) If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
 - 3) **ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS NOT PAID IN FULL AT THE END OF (30) DAYS SHALL REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND AUTHORIZES CONTRACTOR TO REMOVE AND REPOSSESS ANY PARTS INSTALLED. CLIENT FURTHER AGREES TO PAY ANY LABOR COST OF THE INSTALLATION AND REASONABLE COST OF REMOVAL OF SAID PARTS.**
 - 4) **THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.**

Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTIED PARTS" EXCHANGED DURING WARRANTY.** All other components will be according to manufacturer's warranties.

Important: As Countryside Construction, Inc. cannot control what or how much effluent goes into this septic system, we cannot warranty how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. If necessary, between inspections, it is the property owner's responsibility to clean the micron filters on drip irrigation systems. This service agreement does not cover the cost of "**service calls, labor or materials that are required or parts out of warranty**, the failure to maintain electrical power to the system, **sprinklers that are broken**, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract does not include the pumping of a tank or of any compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:

Violations of the warranty also include: disconnecting the alarm, restricting ventilation to the aerator, overloading the system above its rated capacity; or flooding by external means. Rodent, insect or fire ant damage or any other form of unusual abuse is a violation.

A renewal service contract should be "**activated**" (30) thirty days before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Clutter Falls, LLC Serviced by: Countryside Construction Inc.
 Walker Chapman - Installer's Licensee #OS0002929-OSSF Maintenance Provider Licensee #MP0000035
 (x) Stacie Otten Mitchanore Print Name (x) Stacie Otten Mitchanore Date: 3/21/21
 Property Owner Signature

(x) Walker Chapman Date: 3-24-21 Authorized Service Representative (revised 08/13/2020)

PAID \$880.00
3-24-21 (2) YR Renewal
 426

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830 899-2615
 Fax: 830 899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

Inspection Date: APRIL 15 2021 Installed: 4/25/2019 Service Expires: 4/23/2021

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

INSPECTOR ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS TX 78132

TELEPHONE: _____ NEED # _____ LOT: LOT 6, PERM NO.: 108709
 ALT. BRAND: _____ COUNTY: COMAL
 SUBDIVISION: 125' CLEARSTRM 1000 MAP NO.: 517050082/517050237
 N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item	Operational	Insoperative	Other Action noted on Report Needed repairs to be made. List all components replaced.
Actuators			
ICPI (Impressure) Filter Residual Pressure			
Residual Pressure	<u>1.25</u>		<u>cleaned Nilvon</u>
Filters	<u>-</u>		
Irrigation Pumps	<u>-</u>		<u>check pumps</u>
Recirculation Pumps	<u>N/A</u>		
Disinfection Device	<u>-</u>		<u>Floats Alarms</u>
Chlorine Supply	<u>-</u>		<u>& drip field</u>
Electrical Controls	<u>-</u>		<u>cleaned filter</u>
Distribution System	<u>-</u>		
Surrounding Vegetation	<u>-</u>		
Back Flush Drip Field, if applicable	<u>-</u>		
Other as Noted			<u>SYSTEM OPERATING AS DESIGNED</u> <input checked="" type="checkbox"/> <u>Y</u>
Access Gate and Enclosure			<u>Y</u> <input type="checkbox"/> <u>N</u>

3. Tests required and results

Test	Required		Results	Test Method
	Yes	No		
BID (Grab) Turbidity	<u>-</u>	<u>-</u>	<u>clear</u>	<u>grab</u>
Cl (Grab) Fecal Coliforms	<u>-</u>	<u>-</u>		

Copies of this report have been forwarded to the following: COMAL county / homeowner

Maintenance Technician: Richard

Date of completion: 4/22/21 Time: _____

Maintenance Provider: Walker Chapman

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: AUGUST 25, 2021 Installed: 4/25/2019 Service Expires: 4/25/2023

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: NEED#
 ALT. PHONE:

LOT: LT 6,

PERMIT#: 108709

COUNTY: COMAL

SN: 517050082/517050237

MAPSCO: N/A

SUBDIVISION: MFG: CLEARSTRM 1000

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI (Record Pressure Reading)	<u>1.25</u>	
Filters	<u>-</u>	
Irrigation Pumps	<u>-</u>	
Recirculation Pumps	<u>N/A</u>	
Disinfection Device	<u>-</u>	
Chlorine Supply		<u>-</u>
Electrical Circuits	<u>-</u>	
Distribution System	<u>-</u>	
Sprayfield Vegetation		<u>-</u>
Back Flush Drip Field, if applicable	<u>-</u>	
Other as Noted		
Access Posts are Secured		

2. Action taken or Repairs or Needed repairs to system (list all components replaced):

Cleaned Filters micron

chk pump

Floats Alarms

2 drip field

chk Lift Station

SYSTEM OPERATING AS DESIGNED? Y/N

Y No

3. Tests required and results:

	Required		Results mg/l mpn/100ml or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	<u>-</u>		<u>Clear</u>	<u>grab</u>
Cl (Grab)		<u>-</u>		
Faecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: [Signature]

9

Date of completion: 8/21 Start Job Time: _____ Stop Job Time: _____

Maintenance Provider: Walker Chapin

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: APRIL 25, 2022 Installed: 4/25/2019 Service Expires: 4/25/2023

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 SN: 517050082/517050237
 SUBDIVISION: Manufacturer: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors PSI Record Pressure Reading	1.25		cleaned micron
Filters	-		cleaned filter
Irrigation Pumps	-		
Recirculation Pumps	N/A		
Disinfection Device	✓		chk pump
Chlorine Supply		-	
Electrical Circuits	✓		floats alarms
Distribution System	✓		& drip field
Sprayfield Vegetation		✓	
Back Flush Drip Field, if applicable	✓		
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3. Tests required and results:

	Required		Results	Test
	Yes	No	mg/l mpn/100ml or Trace	Method
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard 9
 Date of completion: 4/18/22 Start Job Time: _____ Stop Job Time: _____
 Maintenance Provider: Walker Chapman

Countryside Construction, Inc.
300 Chapman Parkway, Canyon Lake, TX. 78133
Phone: 830-899-2615 or 1-888-379-3721 Fax: 830-899-6662

SEPTIC SYSTEM SERVICE AGREEMENT

In consideration of payment for this service contract, we will abide by and agree to its terms and conditions:

Name: * CLUTTER FALLS, LLC Address: 1277 EDWARDS BLVD
Sub-Div./County: COMAL NEW BRAUNFELS, TX 78132
Permit #: 108709 DRIP Model #: CLEARSTRM 1000 Serial #: 517050082/517050237
Phone: 512-947-4871 (AARON)

PLEASE SELECT CONTRACT TERM

() One Year Service Agreement \$480.00

Two Year Service Agreement \$940.00

Legal Description: LT 6 - COMAL

This non-refundable contract will be in effect FROM: 4/25/2023 TO: 4/25/2024 OR 2025. Countryside Construction, Inc. will provide the following:

- An inspection every (4) four months which will include: Servicing of the mechanical & electrical components as necessary to insure system is functioning as engineer designed, pulling and cleaning the aerator shaft, cleaning compressor air filters of other brands, check chlorine, conduct solids test to determine if system should be pumped, back flushing tubing for drip irrigation fields and checking sprinklers on above ground systems.
- The property owner is responsible for "purchasing and keeping chlorine" in the chlorinator, (if applicable). If the chlorine test reveals "No Chlorine" in the system, the property owner may incur an additional cost.
 - If any improper operation is observed (which cannot be corrected at that time) the property owner will be notified immediately of the conditions and the estimated cost.
 - ANY PARTS, WARRANTY OR NON-WARRANTY, FREIGHT CHARGES, LABOR OR SERVICE CALLS NOT PAID IN FULL AT THE END OF (30) DAYS SHALL REMAIN THE PROPERTY OF COUNTRYSIDE CONSTRUCTION AND AUTHORIZES CONTRACTOR TO REMOVE AND REPOSSESS ANY PARTS INSTALLED. CLIENT FURTHER AGREES TO PAY ANY LABOR COST OF THE INSTALLATION AND REASONABLE COST OF REMOVAL OF SAID PARTS.**
 - THE SIGNING OF THIS SERVICE AGREEMENT AUTHORIZES COUNTRYSIDE CONSTRUCTION TO ENTER THE PROPERTY TO EXECUTE ALL TERMS OF THIS CONTRACT.**

Countryside Construction, Inc., will warranty installation of the septic system to be according to state and county regulations and the designs approved by the county. **HOMEOWNER WILL BE RESPONSIBLE FOR SERVICE CALLS, LABOR AND SHIPPING COSTS ON ANY "WARRANTIED PARTS" EXCHANGED DURING WARRANTY.** All other components will be according to manufacturer's warranties.

Important: As Countryside Construction, Inc. **cannot control** what or how much effluent goes into this septic system, we **cannot warranty** how the system will function. Refer to manufacturers or installer's instructions, for suggestions on septic operation. If necessary, between inspections, it is the property owner's responsibility to clean the micron filters on drip irrigation systems. This service agreement **does not** cover the cost of "service calls, labor or materials that are required or parts out of warranty, the failure to maintain electrical power to the system, sprinklers that are broken, leaking, stopped-up or otherwise mal-functioning; or sewage flows exceeding the hydraulic/organic design capabilities and the input of non-biodegradable materials (solvents, grease, oil, paints, etc.), or any usage contrary to the requirements as advised by authorized service representative. Laboratory test work is available at an additional cost. Chlorine, filters, or parts that are out of warranty are available at a reasonable cost.

This contract **does not** include the **pumping of a tank** or of any **compartment of a tank, or settlement of soil on or around any part of the system regardless of reason:**

Violations of the warranty also include: disconnecting the alarm, restricting ventilation to the aerator, overloading the system above its rated capacity; or flooding by external means. Rodent, insect or fire ant damage or any other form of unusual abuse is a violation. A renewal service contract **should** be "**activated**" (30) **thirty days** before expiration of existing contract. We will contact property owner prior to expiration of existing contract.

Serviced by: Countryside Construction Inc.

Walker Chapman – Installer's Licensee #OS0002929-OSSF

Maintenance Provider Licensee #MP0000035

(X)  Property Owner Signature

Print Name (X) Aaron Mitchamore Date: 3/23/23

(X) Walker Chapman Date: 3-27-23 Authorized Service Representative (revised 08/13/2020)

PAID
#838

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: August 25, 2022 Installed: 4/25/2019 Service Expires: 4/25/2023

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 GATE CODE: SN: 517050082/517050237
 SUBDIVISION: Manufacturer: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors PSI Record Pressure Reading	1-25		Cleaned Microan Filtered
Filters			
Irrigation Pumps			chk pumps
Recirculation Pumps	NA		
Disinfection Device	-		Floats, alarms
Chlorine Supply		-	
Electrical Circuits	-		& drip field
Distribution System	-		
Sprayfield Vegetation		-	BF System
Back Flush Drip Field, if applicable	-		
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? Y/N Yes No

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		Clear	Grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard

9

Date of completion: 8/19/22 Start Job Time: _____

Stop Job Time: _____

Maintenance Provider: Walker Chapman

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: APRIL 25, 2023 Installed: 4/25/2019 Service Expires: 4/25/2023

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: NEED# LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 GATE CODE: SN: 517050082/517050237
 SUBDIVISION: MFG: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators SCFM/Compressors PSI Record Pressure Reading	1,50	
Filters	-	
Irrigation Pumps	-	
Recirculation Pumps	N/A	
Disinfection Device	-	
Chlorine Supply		-
Electrical Circuits	-	
Distribution System	-	
Sprayfield Vegetation		-
Back Flush Drip Field, if applicable	-	
Other as Noted		

2. Action taken or Repairs or
 Needed repairs to system (list all
 components replaced):
 cleaned micron cleaned Filter
 ckd pumps Floats
 alum us & drip
 field ckd lift
 station

SYSTEM OPERATING AS DESIGNED? Y/N

Access Posts are Secured	Yes	No
--------------------------	-----	----

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard 9
 Date of completion: 4/18/23 Start Job Time: _____ Stop Job Time: _____
 Maintenance Provider: Walkechapman

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: December 25, 2022 Installed: 4/25/2019 Service Expires: 4/25/2023

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 GATE CODE: SN: 517050082/517050237
 SUBDIVISION: MFG: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors PSI Record Pressure Reading	1.5		cleaned filters
Filters	-		chk pumps
Irrigation Pumps	-		Floats alarms
Recirculation Pumps	N/A		+ drip field
Disinfection Device	-		
Chlorine Supply		-	
Electrical Circuits	-		
Distribution System	-		
Sprayfield Vegetation		-	
Back Flush Drip Field, if applicable	-		
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? Y/N Yes No

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Kidral

9

Date of completion: 12 20 22 Start Job Time: _____ Stop Job Time: _____

Maintenance Provider: Waku Chapman

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: **AUGUST 25, 2023** Installed: **4/25/2019** Service Expires: **4/25/2025**

BILLING ADDRESS:
 * **CLUTTER FALLS, LLC**
2619 DEERFOOT TRAIL
AUSTIN, TX 78704

PHYSICAL ADDRESS:
1277 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#**
 ALT. PHONE:
 GATE CODE:
 SUBDIVISION: **MFG: CLEARSTRM 1000**

LOT: **LT 6,** PERMIT#: **108709**
 COUNTY: **COMAL**
 SN: **517050082/517050237**
 MAPSCO: **N/A**

NOTES:
 TYPE OF SYSTEM: **DRIP**

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI		
Record Pressure Reading	1.25	
Filters	-	
Irrigation Pumps	-	
Recirculation Pumps	not	
Disinfection Device	-	
Chlorine Supply		-
Electrical Circuits	-	
Distribution System	-	
Sprayfield Vegetation		-
Back Flush Drip Field, if applicable	-	
Other as Noted		

2. Action taken or Repairs or Needed repairs to system (list all components replaced):

Cleaned Filter

CR6 pump

Floats alarms

& drip field

SYSTEM OPERATING AS DESIGNED? **Y/N**

Access Posts are Secured **Yes** **No**

3. Tests required and results:

	Required		Results mg/l mpn/100ml or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)				
Cl (Grab)	-	-	14	OTO
Fecal Coliform				

Copies of this report have been forwarded to the following: **COMAL county / homeowner.**

Maintenance Technician: **Richard**

9

Date of completion: **8/11/23**

Start Job Time: _____

Stop Job Time: _____

Maintenance Provider: **Walter Chapman**

COUNTRYSIDE CONSTRUCTION, INC.
300 CHAPMAN PARKWAY
CANYON LAKE, TX 78133

Phone: 830-899-2615
Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: DECEMBER 25, 2023 Installed: 4/25/2019 Service Expires: 4/25/2025

BILLING ADDRESS:

* CLUTTER FALLS, LLC
2619 DEERFOOT TRAIL
AUSTIN, TX 78704

PHYSICAL ADDRESS:

1277 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

TELEPHONE: NEED#

LOT: LT 6,

PERMIT#:

108709

ALT. PHONE:

COUNTY:

COMAL

GATE CODE:

SN:

517050082/517050237

SUBDIVISION: MFG: CLEARSTRM 1000

MAPSCO:

N/A

NOTES:

TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors P81 Record Pressure Reading	1.50		Cleaned Micron
Filters	-		Cleaned Air Comp Filters
Irrigation Pumps	-		Cwd pump
Recirculation Pumps	N/A		Floats alarms
Disinfection Device	-		& drip field
Chlorine Supply		-	
Electrical Circuits	-		
Distribution System	-		
Sprayfield Vegetation		-	
Back Flush Drip Field, if applicable	-		
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? Y/N
			Yes No

3. Tests required and results:

	Required		Results mg/l mpn/100mi or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician:

Richard

9

Date of completion: 12-5-23 Start Job Time:

Stop Job Time:

Maintenance Provider:

Walker Chapman

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: APRIL 25, 2024 Installed: 4/25/2019 Service Expires: 4/25/2025

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: NEED# LOT: LT 6, PERMIT#: 108709
 ALT. PHONE: COUNTY: COMAL
 GATE CODE: SN: 517050082/517050237
 SUBDIVISION: MFG: CLEARSTRM 1000 MAPSCO: N/A

NOTES:
 TYPE OF SYSTEM: DRIP

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI	3.0	
Record Pressure Reading		
Filters	-	
Irrigation Pumps	-	
Recirculation Pumps	N/A	
Disinfection Device	-	
Chlorine Supply		-
Electrical Circuits	-	
Distribution System	-	
Sprayfield Vegetation		-
Back Flush Drip Field, if applicable	-	
Other as Noted		

2. Action taken or Repairs or Needed repairs to system (list all components replaced):

Cleaned Filters

Cleaned Microcontrollers pumps

Floats alarms & drip field PSI

SYSTEM OPERATING AS DESIGNED? YES NO

Access Posts are Secured Yes No

3. Tests required and results:

	Required		Results mg/l mpn/100ml or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: Richard 9
 Date of completion: 4-23-24 Start Job Time: Stop Job Time:
 Maintenance Provider: walke Chapman

COUNTRYSIDE CONSTRUCTION, INC.
 300 CHAPMAN PARKWAY
 CANYON LAKE, TX 78133

Phone: 830-899-2615
 Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: December 25, 2024 Installed: 4/25/2019 Service Expires: 4/25/2025

BILLING ADDRESS:
 * CLUTTER FALLS, LLC
 2619 DEERFOOT TRAIL
 AUSTIN, TX 78704

PHYSICAL ADDRESS:
 1277 EDWARDS BLVD
 NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: **LT 6,** PERMIT#: **108709**
 ALT. PHONE: COUNTY: **COMAL**
 GATE CODE: SN: **517050082/517050237**
 SUBDIVISION: MFG: **CLEARSTRM 1000** MAPSCO: **N/A**

NOTES:
 TYPE OF SYSTEM: **DRIP**

Inspected Item:	Operational	Inoperative	2. Action taken or Repairs or Needed repairs to system (list all components replaced):
Aerators SCFM/Compressors PSI Record Pressure Reading	3.0		cleaned Micron
Filters	-		cleaned filters
Irrigation Pumps	-		
Recirculation Pumps	N/A		
Disinfection Device	-		chk pump
Chlorine Supply		-	
Electrical Circuits	-		floats alarms
Distribution System	-		
Sprayfield Vegetation		-	
Back Flush Drip Field, if applicable	-		drip field
Other as Noted			
Access Posts are Secured			SYSTEM OPERATING AS DESIGNED? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N

3. Tests required and results:

	Required		Results mg/l mpn/100ml or Trace	Test Method
	Yes	No		
BOD (Grab)				
TSS (Grab)	-		clear	grab
Cl (Grab)		-		
Fecal Coliform				

Copies of this report have been forwarded to the following: COMAL county / homeowner.

Maintenance Technician: *Silbert*

9

Date of completion: 12-3-24 Start Job Time: _____ Stop Job Time: _____

Maintenance Provider: *Walke Clupin*

COUNTRYSIDE CONSTRUCTION, INC.
300 CHAPMAN PARKWAY
CANYON LAKE, TX 78133

Phone: 830-899-2615
Fax: 830-899-6662

TESTING AND REPORTING RECORD

This Testing and Reporting Record shall be completed, signed and dated after each inspection.

1. Inspection Date: **April 25, 2025** Installed: 4/25/2019 Service Expires: 4/25/2025

BILLING ADDRESS:
*** CLUTTER FALLS, LLC**
2619 DEERFOOT TRAIL
AUSTIN, TX 78704

PHYSICAL ADDRESS:
1277 EDWARDS BLVD
NEW BRAUNFELS, TX 78132

TELEPHONE: **NEED#** LOT: **LT 6,** PERMIT#: **108709**
 ALT. PHONE: COUNTY: **COMAL**
 GATE CODE: SN: **517050082/517050237**
 SUBDIVISION: MFG: **CLEARSTRM 1000** MAPSCO: **N/A**

NOTES:
 TYPE OF SYSTEM: **DRIP**

Inspected Item:	Operational	Inoperative
Aerators		
SCFM/Compressors PSI		
Record Pressure Reading	30	
Filters	—	
Irrigation Pumps	—	
Recirculation Pumps	—	
Disinfection Device	—	
Chlorine Supply		—
Electrical Circuits	—	
Distribution System	—	
Sprayfield Vegetation		—
Back Flush Drip Field, if applicable	—	
Other as Noted		

2. Action taken or Repairs or Needed repairs to system (list all components replaced):

Cleaned Micron
Cleaned Comp filters
chk pump
floats alarms
drip field

SYSTEM OPERATING AS DESIGNED? **Y/N**

Access Posts are Secured **Yes** No

3. Tests required and results:

	Required		Results	Test Method
	Yes	No		
BOD(Grab)				
TSS(Grab)	—		clear	grab
Cl(Grab)		—		
Fecal Coliform				

Copies of this report have been forwarded to the following: **COMAL county / homeowner.**

Maintenance Technician: **Richard** 9
 Date of completion: **4/14/25** Start Job Time: _____ Stop Job Time: _____
 Maintenance Provider: **Walker Chapman**