

# **COMAL COUNTY**

## ENGINEER'S OFFICE

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

Issued This Date:

02/14/2023

Permit Number:

113612

Location Description:

3660 TANGLEWOOD TRL SPRING BRANCH, TX 78070

Subdivision:

Charles Murhart Survey Abs No. 404

Unit:

0

Lot:

0

Block:

0

Acreage:

14.2300

Type of System:

Aerobic

Surface Irrigation / Drip Irrigation

Issued to:

Rebecca Creek Campground

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

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

Alterations to this permit including, but not limited to:

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

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

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

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

Licensing Authority

**Comal County Environmental Health** 

Assistant OS0034792

ENVIRONMENTAL HEALTH INSPECTOR

OS0032485

ENVIRONMENTAL HEALTH COORDINATOR

As a condition of this permit submittal, a meter must be installed on the outflow line of the pump tank. The readings from this meter must be recorded on a daily basis and submitted to the Comal County Environmental Health Department once a month for 12 months from the date the License to Operate is issued. If at any time the daily meter reading exceeds the permitted flow rate this permit will be void and a new permit must be obtained.

# **CCEO**

: N/A	1					
System 2	Numbering System is		_		_	
System 3	Per submitted readings	4				
System 4	Not our permit numbering					
System 5	system					
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GPD: N/A	
System 2	Ī
System 3	F
System 4	No
System 5	
,,,,,,	

Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	7483		06/20/25	16695	16695
06/21/25	7521	38	06/21/25	16715	20
06/22/25	7560	39	06/22/25	16780	65
06/23/25	7578	18	06/23/25	16845	65
06/24/25	7620	42	06/24/25	17041	196
06/25/25	7656	36	06/25/25	17158	117
06/26/25	7694	38	06/26/25	17304	146
06/27/25	7739	45	06/27/25	17435	131
06/28/25	7846	107	06/28/25	17495	60
06/29/25	7849	3	06/29/25	17532	37
06/30/25	7850	1	06/30/25	17801	269
07/01/25	7857	7	07/01/25	17839	38
07/02/25	7860	3	07/02/25	17846	7
07/03/25	7865	5	07/03/25	17860	14
07/04/25	7865	0	07/04/25	17846	0
07/05/25	7865	0	07/05/25	17846	0
07/06/25	7865	0	07/06/25	17846	0
07/07/25	7865	0	07/07/25	17846	0
07/08/25	7865	0	07/08/25	17846	0
07/09/25	7865	0	07/09/25	17846	0
07/10/25	7865	0	07/10/25	17846	0
07/11/25	7865	0	07/11/25	17846	0
07/12/25	7881	16	07/12/25	17941	95
07/13/25		0	07/13/25		0
07/14/25		0	07/14/25		0
07/15/25		0	07/15/25		0
07/16/25		0	07/16/25		0
07/17/25		0	07/17/25		0
07/18/25		0	07/18/25		0
07/19/25		0	07/19/25		0
07/20/25		0	07/20/25		0

Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	84	84	06/20/25	5089	5089
06/21/25	84	0	06/21/25	5234	145
06/22/25	84	0	06/22/25	5329	95
06/23/25	84	0	06/23/25	5473	144
06/24/25	84	0	06/24/25	5649	176
06/25/25	84	0	06/25/25	5737	88
06/26/25	84	0	06/26/25	5792	55
06/27/25	84	0	06/27/25	5863	71
06/28/25	85	1	06/28/25	5863	0
06/29/25	85	0	06/29/25	5863	0
06/30/25	86	1	06/30/25	5863	0
07/01/25	89	3	07/01/25	5863	0
07/02/25	90	1	07/02/25	5984	121
07/03/25	91	1	07/03/25	5991	7
07/04/25	93	2	07/04/25	5994	3
07/05/25	93	0	07/05/25	5994	0
07/06/25	93	0	07/06/25	5994	0
07/07/25	93	0	07/07/25	5994	0
07/08/25	93	0	07/08/25	5994	0
07/09/25	93	0	07/09/25	5994	0
07/10/25	93	0	07/10/25	5994	0
07/11/25	93	0	07/11/25	5994	0
07/12/25	103	10	07/12/25	6022	28
07/13/25	103	0	07/13/25		0
07/14/25	103	0	07/14/25		0
07/15/25	103	0	07/15/25		0
07/16/25	103	0	07/16/25		0
07/17/25		0	07/17/25		0
07/18/25		0	07/18/25		0
07/19/25		0	07/19/25		0
07/20/25		0	07/20/25		0

06/20/25 62880 62880 06/20/25 230884 23088 06/21/25 62880 0 06/21/25 231116 2 06/22/25 62880 0 06/23/25 231134 25 06/23/25 62880 0 06/23/25 231662 28 06/24/25 62880 0 06/23/25 232056 39 06/25/25 62880 0 06/25/25 232379 32 06/25/25 62880 0 06/25/25 232379 32 06/26/25 62880 0 06/25/25 232379 32 06/26/25 62880 0 06/27/25 233339 56 06/28/25 62880 0 06/28/25 233339 66/29/25 62880 0 06/28/25 233339 06/29/25 62880 0 06/28/25 233339 06/29/25 62880 0 06/30/25 233339 07/01/25 62880 0 07/01/25 233339 07/01/25 62880 0 07/01/25 233339 07/01/25 62880 0 07/02/25 233350 07/03/25 62880 0 07/02/25 233350 07/03/25 62880 0 07/02/25 233950 07/05/25 0 07/05/25 233950 07/05/25 0 07/05/25 233950 07/06/25 0 07/06/25 233950 07/08/25 0 07/08/25 233950 07/08/25 0 07/08/25 233950 07/10/25 0 07/10/25 233950 07/10/25 0 07/11/25 233950 07/11/25 0 07/11/25 233950	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/21/25         62880         0         06/21/25         231116         23           06/22/25         62880         0         06/23/25         231662         28           06/24/25         62880         0         06/23/25         231662         28           06/24/25         62880         0         06/24/25         232056         39           06/25/25         62880         0         06/25/25         232379         32           06/26/25         62880         0         06/26/25         233339         56           06/28/25         62880         0         06/28/25         233339         56           06/29/25         62880         0         06/29/25         233339         56           06/30/25         62880         0         06/29/25         233339         56           06/30/25         62880         0         07/01/25         233339         57           07/02/25         62880         0         07/01/25         233339         56           07/04/25         62880         0         07/03/25         233950         19           07/05/25         0         07/05/25         233950         19           07/05	06/20/25		62880	06/20/25		230884
06/22/25         62880         0         06/22/25         231374         25           06/23/25         62880         0         06/23/25         231662         28           06/24/25         62880         0         06/24/25         232056         39           06/25/25         62880         0         06/25/25         232379         32           06/25/25         62880         0         06/26/25         232770         39           06/28/25         62880         0         06/27/25         233339         56           06/28/25         62880         0         06/29/25         233339         66/29/25         233339         66/29/25         233339         06/30/25         233339         66/29/25         233339         06/30/25         233339         07/01/25         233339         07/01/25         233390         07/01/25         233390         07/01/25         233950         19           07/04/25         62880         0         07/02/25         233950         19         07/04/25         233950         07/05/25         233950         07/05/25         233950         07/05/25         233950         07/08/25         233950         07/08/25         233950         07/10/25         233950 <td>06/21/25</td> <td>62880</td> <td>0</td> <td>06/21/25</td> <td>231116</td> <td>232</td>	06/21/25	62880	0	06/21/25	231116	232
06/24/25         62880         0         06/24/25         232056         39           06/25/25         62880         0         06/25/25         232379         32           06/26/25         62880         0         06/25/25         232770         39           06/27/25         62880         0         06/27/25         233339         56           06/28/25         62880         0         06/29/25         233339         66/30/25         233339         66/30/25         233339         07/01/25         233339         07/01/25         233339         07/01/25         233339         07/01/25         233339         07/01/25         233339         07/01/25         233339         07/01/25         233339         07/01/25         233350         07/02/25         233350         07/02/25         233350         07/03/25         233950         07/03/25         233950         07/05/25         233950         07/05/25         233950         07/05/25         233950         07/06/25         233950         07/09/25         233950         07/09/25         233950         07/09/25         233950         07/09/25         233950         07/10/25         233950         07/10/25         233950         07/10/25         233950         07/10/25         2		62880	0		231374	258
06/25/25 62880 0 06/25/25 232379 32 06/26/25 62880 0 06/26/25 232770 39 06/27/25 62880 0 06/26/25 233339 56 06/28/25 62880 0 06/29/25 233339 06/29/25 62880 0 06/29/25 233339 06/29/25 62880 0 06/29/25 233339 06/30/25 62880 0 06/30/25 233339 07/01/25 62880 0 07/01/25 233339 07/02/25 62880 0 07/01/25 233395 07/02/25 62880 0 07/02/25 233755 41 07/03/25 62880 0 07/03/25 233950 19 07/04/25 62880 0 07/04/25 233950 07/04/25 62880 0 07/04/25 233950 07/05/25 0 07/05/25 233950 07/05/25 0 07/06/25 233950 07/06/25 0 07/08/25 233950 07/09/25 0 07/08/25 233950 07/09/25 0 07/09/25 233950 07/09/25 0 07/09/25 233950 07/10/25 0 07/11/25 233950 07/11/25 0 07/11/25 233950 07/11/25 0 07/11/25 233950 07/11/25 0 07/11/25 233955 07/13/25 0 07/11/25 233955 07/13/25 0 07/11/25 07/14/25 0 07/14/25 07/14/25 0 07/16/25 07/15/25 0 07/16/25 07/16/25 0 07/16/25 07/18/25 0 07/18/25 07/18/25 0 07/18/25	06/23/25	62880	0	06/23/25	231662	288
06/26/25         62880         0         06/26/25         232770         39           06/27/25         62880         0         06/27/25         233339         56           06/28/25         62880         0         06/28/25         233339         66/29/25         233339         66/29/25         233339         66/29/25         233339         66/29/25         233339         66/29/25         233339         66/29/25         233339         67/01/25         233339         67/01/25         233339         67/01/25         233339         67/01/25         233350         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950	06/24/25	62880	0	06/24/25	232056	394
06/27/25         62880         0         06/27/25         233339         56           06/28/25         62880         0         06/28/25         233339         66/30/25         233339         66/30/25         233339         66/30/25         233339         66/30/25         233339         67/01/25         233339         67/01/25         233339         67/01/25         233339         67/01/25         233339         67/01/25         233339         67/01/25         233350         19         67/01/25         233350         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950         19         67/01/25         233950	06/25/25	62880	0	06/25/25	232379	323
06/28/25         62880         0         06/28/25         233339           06/29/25         62880         0         06/29/25         233339           07/01/25         62880         0         06/30/25         233339           07/01/25         62880         0         07/01/25         233339           07/02/25         62880         0         07/02/25         233755         41           07/04/25         62880         0         07/04/25         233950         19           07/05/25         0         07/05/25         233950         19           07/05/25         0         07/05/25         233950         19           07/05/25         0         07/05/25         233950         19           07/05/25         0         07/05/25         233950         19           07/05/25         0         07/05/25         233950         07/07/25         233950           07/08/25         0         07/08/25         233950         07/10/25         233950         07/11/25         233950         07/11/25         233950         07/11/25         233950         07/11/25         233950         07/11/25         233950         07/11/25         07/11/25         233950	06/26/25	62880	0	06/26/25	232770	391
06/29/25         62880         0         06/29/25         233339           06/30/25         62880         0         06/30/25         233339           07/01/25         62880         0         07/01/25         233339           07/02/25         62880         0         07/01/25         233755         41           07/03/25         62880         0         07/03/25         233950         19           07/04/25         62880         0         07/04/25         233950         19           07/05/25         0         07/06/25         233950         07/06/25         233950           07/06/25         0         07/06/25         233950         07/08/25         233950           07/08/25         0         07/08/25         233950         07/09/25         233950           07/09/25         0         07/09/25         233950         07/11/25         233950           07/11/25         0         07/11/25         233950         07/11/25         233950           07/11/25         0         07/11/25         233950         07/11/25         233950           07/12/25         0         07/11/25         233950         07/11/25         07/11/25	06/27/25	62880	0	06/27/25	233339	569
06/30/25         62880         0         06/30/25         233339           07/01/25         62880         0         07/01/25         233339           07/02/25         62880         0         07/02/25         233755         41           07/03/25         62880         0         07/03/25         233950         19           07/04/25         62880         0         07/05/25         233950         19           07/05/25         0         07/05/25         233950         07/05/25         233950           07/06/25         0         07/07/25         233950         07/08/25         233950           07/08/25         0         07/08/25         233950         07/09/25         233950           07/10/25         0         07/10/25         233950         07/10/25         233950           07/10/25         0         07/11/25         233950         07/11/25         233950           07/11/25         0         07/11/25         233950         07/11/25         233950         07/11/25           07/12/25         0         07/11/25         233950         07/11/25         233950         07/11/25           07/13/25         0         07/11/25         233950<	06/28/25	62880	0	06/28/25	233339	0
07/01/25         62880         0         07/01/25         233339           07/02/25         62880         0         07/02/25         233755         41           07/03/25         62880         0         07/04/25         233950         19           07/04/25         62880         0         07/05/25         233950         07/05/25         233950           07/05/25         0         07/05/25         233950         07/07/25         233950         07/07/25         233950         07/07/25         233950         07/08/25         233950         07/08/25         233950         07/08/25         233950         07/10/25         233950         07/10/25         233950         07/10/25         233950         07/10/25         233950         07/11/25         0         07/10/25         233950         07/11/25         07/11/25         0         07/11/25         233950         07/11/25         0         07/11/25         233950         07/11/25         0         07/11/25         233950         07/11/25         0         07/11/25         233950         07/11/25         0         07/11/25         233950         07/11/25         0         07/11/25         233950         07/11/25         0         07/11/25         0         07/11/25<	06/29/25	62880	0	06/29/25	233339	0
07/02/25         62880         0         07/02/25         233755         41           07/03/25         62880         0         07/04/25         233950         19           07/04/25         62880         0         07/04/25         233950         19           07/05/25         0         07/06/25         233950         07/06/25         233950         07/07/25         233950         07/07/07/25         233950         07/07/25         233950         07/07/25         233950         07/08/25         233950         07/09/25         233950         07/10/25         233950         07/10/25         233950         07/11/25         233950         07/11/25         233950         07/11/25         07/11/25         233950         07/11/25         07/11/25         233950         07/11/25         07/11/25         07/11/25         07/11/25         07/11/25         07/11/25         07/11/25         07/11/25         07/11/25         07/11/25         07/14/25         07/14/25         07/14/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25         07/15/25 <t< td=""><td>06/30/25</td><td>62880</td><td>0</td><td>06/30/25</td><td>233339</td><td>0</td></t<>	06/30/25	62880	0	06/30/25	233339	0
07/03/25         62880         0         07/03/25         233950         19           07/04/25         62880         0         07/05/25         233950         19           07/05/25         0         07/05/25         233950         07/06/25         233950           07/06/25         0         07/06/25         233950         07/07/25         233950           07/08/25         0         07/08/25         233950         07/09/25         233950           07/10/25         0         07/10/25         233950         07/11/25         233950           07/11/25         0         07/11/25         233950         07/11/25         233950           07/12/25         0         07/11/25         233950         07/11/25         233950           07/13/25         0         07/11/25         233950         07/11/25         07/11/25         233950           07/13/25         0         07/13/25         07/13/25         07/13/25         07/14/25         07/15/25         07/15/25         07/16/25         07/16/25         07/18/25         07/18/25         07/18/25         07/19/25         07/19/25         07/19/25         07/19/25         07/19/25         07/19/25         07/19/25         07/19/25	07/01/25	62880	0	07/01/25	233339	C
07/04/25         62880         0         07/04/25         233950           07/05/25         0         07/05/25         233950           07/06/25         0         07/05/25         233950           07/07/25         0         07/07/25         233950           07/08/25         0         07/08/25         233950           07/10/25         0         07/09/25         233950           07/10/25         0         07/10/25         233950           07/11/25         0         07/11/25         233950           07/11/25         0         07/11/25         233950           07/12/25         0         07/12/25         233950           07/12/25         0         07/12/25         233950           07/12/25         0         07/12/25         233950           07/12/25         0         07/12/25         233950           07/12/25         0         07/12/25         233950           07/14/25         0         07/14/25         0           07/14/25         0         07/14/25         0           07/16/25         0         07/16/25         0           07/18/25         0         07/16/25         0	07/02/25	62880	0	07/02/25	233755	416
07/05/25         0         07/05/25         233950           07/06/25         0         07/06/25         233950           07/07/25         0         07/07/25         233950           07/08/25         0         07/08/25         233950           07/09/25         0         07/09/25         233950           07/10/25         233950         07/10/25         233950           07/11/25         0         07/11/25         233950           07/11/25         0         07/11/25         233950           07/12/25         0         07/12/25         233955           07/13/25         0         07/14/25         07/14/25           07/14/25         0         07/14/25         07/14/25           07/15/25         0         07/15/25         07/16/25           07/18/25         0         07/17/25         0           07/18/25         0         07/18/25         0           07/19/25         0         07/18/25         0	07/03/25	62880	0	07/03/25	233950	195
07/06/25         0         07/06/25         233950           07/07/25         0         07/07/25         233950           07/08/25         0         07/08/25         233950           07/09/25         0         07/09/25         233950           07/10/25         0         07/10/25         233950           07/11/25         233950         07/11/25         233950           07/12/25         0         07/11/25         233955           07/13/25         0         07/13/25         07/14/25           07/14/25         0         07/14/25         07/14/25           07/15/25         0         07/16/25         07/16/25           07/16/25         0         07/17/25         07/18/25           07/18/25         0         07/18/25         07/18/25	07/04/25	62880	0	07/04/25	233950	0
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07/09/25         0         07/09/25         233950           07/10/25         0         07/10/25         233950           07/11/25         0         07/11/25         233950           07/12/25         0         07/12/25         233955           07/13/25         0         07/13/25           07/14/25         0         07/14/25           07/15/25         0         07/15/25           07/16/25         0         07/16/25           07/17/25         0         07/17/25           07/18/25         0         07/18/25           07/19/25         0         07/18/25	07/07/25		0	07/07/25	233950	0
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07/13/25         0         07/13/25           07/14/25         0         07/14/25           07/15/25         0         07/15/25           07/16/25         0         07/16/25           07/17/25         0         07/17/25           07/18/25         0         07/18/25           07/19/25         0         07/19/25	07/11/25		0	07/11/25	233950	C
07/14/25         0         07/14/25           07/15/25         0         07/15/25           07/16/25         0         07/16/25           07/17/25         0         07/17/25           07/18/25         0         07/18/25           07/19/25         0         07/19/25	07/12/25		0	07/12/25	233955	5
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Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:	Date:	Meter Reading:	GPD:
06/20/25	151039	151039	06/20/25	94182	94182	07/21/25		0	08/21/25		0	09/21/25		0	10/22/25		0
06/21/25	151039	0	06/21/25	94182	0	07/22/25		0	08/22/25		0	09/22/25		0	10/23/25		0
06/22/25	151039	0	06/22/25	94292	110	07/23/25		0	08/23/25		0	09/23/25		0	10/24/25		0
06/23/25	151039	0	06/23/25	94292	0	07/24/25		0	08/24/25		0	09/24/25		0	10/25/25		0
06/24/25	151039	0	06/24/25	94447	155	07/25/25		0	08/25/25		0	09/25/25		0	10/26/25		0
06/25/25	151039	0	06/25/25	94447	0	07/26/25		0	08/26/25		0	09/26/25		0	10/27/25		0
06/26/25	151039	0	06/26/25	94447	0	07/27/25		0	08/27/25		0	09/27/25		0	10/28/25		0
06/27/25	151039	0	06/27/25	94728	281	07/28/25		0	08/28/25		0	09/28/25		0	10/29/25		0
06/28/25	151039	0	06/28/25	94728	0	07/29/25		0	08/29/25		0	09/29/25		0	10/30/25		0
06/29/25	151039	0	06/29/25	94728	0	07/30/25		0	08/30/25		0	09/30/25		0	10/31/25		0
06/30/25	151039	0	06/30/25	94728	0	07/31/25		0	08/31/25		0	10/01/25		0	11/01/25		0
07/01/25	151039	0	07/01/25	94728	0	08/01/25		0	09/01/25		0	10/02/25		0	11/02/25		0
07/02/25	151039	0	07/02/25	94879	151	08/02/25		0	09/02/25		0	10/03/25		0	11/03/25		0
07/03/25	151039	0	07/03/25	94980	101	08/03/25		0	09/03/25		0	10/04/25		0	11/04/25		0
07/04/25	151039	0	07/04/25	95111	131	08/04/25		0	09/04/25		0	10/05/25		0	11/05/25		0
07/05/25	151039	0	07/05/25	95401	290	08/05/25		0	09/05/25		0	10/06/25		0	11/06/25		0
07/06/25	151039	0	07/06/25	95699	298	08/06/25		0	09/06/25		0	10/07/25		0	11/07/25		0
07/07/25	151039	0	07/07/25	95779	80	08/07/25		0	09/07/25		0	10/08/25		0	11/08/25		0
07/08/25	151039	0	07/08/25	95823	44	08/08/25		0	09/08/25		0	10/09/25		0	11/09/25		0
07/09/25	151039	0	07/09/25	95965	142	08/09/25		0	09/09/25		0	10/10/25		0	11/10/25		0
07/10/25	151039	0	07/10/25	95992	27	08/10/25		0	09/10/25		0	10/11/25		0	11/11/25		0
07/11/25	151039	0	07/11/25	96012	20	08/11/25		0	09/11/25		0	10/12/25		0	11/12/25		0
07/12/25		0	07/12/25	96053	41	08/12/25		0	09/12/25		0	10/13/25		0	11/13/25		0
07/13/25	151039	0	07/13/25	96127	74	08/13/25		0	09/13/25		0	10/14/25		0	11/14/25		0
07/14/25	151039	0	07/14/25	96175	48	08/14/25		0	09/14/25		0	10/15/25		0			0
07/15/25	151039	0	07/15/25	96195	20	08/15/25		0	09/15/25		0	10/16/25		0			0
07/16/25	151039	0	07/16/25	96227	32	08/16/25		0	09/16/25		0	10/17/25		0			0
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07/19/25		0	07/19/25		0	08/19/25		0	09/19/25		0	10/20/25		0			0
07/20/25		0	07/20/25		0	08/20/25		0	09/20/25		0	10/21/25		0			0

		SYS 3	RECEIVED	SYS 5
DATE	SYS 2	542.3	By Brandon Olvera at	
0-19	- In	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
•	but			
-20	in 07483	05089	62880	(2) TO SCO
	aut 16695	00084	230884	151039
-21	in 07521	05234	62880	94182
1	out 16715	00084	231116	151039
-22	in 07560	05379	62880	94292
	out 16780	00084	231374	151039
23	in 168455	05473	62880	94292
,	out 57578 d	00084	231662	151039
24	in 17041	05649	7 232056	94447
	at 1620	84	5628802	15/039
25	in 765%	5737	" OBCOUNT V	94447
	out 17158	20084	232319	151039
26	in 74945	₹792	121850	151031
	art 173042	84	732 770	94447
27	121-	5863	9.12060	151039
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	out 7860	000900	233755	94879
3	in 17960	05991	62880	15103
. V.	in 17860 out 7965	6009 19	2339.50	94980
4	in 17846	5994	67890	151039
	out	00093		95111
5	in			151039
	out	000 93		9540
1. 1	in			12 701
125		00093		151039
	out	4004		95699

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VIE	SYS 2	SYS 3	By Brandon Olvera	SYS 5
7-7-85 7-8-25 7-9-25		1		15/039
	1			95779
7-8-25				95823
			1 Part N	151 039
7-9-25			1 to make	95965
			Harry Market	151039
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7/11/25	11 · · · · · · · · · · · · · · · · · ·			96012
11.10/	12161	0.000	h 1 27	151039
1/12/25	1001	06022		96053
1101-	7001	00103	233755	151039
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# RECEIVED

By Brandon Olvera at 12:00 pm, Jul 29, 2025

DATE	METER #2	METER# 3	METER#4	METER #5
01/20	IN3821-31	IN 58-38	IN 132290.4	IN 102035.9
	OUT 1825-70 IN 1835-84	OUT 560.40	OUT 42945-60	OUT 5832/ 0 IN 103241-9
9/21.	1635-84	IN 58-28	IN 132587-2	L
	оит 3846-07	OUT-360-40	out 62744.8	от 59221-1
9/22	IN 1844-01	IN 58-54	IN 132881-9	IN 104123-5
	our 3871-98 IN 1849-98	OUTS (04-51 IN 59.75	ur 102944-10 IN 133076-4	OUT 59853-0 IN 104761-8
9/23	1849-98	1854.75	133016-4	IN 104761-8
10-	OUT 3 883-18	OUT 569-99	OUT 62945.6	OUT L/0311-9
Olal	in	IN	IN	IN .
9/24	OUT NO Read	OUT	W have All	day.
0.1	IN Egnt See #	in 59-34	IN 133713-1	IN 1/05821-8
9/25	our 3921-90	оит527-94	OUT 62945.6	он 0/073-1
9101	m Cart See	100.00 · 101	m 130184.2	IN 1000451-1
9/ale	out 0939-47 IN Cout see	оит 577-94	OUT 62944.6 IN 134373-8	оит <u>101514-1</u> по 107082-3-
01-0	in Court see	"040-76	IN 134373-8	107082-3
9/27	OUT 3958~ 3	оит 586-23	он 629446	оит 61961-
86/10	IN .	1N 045.74	IN .	IN .
100	OUT	out 586.23	оит	OUT
alina	IN .	M 000-84	IN .	IN .
110	оит	OUT	OUT	оит
9130	IN	in oleb-84	IN	N .
110	оит	OUT	OUT	OUT
alla)	IN	1N 060-92	IN T	IN .
9/3			V	
	OUT	OUT	Ουτ	OUT
10/1	IN 1895 8.4	in 001-92	IN 1360024-9	IN 11/9 255-7
	OUT 4011-78	он 402-34	OUT 6 2945-4	OUT LAL 29-0
10/2	IN 19000-48	1NOW (-72)	IN 136 9777-1	the state of the s
	4633-67	1000 200	42945.4	1 10 00 1

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DATE	A. C.	- X A	*	
4.	METER #2	METER#3	METER#4	METER #5
11/3	IN 1900-57	IN 061-92	IN 62945-6	IN 110634-2
	OUT 4057-20 IN 1914-10	1N 061 193	OUT 137449-60 IN 137451-9	ONTLOH 157-9 IN 1 101034-2
10/4				IN 1 10 10 34 - 2
1	OUT 4074-79	out 602 -36	OUT (02945-Le	our do4   57-91
10/5	"Cart See	IN OUI -30	in 12945-6	m 110634-2
	OUT 4102 102	OUT 1011-7(0	UT 137914-5 IN 136278-1	ол <u>44157-9</u> IN 1060 34-2
10/6.	early See	in 6001-741	1 36 2 18-1	
3	our 4170-85	OUT 0107 -31	out 62 90/4-1	
10/7	in can't see	in 600a-74	IN 138 279 1	IN 10034-2
101 (	out 4170-55	OUT 419. 21	он 42945-4	ол 44157-9
11/2	IN 1979-02	IN 5000-74	IN 138545-7	IN 110434-2
10/8	out 4221-13	out 419-31	our 42948-4	оит 4415-9
10/9	IN COUNT SER	m 042.74	IN 138545-7	
101	он 4291-19	OUT 1019 - 31	OUT (029LISTE	OUT 6415779
) 0	in Cart Sou	N 009-53	N/33979-5	110135-5
10/10	оит 4355-42	оит 428-83	ण ७३१५५	
1 , 1	in curt sa	1N D(02 - 22	IN 139 145-5	1 44157-9
10/11	our 4433-74	OUT 428-83	our le 29.45-4	6 on 110022-8
	IN .	N.	IN .	IN.
	оит .	OUT	out	оит
0-29	IN 02341	IN 67.5-9	14449	IN 110635
	our 04964-38	out 0712-08	оит 62945-6	out 64-15 7-9
0-30	™ 2342	N 67-95	IN 145273	m 110632-9
	оит 4970	OUT 712-09	OUT 62945	our 64157
1-29	IN 2344-3392	IN 67-95	IN 146577	IN 5-00 635 - 0
34	out 4976-62	out 712-20	OUT 62945	OUT 64159
ign.	IN 2353 -82	IN 67-95	IN 147031	10/18
/1	5001-46	712-80	62945-	8 64157

			AAETED #/ 4	
DATE	METER #2	METER#3	METER#4	METER #5
11/2	IN 2360 -20	IN 68 - 45	IN 147732-4	IN 110635 - 8
170	OUT 5030 - 58 IN 2376-28	OUT 714-55 IN 69-33	OUT 62945-60	OUT 64157-9
11/2	IN 2376-28	IN 69-33		110 638 - 8
"13	OUT 50 62-29	OUT 718-62	out 62945-B	OUT 64157-9
11/4	N2382-30	IN 69 -55	IN 148897-9	IN 110635-8
1 / /	OUT 5085-42 IN CANT SEE	out 727 -84	ur 62945-8	он 64157 -9
11/5	IN CAN'T SEE	in 69-55	150537-8	110635-8
10	OUT 5111-81	out 727-84	он 62945-6	ой 64157-9
11/	in CANTSER	69,69	15/226-8	110635-9
/6	OUT \$ 132-15	ουτ	ой 62945-6	ой 64157-9
11/2	IN SANG 5-00	in 69.53	IN 151517-6	IN 110635-8
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From: <u>Ritzen, Brenda</u>

To: "robert@enukiinvestments.com"

Cc: <u>Boyd, Robert; Massie, Cassandra S; Olvera, Brandon; Connor, James F</u>

Subject: FW: 3660 Tanglewood Trail/RV park

Date: Wednesday, February 7, 2024 12:59:00 PM

Attachments: <u>image001.png</u>

3660 Tanglewood.zip

Re: Rebecca Creek Campgrounds

14.23 acres, 3660 Tanglewood Trail

On-Site Sewage Facility (OSSF) Permits 113609 & 113610

### Mr. Sutcliffe:

Our office conducted a site visit yesterday at the referenced property. For your situational awareness I have attached pictures representative of our visit. Backfill materials have been washed away from the drip system leaving the system exposed and no longer compliant with OSSF Regulations.

Also, it has come to our attention that the daily water meter readings as required by the Special Permit Conditions for Permits 113611 & 113612 (see attached) have not been submitted. Please submit the required daily meter readings from mid-February 2023 to present.

## Thank you,



## **Brenda Ritzen**

Environmental Health Coordinator 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS00007722 830-608-2090 www.cceo.org

**From:** Connor,James F <connoj@co.comal.tx.us> **Sent:** Wednesday, February 7, 2024 9:18 AM

**To:** Ritzen, Brenda <rabbjr@co.comal.tx.us>

Massie, Cassandra S < massic@co.comal.tx.us>

**Subject:** 3660 Tanglewood Trail/RV park

## Brenda,

These are the photos I took on 2/6/24 showing erosion damage/exposed drip tubing on

	EADING FOR REBE	ECCA CREEK	5/8/24	IN:00050103	OUT:00082527
CAMPGR			5/9/24	IN:00050103	OUT:00082527
	O 5/17/24		5/10/24	IN:00050348	OUT: 00082527
SYSTEM 5	j		5/11/24	IN:00050541	OUT:00082527
4/16/24	IN:00048324	OUT:00079440	5/12/24	IN:00050541	OUT:00082527
4/17/24	IN:00048474	OUT:00079695	5/13/24	IN:00050541	OUT:00083315
4/18/24	IN:00048474	OUT:00079696	5/14/24	IN:00050541	OUT:00083315
4/19/24	IN:00048474	OUT:00079696	5/15/24	IN:00050541	OUT:00083315
4/20/24	IN:00048619	OUT:00079942	5/16/24	IN:00050679	OUT:00083578
4/21/24	IN:00048780	OUT:00080222	5/17/24	IN:00050679	OUT:00083578
4/22/24	IN:00048780	OUT:00080222	. ,		
4/23/24	IN:00048780	OUT:00080222			
4/24/24	IN:00048780	OUT:00080222			
4/25/24	IN:00048950	OUT:00080501			
4/26/24	IN:00048950	OUT:00080501			
4/27/224	IN:000490841	OUT:00080721			
4/28/24	IN:00049190	OUT:00080900			
4/29/24	IN:00049320	OUT:00081185			
4/30/24	IN:00049383	OUT:00081251			
5/1/24	IN:00049383	OUT:00081251			
5/2/24	IN:00049534	OUT:00081524			
5/3/24	IN:00049681	OUT:00081754			
5/4/24	IN:00049803	OUT:00081977			
5/5/24	IN:00049803	OUT:00081977			
5/6/24	IN:00049803	OUT:00081977			
5/7/24	IN:00049803	OUT:00081977			

## Meter readings for Rebecca Creek Campgrounds

## System 5

3/12/24	IN:00046779	Out:00076749	
3/13/24	IN: 0046779	OUT::0076749	
3/14/24	IN:0046779	OUT:0076749	
3/15/24	IN:0046779	OUT:0076749	
3/16/24	IN:0046779	OUT0076749	
3/17/24	IN:0046809	OUT:0076792	
3/18/24	IN:0046845	OUT:0076863	
3/19/24	IN:0046891	OUT:0076942	
3/20/24	IN:0046891	OUT:0076942	
3/21/24	IN:0046891	OUT:0076942	
3/22/24	IN:0046891	OUT:00076942	
3/23/24	IN:0046923	OUT:0077019	
3/24/24	IN:0046980	OUT:0077103	
3/25/24	IN:0047038	OUT:0077189	
3/26/24	IN:00047079	OUT:00077275	
3/27/24	IN:00047079	OUT:00077275	
3/28/24	IN:00047079	OUT:00077275	
3/29/24	IN:0047147	OUT:0077362	
3/30/24	IN:0047256	OUT:0077438	
3/31/24	IN:0047379	OUT:0077608	
4/1/24	IN:0047405	OUT:0077782	

4/2/24	IN:0047465	OUT:0077863	
4/3/24	IN:0047503	OUT:0078006	
4/4/24	IN:0047584	OUT:0078151	
4/5/24	IN:0047632	OUT:0078305	
4/6/24	IN:0047717	OUT:00078151	
4/7/24	IN:00047881	OUT:0078499	
4/8/24	IN:0047976	OUT:0078790	
4/9/24	IN:0048041	OUT:0078861	
4/10/24	IN:0048108	OUT:0079102	
4/11/24	IN:0048179	OUT:0079215	
4/12/24	IN:0048206	OUT:0079297	
4/13/24	IN:0048265	OUT:0079351	
4/14/24	IN:0048265	OUT:0079351	
4/15/24	IN:0048324	OUT:00079440	

## Permit 113611 System 4

## Permit 113612 System 5

Date	In	Out		In	Out	
2/8/24	44123	71899		62936	95662	
2/9/24	44154	71963	64	62936	95788	126
2/10/24	44219	72091	128	62936	95862	74
2/11/24	44296	72283	192	62936	95980	118
2/12/24	44342	72305	22	62936	96071	91
2/13/24	44380	72355	50	62936	96173	102
2/14/24	44411	72393	38	62936	92684	111
2/15/24	44459	72437	44	62936	96377	93
2/16/24	44497	72498	61	62936	96452	75
2/17/24	44571	72571	73	62936	96561	109
2/18/24	44662	72689	118	62936	96670	109
2/19/24	44705	72778	89	62936	96779	109
2/20/24	44762	72884	106	62936	96868	89
2/21/24	44809	72972	88	62936	96987	119
2/22/24	44873	73101	129	62936	97054	67
2/23/24	44941	73198	97	62936	97162	108
2/24/24	45520	73285	87	62936	97240	78
2/25/24	45567	73397	112	62936	97351	111

2/26/24	45584	73485	88	62936	97428	77
2/27/24	45603	73569	84	62936	97502	74
2/28/24	45647	73670	101	62936	97589	87
2/29/24	45676	73783	113	62936	97666	77
3/1/24	45693	73859	76	62936	97781	115
3/2/24	45758	73986	127	62936	97843	62
3/3/24	45799	74097	111	62936	97906	63
3/4/24	45826	74186	89	62936	97989	83
3/5/24	45854	74269	83	62936	98070	81
3/6/24	45901	74293	24	62936	98121	51
3/7/24	45946	74370	77	62936	98199	78
3/8/24	45962	74496	126	62936	98254	55
3/9/24	45997	74624	128	62936	98341	87
3/10/24	46076	74799	175	62936	98407	66
3/11/24	46082	74986	187	62936	98496	89
3/12/24	46091	75290	304	62936	98535	39
3/13/24	46101	75490	200	62936	98624	89

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

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

**Inspector Notes:** 

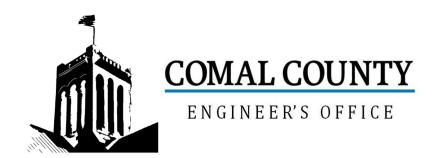
2/8/23 JC alarms functional, covered

N-	December 41	A mar	Citotiana	Net	1 at 1	2 m d 1	7 mal 1
No.	Description SEPTIC TANK Tank(s) Clearly	Answer	Citations	Notes	1st Insp.	2nd Insp.	3rd Insp.
8	Marked SEPTIC TANK IsingleTank, 2Compartments Provided withBaffle SEPTIC TANK Inlet Flowline Greater than3" and "T" Provided on Inlet and OutletSEPTIC TANK Septic Tank(s) MeetMinimum Requirements		285.32(b)(1) (E)285.91(2)285.32(b)(1) (F)285.32(b)(1)(E) (iii)285.32(b)(1)(E)(ii) (I)285.32(b)(1)(E) (i)285.32(b)(1)(E) (i)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1)(C) (ii)285.32(b)(1) (B)285.32(b)(1) (A)285.32(b)(1)(E)(iv)				
1	ALL TANKS Installed on 4" Sand Cushion/ Proper Backfill Used		285.32(b)(1)(F) 285.32(b)(1)(G) 285.34(b)				
	SEPTIC TANK Inspection / Clean Out Port & Risers Provided on Tanks Buried Greater than 12" Sealed and Capped		285.38(d)				
	SEPTIC TANK Secondary restraint system providedSEPTIC TANK Riser permanently fastened to lid or cast into tank SEPTIC TANK Riser cap protected against unauthorized intrusions		285.38(d) 285.38(e)				
	SEPTIC TANK Tank Volume Installed						
12							
	PUMP TANK Volume Installed						
1	AEROBIC TREATMENT UNIT Size Installed						
14							
	AEROBIC TREATMENT UNIT Manufacturer AEROBIC TREATMENT UNIT Model Number						
15	DISPOSAL SYSTEM Absorptive		285.33(a)(4) 285.33(a)(1) 285.33(a)(2) 285.33(a)(3)				
17	DISPOSAL SYSTEM Leaching Chamber		285.33(a)(1) 285.33(a)(3) 285.33(a)(4) 285.33(a)(2)				
18	DISPOSAL SYSTEM Evapo- transpirative		285.33(a)(3) 285.33(a)(4) 285.33(a)(1) 285.33(a)(2)				
18			203.33(a)(2)				

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

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

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



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

Permit Number: 113612

Issued This Date: 05/06/2022

This permit is hereby given to: Rebecca Creek Campground

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

3660 TANGLEWOOD TRL SPRING BRANCH, TX 78070

Subdivision: Charles Murhart Survey Abs No. 404

Unit: 0
Lot: 0
Block: 0

Acreage: 14.2300

## APPROVED MINIMUM SIZES AS PER ATTACHED DESIGN

Type of System: Aerobic

Surface Irrigation / 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.

\*\*\*\*As a condition of this permit submittal a meter must be installed on the outflow line of the pump tank. The readings from this meter must be recorded on a daily basis and submitted to the Comal County Environmental Health Department once a month for 12 months from the date the License to Operate is issued. If at any time the daily meter reading exceeds the permitted flow rate this permit will be void and a new permit must be obtained.\*\*\*\*

OSSF DEVELOPMENT APPLICATION CHECKLIST	Staff will complete shaded
	items Date Received Initia
	113412 Permit Number
Instructions:	
Place a check mark next to all items that apply. For items that do not apply, place "Na Application Checklist <u>must</u> accompany the completed application.	/A". This OSSF Development
OSSF Permit	
Completed Application for Permit for Authorization to Construct an On-Operate	Site Sewage Facility and License to
Site/Soil Evaluation Completed by a Certified Site Evaluator or a Profes	ssional Engineer
Planning Materials of the OSSF as Required by the TCEQ Rules for OS shall consist of a scaled design and all system specifications.	SSF Chapter 285. Planning Materials
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 constitutes a completed OSSF Development Application.	Application and that this application
Signature of Applicant	11/10/207 1 Date
	MPLETEAPPLICATION ms Circled, Application Refused)

## **REVISED**

DMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \*

Sylvm#5 10:24 am, Dec 16, 2022 APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Date 11/4/21		Permit #	
Owner Name LeDecca Creek Camparounds  Mailing Address 3660 Tavale mod Trail  City, State, Zip Song Branch Tx 78070  Phone # (930) 885-4035  Email Yebecca Creek Ground @ gmail.com	City, State, Zip Phone # Email	Spring Brand (830) 440 Same as a	ch. TX 78070 e-6048 office
All correspondence should be sent to: X Owner Age		Method: X	
Subdivision Name N/A	Unit	Lot	Block
Acreage/Legal 14.23 a.c. Charles Murhart Su	arvey abs	N6.404	- 10.30
Street Name/Address 3660 Tangle wood Tail	City Sp	ring Branch	Zip 190 18
Type of Development:			
Single Family Residential			
Type of Construction (House, Mobile, RV, Etc.)			
Number of Bedrooms			
Indicate Sq Ft of Living Area		*	
Non-Single Family Residential			
(Planning materials must show adequate land area for doubling the re	equired land needed	for treatment units and	disposal area)
Type of Facility			
Offices, Factories, Churches, Schools, Parks, Etc Indicate N		ants	
Restaurants, Lounges, Theaters - Indicate Number of Seats			
Hotel, Motel, Hospital, Nursing Home - Indicate Number of Be	And the second s		
Travel Trailer/RV Parks - Indicate Number of Spaces	WSHE	\$	May (Dromerica malloure according to the product Amount Scholl (Deployable)
Miscellaneous			
Estimated Cost of Construction: \$ (Structu	re Only) N/A		
Is any portion of the proposed OSSF located in the United State	s Army Corps of i	Engineers (USACE) fi	lowage easement?
Yes No (If yes, owner must provide approval from USACE for	proposed OSSF impro	vements within the USACI	E flowage easement)
Source of Water Public Private Well	der eine der State der Anthonis der State		
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 facts. I certify that I am the property owner or I possess the appropriate property.	not contain any fals land rights necessa	se information and does ry to make the permitte	not conceal any material d improvements on said
- Authorization is hereby given to the permitting authority and designated	agents to enter upo	n the above described p	property for the purpose of
site/soil evaluation and inspection of private sewage facilities  - I understand that a permit of authorization to construct will not be issued	until the Floodplain	Administrator has perfe	ormed the reviews required
by the Comal County Floor Damage Prevention Order.			
- I affirmatively consent to the online posting/public release of my e-mail a			оп, ав аррисавіе.
Signature of Owner	/2 - 14 Date	-99	Page 1 of 2
114			rayo i ui z

# **REVISED**10:23 am, Dec 20, 2022

# COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \* APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site Evaluation as Required Completed By KAELEIGH CRANDALL
System Description AEROBIC WITH DRIP IRRIGATION
Size of Septic System Required Based on Planning Materials & Soil Evaluation
Tank Size(s) (Gallons)
Gallons Per Day (As Per TCEQ Table III)
(Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.)
Is the property located over the Edwards Recharge Zone?   Yes   No  (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.))
(If yes, the planning materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any materials must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a Registered Sanitarian (18.5.) or 1 to estimate any must be completed by a registered by the completed by the completed by the completed by a registered by the completed by the completed by the completed
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 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 □ No
Is there an existing TCEQ approval CZP for the property?   Yes   No
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP?   Yes   No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A 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:

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

Pate

Page 2 of 2





202106058594 11/10/2021 03:22:31 PM 1/1

### AFFIDAVIT TO THE PUBLIC

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.

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

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): Manza The property is owned by (insert owner's full name): CRPK Camparounds 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 Owner(s) signature(s) SWORN TO AND SUBSCRIBED BEFORE ME ON THIS DAY OF Notary Public, State of Texas J 0 Notary's Printed Name: My Commission Expires: JOHNNY TRIGIANO Notary Public, State of Texas Comm. Expires 03-18-2023

Motary ID 131935210

Filed and Recorded
Official Public Records
Bobbie Koepp, County Clerk
Comal County, Texas
11/10/2021 (3:22:31 PM
CHRISTY 1 Page(s)
202106058594

Bobbie Koepp

Permit/License Number :
Regulatory Authority : Comal Co

JT Environmental Services 13735 Greenwood rd Atascosa Tx 78002 Cell (210) 347-8465

Customer: Rebecca Creek Campgrounds

Site address: <u>3660 Tanglewood Trl</u> (System #5)

City: SpringBranch Zip: 78070

Phone: 830-885-4035

Email: rebeccacreekcampgrounds@gmail.com

## **Septic System Service Agreement**

I. General: This work for Hire Agreement (hereinafter referred to as "agreement") is entered into and between <u>Rebecca Creek Campgrounds</u> (hereinafter referred to as "Customer") and JT Environmental Service. By this agreement, JT Environmental Service and it's employees (hereinafter inclusively referred to as "Contractor") agree to render services at the site address stated below, and described herein, and the Customer agrees to fulfill his/her/their responsibilities, as described herein. The designed flow rate for this system is a maximum of <u>500</u> gallons per day.

- II. Effective dates: This Agreement commences on November 2021 and ends on November 2023. If this is an initial agreement (New Installation), the Customer will notify the Contractor within two(2) business days of the systems first use to establish the date of commencement. If no notification is received by the Contractor within ninety (90) days after completion of the installation or where county authority mandates, the date of commencement will be the date the "License to Operate" (Notice of Approval) was issued by the permitting authority. This agreement may or may not commence at the same time as any warranty period of installed equipment, but in no case shall it extend the specified warranty.
- III. Renewal: This agreement shall automatically renew each at the same terms, conditions, and costs unless either party gives notice of termination a minimum of thirty (30) days prior to the end of the first agreement period. See section IV.
- IV. Termination of agreement: This agreement may be terminated by either party with thirty (30) days written notice for any reason, including for example, substantial failure to perform in accordance with it's terms, without fault or liability of the terminating party. If this agreement is so terminated, Contractor will be paid at the rate of \$75.00 per hour for any work performed and for which compensation has not been received. After the deduction of any remaining monies from Prepayment for services will be refunded to Customer within thirty(30) days. Either party terminating this agreement for any reason, including non-renewal, shall notify in writing the equipment manufacturer and the appropriate regulatory authority a minimum of thirty (30) days prior to the date of such termination. Non payment of any kind shall be considered breach of contract and a termination.

### V. Services: Contractor Will:

- a. Inspect and perform routine upkeep on the On-Site Sewage Facility (hereinafter referred to as OSSF) as recommended by the treatment systems manufacturer, and required by state and/or local regulation ,for a total of three(3) visits per year. (Residential)
- **b.** Provide written record of each visit to the site by means of an inspection tag attached or contained in the control panel.
- c. Repair of Replace, if Contractor has necessary materials on site, any component of the OSSF to be failing or inoperative during the course of a routine monitoring visit. If such services are not covered by warranty, and services cost are \$100.00 or less. Customer hereby authorizes Contractor to perform the service and invoice Customer for said service. When service cost are greater than \$100.00, or if the contractor does not have the necessary supplies on site, the customer will be notified of required services and associated costs. Customer must notify Contractor of arrangements to affect repair of

system within two(2) days of said notification.

- **d.** Provide sample collection and laboratory testing of TSS and BOD on a yearly basis (commercial systems only, as aplicable)
- e. Forward copies of this agreement and all reports to the regulatory agency and the Customer.
- **f.** Visit the site in response to Customers request for unscheduled services within forty-eight (48) hours of the date of notification (weekends and holidays excluded) of said request. Unless otherwise covered by warranty, costs for such unscheduled responses will be billed to the customer.
- VI. <u>Disinfection</u>: The Disinfection system will be maintained by the Customer. A cost estimate can be provided if the customer can not perform this function. Customer initial <u>AC</u>.
- VII. Electronic Monitoring is not included in this agreement.
- **VIII.** <u>Performance of agreement:</u> Commencement of performance under this agreement is contingent on the following conditions:
  - **a.** If this is a 1. Contractor receipt of fully executed original copy or facsimile of this agreement and all documentation requested by Contractor.
    - 2. Contractors receipt of payment of the Wastewater-monitoring fee in accordance with the terms as described in section XIV of this agreement.
  - **b**. If the above conditions are not met, Contractor is not obligated to perform any portion of this agreement.
- IX. Customers Responsibilities: The Customer is responsible for each and all of the following:
  - a. Provide all necessary yard and lawn maintenance and removal of obstacles, including but not limited to: Dogs and other animals, vehicles, trees, brush, trash, or debris as needed to allow the OSSF to function properly, and to allow Contractor safe and easy access to all parts of the OSSF.
  - b. Protect equipment from physical damage including but not limited to damaged caused by insects
  - c. Maintain a current license to operate and abide by the conditions and limitations of that license and all requirements for an OSSF from the State and/or local regulatory agency, whichever are more stringent, as well as proprietary systems manufacturer recommendations.
  - **d.** Notify Contractor immediately of any and all alarms, and/or any and all problems with. including failure of the OSSF.
  - **e.** Provide upon request by Contractor, water usage records for evaluation by Contractor as to the performance of the OSSF.
  - f. Allow samples at both the inlet and outlet of the OSSF to be obtained by Contractor for the purpose of evaluation of the OSSF. If these samples are taken to a laboratory for testing, with the exception of the service provided under section V, subsection d, above. Customer agrees to pay contractor for sample collection and transportation, portal to portal, at a rate of \$35.00 per hour, plus associated fees for laboratory testing.
  - g. Prevent the backwash or flushing of water treatment of conditioning equipment from entering the OSSF.
  - **h.** Prevent condensation from air conditioning, or refrigeration units, or ice maker drains, from hydraulically overloading the aerobic treatment units. Drain lines may discharge into the surface application pump tank if approved by the system designer.
  - i. Provide pumping and cleaning of tanks and treatment units, when as recommended by Contractor, at Customers expense.
  - j. Maintain site drainage to prevent adverse effects to the OSSF.
  - k. Pay promptly and fully, all Contractors fees, Bills, or invoices as described herein.
- X. Access by Contractor: Contractor is hereby granted and easement to the OSSF for the purpose of performing services described herein. Contractor may enter during Contractors normal work hours and /or any reasonable hour without prior notice to Customer to perform services and/or repairs described herein. Contractor shall have access to the OSSF electrical and physical components.

Tanks and treatment units shall be accessible by means of man ways, or risers and removable covers, for the purpose of evaluation as required by state and/or local rules or proprietary system manufacturer. If not an initial agreement (new installation) and the access is not in place or provided by Customer, the cost for the labor of excavation, and possible other labor and material costs will be required. These costs shall be billed to the Customer as an additional service at a rate of \$75.00 per hour, plus materials at list price. Excavated soil shall be replaced as best as can at the time of service, and under no circumstances is the Contractor responsible for damages to sod, grass, roots, landscaping, or any unmarked underground items (telephone, television, electrical, cable, water, gas, etc) or for the uneven settling of soil.

- XI. Limit of Liability: Contractor shall not be held liable for any incidental, consequential, special damages, economic loss due to expense, loss of profits or income, loss of use to Customer, whether in contract tort of any other theory. In no event shall Contractor be liable in an amount exceeding the total fee for services amount paid by Customer under this agreement.
- XII. Severability: If any provision of the "Proposal and Contract" shall be held to be invalid or unenforceable for any reason, the remaining provisions shall continue to be valid and enforceable. If a court finds that any provision of the "agreement" is invalid or un-enforceable, but that by limiting such provisions is would become valid and enforceable, then such provisions shall be deemed to be written, constructed and enforces as so limited.

XIII. Fee for services: The cost for this agreement is \$465.00 (Four hundred Sixty Five). This fee only involves the regularly scheduled required inspection service described herein section V. Services. The Fee does not include any equipment, material, labor necessary for nonwarranty repairs, unscheduled inspections, or Customer requested visits to site.

### Price Schedule for common (not covered) services:

Customer requested site visits ( Call Outs )

\$100.00

Site evaluation for existing OSSF (N/A if a service contract is initiated) Samples necessary for Regulatory authority compliance, not required by the STATE For all other services/repairs, the contractor will provide a cost estimate to the customer.

- XIV. Payment: Full amount due-upon signature (required of new customers). Payment of invoices for any other service or repair provided by Contractor are due upon receipt of invoice.
- XV. Application or transfer of payment: The fees paid for this agreement may transfer to the subsequent property owner; however this agreement is not transferable. Customer will advise subsequent property owner of the state requirement that they sign a replacement agreement authorizing Contractor to perform the herein described services, and accepting the Customers responsibilities. This replacement agreement must be signed and received in the Contractors office within ten (10) days of the date of transfer of property ownership. Contractor will apply all funds received from Customer, first to any past due obligations arising form this agreement including fees or charges for service or repairs. Any remaining monies will be applied to the funding of the replacement agreement. The consumption of funds in this manner may result in a reduction in the termination date of effective coverage per this agreement. See section IV.

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

MP#0002213

Customer Signature

# **OSSF DESIGN**

for Rebecca Creek Campgrounds

> Design as required by 30 TAC Chapter 285

MANGOLD ENGINEERING COMPANY 5596 CR 5710

**DEVINE, TEXAS 78016** 

PHONE: (830) 931-0400 PHONE: (210) 213-3912 FIRM NO. F-5549



## **Cypress Cove Water Supply Corporation**

180 Tanglewood Trail Ct., Spring Branch, TX 78070

Email – <a href="mailto:ccwsc@gvtc.com">ccwsc@gvtc.com</a>

Office – 830-885-2440 / <a href="mailto:www.cypresscovewsc.com">www.cypresscovewsc.com</a>

April 6, 2022

Comal County Engineer's Office (CCEO)
Subject: Notice of Septic placement Permission

Regarding the Rebecca Creek Campgrounds at 3660 Tanglewood Trail Spring Branch, TX 78070

To Whom It May Concern at Comal County Engineers Office,

The Rebecca Creek Campgrounds has permission to place its septic lines across any of Cypress Cove Water Supply's (CCWSC) easements as necessary.

Sincerely,

Angelyn Price

Administrative Office Manager

## **SITE EVALUATION AND CALCULATIONS**

Site Evaluation:

Soil Texture: Clay loam Blocky

Soil Depth: 18" minimum

**Restrictive Horizon:** At 18" min. from surface **Groundwater:** None encountered

**Topography:** More than 2% slope on drainfield area

**Determination:** Site was determined to have a Class III soil. Due to the park layout and

rock horizon an aerobic treatment unit followed by drip irrigation shall be

installed.

### Calculations:

System # 5; the calculated flow based on water records is 195 gpd. The system shall be over designed to match the TCEQ designated flow of 280 gpd. Reference design 100-8497 for calculations and layout. Water saving devices are used throughout.

Q = 7 RV (40 gpd / RV) = 280 gpd

An Aeris Aerobic 840 aerobic treatment system was installed. It has built in pretreatment tank and pump tank. The aerobic unit shall be a drip irrigation system. (Reference the System Layout) Chlorinator is required for water entering pump tank. Liquid type chlorination shall be used.

Ra = 0.20 gal. / sq. ft. / day, (For a Class III soil)

A = Q / Ra, A = (280 gal. / day) / (0.20 gal. / sq. ft. / day) = 1400 sq. ft.

calculations continued on next page....

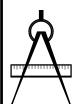
Owner Rebecca Creek Campgrounds

**Drawn by:** Kaeleigh R. Crandall

Location '

Comal County, Texas

**Drawing No.** 100-8495F



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 2/13/23

Scale: None

Sheet 1 of 5



REVISED

## Calculations:

Emitter line shall be used which has emitters spaced at 2 foot intervals, and adjacent emitter lines shall also be spaced at 2 feet on center.

Required line length = A / 2 = (1400 sq. ft. / 2 sq. ft. per foot) = 700 feet 700' of drip line shall be installed as shown on the System Layout

A 1" SCH 40 PVC supply line shall be used from the ATU systems pump tank to the drainfield. A 1" SCH 40 PVC return line from the drainfield back to the pump tank shall be provided. The system shall be set up in accordance with NuWater specifications. (Contact manufacturer for complete specifications and reference the System Layout and details)

## NOTES FOR INSTALLER (if applicable):

Do not connect water softener back-wash to septic system.

The TCEQ allows washing machine water to be discharged into a separate gray water system unless the water contains human waste. Running this water out separate from the septic system can prolong the life of the system.

A Netafim 1" "Super Filter" 200 mesh/55 micron, shall be installed in a riser in the outlet line of the pump tank compartment.

Connect the 1" "Super Filter" and assemble in accordance with manufacturers specifications..

Contact NuWater dealer for complete specifications. All required specifications may not be contained in this design.

**Owner** 

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

**Drawing No.** 100-8495E



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 12/5/22

Scale: None

Sheet 2 of 5



**REVISED** 9:01 am, Dec 12, 2022

The design pressure at the emitters is as specified by the manufacturer.

The total length of supply and return pipe is as shown on the System Layout

Diameter of supply and return lines is as shown on the System Layout.

NOTES TO OWNER OF SYSTEM:
MAINTENANCE AND MANAGEMENT PRACTICES (if applicable):

An OSSF should not be treated as if it were a normal city sewer system.

The excessive use of in-sink garbage grinders and grease discarding should be avoided.

Do not use the toilet to dispose of cleaning tissues, cigarette butts, or other trash.

Septic tanks shall be cleaned before sludge accumulates to a point where it approaches the bottom of the outlet device, to prevent solids from exiting the tank with the liquid.

Septic tanks should be cleaned every two-to-three years to prevent excessive sludge buildup.

Do not build driveways, storage buildings, or other structures over the treatment works or its disposal field.

Chemical additives or the so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may be harmful to the tank's operation.

continued next page......

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

**Drawing No.** 100-849E



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 12/5/22

Scale: None

Sheet 3 of 5



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Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.

It is not advisable to allow water softener back flush to enter into any portion of the OSSF.

Except for Aerobic systems, the liquid from the OSSF is still heavily laden with bacteria. Contact with this liquid should be avoided, if it surfaces.

WATER CONSERVATION MEASURES (if applicable):

Showers usually use less water than baths. Install a water saving shower head that uses less than 2 1/2 gallons per minute and saves both water and energy.

If you take a tub bath, reduce the level of water in the tub from the level to which you customarily fill it.

Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as possible.

Check toilets for leaks that may not be apparent. Add a few drops of food coloring to the tank. Do not flush. If the color appears in the bowl within a few minutes, the toilet fill or ball-cock valve needs to be adjusted to prevent water from overflowing the stand pipe, or the flapper at the bottom of the toilet tank needs to be replaced.

Reduce the amount of water used for flushing the toilet by installing one of the following: a new toilet (1.6 gallon); a toilet tank dam; or filling and capping one-quart plastic bottles with water (usually one is all that will fit in smaller toilet tanks) and lowering them into the tank of the existing 3.5 gallon or larger toilet. Do not use bricks since they may crumble and cause damage to the fixture.

continued next page......

Owner

Rebecca Creek Camprounds

**Drawn by:** Kaeleigh R. Crandall

Location

See sheet #1

100-8495E Drawing No.



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Scale: None

Date:

Sheet 4 of 5

12/5/22

**REVISED** 9:01 am, Dec 12, 2022

Try to run the dishwasher with a full load, whenever possible.

Avoid running the water continuously for brushing teeth, washing hands, rinsing kitchen utensils, or for cleaning vegetables.

Use faucet aerators that restrict flow to no more than 2.2 gallons per minute to reduce water consumption.

Keep a container of drinking water in the refrigerator instead of running the faucet until the water turns cool.

Insulate all hot water pipes to avoid long delays of wasted water while waiting for the heated water.

Ask your city, county, or local government about their programs to conserve water, and how they can help you save water.

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8495E



MANGOLD Engineering Company

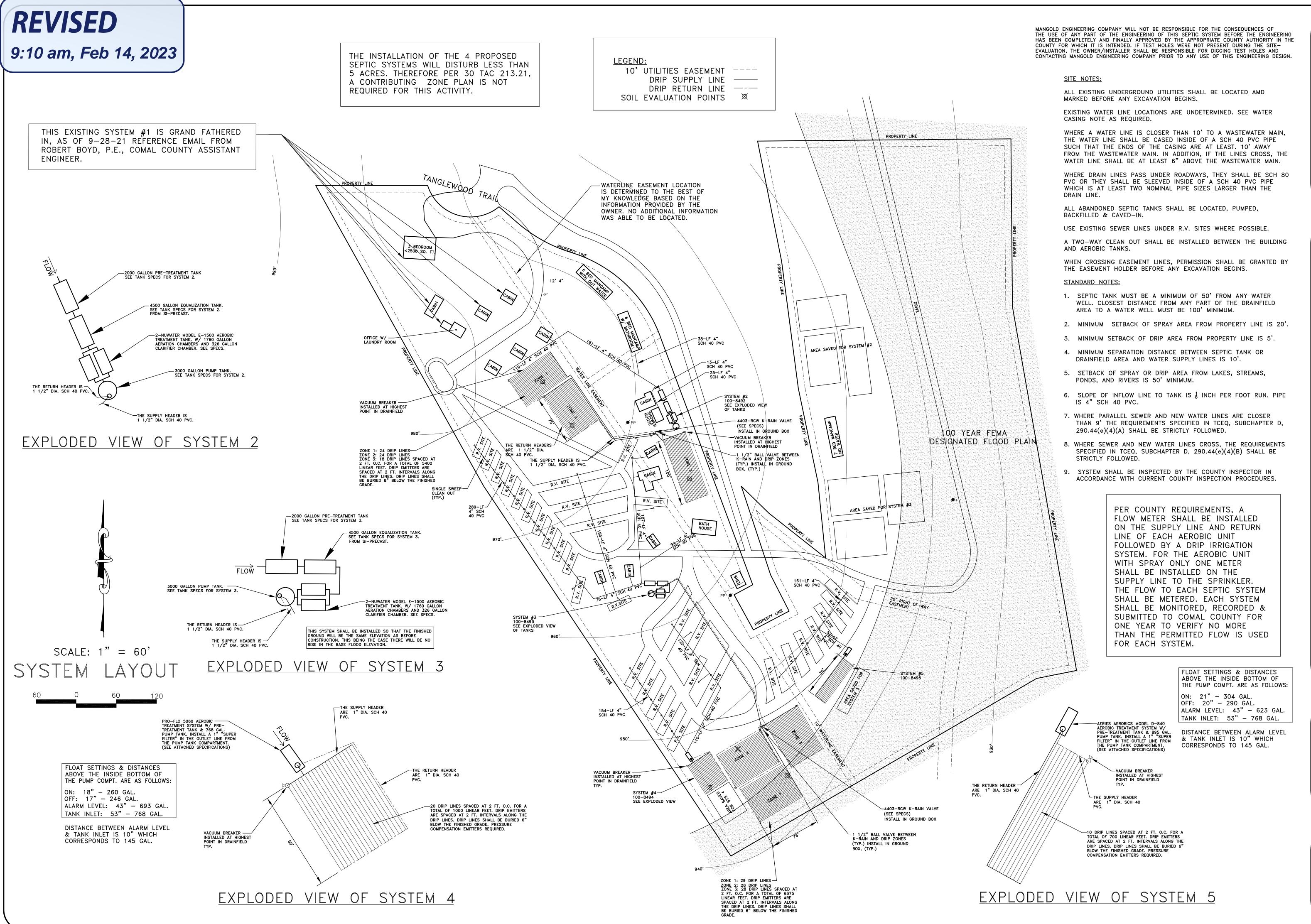
5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date: 12/5/22

Scale: None

Sheet 5 of 5



As a condition of this permit submittal, a meter must be installed on the outflow line of the pump tank. The readings from this meter must be recorded on a daily basis and submitted to the Comal County Environmental Health Department once a month for 12 months from the date the License to Operate is issued. If at any time the daily meter reading exceeds the permitted flow rate this permit will be void and a new permit must be obtained.



REBECCA CREEK CAMPGROUNDS

For:

E E R I N G C M P A N Y
Phone: (830) 931-0400
Phone: (210) 213-3912

1 5596 CR 5710 Devine, Texas 78016 FIRM NO. F-5549

**)wg:** 100-8497

**Date:** 1/27/23

Revision: H

**Drawn:** K. Crandall

Sheet: 1 of 2

KAELEIGH ROSE CRANDALL

134570

CENS

1/27/23

# SYSTEM #2 TANK SPECS:

# REVISED

10:28 am, Dec 16, 2022

- Grade extension rings

—Install a Netafim 1 1/2" "Super Filter" in the outlet line.

(Ref. manufacturer's specs.)

with manhole ring & lid labeled SEWER

√1 1/2" SCH 40 PVC line

Reserve capacity after

alarm signals. Minimum

excess volume equal to 1/3 daily flow, after alarm

iś activated, (701 gallons)

1 1/2" horizontal line connecting both pumps

to a single discharge line. Install a 2"

Dual pumps, 4" Submersible Series 20 gpm, 3/4 hp, 230 volt, single

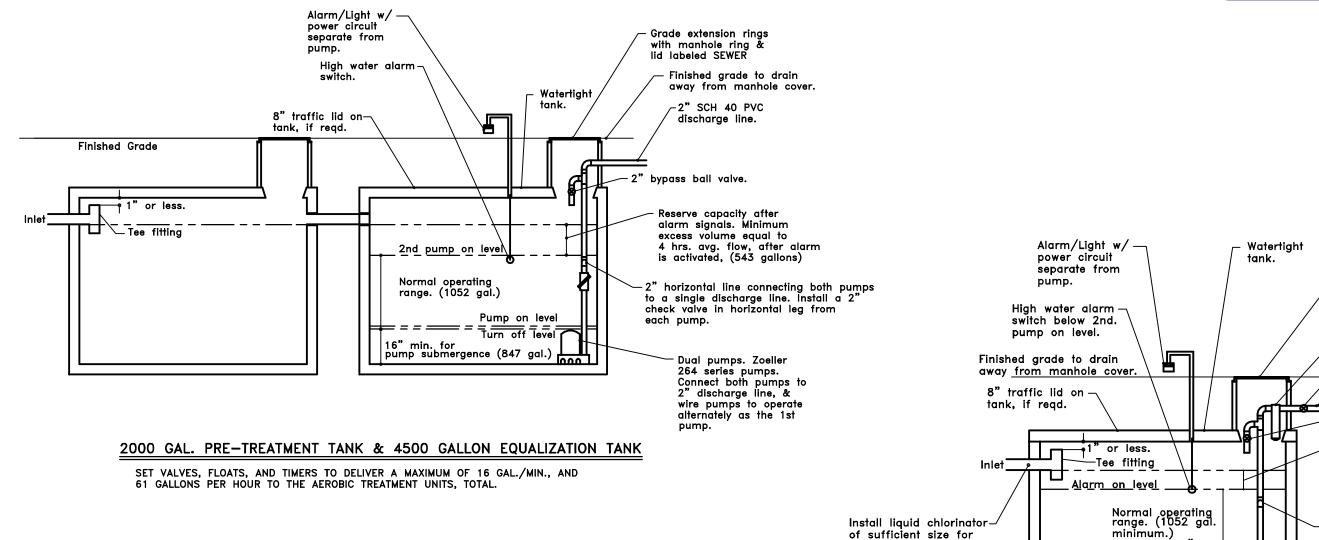
Wire pumps to operate alternately

phase from ATU supplier. (or equal)

check valve in horizontal leg from

(If required)

-1 1/2" ball valve.

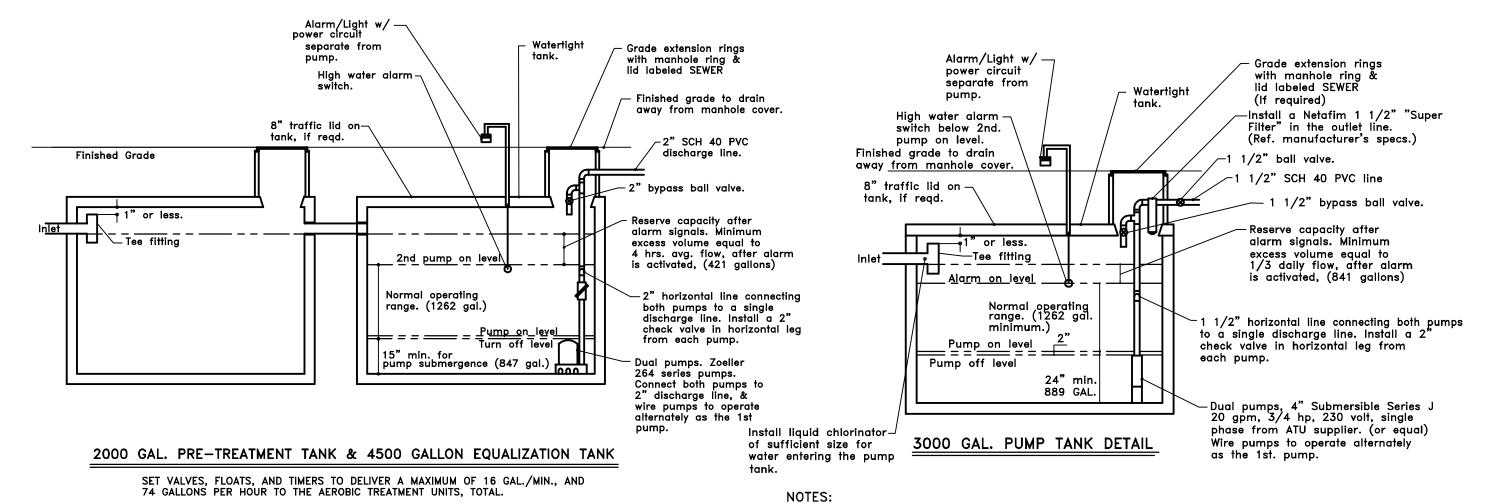


THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

# SYSTEM #3 TANK SPECS:



of sufficient size for

water entering the pump

Pump on level
Pump off level

3000 GAL. PUMP TANK DETAIL

889 GAL.

THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED. AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

## CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:

Q TCEQ-COMPONENT = Q COMPONENT Q TCEQ-TOTAL-PARK Q TOTAL-PARK-WATER-RECORDS

FOR SYSTEM 1 Q TCEQ COMPONENT:

3 BEDROOM <2500 SQ. FT. Q = 240 GPD OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES

Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD 3 CABINS (AS AN APARTMENT)

Q = 100 GPD/ CABIN (3 CABINS) = 300 GPD

 $Q_{TCEQ\ COMPONENT} = 1360\ GPD\ SYSTEM\ #1$ 

FOR SYSTEM 2 Q TCEQ COMPONENT:

4 CABINS (AS AN APARTMENT) Q = 100 GPD/ CABIN (4 CABINS) = 400 GPD6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM)

Q = 60 GPD / BED (6 BEDS) = 360 GPDSHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

 $Q_{TCEO}$  COMPONENT = 2104 GPD SYSTEM #2

FOR SYSTEM 3 Q TCEQ COMPONENT:

Q = 17 RV (40 GPD / RV) = 680 GPD5 CABINS (AS AN APARTMENT)

Q = 100 GPD / CABIN (5 CABINS) = 500 GPD

BATH HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

 $Q_{TCEO\ COMPONENT} = 2524\ GPD\ SYSTEM\ #3$ 

FOR SYSTEM 4 Q TCEQ COMPONENT

9 RV SITES (40 GPD) = 360 GPD

 $Q_{TCEO\ COMPONENT} = 360\ GPD\ SYSTEM\ #4$ 

FOR SYSTEM 5 Q TCEQ COMPONENT

7 RV SITES (40 GPD) = 280 GPD

 $Q_{TCFO}$  COMPONENT = 280 GPD SYSTEM #5

FLOW FOR BATH HOUSE & SHOWER HOUSE:

USAGE FROM RV Q= 28 GPD/ RV (33 TOTAL RV) = 924 GPD USAGE FROM CAMPSITES

Q = 25 CAMPSITES (2 PEOPLE/ SITE) (28 GPD / SHOWER) = 1400 GPD

USAGE FROM MANCAMPS Q = 13 BEDS (28 GPD) = 364 GPD

> O TOTAL = 2688 GPD FOR BOTH BATHHOUSE & SHOWER HOUSE FOR CONSERVATISM THIS IS MORE THAN THE RECOMMENDED TCEQ FLOW

> > TOTAL FLOW FOR ENITRE PARK PER TCEQ:

Q<sub>TCEQ-TOTAL-COMPONENT</sub>=1360 GPD + 2104 GPD + 2524 GPD + 360 GPD + 280 GPD= 6628 GPD

DIRECT RATIO FOR SYSTEM 1 Q COMPONENT:

1360 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT:

2104 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

2524 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 1755 GPD FOR SYSTEM #3

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT

280 GPD TCEQ COMPONENT = 6628 TCEQ TOTAL

Q COMPONENT 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

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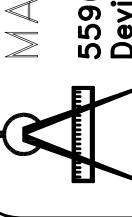
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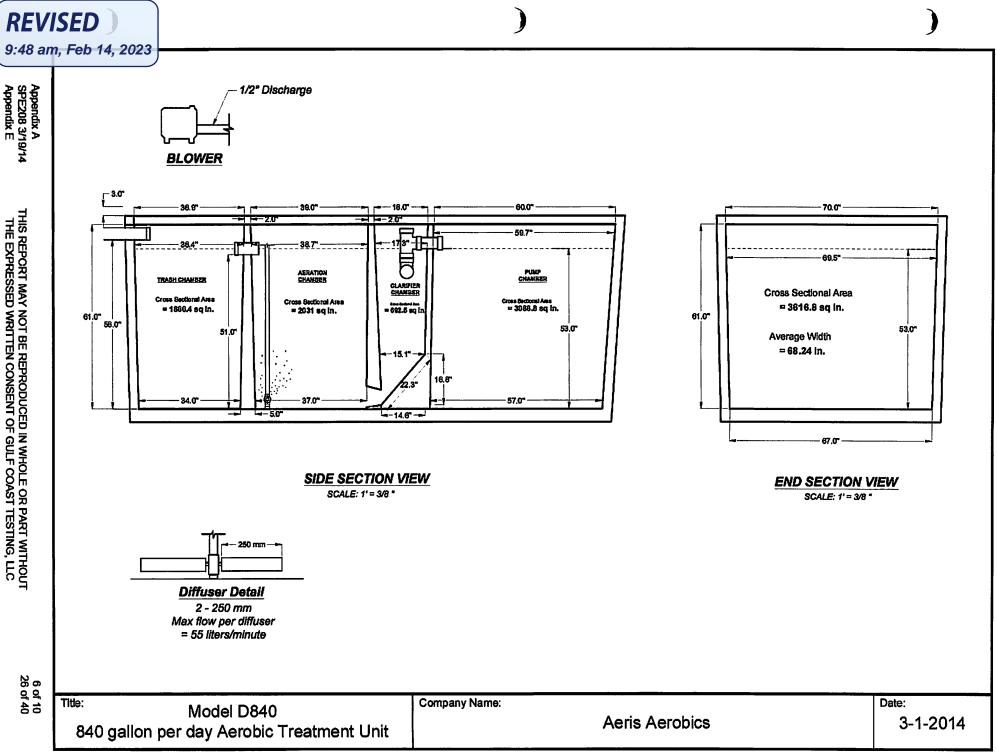
**Date:** 12/14/22

Revision:

**Drawn:** K. Crandall

**\Sheet:** 2 of 2





# PROPLUS" GEAR DRIVEN SPRINKLER SETTING INSTRUCTIONS

#### SPRINKLER INSTALLATION

## 1 NSTALL AND BURY

Do not use pipe dope. Thread the sprinkler on the pipe. Bury the sprinkler flush to grade. **NOTE:** Gear driven sprinklers and pop-up sprays should not be installed on the same watering zone.

## 2 INSPECTING THE FILTER

Unscrew the top and lift the complete sprinkler assembly out of the housing can. The filter is located on the bottom of the sprinkler assembly and can easily be pulled out, cleaned and re-installed.

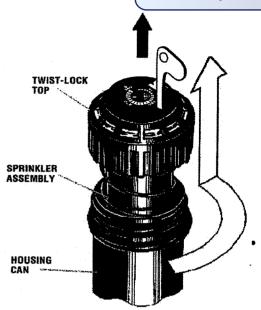
## 3 WINTERIZATION TIPS

When using an air compressor to remove water from the system please note the following:

- 1) Do not exceed 30 PSI.
- Always introduce air into the system gradually to avoid air pressure surges. Sudden release of compressed air into the sprinkler can cause damage.
- 3) Each zone should run no longer than 1 minute on air. Sprinklers turn 10 to 12 times faster on air than on water. Over spinning rotors on air can cause damage to the internal components.



10:32 am, Apr 07, 2022



## STANDARD NOZZLE PERFORMANCE

	Ü.	S.				METRIC		
Nozzie	Pressure	Radius	Flow	Pre	ssure	Radius		low
	PSI	Ft.	GPM	KPa	Bars	Meters	LM	MP/H
#2.5	30	38'	2.5	206	2.04	11.6	9.46	.57
Factory	40	39'	2.8	275	2.72	11.9	10.60	.64
Installed	50	40'	3.2	345	3.40	12.2	12.11	.73
Nozzle	60	41'	3.6	413	4.08	12.5	13.25	.79
#0.5	30	28'	0.5	206	2.0	8.5	1.89	.11
	40	29'	0.6	275	3.0	8.8	2.27	.14
	50	29'	0.7	345	3.5	8.8	2.65	.16
	60	30'	0.8	413	4.0	9.1	3.03	.18
#0.75	30	29'	0.7	206	2.0	8.8	2.65	.16
	40	30'	0.8	275	3.0	9.1	3.03	.18
	50	31'	0.9	345	3.5	9.4	3.41	.20
	60	32'	1.0	413	4.0	9.8	3.79	.23
#1	30	32'	1,3	206	2.0	9.8	4.92	.14
	40	33'	1.5	275	3.0	10.1	5.68	.18
	50	34'	1.6	345	3.5	10.4	6.05	.20
	60	35'	1.8	413	4.0	10.7	6.81	.23
#2	30	37'	2.4	206	2.0	11.3	9.08	.54
	40	40'	2.5	275	3.0	12.2	9.46	.56
	50	42'	3.0	345	3.5	12.8	11.35	.68
	60	43'	3.3	413	4.0	13.1	12.49	.75
#3	30	38'	3.6	206	2.0	11.6	13.63	.75
	40	39'	4.2	275	3.0	11.9	15.89	.95
	50	41'	4.6	345	3.5	12.5	17.41	1.04
	60	42'	5.0	413	4.0	12.8	18.92	1.13
<i>#</i> 4	30	43'	4.4	206	2.0	13.1	16.65	.99
	40	44'	5.1	275	3.0	13.4	19.30	1.15
	50	46'	5.6	345	3.5	14.0	21.19	1.27
	60	49'	5.9	413	4.0	14.9	22.33	1.33
#6	40	45'	5.9	206	3.0	13.7	22.33	1.33
	50	46'	6.0	275	3.5	14.0	22.71	1.36
	60	48'	6.3	345	4.0	14.6	23.85	1.43
	70	49'	6.7	413	5.0	14.9	25.35	1.52
#8	40	42'	8.0	206	3.0	12.8	30.28	1.81
	50	45'	8.5	275	3.5	13.7	32.12	1.92
	60	49'	9.5	345	4.0	14.8	35.95	2.15
	70	50'	10.0	413	5.0	15.3	37.85	2.27

#### LOW ANGLE NOZZLE PERFORMANCE

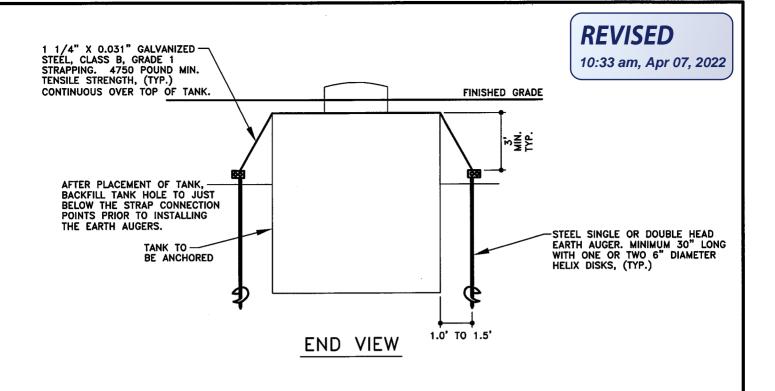
	U.	.S.				METRIC		
Nozzie		Radius	Flow		ssure	Radius		ow
	PSI	FL.	GPM	KPa	Bars	Meters	· LM	M <sup>9</sup> /H
#İ	30	22'	1.2	207	2.04	6.71	4.54	.34
	40	24'	1.7	275	2.72	7.32	5.43	.39
	50	26'	1.8	344	3.40	7.92	6.80	.41
	60	28'	2.0	413	4.08	8.53	7.56	.46
#3	30	29'	3.0	207	2.04	8.84	11.34	.68
	40	32'	3.1	275	2.72	9.75	11.72	.71
	50	35'	3.5	344	3.40	10.67	13.23	.80
	60	37'	3.8	413	4.08	11.58	14.36	.87
#4	30	31'	3.4	207	2.04	9.45	12.85	.78
	40	34'	3.9	275	2.72	10.36	14.74	.89
	50	37'	4.4	344	3.40	11.28	16.63	1.00
	60	38'	4.7	413	4.08	11.58	17.77	1.07
#6	40	38'	6.5	275	2.72	11.58	24.57	1.68
	50	40'	7.3	344	3.40	12.19	27.59	1.76
	60	42'	8.0	413	4.08	12.80	30.24	1.82
	70	44'	8.6	482	4.76	13.41	32.51	1.96

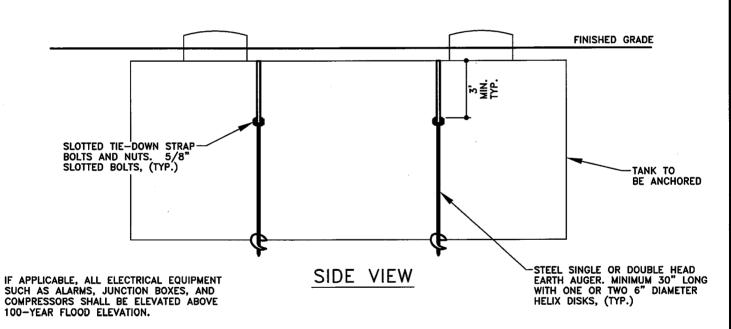
Data represents test results in zero wind for ProPlus. Adjust for local conditions. Radius may be reduced with nozzle retention screw.



K-RAIN MANUFACTURING CORP.

1640 Australian Avenue Riviera Beach, FL 33404 USA PH: 1-561-844-1002 / 1-800-735-7246 FAX: 1-561-842-9493 WEB: http://www.krain.com





## TANK ANCHORING DETAILS

STANDARD ANCHOR TANK DETAIL

Drawn by: Stephen A. Mangold

Drawing No. \_\_\_\_\_300-2681

Ŕ

MANGOLD Engineering Company
5596 CR 5710

Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. F-5549

Date: <u>3/17/21</u>

Scale: None

Sheet <u>1</u> of <u>1</u>



#### Boyd, Robert

From: Donna Cosper <donna.cosper@tceq.texas.gov>

Sent: Wednesday, February 23, 2022 1:28 PM

**To:** Boyd, Robert

**Subject:** RE: Wastewater Flow vs. Treatment

## This email originated from outside of the organization.

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

- Comal IT

Hi Robert,

Yes, your summary is correct. They must not go over the permitted daily flow. As we discussed, the generated flow might be more as long as the flow is equalized so that 5000 gpd or less is treated.

On the STR issue, I have not gotten legal's opinion. I know you no longer need their opinion for the case that generated the request but I want to get their take on it and will let you know as soon as I do.

Regards,

Donna Cosper, P.E., M.S.S.E. Texas Commission on Environmental Quality Program Support and Environmental Assistance Division On-Site Sewage Facility Program

From: Boyd, Robert <br/>
Sent: Wednesday, February 23, 2022 1:23 PM<br/>
To: Donna Cosper <donna.cosper@tceq.texas.gov><br/>
Subject: RE: Wastewater Flow vs. Treatment

Donna,

Have you had a chance to review?

Thanks.

Robert Boyd, P.E. Comal County Assistant Engineer 195 David Jonas Drive New Braunfels, TX 78132 O: 830-608-2090

C: 830-358-0516 www.cceo.org

From: Boyd, Robert

Sent: Thursday, February 17, 2022 3:59 PM

To: 'Donna Cosper' < donna.cosper@tceq.texas.gov>

Subject: Wastewater Flow vs. Treatment

Donna,

Thanks for your time on the phone. From our conversation, we understood that we could not issue a permit with a wastewater flowrate greater than 5,000 GPD. However, we could issue a permit that can treat more than 5,000 GPD as long as the permitted flow rate is less than 5,000 GPD. In this scenario, we would also require flow meters on the outflow of the treatment units demonstrating that the development is staying within the permitted flow rate. If the development went above the permitted flow rate or went over 5,000 GPD, it would trigger a violation that could only be resolved by getting a permit from the state.

Is this a correct summary of our discussion?

Thanks.

Robert Boyd, P.E. Comal County Assistant Engineer 195 David Jonas Drive New Braunfels, TX 78132 O: 830-608-2090

C: 830-358-0516 www.cceo.org From: Magley, Wesley

To: <u>"rebeccacreekcampgrounds@gmail.com"</u>

Cc: <u>"stevemangold1@gmail.com"</u>

**Subject:** Permits 113609,113610,113611,113612 **Date:** Wednesday, November 17, 2021 11:29:00 AM

Attachments: <u>image001.png</u>

113609 Site Map.pdf

RE: 14.23 acres out of the Charles Murhardt Survey, Abstract 404/3660 Tanglewood Trail.

Property Owner & Agent,

We received planning materials for the referenced permit application on 11/16/21 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

The site map is not legible. Please provide a digital copy of the site map so we can verify accordingly. (see attached)

2. Revise accordingly and resubmit.

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

Thank you,



## Wesley A. Magley

Health Inspector DR # OS0035625 195 David Jonas Dr. New Braunfels, TX 78132 830-608-2090 830-643-3770 maglew@co.comal.tx.us



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

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

Date 11/4/21		Permit #	3612
Owner Name <u>Lebecca Creek Camparounds</u>	Agent Name	Michelle ive	ertheim
Mailing Address 3660 Tanalewas Tall	-	3660 Tangle	
City, State, Zip SOVING BYANCH TX 78070		SOYIAA BYZINCH	
Phone # (930) 985-4035	Phone #	(830) 446-	
Email rebecca creek grounds@gmail.com	Email	same as of	0
All correspondence should be sent to: X Owner Age	nt 🗌 Both	Method: Ma	il X Email
Subdivision Name N/A	Unit	Lot	Block
Acreage/Legal 14.23 ac Charles Mulhayla	A SOLD ALLOW	L AM	
Street Name/Address 7440 TANALE WOOD TAIL			10 79078
Type of Development:			
Single Family Residential			
Type of Construction House, Mot RV, E			
Number of Bedrooms			
Indicate Sq Ft of Living Area			
Non-Single Family Residential	7		
(Planning materials must show adequate tanu area for doubling the re-	quired land needed	for treatment units and di	sporal area)
Type of Facility			
Offices, Factories, Churches, Schools, Parks, Etc Indicate N		ents	
Restaurants, Lounges, Theaters - Indicate Number of Seats			
Hotel, Motel, Hospital, Nursing Home - Indicate Number of Be			
Travel Trailer/RV Parks - Indicate Number of Spaces	e DV sites	<u> </u>	
Miscellaneous			
Estimated Cost of Construction: \$ (Structure)	re Only) N/A		
Is any portion of the proposed OSSF located in the United State	s Army Corps of E	Engineers (USACE) floo	wage easement?
Yes No (If yes, owner must provide approval from USACE for	proposed OSSF improv	vements within the USACE f	lowage 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 facts. I certify that I am the property owner or I possess the appropriate property.	land rights necessar	ry to make the permitted	improvements on said
<ul> <li>Authorization is hereby given to the permitting authority and designated site/soil evaluation and inspection of private sewage facilities</li> <li>I understand that a permit of authorization to construct will not be issued by the Comal County Flood Damage Prevention Order.</li> </ul>			
- I affirmatively consent to the opline posting/public release of my e-mail a	A 1		n, as applicable.
Signature Owner	11/10/200		Dans 4 of 0
Signature of Owner	Date		Page 1 of 2

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

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

SUSTEM #5						
Planning Materials & Site Evaluation as Required Completed By Valuah Crandall						
System Description allow W Surface sorry application						
Size of Septic System Required Based on Planning Materials & Soil Evaluation						
Tank Size(s) (Gallons) 800 gg/ ATU Absorption/Application Area (Sq Ft) 2009 ff						
Gallons Per Day (As Per TCEQ Table III) 127 apa						
(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 Wile Pife for operty Times of N						
(If yes, the R.S. or P.E. shall certify that the set of desire complice with a precisions of the existing WPAP.)						
If there is no existing WPAP, coes the proposed development activity require a TCEQ approved WPAP?  Yes No						
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed WPAP. A Permit to Construct will not be issued for the proposed OSSF until the proposed WPAP has been approved by the appropriate regional office.)						
Is the property located over the Edwards Contributing Zone? X Yes No						
Is there an existing TCEQ approval CZP for the property?   Yes  No						
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provisions of the existing CZP.)						
If there is no existing CZP, does the proposed development activity require a TCEQ approved CZP?   Yes   No						
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A 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:						
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

Page 2 of 2

## Site Evaluation:

Soil Texture:

Clay loam

Soil Structure:

**Blocky** 

Soil Depth:

0" to 18"

**Restrictive Horizon:** 

Rock horizon from 0" to 18" below surface

Groundwater:

None encountered

Topography:

Less 2% slope at spray areas

Determination:

Site was determined to have a Class III soil with no groundwater

encountered. Due to the rock over the drainfield area an

aerobic treatment unit followed by spray irrigation will be installed. The

spray area will be controlled by a commercial irrigation timer.

#### Calculations:

System # 5 is designed calculations and layout.

Q = 167 gpd

sign 100-8196 for

A Nu-Water Mode B-800 aerobic treatment system, or equal, shall be installed. It has built in pre-treatment tank and pump tank. The aerobic unit shall be followed a spray irrigation system. (Reference the System Layout) Chlorinator is required for water entering pump tank. Liquid type chlorination shall be used.

Ri = 0.064 gal. / sq. ft. / day,

(For location in Comal County)

#### Required Area:

A = Q / Ri, A = (445 gal. / day) / (0.064 gal. / sq. ft. / day) = 2609 sq. ft.

calculations continued on next page....

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location Comal County, Texas

Drawing No.

100-8246



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

FIRM NO. 5549

10/28/21 Date:

Scale:

None

Sheet 1 of 5



#### Calculations:

Install 1 sprinkler. The sprinkler is a Hunter low angle type, with nozzle and spray radius as shown on the System Layout. See System Layout for spray pattern.

Proposed total area = 2827 sq. ft.

Overlap and masked area: 0 sq. ft.

Actual covered area = 2827 sq. ft. (Covered area is greater than required area)

A 1" ball valve will be installed just downstream of the pump either inside of or outside of the pump tank compartment. The ball valve shall be used to adjust the spray radius(radii) of the sprinkler(s) to the value(s) shown on the System Layout.

(Reference the attached data for pump curves and nozzle data.)

NOTES FOR I ISTALLER (if applicable):

Do not connect water

The TCEQ alldws was without treatment into a man was te. Running this separate gray water sy water out sep rate from the septic system can prolong the life of t e system.

Areas where takes and drainfields / spray areas are located shall be built-up or drained so that no ponding of water occurs in these areas.

The design application rate is 0.059 gallons / sq. ft. / day

Dosing cycle quantity is 167 gallons, average. Use a commercial irrigation timer.

The number of dosing cycles per day is one (1).

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

100-8246 Drawing No.

MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

FIRM NO. 5549

10/28/21 Date:

Scale: None

Sheet 2 of 5



The design pressure at each sprinkler head is 30 to 40 psig.

The total length of supply pipe is as shown on the System Layout

Means of preventing siphoning is an anti-siphon valve.

Diameter of supply line is as shown on the System Layout.

Flow control valve is required downstream of the pump.

## NOTES TO OWNER OF SYSTEM:

MAINTENANCE AND MANAGEMENT PRACTICES (if applicable):

An OSSF should not be treated as if it were a normal city sewer system.

The excessive use of inarding should be avoided.

Do not use the to let to di butts, or other trash.

Septic tanks shall be cleaned before sludge accumulates to a point where it approaches the byttom of the outlet device, to prevent solids from exiting the tank with the liquid.

Septic tanks should be cleaned every two-to-three years to prevent excessive sludge buildup.

Do not build driveways, storage buildings, or other structures over the treatment works or its disposal field.

Chemical additives or the so-called enzymes are not necessary for the operation of a septic tank. Some of these additives may be harmful to the tank's operation.

continued next page......

Owner

Rebecca Creek Camprounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8246



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

10/28/21 Date:

None Scale:

Sheet 3 of 5



Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.

It is not advisable to allow water softener back flush to enter into any portion of the OSSF.

Except for Aerobic systems, the liquid from the OSSF is still heavily laden with bacteria. Contact with this liquid should be avoided, if it surfaces.

WATER CONSERVATION MEASURES

Showers usually use less water than baths. Install a water saving shower head that uses less than 2 1/2 gallo

ter and energy.

If you take a tub bath, red customarily fill it.

om the level to which you

possible.

Leaky faucets and faulty toilet fill-up mechanisms should be repaired as quickly as

Check toilets for leaks that may not be apparent. Add a few drops of food coloring to the tank. Do not flush. If the color appears in the bowl within a few minutes, the toilet fill or ball-cock valve needs to be adjusted to prevent water from overflowing the stand pipe, or the flapper at the bottom of the toilet tank needs to be replaced.

Reduce the amount of water used for flushing the toilet by installing one of the following: a new toilet (1.6 gallon); a toilet tank dam; or filling and capping one-quart plastic bottles with water (usually one is all that will fit in smaller toilet tanks) and lowering them into the tank of the existing 3.5 gallon or larger toilet. Do not use bricks since they may crumble and cause damage to the fixture.

continued next page......

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8246



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

10/28/21 Date:

Scale: None

Sheet 4 of 5



Try to run the dishwasher with a full load, whenever possible.

Avoid running the water continuously for brushing teeth, washing hands, rinsing kitchen utensils, or for cleaning vegetables.

Use faucet aerators that restrict flow to no more than 2.2 gallons per minute to reduce water consumption.

Keep a container of rinking water in the refrigerator instead of running the faucet until the water turns cod

Insulate all hot water pipes while waiting for the heated water.

Ask your city, coulty, or lo o conserve water, and how they can ielp you

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8246



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

10/28/21 Date:

None Scale:

Sheet 5 of 5



1 1/2" BALL VALVE BETWEEN K-RAIN AND DRIP ZONES (TYP.) INSTALL IN GROUND

559 Devi FIRN

(0)

0

10/28/21

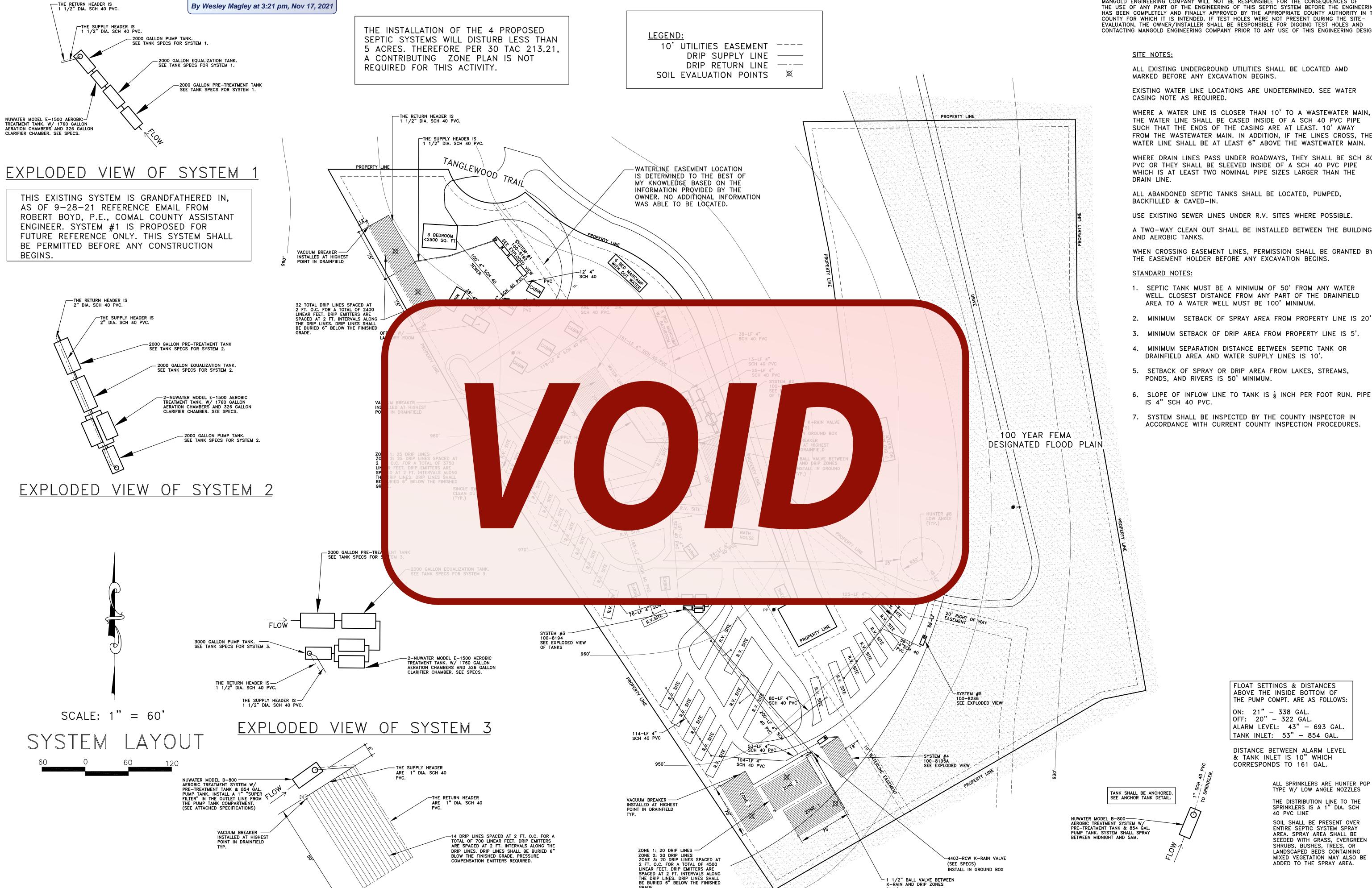
Revision:

**Drawn:** K. Crandall

Sheet: 1 of 2

EXPLODED VIEW OF SYSTEM 5

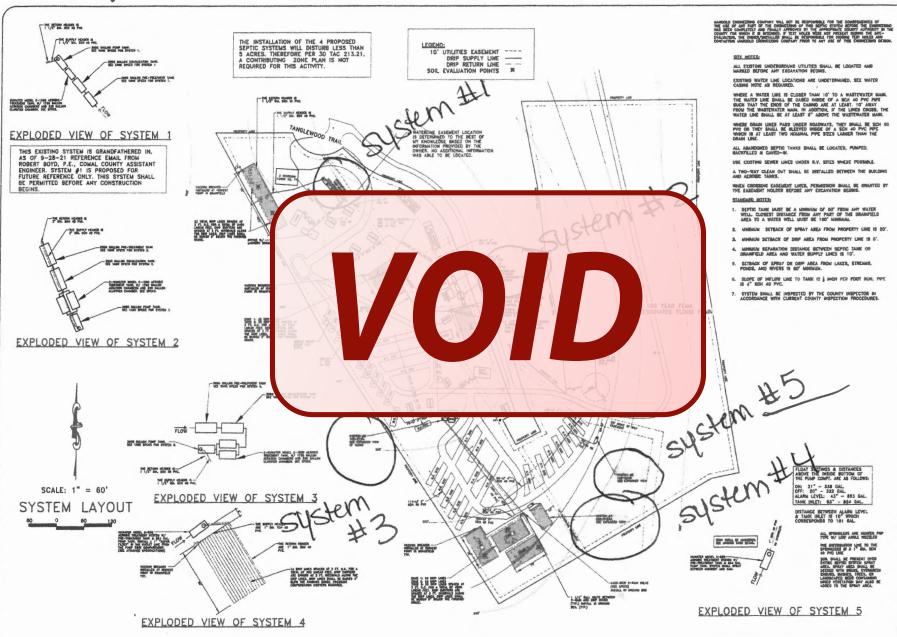




RECEIVED

EXPLODED VIEW OF SYSTEM 4

# System Label Locations



REBECCA CREEK CAMPGROUNDS

931-0400 213-3912 COMPANY (830) ENGINEERING Phone:

CR 5710 e, Texas 78016 NO. F-5549 MANGOLD

Dwg: 100-8198 Date: 10/28/21 Revision: A Drawn: K. Crandell

Sheet: 1 of 2



# **OSSF DESIGN**

for Rebecca Creek Campgrounds



Reprinted for:

5/25/2021

12:43:07PM

# **USAGE SUMMARY**

Cypress Cove Water Supply Corporat

MONTH	TOTAL USAGE	# CUSTOMERS	MONTH AVG	DAILY AVG	% OF YEARLY USAGE
January	39920	1	39,920	1,288	5.41
February	100510	1	100,510	3,590	13.62
March	49430	1	49,430	1,595	6.70
April	50050	1	50,050	1,668	6.78
May	79700	1	79,700	2,571	10.80
June	81450	1	81,450	2,715	11.04
July	71140	1	71,140	2,295	9.64
August	85390	1	85,390	2,755	11.58
September	60960	1	60,960	2,032	8.26
October	46030	1	46,030	1,485	6.24
November	20200		26.360	1.276	5.19
December	34830	1	34,830	1,124	4.72
Total Usage Total Sales	737,690gallon	s 12 5,388.67	Average Sales	5,388.6	10 .00
Monthly Avg	61,4		Ty Avg.	101	
vidual Account	s				
ress Cove 1	Water Supply (	odge			

Reprinted for:

5/25/2021

12:42:17PM

# **USAGE SUMMARY**

Cypress Cove Water Supply Corporat

TOTAL USAGE	# CUSTOMERS	MONTH AVG	DAILY AVG	% OF YEARLY USAGE
7630	1	7,630	246	4.34
12850	1	12,850	459	7.32
12170	1	12,170	393	6.93
30480	-1	30,480	1,016	17.35
19260	1	19,260	621	10.96
21120	1	21,120	704	12.02
16830	1	16,830	543	9.58
16950	1	16,950	547	9.65
12440	1	12,440	415	7.08
. 9420	1	9,420	304	5.36
9600		9,000	320	5.47
6910	1	6,910	223	3.93
175,660galions	12		1.460	100.00
	1,469			04
14 8		Dail Vg.	481	
ter Supply				
( A. Carl	14 X			
	7630 12850 12170 30480 19260 21120 16830 16950 12440 9420 9910 175,660gallons	7630   1 12850   1 12170   1 30480   1 19260   1 21120   1 16830   1 16950   1 12440   1 9420   1 175,660gallons   12	7630   1 7,630   12,850   12170   1 12,170   30480   1 30,480   19260   1 19,260   21120   1 21,120   16830   1 16,830   16950   1 16,950   12440   1 12,440   9420   1 9,420   9500   1 9,420   175,660   1 6,910   175,660   12460   1 12,440   1 175,660   1 16,950   1 175,660   1 175	7630   1 7,630   246 12850   1 12,850   459 12170   1 12,170   393 30480   1 30,480   1,016 19260   1 19,260   621 21120   1 21,120   704 16830   1 16,830   543 16950   1 16,950   547 12440   1 12,440   415 9420   1 9,420   304 9600   1 9,420   304 975,660galions   12 1,469 64   Average Sales   1,469,648

# **OSSF DESIGN**

for Rebecca Creek Campgrounds



## SUPPLEMENTAL CALCULATIONS FOR DESIGN 100-8196

THE FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE MAXIMUM DAILY FLOW FOR THE PARK SHALL BE USED. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:



FOR SYSTEM 2 Q TCEQ COMPONENT:

4 CABINS (AS AN APARTMENT)

Q = 100 GPD / CABIN (4 CABINS) = 400 GPD

6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM)

Q = 60 GPD / BED (6 BEDS) = 360 GPD

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

QTCEQ COMPONENT = 2104 GPD SYSTEM #2

Owner

Rebecca Creek Campgrounds

Location Comal County, Texas Drawing No. 100-8196A-SUP

Drawn by: Kaeleigh R. Crandall

MANGOLD Engineering Company 5596 CR 5710

Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

Date: 10/28/21

Scale: None

Sheet 1 of 3



## SUPPLEMENTAL CALCULATIONS FOR DESIGN 100-8196

# FOR SYSTEM 3 Q TCEQ COMPONENT:

Q = 17 RV (40 GPD / RV) = 680 GPD

5 CABINS (AS AN APARTMENT)

Q= 100 GPD/ CABIN (5 CABINS) = 500 GPD

BATH HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE CALCULATIONS FOR EXPLANATION)

Q<sub>TCEQ COMPONENT</sub> = 2524 GPD SYSTEM #3

## FOR SYSTEM 4 Q TCEQ COMPONENT:

10 RV SITES (40 GPD) = 400 GPD

QTCEO COMPONENT

6 RV SITES (40 GPD

QTCEQ COMPONENT



USAGE FROM RV Q= 28 GPD/ RV (33 TOTAL RV) = 924 GPD

USAGE FROM CAMPSITES

Q = 25 CAMPSITES (2 PEOPLE/ SITE) (28 GPD / SHOWER) = 1400 GPD

USAGE FROM MANCAMPS

Q = 13 BEDS (28 GPD) = 364 GPD

O TOTAL = 2688 GPD FOR BOTH BATHHOUSE & SHOWER HOUSE

### TOTAL FLOW FOR ENITRE PARK PER TCEQ:

Q<sub>TCEO-TOTAL-COMPONENT</sub>=1360 GPD + 2104 GPD + 2524 GPD + 400 GPD + 240 GPD= 6628 GPD

Owner

Rebecca Creek

Campgrounds

Drawn by: Kaeleigh R. Crandall

Location Comal County, Texas Drawing No. 100-8196A-SUP



MANGOLD Engineering Company

5596 CR 5710

Devine, TX 78016

Phone: (830) 931-0400

FIRM NO. 5549

Date: 10/28/21

Scale: None

Sheet 2 of 3



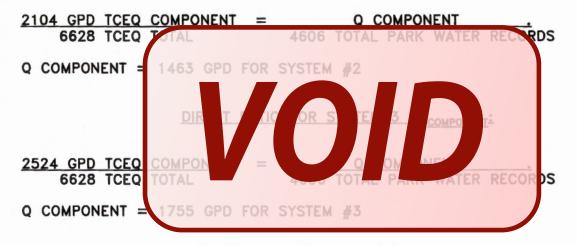
## SUPPLEMENTAL CALCULATIONS FOR DESIGN 100-8196

## DIRECT RATIO FOR SYSTEM 1 Q COMPONENT:

1360 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q COMPONENT = 946 GPD FOR SYSTEM #1

## DIRECT RATIO FOR SYSTEM 2 Q COMPONENT



## DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

400 GPD TCEQ COMPONENT = Q COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q COMPONENT = 278 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT

240 GPD TCEQ COMPONENT = O COMPONENT 6628 TCEQ TOTAL 4606 TOTAL PARK WATER RECORDS

Q COMPONENT = 167 GPD FOR SYSTEM #5

Owner Rebecca Creek Campgrounds

Location Comal County, Texas Drawing No. 100-8196A-SUP

Drawn by: Kaeleigh R. Crandal

MANGOLD Engineering Company 5596 CR 5710

Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

Date: 10/28/21

Scale: None

Sheet 3 of 3



# **OSSF DESIGN**

for Rebecca Creek Campgrounds



## **Assembly Details GENERAL NOTES:** Plant structure material to be precast concrete and steel. Maximum burial depth is 30" from slab top to grade. OSSF Weight = 16,700 lbs. Treatment capacity is 800 GPD. Pump compartment set-up for a 420 GPD Flow Rate (5 beedroom, < 4,501 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 2.60 lbs. per day. DIMENSIONS: Standard tablet chlorinator or Optional Liquid chlorinator. Outside Height: 67" NSF approved chlorinators (tablet & liquid) available. Outside Width: 75" Bio-Robix B-800 Control Center w/ Timer for night Outside Length: 164.5" spray application. Optional Micro Dose (min/sec)timer le for drip applications. Electrical Requirement to be 60 Hz, Single Phase, 30 AMP, Grounded Receptacle. 20" Ø access riser w/ lid (Typical 4). Optional extension risers available. 2 HP, high head effluent pump. ir Compressor w/ concrete housing. 40 PVC Air Line (Max. 50 Lft from Plant). See Note 9 1" Sch. 41 PVC pipe to distribution system provided by 4" min. compacted sand or gravel pad by Contractor See Note 7. Flow Line 53"" 59" 250 Gal. Diffuser Bar See Note 8. Res Note 12.

NuWater B-800 Aerobic Treatment Plant (Assembled)

Model: B-800

March, 2010 By: A.S.

Scale:

 All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-8800-2



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051 Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.







SECTION: 2.30.015 FM1495

> Supersedes 1097

0500

visit our web site: http://www.zoeller.com

#### MAIL TO: P.O. BOX 16347 • Louisville, KY 40256-0347 SHIP TO: 3649 Cane Run Road • Louisville, KY 40211-1961 (\$02) 778-2731 • 1 (800) 928-PUMP • FAX (\$02) 774-3524

## **COMPARE THESE FEATURES**

- · Non-Clogging Vortex Impeller Design.
- Float operated, submersible (NEMA 6) 2 pole switch.
- Durable cast iron construction. Cast iron switch cap, motor, and pump housing.
- Stainless steel screws, bolts, handle, guard, arm and seal assembly.
- Engineered, glass-filled, plastic impeller with metal insert.

0 cycle, 1725 RPM

- UL-listed 3-wire cord and plug 15 ft. cord standard for automatic & nonautomatic.
- · Corrosion resistant powder
- · Thermal overload protection
- Oil filled PSC motor herme
- Engineered plastic base.
- . .4 H.P. 115V & 230V, 1Ph., 6
- · Carbon and ceramic shaft se
- Oil Lubricated Bearings.
- · Passes 2-inch spherical solids.
- · 2" NPT Discharge.
- On point 12½"
- · Off point 41/2"

# SIMPLEX AND DUPLEX SYSTEMS AVAILABLE





Manufacturers of . . .

"QUALITY PUMPS SINCE 1939"

# 264 SERIES "WASTE-MATE"

(For Pump Prefix Identification see News & Views 0052)

SUBMERSIBLE

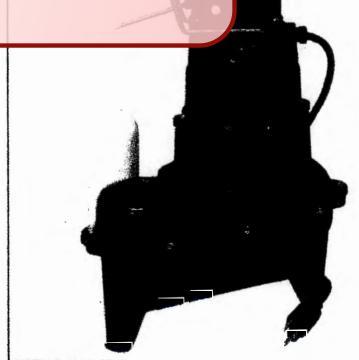


SEWAGE/EFFLUENT\*
OR DEWATERING PUMP



2" NPT DISCHARGE

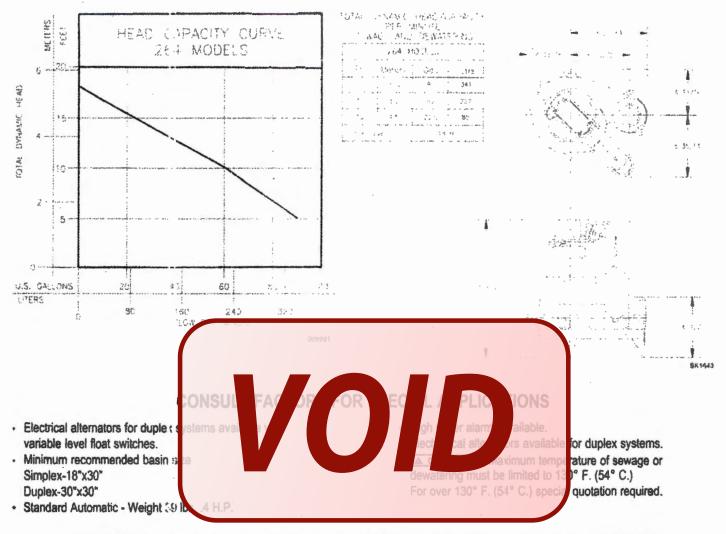




#### MODELS AVAILABLE

- Automatic
- · Nonautomatic (for variable level systems)
- BE & BN264 available packaged with
- Piggyback variable level float switch.

"May be used in those states where codes do not restrict solids size in effluent systems.



264 MODELS		CONTROL SELECTION				
Model	Volts	Ph	Mode	Amps	Simplex	Duplex
M264	115	1	Auto	9.4	1 or 1 & 7	
N264	115	1	Non	9.4	2 or 2 & 6	3 or 4 & 5
D264	230	1	Auto	4.7	1 or 1 & 7	wasterium
E264	230	1	Non	4.7	2 or 2 & 6	3 or 4 & 5

#### SELECTION GUIDE

- 1. Integral float operated 2-pule mechanical switch, no external control required.
- 2. Single piggyback variable level float switch, or double piggyback variable level float switch. Refer to FM0477.
- 3. Mechanical alternator M-Paik 10-0072 or 10-0075.
- 4. See FM0712 for correct model of electrical alternator.
- 5. Control switch 10-0225 used as a control activator specify duplex (3) or (4) float system.

Por information on additional Zostler products refer to a alog on Piggyback Variable Level Ploat Seriches FM0477 Bladdical Allamacor, FM0466; Machanical Atlemator, R 10495; Sumb Seimage Basina, FM0487, and Single Phase Simplex Pump Control, FM1598; Alema System, FM011.

#### A CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety rades should be followed including the most recent National Electric Code (NEC) and the Occup ational Safety and Health Act (OSHA).

#### RESERVE POWERED DESIGN

For unusual conditions a reserve safety factor is engineered into the design of every Zoeller pump.



ZUELLER.

MAIL TO: P.O. BOX 16347 Lountville, KY. 40256-0347 SHIP TO: 3649 Care Run Road Louisville, KY. 40215-1961 (502) 778-2731 - 1 (804) 928-PUMP FAX (502) 774-3824

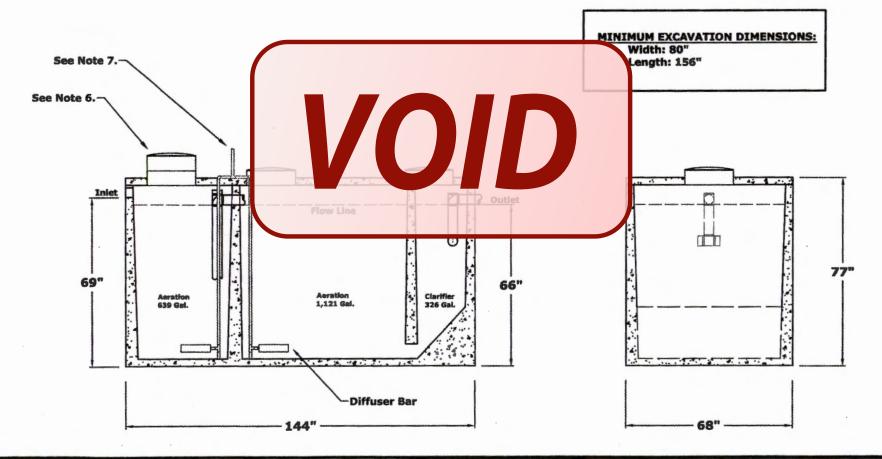
Manufacturers of . .

"Deality Planes Since 1939"



#### **GENERAL NOTES:**

- 1. Plant 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. Treatment capacity is 1,500 GPD.
- BOD Loading = 4.50 lbs. per day.
- 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
- 1" Sch. 40 PVC Air Line to NuWater B-1500 Air Compressor (Max. 50 Lft from Plant).
- Requires minimum 1,000 gallon trash tank unless otherwise specified by engineering.



# NuWater B-1500 Duel Aeration Aerobic Treatment Plant

Model: B-1500

July, 2010 By: A.S.

Scales

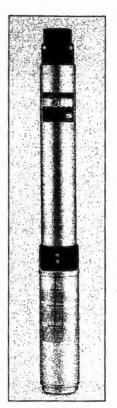
All Dimensions subject to allowable specification tolerances.

Dwg. #: ADV-B1500-2

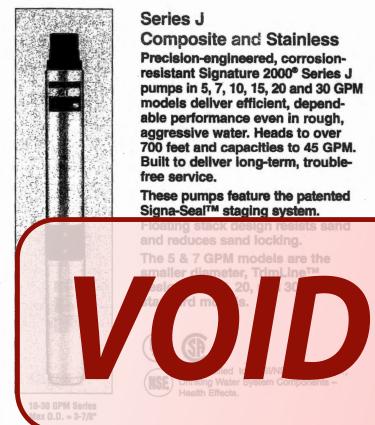


Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 830-995-4051





5-7 GPM TrimLine™ Max O.D. = 3-3/4"





#### MATERIALS

Shell - stainless steel

**Discharge** – fiberglass-reinforced thermoplastic

Discharge bearing – Nylatron<sup>®</sup> Intermediate bearing – (on larger units) polycarbonate, nitrile rubber, and stainless steel

Impeliers - Acetal

Diffusers - Polycarbonate

Suction caps - Polycarbonate with stainless steel insert

tust pads - proprietary spec.

han and coupling - stainless steel

take - fiberglass-reinforced

nermoplastic

intaka screen – polypropylene

checi valve – durable internal

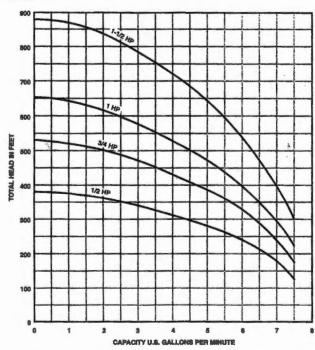
ck valve

Cable guard – stainless steel

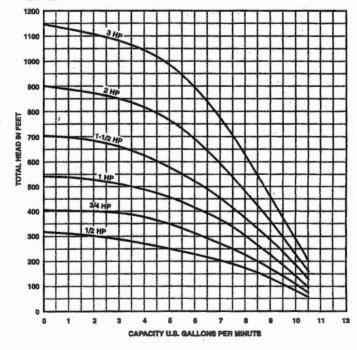
Agendy Listings - UL 778, CSA

and N.F

#### PUMP PERFORMANCE 5 GPM

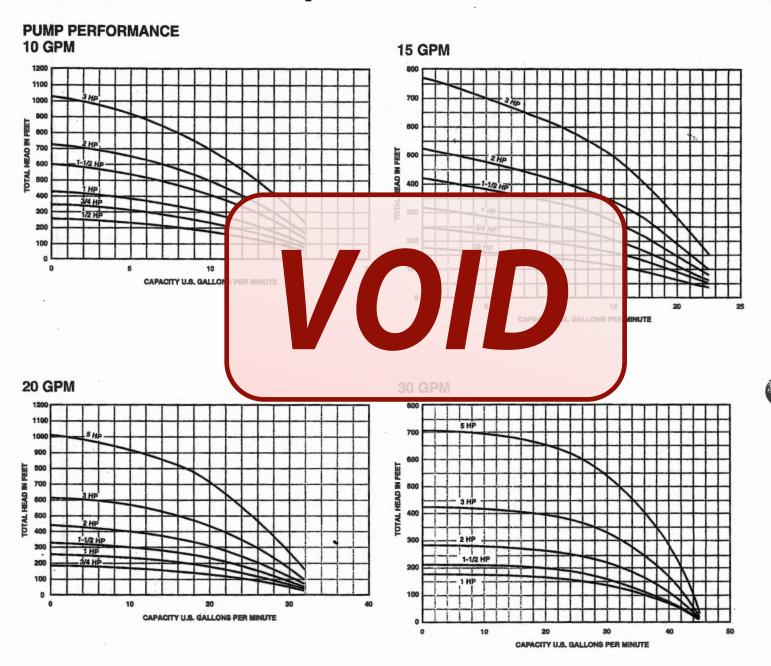


#### 7 GPM





# 4" Submersible Pumps





# 4" Submersible Pumps

## **ORDERING INFORMATION**

							3 Wire			2 Wire	
Series	HP	Motor Voltage	Phase	Stages	Disch.	Catalog No.	Approx. Wt. Lbs.*	Length Inches*	Catalog No.	Approx. Wt. Lbs.*	Length Inches
	1/2	115	1	5	1-1/4"	15P4C01J	27	22-1/4	15SP4C01J	27	22-1/4
	1/2	230		5	1-1/4"	15P4C02J	27	22-1/4	15SP4C02J	27	22-1/4
	3/4	230	1	7	1-1/4"	15P4D02J	√ 31	25-3/4	15SP4D02J	31	25-3/4
	1	230	5 de 16	9	1-1/4"	15P4E02J	35	29-1/4	15SP4E02J	35	29-1/4
		230	1	12 *	1-1/4"	15P4F02J	41	33-3/4	15SP4F02J	43	35-1/4
	1-1/2	230	3	12	1-1/4"	15P4F03J	38	32-1/2			1,5
15		460	3	12	1-1/4"	15P4F04J	38	32-1/2			
		230	L March	15	1-1//"	15P4G021	11	28-1/2			W 4.
	2	230	3	15	1-1/4"	15P4G03J	42				
		460	3	15	1-1/4"	15P4G04J			1		
- 1		230	1	22	1-1/4"	15P4H02J		54-3/4			
	3	230	3.5	22	1-1/4"	5P4H03J	60	E0 .	1000		
		460	3	22	V	104J	60				
	3/4	230	1111/	5.5		20 2J	30	23-3	20SP4D02J	30	23-3/4
	1	230	1	7		201 2J	34	27-1	20SP4E02J	34	27-1/4
		230	la dee		4"	20 2J	.39	30-1	20SP4F02J	39	32
1-1	1-1/2	230	3		1-	03.	3	29			
		460				4F04	3	4			
		230	1	12	1-1/4"	20P4G02J	42	35-1/4			
20	2	230	3 -	12	1-1/4"	20P4G03J		33-3/4			
20		460	3	12	1-1/4"	20P4G04J		33-3/4			
		230		47	4 4 7 4 1	000411001	07	40 474			
	3	230	3	17	1-1/4"	20P4H03J	58	46-1/2			
. 111		460	3	17	1-1/4"	20P4H04J	58	46-1/2			
		230	1	28	1-1/4"	20P4J02J	89	67-1/2			
	5	230	3	28	1-1/4"	20P4J03J	74	61-1/2		1 1 1	
		460	3	28	1-1/4"	20P4J04J	74	61-1/2			
	1	230	1100 C	5	1-1/4"	.30P4E02J	35	26-1/2	30SP4E02J	35	26-1/2
		230	1	6	1-1/4"	30P4F02J	39	29	30SP4F02J	39	30-1/2
• `	1-1/2	230	3	6	1-1/4"	30P4F03J	36	28			
		460	3	6	1-1/4"	30P4F04J	36	28	_		
		230	1	. 8	1-1/4"	30P4G02J	42	33-1/4	_		
30	2	230	3	8	1-1/4"	30P4G03J	37	32-1/4			
30		460	3	8	1-1/4"	30P4G04J	37	32-1/4			
		230	1	12	1-1/4"	30P4H02J	66	47-1/2			
	3	230	3	12	1-1/4"	30P4H03J	57	44-3/4			
		460	3	12	1-1/4"	30P4H04J	57	44-3/4	_		
		230	1	. 20	1-1/4"	30P4J02J	89	65-1/4	_		
1	5	230	3	20	1-1/4"	30P4J03J	73	59-1/4	_		
		460	3	20	1-1/4"	30P4J04J	73	59-1/4	_		

<sup>\*</sup>Length and weight are approximate.

Standard version maximum outside diameter 3-7/8"

NOTE: Control box or magnetic starter must be ordered separately.

# 4" Submersible Pumps

## **ORDERING INFORMATION - PUMP ENDS**

Series	HP	Stages	Disch.	Catalog No.	Approx. Wt. Lbs.*	Length Inches*
	1/2	13	1-1/4"	L5P4CJL	12	18
_	3/4	18	1-1/4"	L5P4DJL	15	22
5	1 1	22	1-1/4"	L5P4EJL	17	25-1/4
	1-1/2	30	1-1/4"	L5P4FJL	21	32
	1/2	10	1-1/4"	L7P4CJL	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	16
	3/4	13	1-1/4"	L7P4DJL	13	18-1/2
7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	1-1/4"	L7P4EJL	15	22
	1-1/2	22	1-1/4"	L7P4FJL	17	27-1/4
	2	28	1-1/4"	L7P4GJL	20	32-1/2
	3		1-1/4"	L7P4HJL	24	39-1/2
	1/2	6	1-1//12	L dop4GJ	8-1/2	12
	3/4	8		P4D	9-1/2	13-3/4
10	11.1.	10	A STATE OF THE STA	P4E	10-1/4	15-1/2
	1-1/2	14	1/4"	)P4	12	19
	2	17	1/4" · · ·	0P4	13-1/2	21-1/2
	3	24	(Au	OP4	16-1/2	27-1/2
	1/2	5	A STATE OF THE PARTY OF THE PAR	15P	9	12-1/4
	3/4		1-1/4"	L15P4DJ	10	14-1/2
15	1	9	1-1/4"	L15P4EJ	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16-3/4
10	1-1/2	12	1-1/4"	L15P4FJ	13	20-1/4
	2	15	1-1/4"	L15P4GJ	15	23-1/2
	3	22	1-1/4"	L15P4HJ	18	31-1/4
	3/4	5	1-1/4"	L20P4DJ	8-1/2	12-1/2
	1	7	1-1/4"	L20P4EJ	9-3/4	14-3/4
20	1-1/2	9	1-1/4"	L20P4FJ	10-3/4	16-3/4
	2	12	1-1/4"	L20P4GJ	12-1/2	20-1/4
	3 /	17	1-1/4"	L20P4HJ	15	25-3/4
	5	28	1-1/4"	L20P4JJ	21	38
	1996 24 1 1 1 1 4 1 7 1 7 1	5	1-1/4"	L30P4EJ	10	14
	1-1/2	6	1-1/4"	L30P4FJ	11	15-1/4
30		8	1-1/4"	L30P4GJ	12	18-1/4
	3	12	1-1/4"	L30P4HJ	15	24
	5	20	1-1/4"	L30P4JJ	20	35-3/4

<sup>\*</sup>Length and weight are approximate.

TrimLine™.yersion maximum outside diameter 3-3/4".

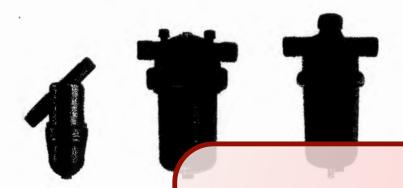
Standard version maximum outside diameter 3-7/8".

NOTE: Motor, control box or magnetic starter must be ordered separately.



# MANUAL DISC **FILTERS**

# RELIABLE, EFFICIENT PLASTIC DISCS **CREATE SUPERIOR FILTRATION**



#### THE FILTERING PROCESS

Grooved, compressed plastic disc rings produce a deep filtration process. As dirty water is pumped into the filter and pressure increases on the outside of the filter, the water pressure compresses the rings together tightly.

Grooves in the disc rings crisscross, forming a three dimensional network that traps particles. The number of crisscrossed intersection points on each groove varies, depending on filtration ence in the varying paths and

tersections create an ticles are eventually

> rty water thoroughly, not e of the cylindrical disc tire depth of every ring's lerger, more efficient npared to screen filters) captured and cleener

### REPORT A LEGISTRE

3/4"

- · Burit enective
- e Graner maleina filore recent less it.
- Rings we seally removed for fast cleaning without the reed to escrubing.
- color coded disc rings make identification of mash Same to the second state of the second

#### **APPLICATIONS**

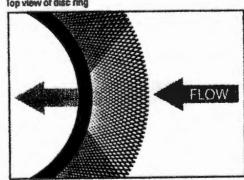
- Primary irrigation filter for relatively clean or average water quality
- · Protection of irrigation systems from clogging and/or abrasion



MESH/MICRON						
WESH	MICRON	DISC COLOR				
048	400	Blue				
080	200	Yellow				
120	138	Red				
140	115	Black				
200	55	Green				

Substitute \*\*\* in Model Number for proper mesh.

#### Top view of disc ring







# **MANUAL DISC FILTERS**



3/4" FILTEI	}
FLOW RANGE	1 - 12 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	25 sq. in.
FILTERING VOLUME	5.8 cu. in.
LENGTH	5 22/32"
WIDTH	7 15/32"
WEIGHT	.66 lbs.
DISTANCE BETWEEN ENDS	6"
INLET/OUTLET DIAMETER	3/4" N la

MODEL NUMBER

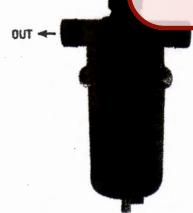


1" FILTER	
FLOW RANGE	5 - 26 GPM
MAXIMUM PRESSURE	140 psi
FILTERING SURFACE AREA	49 sq. in.
FILTERING VOLUME	27 cu. ln.
I CAICTU	0.11/225



1" SUPER FILTER					
FLOW RANGE	10 - 35 GPM				
MAXIMUM PRESSURE	140 psi				
FILTERING SURFACE AREA	78 sq. in.				
FILTERING VOLUME	36 cu. in.				
LENGTH	13 13/32"				
WIDTH	67/32"				
WEIGHT	3.11 lbs.				
DISTANCE BETWEEN ENDS	67/32"				
INLET/OUT ET DIAMETER	1" Male				
MODEL NU MBÉR	25A48-***				







2" DUAL LITE FILTER						
FLOW RANGE	40 - 110 GPM					
MAXIMUM PRESSURE	115 psi					
FILTERING SURFACE AREA	147 sq. in.					
FILTERING VOLUME	75.7 cu. in.					
LENGTH	16 5/16"					
WIDTH	10 1/4"					
WEIGHT	6.6 lbs.					
DISTANCE BETWEEN ENDS	10 1/4"					
INLET/OUTLET DIAMETER	2" Male					
MODEL NUMBER	25A2DL-***					

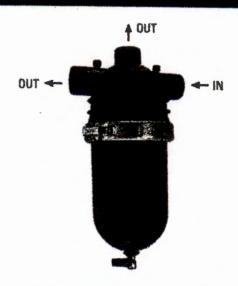
FLOW RANGE	80 - 220 GPM
MAXIMUM PRESSURE	115 psi
FILTERING SURFACE AREA	294.5 sq. in.
FILTERING VOLUME	174 cu. in.
LENGTH	28 3/4"
WIDTH .	9 14/32"
WEIGHT	17 lbs.
DISTANCE BETWEEN ENDS	12 19/32"
INLET/OUTLET DIAMETER	3" Flanged
MODEL NUMBER	25A3TL-***F



1 ½" FILTER						
FLOW RANGE	10 - 35 GPM					
MAXIMUM PRESSURE	140 psi					
FILTERING SURFACE AREA	49 sq. in.					
FILTERING VOLUME	27 cu. in.					
LENGTH	10 5/8"					
WIDTH	7 7/8"					
WEIGHT	2 / rus.					
DISTANCE BETWEEN ENDS	77/8"					
INLET/OUTLET DIAMETER	1/2" Male					



1 1/2" SUPER FI	LTER
FLOW RANGE	10 - 52 GPM
MAXIMUM PRESSURE	140 psi .
FILTERING SURFACE AREA	78 sq. in.
FILTERING VOLUME	36 cu. in.



2" DUAL HP FILTER						
FLOW RANGE	40 - 120 GPM					
MAXIMUM PRESSURE	174 psi					
FILTERING SURFACE AREA	147 sq. in.					
FILTERING VOLUME	75 cu. in.					
.ENGTH	14 3/4"					
MIDTH	10 1/4"					
NEIGHT	11 lbs.					
DISTANCE BETWEEN ENDS	10 1/4"					
NLET/OUTLET DIAMETER	2" Male					
MODEL NUMBER	25A30-***					

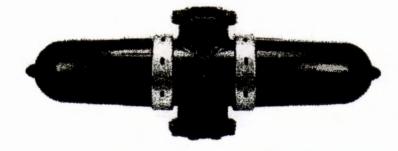


MODEL NUMBER





**GROOVED** 



3" ANGLE FILTER							
NGE 80 - 220 GPM							
M PRESSURE 140 psi							
G SURFACE AREA   287 sq. in.							
S VOLUME 108 cu. in.							
24 7/8"							
12 3/32"							
31 lbs.							
TLET DIAMETER 3"							
UMBER - FLANGED   25A53-***FNE	N						
UMBER - GROOVED   25A53-***GNE	N						
24 7/8" 12.3/32" 31 lbs. TLET DIAMETER 3" UMBER - FLANGED 25A53-***FN	E)						

4" TWIN FILTER						
FLOW RANGE	160 - 450 GPM					
MAXIMUM PRESSURE	140 psi					
FILTERING SURFACE AREA	574 sq. in.					
FILTERING VOLUME	216 cu. in.					
LENGTH	47"					
WIDTH	13~					
WEIGHT	52.8 lbs.					
DISTANCE BETWEEN ENDS	17 17/32"					
INLET/OUTLET DIAMETER	4" Flanged					
MODEL NUMBER	25A78-***F					

6" TWIN FILTER					
FLOW RANGE	200 - 600 GPM				
MAXIMUM PRESSURE	140 psi				
FILTERING SURFACE AREA	574 sq. in.				
FILTERING VOLUME	216 cu. in.				
LENGTH	47"				
WIDTH	13"				
WEIGHT	57.2 lbs.				
DISTANCE BETWEEN ENDS	17 17/32"				
INLET/OUTLET DIAMETER	6" Flanged				
MODEL NUMBER	25A80-***F				

## **MANUAL DISC FILTERS**

LOW RATE						HEAD	LOSS (psi)				
(GPM)	3/4"	1"	1" SUPER	11/2"	1 1/2" SUPER	2" DUAL HP	2" DUAL LITE	3" TWIN LITE	3" ANGLE	4" TWIN	6" TWIN
5	0.60	0.25									
10	2.50	0.60	-								
13	3.40	1.34									
17	5.87	210									
22		124	1.10	1.10							
26			1.50	1.30	1.50						
31			210	1.70	210						
35			2.50	2.30	2.50						
44					420	0.30	0.30				
66						0.63	0.63				
88						1.03	15/24 <b>I.US</b> (6)	9,64	0 44		
110								0.98	7.58		
132								1.37	.73		
154								W	.88	1	
178								<b>63</b>	,03		
198							i i i		22		
220									.61		
242											
364											
206											
308		1								140	1.00
330										1.50	1.20
350										1.60	1.30
400			1							2.00	1.50
500	4	1		1	1		1	1	1		2.00

CHART LEGEND

The losses shown are for litters with 140 Mesh

0.00 River, ditch, pond, take or reservoir water

0.00 Well water containing sand only

0.80 Municipal supply

ORDERING INFORMATION				
FILTER SIZE	MODEL NUMBER			
3/4"	25A45-***			
1"	25A47-***			
1" SUPER	25449-***			
1 1/2"	25A15-***			
1.1/2" SUPER	25A17-144			
2" DUAL HP	25A30-***			
2" DUAL LITE	25A2DL-***			
3" TWIN LITE	25A3TL-***F			
3" ANGLE FLANGED	25A53-***FNEW			
3° ANGLE GROOVED	25A53-***GNEW			
4" TWIN FLANGED	25A78-***F			
6" TWIN FLANGED	25A80-***F			

Substitute \*\*\* for proper mesh size.

#### **MATERIALS**

- Disc Rings: Polypropylene
- O-Rings: EPDM Rubber
- Clamp: Stainless Steel (except 2" Dual Lite and 3" Twin Lite which is Plastic)



NETAFIM USA 5470 E. HOME AVE. FRESNO, CA 93727 CS 888 638 2346 www.netafimusa.com



## K-RAIN MODEL 4000: DISTRIBUTING VALVE

The 4000 distributing valve offers a reliable, economical way to automate multiple zoned residential and small commercial irrigation systems. The samplicity of design and a minimum of moving parts ensures sees of maintenance and long service life.

These patented valves allow for the number of watering zones to be changed quickly and easily. They are ideally suited for both city water and pump applications and may also be used for onsite wastewater or effluent water applications.

The 4000 valve is available in 4 or 6 models. A quick change of the car valve to operate from 2 to 6 zone will operate with flows as low as 10 at pressures of 25 to 75 PSI.

The distributing valve shall carry trade warranty against manufactu

## HOW TO SPECIFY

Series \_\_\_\_\_Zones

#### MODELS

4402

#### 4 Outlet - 1 1/4" x 1 1/4" Models

4400 No Cam

1400 NO Call

Cammed for 2 Zone Operation

4403 Cammed for 3 Zone Operation

4404 Cammed for 4 Zone Operation

Other Options: Add to Part Number RCW Reclaimed Water Use

#### 4 Outlet - 1" x 1" Models

4410 No Cam

4412 Cammed for 2

#### SPECIFICATIONS

- Constructed of High Strength, Non-Corrosive ABS Polymer
- Flow Range:

4 Outlet Valve: 10-40 GPM 6 Outlet Valve: 10-25 GPM

- Pressure Rating: 25 75 PSI
- Pressure Loss:

4 Outlet Valve

Flow (GPM) 10 20 30 40 PSI Loss 2.0 3.0 4.5 6.4

6 Outlet Valve

Flow (GPM) 10 20 30 PSI Loss 2.5 4.5 7.5

Inlet: Slip and Glue Connection

les: to 1 1/4" PVC Pipe aries to 1" PVC Pipe eries to 1 1/4" PVC Pipe

to 1° PVC Pipe

lip and Glue Connections

to 1° PVC Pipe

Series to 1" PVC Pipe

to 1" PVC Pipe

Height: 5-3/4" Width: 5-3/4"

#### Zone Operation

4685 Cammed for 5 Zone Operation

4606 Cammed for 6 Zone Operation

Other Options: Add to Part Number RCW Reclaimed Water Use

#### 6 Outlet - 1" x 1" Models

4610 No Cam

4612 Gammed for 2 Zone Operation

4613 Cammed for 3 Zone Operation

4614 Cammed for 4 Zone Operation

4615 Cammed for 5

Zone Operation

4616 Cammed for 6 Zone Operation

#### INSTALLATION TIPS

Dimension

 We Recommend the Installation of an Atmospheric Vacuum Breaker Between the Pump and the Valve.

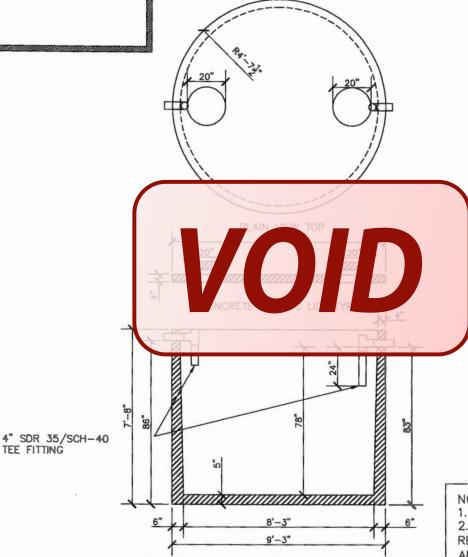


RINGATION SOLUTIONS WOOLDWIDE

K-Rala Manufacturing Corp. 1640 Australian Avenue Riviera Beach, FL 33404 USA PH: 1-561-844-1002 FAX: 1-561-842-9493 1-800-735-7246 EMAIL: krain@k-rain.com WEB: http://www.k-rain.com



\* ANALYSIS AND DESIGN IN ACCORDANCE WITH ASTM STANDARD C 1227



# SINGLE COMPARTMENT TANK

#### NOTES:

- 1. CONCRETE: 4500 PSI 2. REINFORCEMENT: #3 REBAR 1' ON CENTER IN LID AND FLOOR W/ 1' TURN UP IN WALL 3"X5"X1/4" MESH WIRE IN WALLS
- 3. 5" TRAFFIC LID (STD)
- TANK WEIGHT: 20,126.7#
- 5. CAPACITY: 2706 GAL
- GAL/IN = 34.7
   INLET & OUTLET MEASURED FROM BOTTOM OF TANK TO FLOWLINE.



CLIENT:	BLOCK CREEK CONCRETE						
STREET AL	444 OLD #9 HWY A						
DESC:	3000 GAL. SINGLE COMP. SEPTIC	TANK					
PREPARED	GREG W. JOHNSON, P.E., F#2585	SCALE: 1/4" = 1'-0"	DATE: 12/1/2017	REVISED:			



#### **GENERAL NOTES**;

- 1. Plant 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. Treatment capacity is 1,000 GPD.
- 5. BOD Loading = 3.00 lbs. per day.
- 20" Ø acess riser w/ lid (Typical 3). Optional extension risers available.
- 1" Sch. 40 PVC Air Line to Bio-Robic B-1000 Air Compressor (Max. 50 Lft from Plant).
- 8. 4" min. compacted sand or gravel pad by Contractor

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

See Note 6.

See Note 8.

NuWater B-1000 Aerobic Treatment Plant (Assembled)

Model: B-1000

July, 2012 By: A.S.

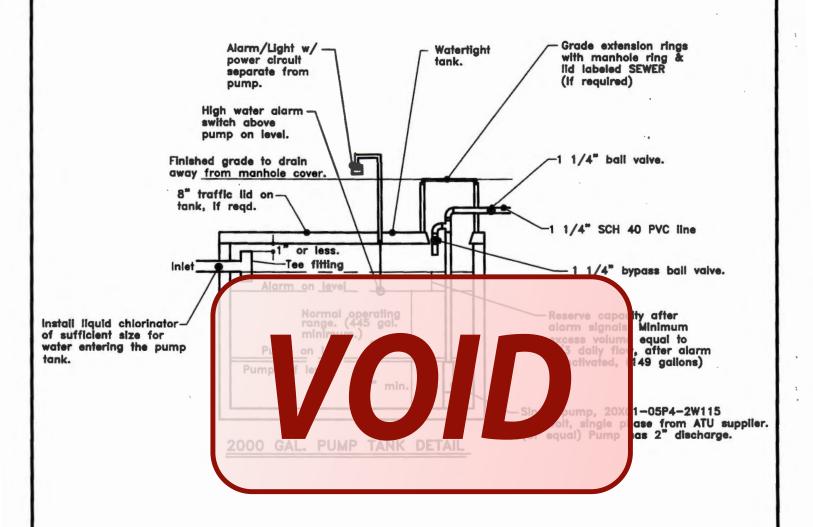
Scale:

\* All Dimensions subject to allowable specification

Dwg. #: ADV-B1000-2



Advantage Wastewater Solutions IIc. 444 A Old Hwy No 9 Comfort, TX 78013 830-995-3189 fax 630-995-4051



ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

Owner Rebecca Creek Carngrounds Drawn by: Ka SYSTEM # 4 Location Comal County, Texas Drawing No.	releigh R. Crandall 100-8195-PT	Kaeleigh R.CRandall
MANGOLD Engineering Company 5596 CR 5710 Devine, TX 78016	Date: 9/1/21 Scale: None	RABLEIGH ROSE CRANDALL 134570 CENS
Phone: (830) 931-0400 FIRM NO. 5549	Sheet 1 of 1	41111/1

GENERAL NOTES! 2000 Gallon Pump Tank Width BO" Longth: 156" Sed Note 6. 79" 69 1/2" 66 1/2" See Note 8. 2000 Gallon Pump Tank July, 2010 By: A.S. Advantage Wasteweter Solutions lic 444 A Old Hwy No 3 Comfort, TX 78019 830-995-3189 fax 830-995-4051 Model: E- 2000 P

# **EFFLUENT PUMPS**

# Little GIANT.



# C1 SERIES - 1/2 HP

## **APPLICATIONS**

Gray water pumping, filtered effluent service water pumping, water reclamation projects such as pumping from rain catchment basins, aeration and other fountain or pond applications, agriculture and livestock water pumping

## **FEATURES**

- Supplied with a removable 5" base for secure and reliable mounting
- Bottom suction design
- Robust thermoplastic dis harge head design resists breakage during installation and operation

n provides a co

- Single shell housing designed quiet operation
- Hydraulic components m Ided from high
- Optimized hydraulic desi power usage
- All metal components an made of high grades steel for
- Available with a high quality 115 V or 230 V, vz no moto
- Fluid flows of 10, 20, and 0 gpm, with a maximum shut-off pressure of 100 psi
- Heavy-duty 600 V 10 foot SCOW jacketed lead



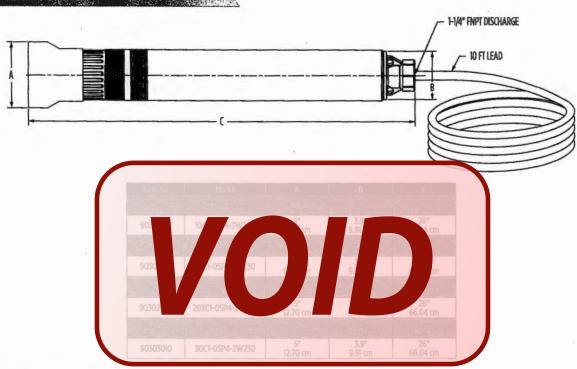


item No	i-lodel	HP	Volts	Hz	Stages	Amps	Watts	Wire		hut-Off Pad		Head ed Flow	Max GPM		Head x. GPM	Hax. Amps
									PSI	FT	PSI	FT	GPPI	PSI	FT	
90300005	E OR ODEAR OFF			60		39.0	3200	2	93		50	115	4	24	30	0
90301010	10C1-05P4-2W230	1/2	230	60	7	4.5	920	2	93	215	50	115	14	22	50	5
\$\$\$02U\$5	20CF03PA-2NII5	-1/2	16	EQ. 1	4 - 5	9.0 -	328	4	56 L	100	54	76	2.5	9 1	80.1	-10
90302010	20C1-05P4-2W230	1/2	230	60	5	4.5	920	2	56	130	34	78	28	9	20	5
90302085	- 20 ingger to being	12	196	- 60%	6.	a. 9.0 °	970	2	- 64 B	(Se. )	: De	300	1 1 26 - 1	T. 3 14	21	10.2
90302020	20XC1-05P4-2W230	1/2	230	60	6	4.5	920	2	68	156	37	85	28	9	21	5
9080808E	300 00P4 TANS	1952	e die	10 Billion	114 %	9.0	92	7.4	3.3	12	19.	- 46	35-	W	A . 20 T	
90303010	30C1-05P4-2W230	1/2	230	60	4	4.5	920	2	39	89	19	45	35	13	29 ·	50

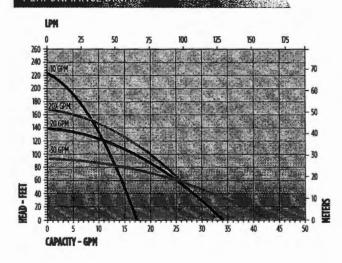
# **EFFLUENT PUMPS**

# C1 SERIES - 1/2 HP

# ENGINEERING DATA

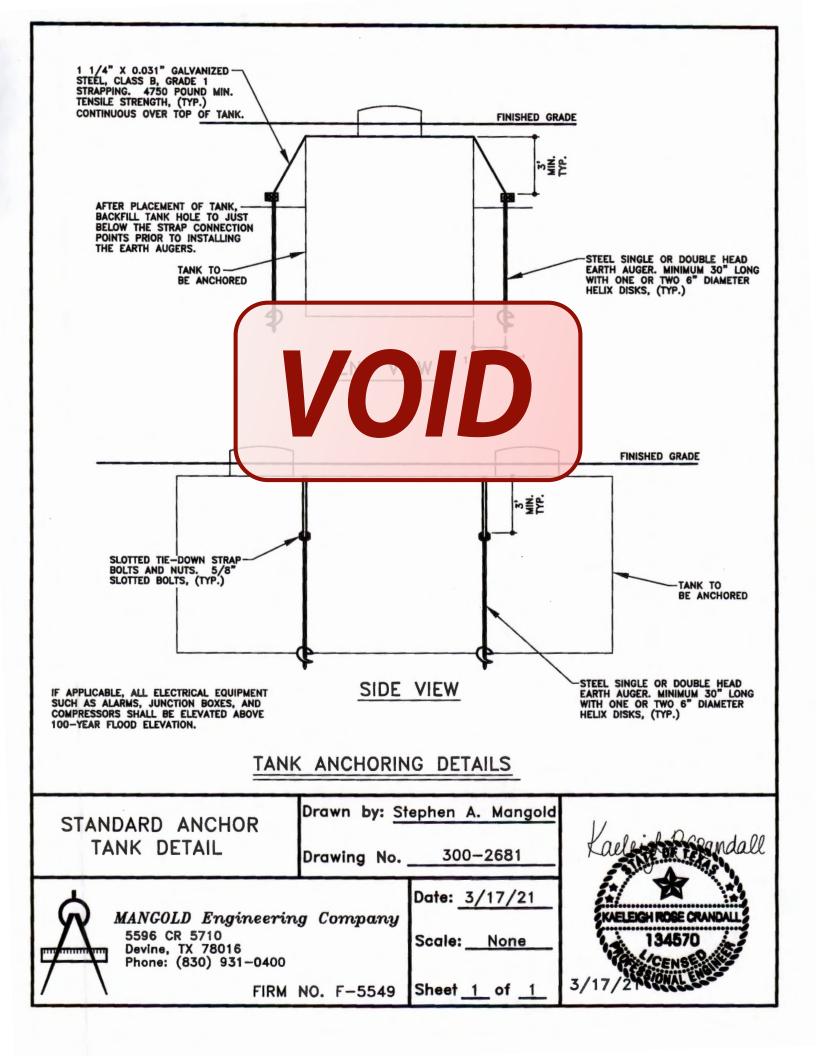


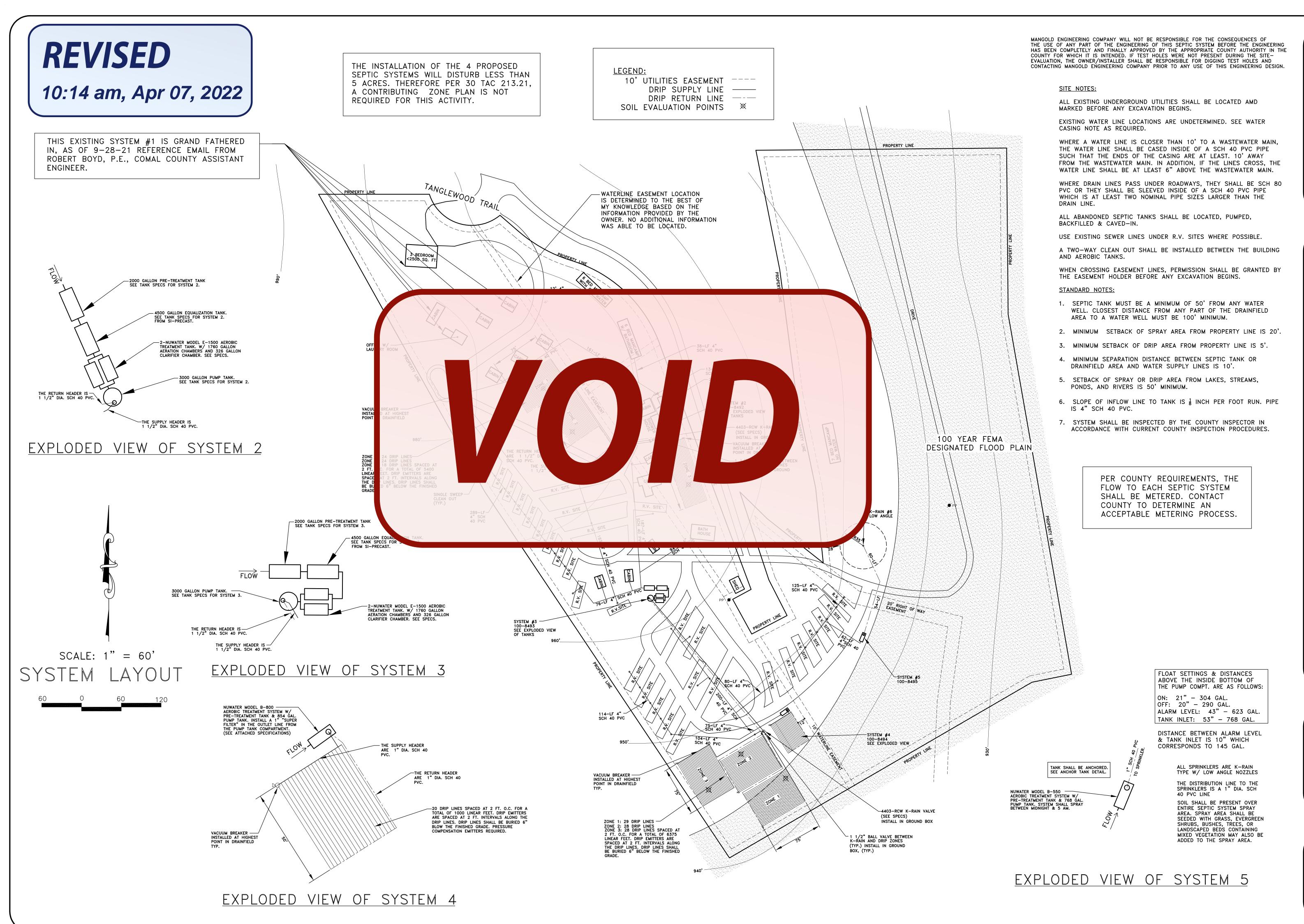
# PERFORMANCE DATA



## PGP Low Angle Nozzle (Gray) Performance Data

	Pressure	Radius	Flow	Precip	in/hr ·		
Nozzie 4	931 30 40 <b>50</b> 60	ft. 22' 24' 26' 28'	GPM 1.4 1.7 1.8 2.0	0.56 0.57 0.51 0.49	0.64 0.66 0.59 0.57	· :	
5	30 40 <b>50</b> 60	27' 28' 30'	1.9 2.1 2.3	0.49 0.50 0.52 0.49	0.57 0.58 0.60 0.57		
6	39 40 <b>50</b> 60 30	27' 30' 33' 35' 29'	2.1 2.6 2.8 3.6		0.A 0.8		
7	40 50 60 30	32' 35' 37'	3.8 3.4	0.53 0.53 0.68	0.62 0.79		
8	40 50 60	37' 38' 33'	4.7 4.3	0.63 0.76	0.72 0.88		
9	40 60 40	37' 40' - 42' 38'	5.0 5.6 6.1 6.5	0.70 <b>0.67</b> 0.67 0.87	0.81 0.78 0.77 1.00	. :	
10	50 <b>60</b> 70	40' 42' 44'	7.3 8.0 8.6	0.88 <b>0.87</b> 0.86	1.01 1.01 0.99		
P	Blank noz sprinklers	zie plug i during re	for turnin spairs, m	g off sele aintenand	ce, etc.		





REBECCA CREEK CAMPGROUNDS

3 5596 CR 5710\ Devine, Texas 78016FIRM NO. F-5549

**Dwg:** 100-849

wg: 100-8497

**Date:** 4/4/2022

Revision: c

**Drawn:** K. Crandall

Sheet: 1 of 2



#### Olvera, Brandon

From: Olvera, Brandon

Sent: Friday, April 8, 2022 9:10 AM

To: 'Stephen Mangold'

**Cc:** Ritzen, Brenda; Robert Sutcliffe; Massie, Cassandra S; Boyd, Robert

**Subject:** RE: 113609, 113610, 113611, 113612

#### Robert Sutcliffe,

The permit files have been updated. Lines 1, 3-6 in previous email have been addressed.



Submit a copy for the Release of Easement Crossing

If you have any questions give me a call at 830-643-3759

#### Thank You,



#### **Brandon Olvera**

Environmental Health Inspector 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS0034792

O: 830-608-2090 I C: 830-832-9442

olverb@co.comal.tx.us

From: Stephen Mangold <stevemangold1@gmail.com>

Sent: Thursday, April 7, 2022 2:38 PM

To: Olvera, Brandon < Olverb@co.comal.tx.us>

Cc: Ritzen, Brenda <rabbjr@co.comal.tx.us>; Robert Sutcliffe <robert@enukiinvestments.com>; Massie,Cassandra S

<massic@co.comal.tx.us>; Boyd, Robert <boydro@co.comal.tx.us>

Subject: Re: 113609, 113610, 113611, 113612

## This email originated from outside of the organization.

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

- Comal IT

- 1. Certify that waterline crossing's equivalent protection complies with TAC 290
- Added note to the design see attached.
- 2. Provide the release of easement crossings
- The owners will take care of this.

How is it determined that half the people will go to the Shower House and the other half to the Bath House

- This was already taken care of.



System 3 application does not reflect the Bath House

Corrected see attachment.

V. All systems will need to have a daily flow meter to provide daily meter readings once a

- Updated note on drawing page to what we discussed on the phone.



V. Present how system 1 will provide daily water use records

- Agreed to using the water meter for those facilities.

## Mangold Engineering Company

5596 County Road 5710 Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912 Kaeleigh Crandall, P.E. Cell: (830) 931-0400

On Wed, Apr 6, 2022 at 11:13 AM Olvera, Brandon < Olverb@co.comal.tx.us > wrote:

RE: 3660 Tanglewood Trail 14.23 AC charles Murhart Survey Abs No. 404

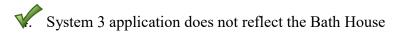
Property Owner & Agent,

We received planning materials for the referenced permit application on Revision 04-05-2022 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:

Certify that waterline crossing's equivalent prtoection complies with TAC 290

Provide the release of easment crossings

How is it determined that half the people will go to the Shower House and the other half to the Bath House



All systems will need to have a daily flow meter to provide daily meter readings once a month for 1 year

Present how system 1 will provide daily water use records

Revise accordingly and resubmit.

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

Thank you,



## **Brandon Olvera**

Environmental Health Inspector 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS0034792

O: 830-608-2090 | C: 830-832-9442 olverb@co.comal.tx.us

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Sent: Wednesday, April 6, 2022 11:13 AM

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Cc: Ritzen, Brenda; Robert Sutcliffe; Massie, Cassandra S; Boyd, Robert

**Subject:** 113609, 113610, 113611, 113612

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System 3 application does not reflect the Bath House

All systems will need to have a daily flow meter to provide daily meter readings once a month for 1 year

Present how system 1 will provide daily water use records

7. Revise accordingly and resubmit.

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

Thank you,

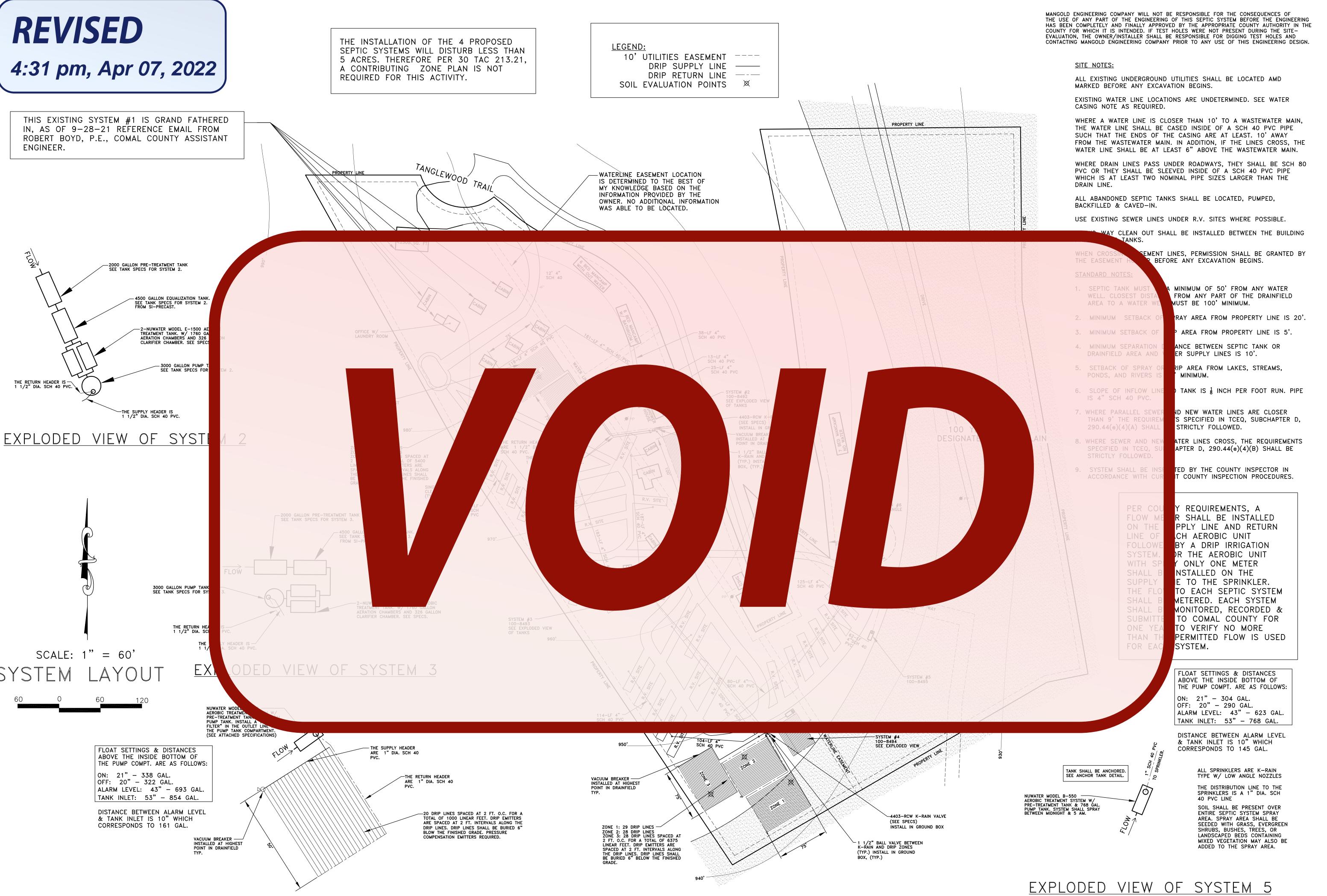


#### **Brandon Olvera**

Environmental Health Inspector 195 David Jonas Dr. New Braunfels, TX 78132 DR:OS0034792

O: 830-608-2090 I C: 830-832-9442

olverb@co.comal.tx.us



EXPLODED VIEW OF SYSTEM 4

CA RO BE( Ы∢  $\mathbb{Z}$ 

For:

00 0 — 00 92 00 7  $\infty$   $\sim$ \_\_\_ 

(0 0  $\infty$ 0 D CR 0 5596 Devin FIRM

0 0

**Date:** 4/7/22

**Revision:** D

**Drawn:** K. Crandall

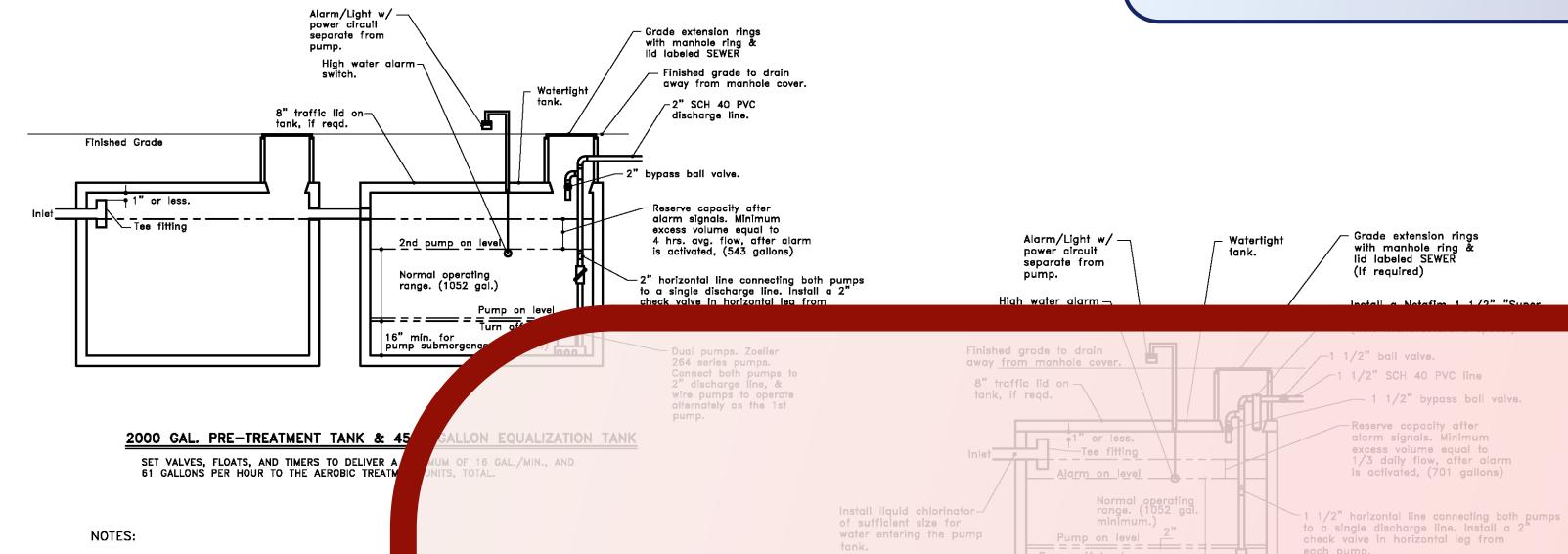
Sheet: 1 of 2



# SYSTEM #2 TANK SPECS:

# REVISED

10:15 am, Apr 07, 2022

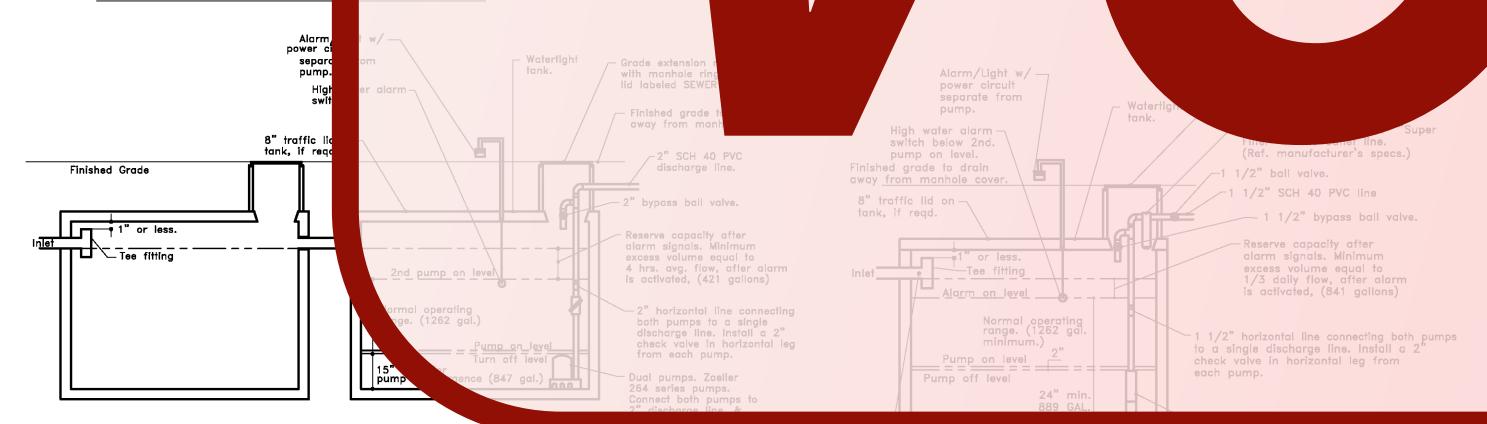


THE ALARM ON LEVEL SHALL BE BELOW THE PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID L LOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUA

ALL ELECTRICAL WIRING SHALL BE IN ACCOR WITH THE MOST RECENT EDITION OF NATIONAL ELECTRIC CODE. CONNECTIONS SH EXTERNAL POWER WIRING SHALL BE IN APPR LECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER P. R SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL NNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APP FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET UM STORAGE REQUIREMENTS.

# SYSTEM #3 TAN



2000 GAL. PRE-TREATMENT TANK & 4500 GALLON EQUALIZATION TANK

SET VALVES, FLOATS, AND TIMERS TO DELIVER A MAXIMUM OF 16 GAL./MIN., AND 74 GALLONS PER HOUR TO THE AEROBIC TREATMENT UNITS, TOTAL.

Install liquid chlorinator— 3000 GAL. PUMP TANK DETAIL of sufficient size for water entering the pump

phase from ATU supplier. (or equal) Wire pumps to operate alternately as the 1st. pump.

889 GAL.

NOTES:

THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:

Q COMPONENT Q TCEQ-COMPONENT = Q TOTAL-PARK-WATER-RECORDS

FOR SYSTEM 1 Q TCEQ COMPONENT:

3 BEDROOM <2500 SQ. FT. Q = 240 GPD OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES Q= 4 WASHING MACHINES (200 GPD / MACHINE) = 800 GPD

3 CABINS (AS AN APARTMENT)

Q= 100 GPD/ CABIN (3 CABINS) = 300 GPD

FOR SYSTEM 2 Q TCEQ COMPONENT

4 CABINS (AS AN APARTMENT)

Q= 100 GPD/ CABIN (4 CABINS) = 400 GPD 6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM) Q = 60 GPD / BED (6 BEDS) = 360 GPD

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

Q<sub>TCEQ</sub> COMPONENT = 2104 GPD SYSTEM #2

FOR SYSTEM 3 Q TCEQ COMPONENT

Q = 17 RV (40 GPD / RV) = 680 GPD

Q= 100 GPD/ CABIN (5 CABINS) = 500 GPD

LY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

COMPONENT

TEM #4 CEQ COMPONENT

GE FROM RV (33 TOTAL RV) =

= 364 GPD

CEQ FLOW

24 GPD + 400 GPD + 240 GPD= 6628 GPD

DIRECT RATIO FOR SYSTEM 1 Q COMPONENT:

1360 GPD TCEQ COMPONENT = 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT

4606 TOTAL PARK WATER RECORDS

O PERMITTED COMPONENT = 1463 GPD FOR SYSTEM #2

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

<u>2524 GPD TCEQ COMPONENT</u> = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 1755 GPD FOR SYSTEM #3

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

400 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 278 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT

240 GPD TCEQ COMPONENT =

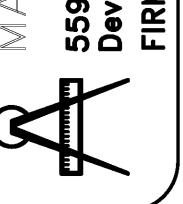
**Q COMPONENT** 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 167 GPD FOR SYSTEM #5

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> 80 0 O S 0  $\overline{\mathbf{0}}$ 96 Vin S O

(0)



**Date:** 4/4/22

**Revision:** c

**Drawn:** K. Crandall

Sheet: 2 of 2



10:10 am, Apr 07, 2022

# **FITE EVALUATION AND CALCULATIONS**

Site Evaluation:

**Soil Texture:** 

Clay loam

**Soil Structure:** 

**Blocky** 

Soil Depth:

0" to 18"

**Restrictive Horizon:** 

Rock horizon from 0" to 18" below surface

Groundwater:

None encountered

Topography:

Less 2% slope at spray areas

**Determination:** 

Site was determined to have a Class III soil with no groundwater

encountered. Due to the rock over the drainfield area an

the truit followed by spray irrigation will be installed. The

vstem shall the ca System gpd. R ce design be over ighout. 100-8497 avout. W

gpd

A Nu-Wat ollowed a spray built in pr ment tank irrigation system. (Reference the System Layout) Chlorinator is required for water entering pump tank. Liquid type chlorination shall be used.

Ri = 0.064 gal. / sq. ft. / day, (For location in Comal County)

Required Area.

A = Q / Ri, A = (240 gal. / day) / (0.064 gal. / sq. ft. / day) = 3750 sq. ft.

calculations continued on next page....

**Owner** 

Rebecca Creek Camprounds

Drawn by: Kaeleigh R. Crandall

Location Comal County, Texas

100-8496 Drawing No.

MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

Date:

3/10/22

Scale:

None

Sheet 1 of 5



# **EXALUATION AND CALCULATIONS**

## Calculations:

Install 1 sprinkler. The sprinkler is a K-Rain low angle type, with nozzle and spray radius as shown on the System Layout. See System Layout for spray pattern.

Proposed total area = 3848 sq. ft.

Overlap and masked area: 0 sq. ft.

Actual covered area = 3848 sq. ft. (Covered area is greater than required area)

A 1" ball valve will be installed just downstream of the pump either inside of or outside

radius(radii) of the sprinkler(s) to the value(s) shown on the System Layout. (Reference the attached data for pump curves and nozzle data.)

NOTES FOR INSTALLER (if applicable):

Do not c ect wate o sept

ent into a thout t arge The TCE ows ' iine wat n waste. iless the ns h ning this separate wa e of the m. ptic syste in p ng 1 water out om t

shall b -up or drained and dr Areas whe g of wat so that no

The design application rate is 0.062 gallons / sq. ft. / day

Dosing cycle quantity is 240 gallons, average. Use a commercial irrigation timer.

e number of dosing cycles per day is one (1).

**Owner** 

Rebecca Creek Camprounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

100-8496 Drawing No.

MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

FIRM NO. 5549

3/10/22 Date:

None Scale:

Sheet 2 of 5



# SITE EVALUATION AND CALCULATIONS

The design pressure at each sprinkler head is 30 to 40 psig.

The total length of supply pipe is as shown on the System Layout

Means of preventing siphoning is an anti-siphon valve.

Diameter of supply line is as shown on the System Layout.

Flow control valve is required downstream of the pump.

# NOTES TO OWNER OF SYSTEM: MAINTENANCE AND MANAGEMENT PRACTICES (if applicable):

A USSF should not be treated as if it were a normal city sewer system.

The excessive use of in-sink garbage grinders and grease discarding should be avoided.

Do not use the toilet to charge se of charge tissues, circuette butteres other trash.

Septic tanks all be good ed? A sludg sumu is to ant who approaches botto the et device previoled mexiting a tank with the liquid.

Septic tanks u e clear very two- ree esto estudge buildup.

Do not build days, storage ways, or other ruct ruct treatment works or its disposal field.

Chemical additives or the so-called enzymes are not necessary for the operation of a sptic tank. Some of these additives may be harmful to the tank's operation.

## continued next page......

**Owner** 

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

See sheet #1

**Drawing No.** 100-8496



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016

Phone: (830) 931-0400

FIRM NO. 5549

Date: 3/10/22

Scale: None

Sheet 3 of 5



10:10 am, Apr 07, 2022

# SITE EVALUATION AND CALCULATIONS

Soaps, detergents, bleaches, drain cleaners, and other household cleaning materials will very seldom affect the operation of the system. However, moderation should be exercised in the use of such materials.

It is not advisable to allow water softener back flush to enter into any portion of the OSSF.

Except for Aerobic systems, the liquid from the OSSF is still heavily laden with bacteria. Contact with this liquid should be avoided, if it surfaces.

## WATER CONSERVATION MEASURES (if applicable):

Showers usually use less water than baths. Install a water saving shower head that uses less than 2 1/2 gallons per minute and saves both water and energy.

If you take a tub bath, reduce the level of water in the tub from the level to which you customa

uickly as buld and Leaky fai up m epair

coloring to da trops of Check toi not be a es, the toilet bwl : n a few the tank. olor app nt w rom oy ving the stand fill or ballpipe, or the r at the

Reduce the amount of water used for flushing the toilet by installing one of the following: a new toilet (1.6 gallon); a toilet tank dam; or filling and capping one-quart plastic bottles with water (usually one is all that will fit in smaller toilet tanks) and lowering them into the tank of the existing 3.5 gallon or larger toilet. Do not use brig

continued next page......

**Owner** 

Rebecca Creek Camgrounds

Kaeleigh R. Crandall

Location

See sheet #1

100-8496 Drawing No.



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

Drawn by:

Date:

3/10/22

Scale:

None

Sheet 4 of 5



# SITE EVALUATION AND CALCULATIONS

Try to run the dishwasher with a full load, whenever possible.

Avoid running the water continuously for brushing teeth, washing hands, rinsing kitchen utensils, or for cleaning vegetables.

Use faucet aerators that restrict flow to no more than 2.2 gallons per minute to reduce water consumption.

Keep a container of drinking water in the refrigerator instead of running the faucet until the water turns cool.

Insulate all hot water pipes to avoid long delays of wasted water while waiting for the

Ask your city, county, or local government about their programs to conserve water, and how they can help you save water.



**Owner** 

Rebecca Creek Camgrounds

Drawn by:

Kaeleigh R. Crandall

Location

See sheet #1

Drawing No.

100-8496



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400

FIRM NO. 5549

Date:

3/10/22

Scale:

None

Sheet 5 of 5



# **REVISED**

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

10:08 am, Apr 07, 2022 APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Date \\\ 4	<u> </u>		Permit #
Mailing Address City, State, Zip Phone#	Spring Branch TX 78070 (830) 885-4035	Agent Address City, State, Zip Phone #	Michelle Wertheim 3660 Tangle Wood Trail Spring Branch. TX 78070 (830) 446-0048
Email	spondence should be sent to: X Owner Ag		Method: X Mail X Email
Sul division Nari Act age/Legal Str et Name/Act Tyl e of Develo  [   Single Fair Type of Con Number of Indicate Sq  [   Non-Sing Planning mat Type of Fair Offices, Fair	the N/A  14.23 a.c. Charles Murhart S  ddress BLLLO T ALW  ppmen  mily Ri tial  nstructi buse Je, RV  Bedroo  Ft of Lil V  gle Famil Itial  terials must snow adequate land area for the same	City  required Leader  Number Of Occup	d is and disposal area)
Miscellane	iler/RV Parks - Indicate Number of Spaces	U W Site	<u>S</u>
Is any portion ☐ Yes 🂢	n of the proposed OSSF located in the United Sta	ites Army Corps of	f Engineers (USACE) flowage easement?  provements within the USACE flowage easement)
By signing this a - The completed facts. I certify to property Authorization is site/soil evalua - I understand the	ring Devices Being Utilized Within the Residence's application, I certify that: I application and all additional information submitted do that I am the property owner or I possess the appropriates hereby given to the permitting authority and designate atton and inspection of private sewage facilities nat a permit of authorization to construct will not be issued to the online posting/public release of my e-materials.	nes not contain any fa te land rights neces ed agents to enter u ued until the Floodpla	alse information and does not conceal any material sary to make the permitted improvements on said pon the above described property for the purpose of ain Administrator has performed the reviews required
Signature of	Owner	Date	Page 1 of

# REVISED

10:08 am, Apr 07, 2022

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

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

SUSTEM 240 Planning Materials & Site Evaluation as Required Completed By System Description Size of Septic System Required Based on Planning Materials & Soil Evaluation Tank Size(s) (Gallons) \_ UOO you Absorption/Application Area (Sq Ft) \_ 3750 [42 Gallons Per Day (As Per TCEQ Table III) (Sites generating more than 5000 gallons per day are required to obtain a permit through TCEQ.) Is the property located over the Edwards Recharge Zone? 
Yes 
No (If yes, the planning materials must be completed by a Registered Sanitarian (R.S.) or Professional Engineer (P.E.)) e an existing TCEQ approved WPAP for the property? TYes X Is th the R.S. or P.E. shall certify that the OSSF design complies with all provisions of the existing WPAP.) If th ot (If ye be is Is th re is no existing CZP, does the proposed development activity require If th , the R.S. or P.E. shall certify that the OSSF design will comply with all provisions of the proposed CZP. A Permit to Construct will no

perty within an incorporated city? Yes 📉 No

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

If yes, indicate the city:

414122 Date

Page 2 of 2



# COMAL COUNTY OFFICE OF ENVIRONMENTAL HEALTH \* \* \* APPLICATION FOR PERMIT FOR AUTHORIZATION TO CONSTRUCT AN

ON-SITE SEWAGE FACILITY AND LICENSE TO OPERATE

Planning Materials & Site Evaluation as Required Completed By KAELE	IGH CRANDALL
System Description AEROBIC WITH DRIP IRRIGATION	
Size of Septic System Required Based on Planning Materials & Soil Eval	uation
Tank Size(s) (Gallons) (100 ayl HTV Absorption	n/Application Area (Sq Ft) 40042
Gallons Per Day (As Per TCEQ Table III)  (Sites generating more than 5000 gallons per day are required to obtain a permit	through TCEQ.)
Is the property located at the	N.
(If yes, the panning materials must be completed by a Registered Sanitarian (R.S.	S.) or Professional Engineer (P.E.))
Is there a lexisting TCEQ approved WPAP for the property? Yes (If yes, the R.S. or P.E. shall certify that the OSSE design complies with all provis	
If there is no existing WP loes the lose copme vity re	a T( approv \AP? ☐ Yes ☒ No
(If yes, the R.S. or P.E. shall be issued or the proposed C until opos PAP has bee	ns of roposed V. A Permit to Corstruct will not ate regions e.)
Is the property located over / /rds Co ting Zone? //es	No
Is there are existing TCEQ and ICZP for the Yes	No
(If yes, the P.E. or R.S. shall certify that the OSSF design complies with all provis	ions of the existing CZP.)
If there is to existing CZP, does the proposed development activity requi	re a TCEQ approved CZP? Yes No
(If yes, the R.S. or P.E. shall certify that the OSSF design will comply with all provissued for the proposed OSSF until the OZF has been approved by the appropria	
Is this property within an incorporated city?   Yes   No	
If yes, indicate the city:	
By signing this application, I certify that:  - The information provided above is true and correct to the best of my knowledge.  - I affirmatively consent to the online posting/public release of my e-mail address	
Signature of Designer Date	Page 2 of 2

## Olvera, Brandon

From: Olvera, Brandon

Sent: Tuesday, December 20, 2022 10:31 AM

**To:** 'Stephen Mangold'

**Cc:** Rebecca Creek Campgrounds

**Subject:** RE: FW: Rebecca Creek As-built for System 4 & 5

#### Good Morning,

File has been updated.

#### Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Stephen Mangold <stevemangold1@gmail.com>

**Sent:** Friday, December 16, 2022 11:04 AM **To:** Olvera,Brandon < Olverb@co.comal.tx.us>

Cc: Rebecca Creek Campgrounds <rebeccacreekcampgrounds@gmail.com>

Subject: Re: FW: Rebecca Creek As-built for System 4 & 5

## This email originated from outside of the organization.

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

- Comal IT

#### Brandon,

Attached is the signed application from me. This job we are permitting the water records but sizing the systems to accommodate the TCEQ flow. The flow on the application is correct.

System 2&3 aren't installed yet. We are hoping to complete 4 & 5 and move on to the other 2 systems.

Thank you, Kaeleigh

## Mangold Engineering Company

5596 County Road 5710 Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912 Kaeleigh Crandall, P.E. Cell: (830) 931-0400

On Fri, Dec 16, 2022 at 10:32 AM Olvera, Brandon < Olverb@co.comal.tx.us > wrote:

#### Good Morning,



a. Application page 2

- i. GPD for 7 RV's would be 280
- ii. Needs signature of the designer



- a. Applications, need to be signed by the owner
- 3. Revise accordingly and resubmit

#### Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

**From:** Stephen Mangold < <a href="mailto:stevemangold1@gmail.com">stevemangold1@gmail.com</a>>

Sent: Wednesday, December 14, 2022 3:06 PM

To: Rebecca Creek Campgrounds < rebeccacreekcampgrounds@gmail.com >

**Cc:** Olvera,Brandon < <u>Olverb@co.comal.tx.us</u>>

Subject: Re: FW: Rebecca Creek As-built for System 4 & 5

## This email originated from outside of the organization.

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- Comal IT

Brandon,

I attached my documents with Rebecca Creeks Signed applications. I also updated the overall drawing. Please let me know if you need anything else.

Thank you,

Kaeleigh

## Mangold Engineering Company

5596 County Road 5710

Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912

Kaeleigh Crandall, P.E. Cell: (830) 931-0400

On Wed, Dec 14, 2022 at 12:42 PM Rebecca Creek Campgrounds < <a href="mailto:rebeccacreekcampgrounds@gmail.com">rebeccacreekcampgrounds@gmail.com</a>> wrote:

attached signed apps

On Mon, Dec 12, 2022 at 9:22 AM Olvera, Brandon < Olverb@co.comal.tx.us > wrote:

RE: 3660 Tanglewood Trail

Property Owner & Agent,

We received planning materials for the referenced permit application on 04-07-2022 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:



- a. Revise application to show new number of RV sites
- b. Revise application to show new absorption area and GPD
- c. Application Needs to have the owners signature and date
- d. On the design, the exploded view shows only 19 drip lines, the notes mention 20



- a. Revise application to show new number of RV sites
- b. Revise application to show new absorption area and GPD
- c. Revise system description to show a the drip irrigation
- d. Application Needs to have the owners signature and date
- e. On the design, exploded view shows 70 lines, however there are 10 at 70ft.



- a. All applications need to have the owners signature and Date.
- 4. Revise accordingly and resubmit.

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

Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

From: Stephen Mangold < <a href="mailto:stevemangold1@gmail.com">stevemangold1@gmail.com</a>>

Sent: Wednesday, December 7, 2022 2:41 PM

To: Ritzen, Brenda < <a href="mailto:rebeccacreekcampgrounds@gmail.com">rebeccacreekcampgrounds@gmail.com</a>>

Subject: Rebecca Creek As-built for System 4 & 5

# This email originated from outside of the organization.

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

- Comal IT

Hi Brenda,

Michelle with Rebecca Creek contacted me to draw as builts for system 4 & 5. The installer should be calling for an inspection.

Please call me if you have any questions.

Thank you,

Kaeleigh

## **Mangold Engineering Company**

5596 County Road 5710

Devine, Texas 78016

Stephen Mangold, P.E. Cell: (210) 213-3912

Kaeleigh Crandall, P.E. Cell: (830) 931-0400

## Olvera, Brandon

From: Olvera, Brandon

Sent: Wednesday, January 11, 2023 9:49 AM

To: 'Stephen Mangold'; 'Rebecca Creek Campgrounds'; 'rebeccacreekgrounds@gmail.com'

**Subject:** 3660 Tanglewood Trail

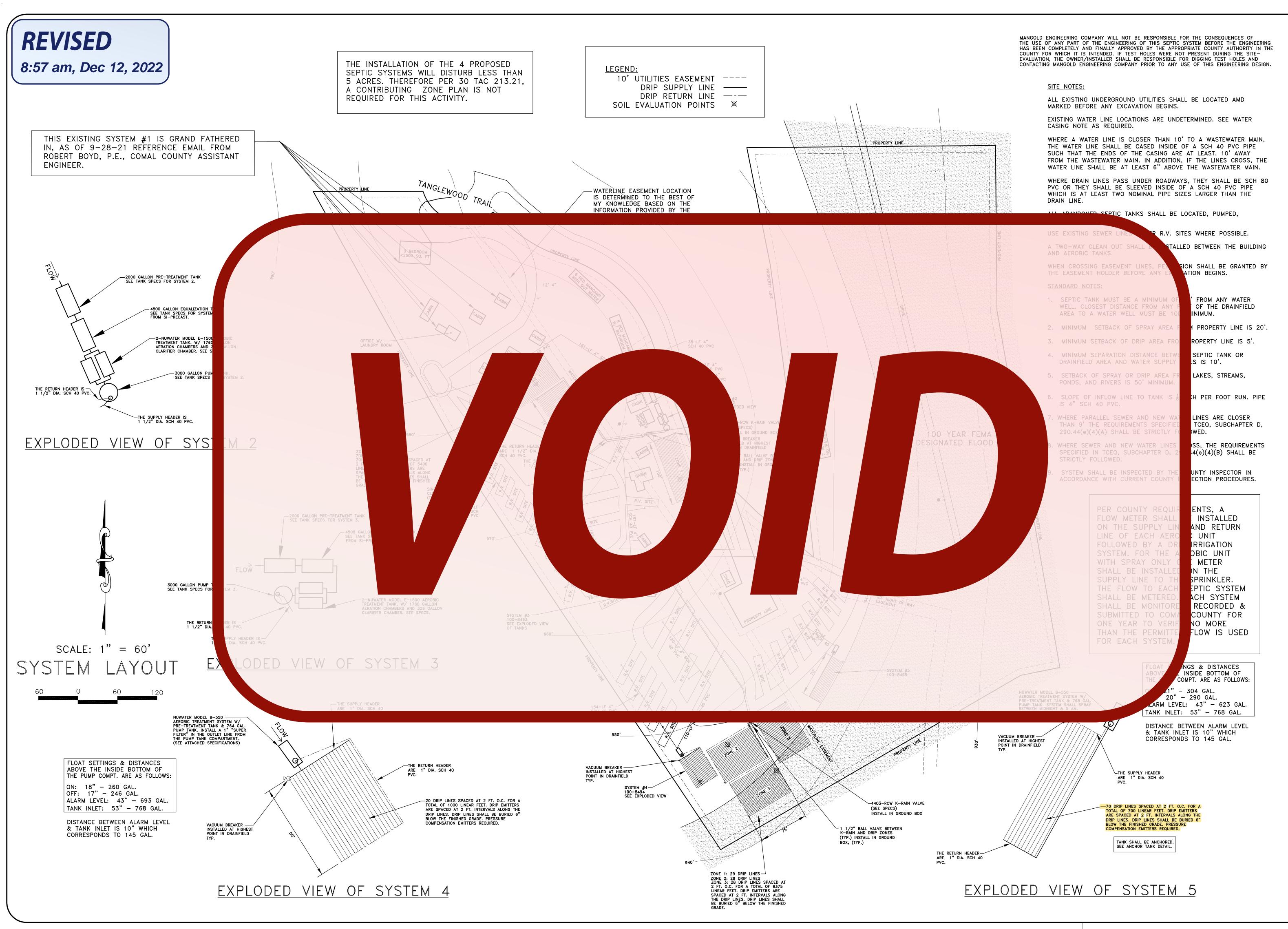
RE: 3660 Tanglewood Trail

Property Owner & Agent,

We received planning materials for the referenced permit application on 11-18-2021 and found those planning materials to be deficient. In order to continue processing this permit, we need the following:



a. The drip lines that cross over the 100 year floodplain need to meet the requirements below.



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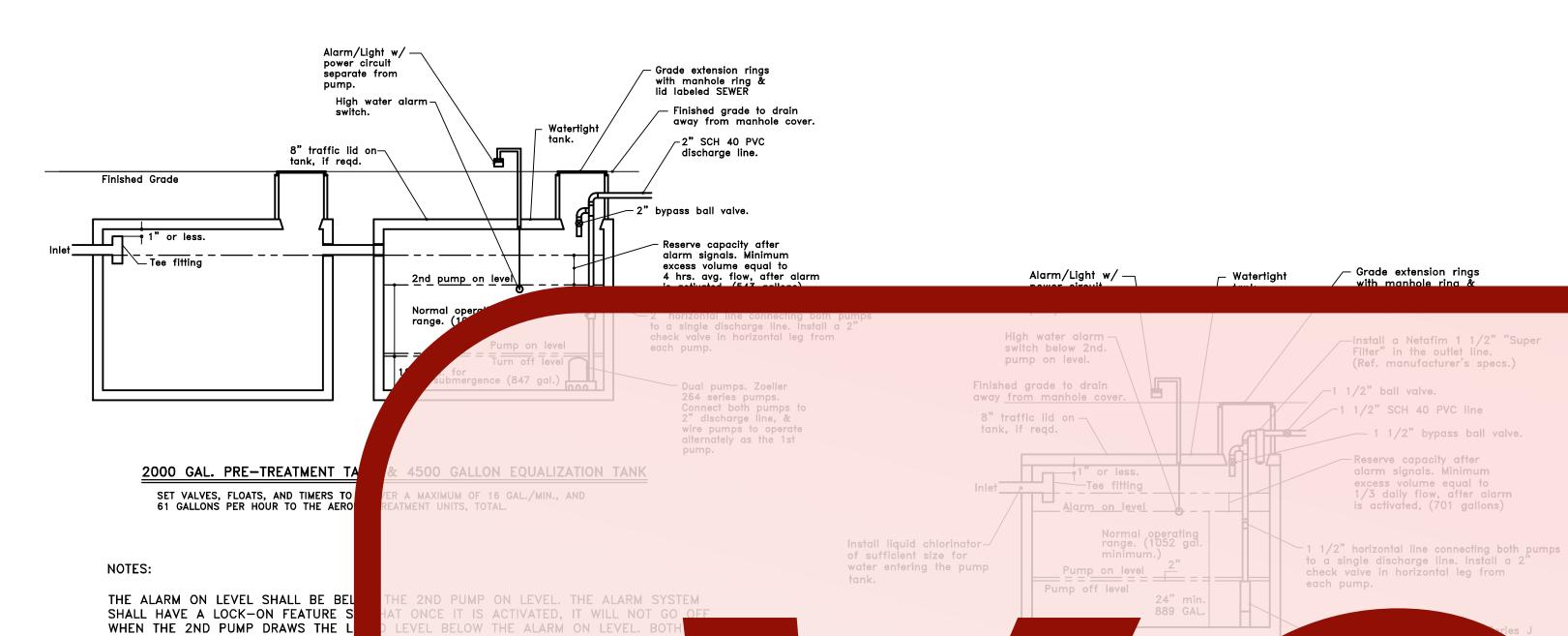
Revision: E

**Drawn:** K. Crandall

**Sheet:** 1 of 2



8:57 am, Dec 12, 2022



EXTERNAL POWER WIRING SHALL BE TERMINATED AT A MAIN CIRCUIT BRE. COMPONENTS SHOULD HAVE AN ELEC L DISCONNECT WITHIN DIRECT VISION. ELEC' DISCONNECTS MUST BE WEATHERPRO MAINTENANCE LOCKOUT PROVISIONS. USE A LARGER TANK IF REQUIRED TO

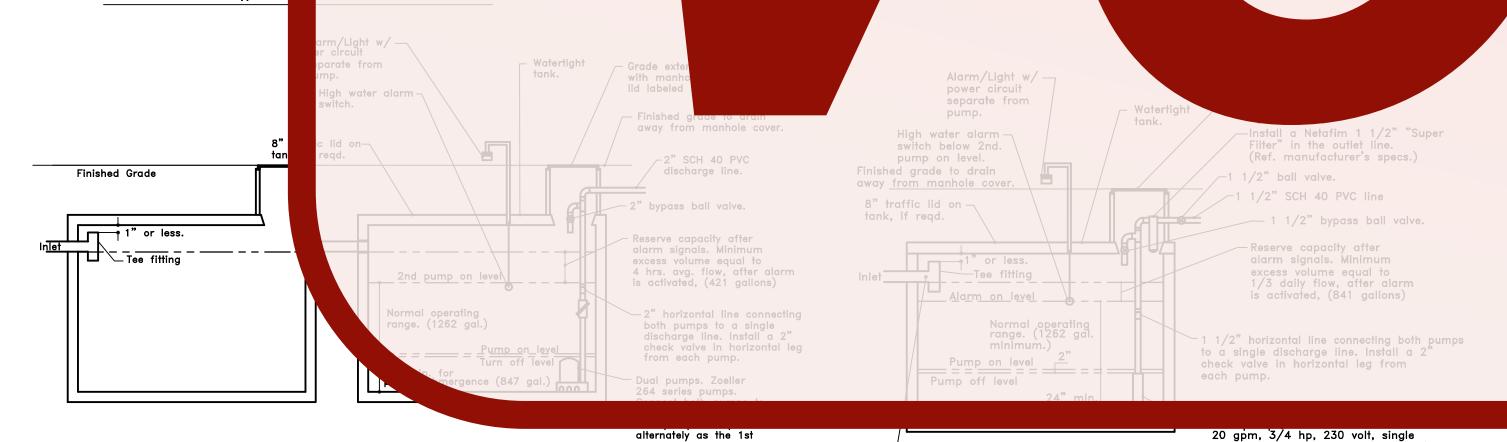
DRDANCE WITH THE MOST RECENT EDITION

SYSTEM #3 NK SPECS:

AND VISUAL ALARMS SHALL HAVE A

ALL ELECTRICAL WIRING SHALL BE IN

NATIONAL ELECTRIC CODE. CONNECTION



2000 GAL. PRE-TREATMENT TANK & 4500 GALLON EQUALIZATION TANK

SET VALVES, FLOATS, AND TIMERS TO DELIVER A MAXIMUM OF 16 GAL./MIN., AND 74 GALLONS PER HOUR TO THE AEROBIC TREATMENT UNITS, TOTAL.

Install liquid chlorinator— of sufficient size for 3000 GAL. PUMP TANK DETAIL water entering the pump

NOTES:

THE ALARM ON LEVEL SHALL BE BELOW THE 2ND PUMP ON LEVEL. THE ALARM SYSTEM SHALL HAVE A LOCK-ON FEATURE SO THAT ONCE IT IS ACTIVATED, IT WILL NOT GO OFF WHEN THE 2ND PUMP DRAWS THE LIQUID LEVEL BELOW THE ALARM ON LEVEL. BOTH AUDIO AND VISUAL ALARMS SHALL HAVE A MANUAL SILENCE SWITCH.

phase from ATU supplier. (or equal)

Wire pumps to operate alternately

as the 1st. pump.

ALL ELECTRICAL WIRING SHALL BE IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE NATIONAL ELECTRIC CODE. CONNECTIONS SHALL BE IN APPROVED JUNCTION BOXES AND ALL EXTERNAL POWER WIRING SHALL BE IN APPROVED ELECTRICAL CONDUIT, BURIED, AND TERMINATED AT A MAIN CIRCUIT BREAKER PANEL OR SUB-PANEL. ALL ELECTRICAL COMPONENTS SHOULD HAVE AN ELECTRICAL DISCONNECT WITHIN DIRECT VISION. ELECTRICAL DISCONNECTS MUST BE WEATHERPROOF (APPROVED FOR OUTDOOR USE) AND HAVE MAINTENANCE LOCKOUT PROVISIONS.

USE A LARGER TANK IF REQUIRED TO MEET MINIMUM STORAGE REQUIREMENTS.

## CALCULATIONS TO DETERMINE PERMITTED FLOW FOR COMAL COUNTY:

Q COMPONENT

THE PERMITTED FLOW FOR EACH SYSTEM IS BASED ON WATER RECORDS PROVIDED BY THE OWNER OVER AN ENTIRE YEAR. THE TCEQ DAILY FLOW FOR THE PARK SHALL BE USED TO SIZE EACH SYSTEM. A DIRECT RATIO WILL BE USED TO DETERMINE HOW THAT WATER IS DISTRIBUTED THROUGHOUT THE PARK FOR THE PERMIT APPLICATIONS. SEE CALCULATIONS BELOW.

MAXIMUM DAILY DEMAND FROM FEBRUARY LODGE WATER (100510 GALLONS) AND APRIL CABINS WATER RECORDS (30480 GALLONS)

100510 GALLONS / 28 DAYS OF FEBRUARY = 3590 GPD 30480 GALLONS / 30 DAYS OF APRIL = 1016 GPD  $Q_{TOTAL-PARK-WATER-USAGE} = 4606 GPD$ 

DIRECT RATIO EQUATION:

Q TCEQ-COMPONENT = Q TCEQ-TOTAL-PARK Q TOTAL-PARK-WATER-RECORDS

FOR SYSTEM 1 Q TCEQ COMPONENT:

3 BEDROOM <2500 SQ. FT. Q = 240 GPD OFFICE W/5 EMPLOYEES Q= 5 EMPLOYEES(4 GPD/ PERSON)=20 GPD LAUNDRY ROOM W/ 4 WASHING MACHINES

Q = 100 GPD/ CABIN (3 CABINS) = 300 GPD

 $Q_{TCEQ\ COMPONENT} = 1360\ GPD\ SYSTEM\ #1$ 

FOR SYSTEM 2 Q TCEQ COMPONENT

4 CABINS (AS AN APARTMENT)

Q = 100 GPD / CABIN (4 CABINS) = 400 GPD6 BED MANCAMP WITH 1 COMMON BATHROOM (SIZED AS HOTEL ROOM)

SHOWER HOUSE Q = 1344 GPD (TOTAL BATH USAGE EQUALLY DIVIDED AMONGST BOTH SHOWER HOUSES. SEE

Q<sub>TCEQ</sub> COMPONENT = 2104 GPD SYSTEM #2

Q = 60 GPD / BED (6 BEDS) = 360 GPD

FOR SYSTEM 3 Q TCEQ COMPONENT:

Q = 17 RV (40 GPD / RV) = 680SEQ = 134

STEM #3 EQ COMPONENT

FOR SYSTEM 4

STEM #4

CEQ COMPONEN

SITES (40

YSTEM #5 Q<sub>TCEQ</sub> COMPON

RV (33 TOTAL RV) =

Q<sub>TCEQ-TOTAL-COMPONENT</sub>=1360 GPD + 2104 GPD + 2524 GPD + 360 GPD + 280 GPD= 6628 GPD

DIRECT RATIO FOR SYSTEM 1 Q COMPONENT:

4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 946 GPD FOR SYSTEM #1

DIRECT RATIO FOR SYSTEM 2 Q COMPONENT

4606 TOTAL PARK WATER RECORDS

DIRECT RATIO FOR SYSTEM 3 Q COMPONENT:

<u>2524 GPD TCEQ COMPONENT</u> = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 1755 GPD FOR SYSTEM #3

DIRECT RATIO FOR SYSTEM 4 Q COMPONENT:

360 GPD TCEQ COMPONENT = Q COMPONENT 4606 TOTAL PARK WATER RECORDS 6628 TCEQ TOTAL

Q PERMITTED COMPONENT = 251 GPD FOR SYSTEM #4

DIRECT RATIO FOR SYSTEM 5 Q COMPONENT:

280 GPD TCEQ COMPONENT = 6628 TCEQ TOTAL

Q COMPONENT 4606 TOTAL PARK WATER RECORDS

Q PERMITTED COMPONENT = 195 GPD FOR SYSTEM #5

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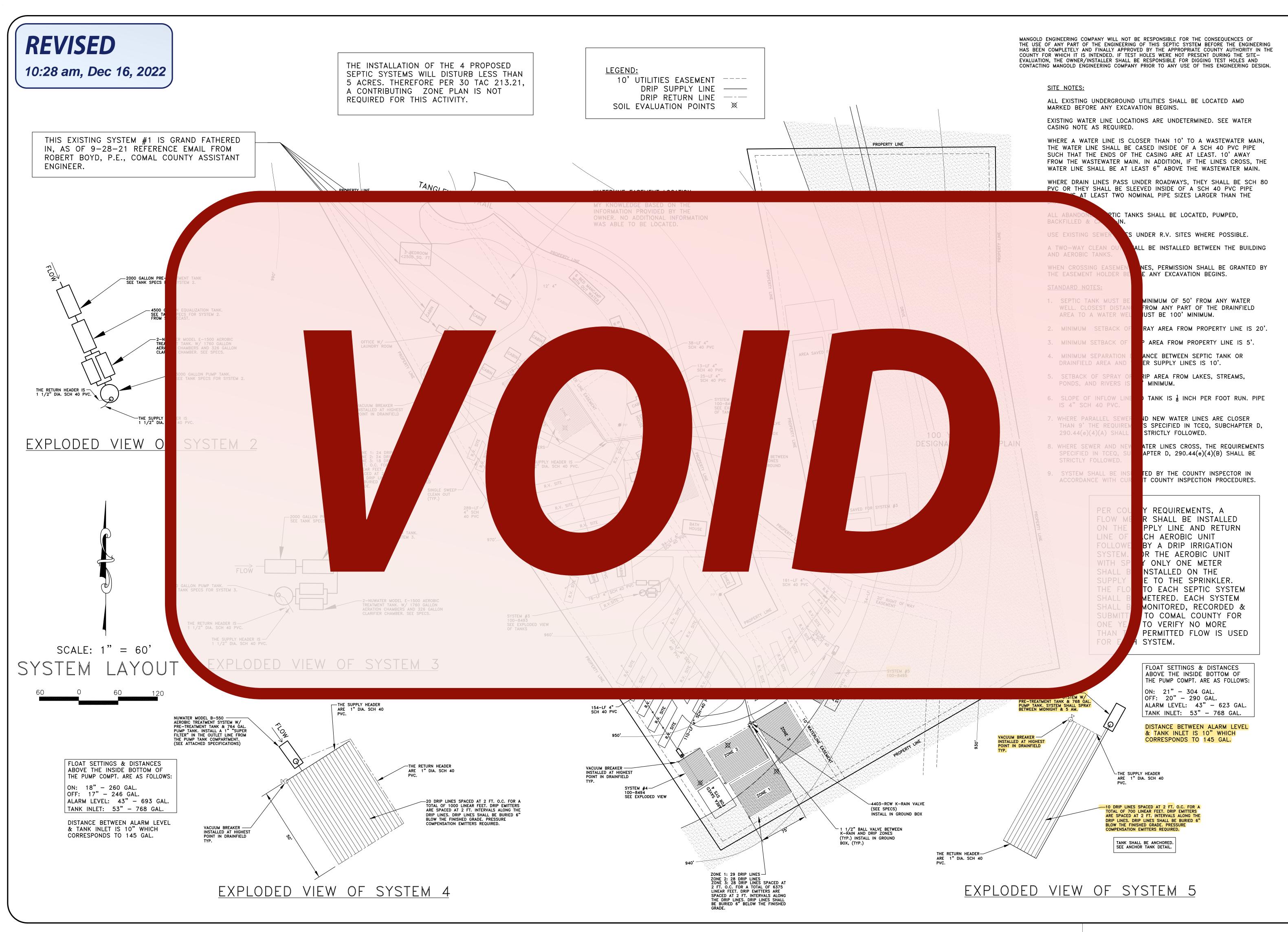
**Date:** 12/7/22

Revision: E

**Drawn:** K. Crandall

**Sheet:** 2 of 2





REBECCA CREEK CAMPGROUNDS

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For:

LAMOO SULLENING COMPANY

SS96 CR Devine, T FIRM NO.

**)wg:** 100-8497

ate: 12/14/22

Revision: F

**Drawn:** K. Crandall

Sheet: 1 of 2

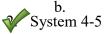


## §285.31. SELECTION CRITERIA FOR TREATMENT AND DISPOSAL SYSTEMS.

- (a) General Requirement. The type and size of an OSSF shall be determined on to of the soil and site information developed according to §285.30 of this title (relating to Evaluation).
- (b) Suitability. A standard subsurface absorption system may be used if all the s site criteria are determined to be suitable under §285.91(5) of this title (relating to Tabl one or more of the soil and site criteria categories are determined to be unsuitable, a stasubsurface absorption system cannot be used except as noted in §285.91(5) of this title. determined that a standard subsurface absorption system cannot be used, either a prop or a non-standard system may be used, provided all soil and site criteria for that system met as required in §285.91(13) of this title.
  - (c) Surface drainage criteria.
- (1) Topography. Uniform slopes under 30% are suitable for standard subabsorption systems. If the slope is less than 2%, steps shall be taken to ensure there is a surface drainage over any subsurface disposal field. The excavation for a standard subsabsorption system shall be parallel to the contour of the ground.
- (2) Flood hazard. Any potential OSSF site within a 100-year floodplain is to special planning requirements. The OSSF shall be located so that a flood will not dan OSSF during a flood event, resulting in contamination of the environment. Planning masshall indicate how tank flotation is eliminated. Additionally, if the site is within the regulation of the environment of the regulation of the site is within the regulation of the site is within the regulation.
  - (A) the system shall not increase the height of the flood;
- (B) all components, with the exception of risers, chlorinators, cle sprinklers, and inspection ports, shall be completely buried without adding fill; and
- (C) non-buried components (e.g. alarms, junction boxes, and compressors) shall be elevated above the 100-year flood elevation.
- (d) Separation requirements. OSSFs shall be separated from features, in the are the OSSF is to be installed, that could be contaminated by the OSSF or could prevent th operation of the system. The separation requirements are in §285.91(10) of this title.

Adopted May 23, 2001

Effective June



- a. Per our inspectors notes, we will need a revision on the tank types that were used.
  - i. System 4- Si Tank/ ProFlo control panel
  - ii. System 5- Si Tank/ Areis Aerobic control panel

Per our conversation, since the tank on system 5 is not in the floodplain, it is to your discretion on the anchors for the tank.

4. Revise accordingly and resubmit.

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

Thank You,

Brandon Olvera | Designated Representative | Comal County | www.cceo.org

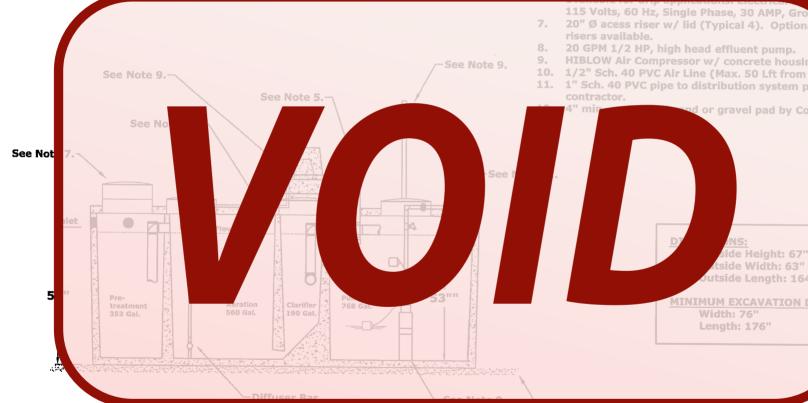
195 David Jonas Dr, New Braunfels, TX-78132 | t: 830-608-2090 | f: 830-608-2078 | e: olverb@co.comal.tx.us

# **Assembly Details**

**OSSF** 

## **REVISED**

10:31 am, Apr 07, 2022



#### **GENERAL NOTES:**

- Plant structure material to be precast concrete and steel.
- Maximum burial depth is 30" from slab top to grade.
- Weight = 14,900 lbs.
- Treatment capacity is 600 GPD. Pump compartment set-up for a 360 GPD Flow Rate (4 beedroom, < 4,000 sq/ft living aera). Please specify for additional set-up requirements. BOD Loading = 1.62 lbs. per day,
- Standard tablet chlorinator or Optional Liquid chlorinator. NSF approved chlorinators (tablet & liquid) available.
- Bio-Robix B-550 Control Center w/ Timer for night spray application. Optional Micro Dose (min/sec)timer wirement to be
- led Receptacle. 20" Ø acess riser w/ lid (Typical 4). Optional e ension
- 20 GPM 1/2 HP, high head effluent pump.
- HIBLOW Air Compressor w/ concrete housing.
- 10. 1/2" Sch. 40 PVC Air Line (Max. 50 Lft from Plant)
- 11. 1" Sch. 40 PVC pipe to distribution system provide

l or gravel pad by Contract

utside Length: 164"

MINIMUM EXCAVATION DIMEN ONS: Width: 76" Length: 176"

└─See Note 12.

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

Model: B-550-PC-400PT

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

#### Scale:

Dwg. #: ADV-B550-3



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

# SITE EVALUATION AND CALCULATIO 9:01 am, Dec 12, 2022

REVISED

Site Evaluation:

Soil Texture:

Clay loam

Soil Structure:

Blockv

Soil Depth:

18" minimum

Restrictive Horizon:

At 18" min. from surface

Groundwater:

None encountered

Topography:

More than 2% slope on drainfield area

rock horizon an aerobic treatment unit followed by drip irrigation sha

C culations:

> System # w o oughout.

RV)= 280 d

A Nu-Water Model B-550 aerobic treatment system, or equal, shall be installed. It has built in pre-treatment tank and pump tank. The aerobic unit shall be a drip irrigation

Ra = 0.20 gal. / sq. ft. / day,(For a Class III soil)

A = Q / Ra, A = (280 gal. / day) / (0.20 gal. / sq. ft. / day) = 1400 sq. ft.

calculations continued on next page....

Owner

Rebecca Creek Camgrounds

Drawn by: Kaeleigh R. Crandall

Location

Comal County, Texas

Drawing No.

100-8495E



MANGOLD Engineering Company

5596 CR 5710 Devine, TX 78016 Phone: (830) 931-0400 Date:

12/5/22

Scale:

None

Sheet 1

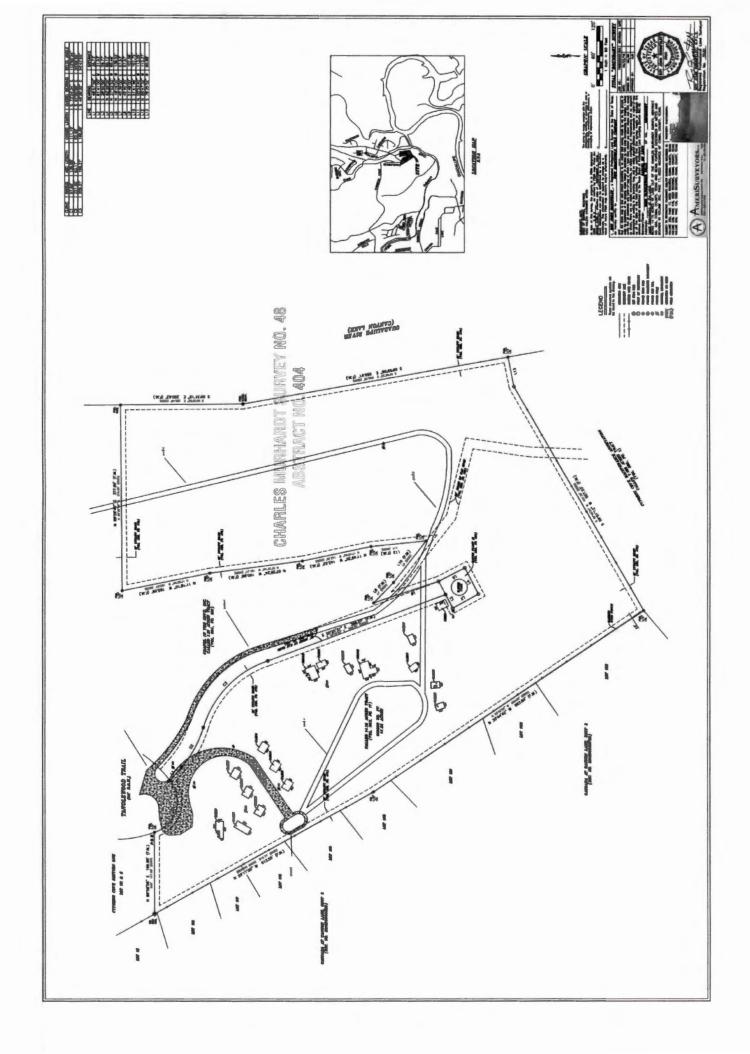
of



# **OSSF DESIGN**

for Rebecca Creek Campgrounds

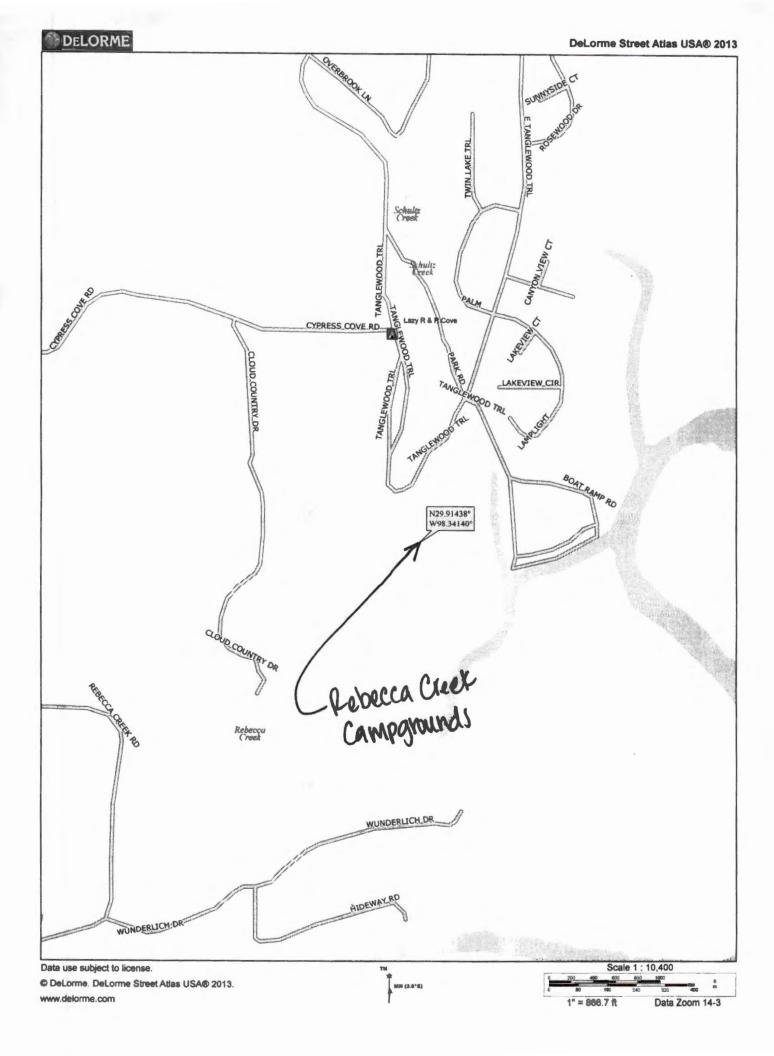
Survey



# **OSSF DESIGN**

for Rebecca Creek Campgrounds

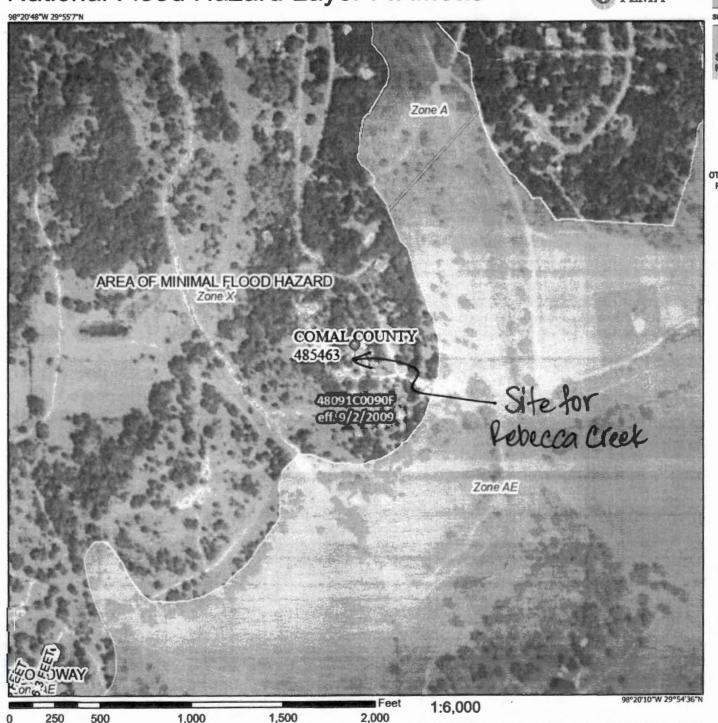
**Maps** 



# National Flood Hazard Layer FIRMette



Baseman: USGS National Map: Ortholmagery: Data refreshed October, 2020



#### Legend

Without Base Flood Elevation (BFE)
Zone A. V. A99 With BFE or Douth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee, See Notes, Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D e screen: Area of Minimal Flood Hazard Zone X **Effective LOMRs** OTHER AREAS Area of Undetermined Flood Hazard Zone D GENERAL - -- Channel, Culvert, or Storm Sewer STRUCTURES | | | | Levee, Dike, or Floodwall Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation - Coastal Transact Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature **Digital Data Available** No Digital Data Available

> The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

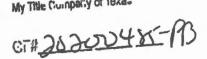
MAP PANELS

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was experted on 9/30/2021 at 4:13 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

Unmapped

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale ber, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

My Title Company of Texa-



#### WARRANTY DEED WITH VENDOR'S LIEN

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

Date:

Grantor:

RAFAEL DE LEON, an unmarried man

Grantor's Address: 3660 Tanglewood Trl, Spring Branch, TX 78070

Grantee:

REBECCA CREEK CAMPGROUNDS, LLC

Grantee's Address: 3660 Tanglewood Trl, Spring Branch, TX 78070

Consideration: TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable consideration, and a note of even date herewith, executed by Grantee, payable to the order of Grantor (the "Note"). It is secured by a vendor's lien retained in this deed and by a deed of trust of even date from Grantee to MATTHEW J. BADDERS, Trustee.

Property (including any Improvements):

Being 14.23 acres of land out of the Charles Murhardt Survey, Abstract No. 404, Comal County, Texas, and being further described by metes and bounds in Exhibit "A" attached.

Being 2.0 acres of land out of the Charles Murhardt Survey, Abstract No. 404, Comal County, Texas, and being further described by metes and bounds in Exhibit "B", attached.

#### Reservations from Conveyance; Exceptions to Conveyance and Warranty:

This conveyance is made and accepted subject to conditions, restrictions, and easements appearing of record, if any, in Cornal County, Texas, which affect the hereinabove described property; and

#### Conveyance:

Grantor, for the Consideration and subject to the Reservations from Conveyance and 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 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 is fully paid according to its terms, at which time this deed will become absolute.

This conveyance is made <u>subject to</u> the prior lien ("Underlying Lien") of a deed of trust recorded as Instrument Number 201506025975, Real Property Records of Comal County, Texas, to EDWARD L. LETTE, Trustee thereunder, which secures payment of a promissory note ("Underlying Lien Debt") in the original principal amount of FOUR HUNDRED AND SIXTY-FIVE THOUSAND DOLLARS (\$465,000.00). Grantee in this deed does not assume payment of that Underlying Lien Debt; provided, however, that any payments advanced by Grantee applied directly to the Underlying Lien Debt principal shall be applied to reduce the principal balance of the Note. As further consideration Grantor promises to keep and perform all of the covenants and obligations of the grantor named in the Underlying Lien deed of trust and to indemnify, defend, and hold Grantee harmless against any damages caused by Grantor's breach of its obligation under the Underlying Lien Debt and related documents, as long as Grantee is not in default on the Underlying Lien Debt and documents relating to it.

When the context requires singular nouns and pronouns include the plural. EXECUTED this the \_\_\_\_\_\_ day of April, 2021.

Majael de Leon

STATE OF TEXAS

COUNTY OF GOMAL

nonon

This instrument was acknowledged before me on the \_\_\_\_ day of 2021, by RAFAEL DE LEON.

THERESA ANN WERNETTE
Notary Public, State of Texas
Coulain, Expires 05-05-2022
Notary ID 5146360

Notary Public, State of Texas

#### Exhibit A

#### METES & BOUNDS DESCRIPTION

OF A 14.23 (CALLED 14.15) ACRE TRACT OF LAND OUT OF THE CHARLES MURHARDT SURVEY, ABSTRACT NO. 404, COMAL COUNTY, TEXAS, BEING THE SAME TRACT OF LAND AS DESCRIBED IN A DEED FROM ROEDERER ENTERPRISES, LLC TO RICHARD ROEDERER IN DOCUMENT NO. 200906004161, OFFICIAL PUBLIC RECORDS OF COMAL COUNTY, TEXAS, SAID TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING at a found ½" iron rod in the cul-de-sac of Tanglewood Trail (a 50' Public R.O.W.) for the most westerly northeast corner of the herein described tract, the southeast corner of Lot 1R and 5, Cypress Cove Subdivision Section One, as recorded in Vol. 1, Pg. 45, Map and Plat Records of Comal County, Texas, said rod being a point of curvature:

THENCE along and with a non-tangent curve to the left with the following parameters:

Radius: 67.00 feet Arc Length: 130.98 feet Chord Length: 111.10 feet

Chord Bearing: South 73°24'34" East

Delta Angle: 112°00'24"

To a set ½" iron rod for an angle point, the northwest corner of a 30' Ingress-Egress Easement as recorded in Vol. 296, Pg. 130, Deed Records of Comal County, Texas, the northwest corner of a called 1.31 acre tract as described in a deed to Chapel in the Cove recorded in Vol. 334, Pg. 331, Deed Records of Comal County, Texas;

THENCE along and with said easement, South 48°57'00" East, a distance of 35.73 feet to a set ½" iron rod for a point of curvature;

THENCE along and with a tangent curve to the left with the following parameters:

Radius: 221.50 feet Arc Length: 93.17 feet Chord Length: 92.48 feet

Chord Bearing: South 61°00'00" East

Delta Angle: 24°06'00"

To a set 1/2" iron rod for a point of reverse curvature;

THENCE along and with a tangent curve to the right with the following parameters:

Radius: 205.27 feet Arc Length: 196.27 feet Chord Length: 188.88 feet

Chord Bearing: South 45°39'30" East

Delta Angle: 54°47'00"

To a set 1/2" iron rod for a point of tangency;

THENCE continuing along and with said easement, South 20°25'31" East, a distance of 388.07 feet (called South 18°16'00" East, a distance of 399.55 feet) to a set ½" iron rod for an angle point of the herein described tract, a point in the north boundary line of Water Plant No. 1, as recorded in Vol. 296, Pg. 125, Deed Records of Comal County, Texas:

THENCE along and with the common boundary line of the herein described tract and said Water Plant No. 1, the following courses and distances:

South 61°41'00" West, a distance of 31.53 feet to a set ½" iron rod for an angle point of the herein described tract, the northwest corner of said Water Plant No. 1;

South 28°50'00" East, a distance of 59.77 feet to a set '4" iron rod for an angle point of the herein described tract, the southwest corner of said Water Plant No. 1;

North 62°20'00" East, a distance of 60.12 feet to a set 1/2" iron rod for an angle point of the herein described tract, the southeast corner of said Water Plant No. 1;

North 27°02'52" West, a distance of 60.46 feet to a set ½" iron rod for an angle point of the herein described tract, the intersection of said 30' easement and said Water Plant No. 1;

**THENCE** along the common boundary of the herein described tract and said 1.31 Acre Tract, the following courses and distances:

North 18°16'00" West, a distance of 139.52 feet to a found 1/2" iron rod for an angle point;

South 45°40'30" East, a distance of 57.57 feet (called South 45°39'00" East, a distance of 57.53 feet) to a found 1/4" iron rod for an angle point;

South 51°41'46" East, a distance of 107.75 feet (called South 51°48'00" East, a distance of 107.56 feet) to a found ½" iron rod for an angle point;

North 05°47'32" West, a distance of 113.27 feet (called North 05°53'40" West, a distance of 113.05 feet) to a found ½" iron rod for an angle point;

North 11°48'30" West, a distance of 143.52 feet (called North 11°43'40" West, a distance of 143.30 feet) to a found ½" iron rod for an angle point;

North 07°28'24" West, a distance of 190.98 feet (called North 07°27'40" West, a distance of 191.21 feet) to a found 1/2" iron rod for an angle point;

North 11°18'10" West, a distance of 183.08 feet (called North 11°20'40" West, a distance of 183.01 feet) to a found '\( \)" iron rod for the most easterly northwest corner of the herein described tract, an angle point of said 1.31 Acre Tract;

North 89°29'40" East, a distance of 377.90 feet (called North 89°29'58" East, a distance of 378.05 feet) to a found pipe for the northeast corner of the herein described tract, the most easterly southeast corner of said 1.31 Acre Tract, a point in the banks of the Guadalupe River (Canyon Lake);

THENCE along and with the meanders of said River, the following courses and distances:

South 00°31'15" East, a distance of 250.63 feet (called South 00°30'00" East, a distance of 250.48 feet) to a found concrete monument for an angle point;

South 09°59'06" East, a distance of 550.91 feet (called South 09°59'33" East, a distance of 550.70 feet) to a found '\( \alpha'' \) iron rod for the southeast corner of the herein described tract;

South 78°35'52" West, a distance of 60.88 feet to a point of reference for an angle point;

South 59°51'12" West, a distance of 527.23 feet (called South 59°48'24" West, a distance of 527.36 feet) to a found ½" iron rod for the southwest corner of the herein described tract, the most easterly corner of Lot 123, Cascada at Canyon Lake Unit 2, as recorded in Doc. No. 201203035725, Official Public Records of Comal County, Texas;

THENCE with the common boundary of the herein described tract and said Cascada Tract, North 33°44'42" West, a distance of 663.84 feet (called North 33°45'26" West, a distance of 663.95 feet) to a found ½" iron rod for an angle point;

THENCE continuing along and with said boundary, North 29°11'00" West, a distance of 513.55 feet (called North 29°11'00" West, a distance of 513.74 feet) to a found 60d nail for the northwest corner of the herein described tract, the southwest corner of said Lot 1R and Lot 5, Cypress Cove Section One;

THENCE along and with the common boundary of the herein described tract and said Lot 1R and 5, North 89°58'56" East, a distance of 166.95 feet (called East, a distance of 167.08 feet) to the POINT OF BEGINNING and containing 14.23 acres, more or less.

STATE OF TEXAS §

June 25, 2015

COUNTY OF BEXAR §

It is hereby certified that the above description was prepared from an actual survey on the ground of the described tract made under my supervision.

Roy John Konnfeldt, Registered Professional Land Surveyor Registration No. 3520

#### EXHIBIT "B"

#### FIELD NOTES DESCRIBING 2.0 ACRES OF LAND IN COMAL COUNTY, TEXAS

Being 2.0 acres of land situated within the Charles Murhardt Survey Number 48, Abstract 404, Comai County, Texas. Said 2.0 acres of land being that same property, called Tract 2, as described in Warranty Deed of Assumption dated September 13, 1983, Grantor: Howard D. Spandan, Grantse: James Fl. Boriack and wife, Calla G. Boriack, recorded in volume 352, page 17 of the Deed Records of County County, Texas. A plat of survey has been prepared to accompany these field notes. The bearings recited herein are based on the hereinabove Tract 2 recorded in volume 352, page 17. Said 2.0 sores of land being more particularly described as follows:

- BEGINNING at a found iron pin being the northwest corner of this herein described 2.0 acres of land, from which a found from pin being the west corner of Lot 82, Cypress Cove Subdivision, Section 5, bears, as a reference, North 30°18'22" West, 731.34 feet. Said Cypress Cove Subdivision, Section 5, being as recorded in volume 1, page 77 of the Map and Plat Records of County, Tescus;
- THENCE North 87°00'16" East, 298.86 feet to a found from pin being the northeast corner of this herein described 2.0 sore tract of land;
- THENCE South 02°44′09° East, (record bearing South 02°59'30" East), 720.89 feet to a found iron pin being the southeast corner of this berein described 2.0 acre tract of land;
- THENCE South 53°12'59" West, 69.96 feet to a found iron pin;
- THENCE South 66°59'51" West, (basis of bearings), 256.34 feet to a found iron pin being the southwest corner of this herein described 2.0 acre tract of land; "
- THENCE North 02°48'(9" West, (record bearing North 02°59'30" West), 347.50 feet to the Place of Beginning and containing 2.0 acres of land in Comal County, Texas according to an actual survey made on the ground under my supervision on April 14, 2004.

### **FILED AND RECORDED**

Instrument Number:

201506025974

Recording Fee: 54.00

Number Of Pages:

9

Filing and Recording Date: 07/01/2015 3:53PM

Deputy:

**KELLI JOHNSTON** 

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Comal County, Texas.



Bobble Koepp, County Clerk

Bobbie 160epp

Comal County, Texas

NOTICE: It is a crime to intentionally or knowingly file a fraudulent court record or instrument with the derk.

DO NOT DESTROY - Warning, this document is part of the Official Public Record.

Filed and Recorded Official Public Records Bobbie Koepp, County Clerk Comal County, Texas 04/23/2021 04:14:52 PM KATB 8 Pages(s) 202106021927





#### WASTEWATER TREATMENT SYSTEM MAINTENANCE CONTRACT

Customer		Residential Initial Contract
Rebecca Creek Campgrounds		
Site Address		Agency
3660 Tanglewood Trail, Spring Branch, TX 78070		Comal County
Email	Phone	Permit Number
rebeccacreekcampgrounds@gmail.com	830-885-4035	113612
System Details		
Treatment: Aerobic Drip Emitters /		

#### **AGREEMENT**

#### I. General:

This work for hire agreement (hereinafter referred to as "Agreement") is entered into by and between the Client and Luna Environmental, LLC (hereinafter referred to as "Contractor"), located at 9595 Ranch Rd 12 Suite #1 Wimberley, TX 78676. By this agreement, Contractor agrees to render services, as described herein, and Client agrees to fulfill his/her/their responsibilities under the agreement as described herein.

#### II. Dates & Fees:

This agreement commences upon receipt by the Contractor of notice that the Local Regulatory Agency has given final approval of the installation (for a new or modified system), or on | 5/8/2025 | for an existing system, provided the Contractor has received payment in full of Fee(s) as agreed herein. The fees for this agreement are \$325.00 and shall be prepaid per the payment terms outlined herein.

#### **III. Renewal Terms:**

The term of this Agreement is 1 year(s) but in no case shall the Fee to the Contractor be for less than **one** (1) year. This Agreement is non-expiring and automatically renews without need for signing of any additional document(s) provided Client continues to timely pay the Fee(s) when due. Agreements paid monthly are paid using Contractor's system for automatic debit or automatic draft. Agreements that are prepaid will be invoiced by Contractor before the due date and must be timely paid by Client. If not timely paid before the due date, the Contractor has the right to terminate this Agreement.

#### IV. Services by Contractor:

- 1. Inspect and perform routine maintenance on the On-Site Sewage Facility ("OSSF") in compliance with code, regulations, and/or rules of the Texas Commission on Environmental Quality ("TCEQ") and county in which the OSSF is located and the manufacturer's requirements, at a frequency of approximately once per year for LPD systems, once every four (4) months for residential properties, or once every one (1) month for commercial properties.
- 2. Inspection, adjustment, and servicing of the mechanical, electrical, and other components to ensure proper functioning. This includes inspecting control panels, air pumps, air filters, diffusers, floats, and spray heads.
- 3. Effluent Inspection will include the following: effluent quality (color, turbidity, overflow, and odor), testing effluent chlorine and pH levels, when necessary, alarm function, filters, operation of effluent pump and chlorinator. Unless otherwise agreed to, Contractor does not provide chlorine. BOD and TSS annually on commercial accounts, additional charges apply.

- 4. Notify Client of any repairs needed to keep OSSF in proper working condition and up to regulatory standards. Items under warranty may be repaired while the technician is on-site. Additional charges may apply for labor and service calls. Repair quotes of non-warranty items must be approved by Client before work is performed.
- 5. 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.
- 6. Visit site within 48 hours of a service request.
- 7. Provide Customer Support line at (855) 560-9909.

#### V. Client Responsibilities:

- 1. Maintain a current License to Operate and abide by the conditions and limitations of that license and all requirements for OSSF from the State and Local Regulatory Agency as well as manufacturer's recommendations.
- 2. Maintain disinfection unit and at all times provide proper and adequate chlorine supply or operating disinfection component, if OSSF is equipped with same.
- 3. Provide all necessary site, yard, or lawn maintenance and removal of obstacles, including dogs and other animals, as needed to allow the system and its components to function properly and to allow Contractor safe and easy access to all parts of the system and its components.
- 4. Maintain site drainage to prevent adverse effects on OSSF.
- 5. Provide for pumping of tanks, when and as suggested by Contractor, at Client's own expense. Typically, every 3 years.
- 6. Do not exceed the system's physical, hydraulic, or biological limitations.
- 7. Notify Contractor within 24 hours of the occurrence of any and all alarms or problems with any component or with the system.
- 8. Be available by text, phone, or in person when the Contractor is on-site in case of required repair approvals or questions.
- 9. Promptly pay Contractor's bills, fees, and invoices in full.
- 10. Elect one of the following: Authorized

Yes, I authorize. If during the Contractor's time of the maintenance check any component of the system is found to need replacement, replenishment, or repair, then Client authorizes Contractor to perform the service per the above and bill or charge the Client for such additional services without further approval by Client so long as the service is \$150 or less and the Contractor has the necessary materials to perform the replacement, replenishment, or repair.

**No, I do not authorize.** If, during the Contractor's maintenance check, any component of the system is found to be in need of replacement, replenishment, or repair, Contractor will notify Client of repairs needed and, where feasible, provide an estimate of costs. No replacement, replenishment, or repairs will be performed without express approval of Client. Additional Service fees will apply for return visits to perform repairs.

#### **VI. Authority:**

In signing this Agreement, the Client: (1) hereby affirms ownership to the Property as well as the OSSF that is the subject of this Agreement. (2) represents that he/she has authority to permit Contractor's entry upon property to monitor, service, or repair and agrees to hold Contractor and its agents harmless for entry upon such real property for these purposes, and (3) represents to have the authority to bind all owners of the property to the terms of this agreement, or to accept personal responsibility for these terms.

### VII. Access By Contractor:

Contractor is hereby granted access to the system and all related components for the purposes of performing the Services or Additional Services. Unless other arrangements have been made in advance in writing, Contractor's personnel may enter the property at reasonable times without any form of notice for the purpose of performing the Services or Additional Services. Contractor will require free, unrestricted access to the system and related components for the purpose of performing all work. If upon arrival at the site, Contractor determines that access is prevented, blocked, or restricted, Contractor is not required to perform any of the steps, and will be credited with completion of that maintenance check. Additional maintenance checks to complete the Services shall be billed to Client as an Additional Service.

#### VIII. Payment Terms:

The fee for this agreement only covers the services described herein. This fee does not cover equipment or labor for non-warranty repairs, labor for warranty repairs, or service charges resulting from unscheduled, Client requested trips to the Client's OSSF. Payments not received within 30 days from the date of invoicing will be subject to a \$30.00 late penalty and or a 1.5% monthly carrying charge, whichever is greater. By signing this contract, the Client authorizes the Contractor to remove any parts which were installed but not paid for at the end of 30 days. The Client is still responsible for any labor costs associated with the installation and removal of said parts. All invoices are due upon receipt by Client. Under no condition shall prepayment of Fee, or the sum of monthly payments of Fee, be for less than a one-year term. After 1 year(s), prepaid agreements (other than monthly) may be prorated using monthly increments, less other charges as discussed elsewhere in this Agreement.

#### VIII. Application or Transfer of Payment:

The Fee paid for this Agreement may transfer to the subsequent owner(s), however, this Agreement will not transfer. Client will advise subsequent owner(s) of the regulatory requirement for a replacement Agreement. Regulations require that replacement Agreements be signed and received within 30 days of transfer of ownership. Contractor will apply all funds received from Client first to any past-due obligations arising from this Agreement including late charges, returned check charges, and charges for repairs or services not paid within 10 days of invoicing. Unpaid balances on Client's account may lead to the extension of the monthly drafting or debiting program, if applicable, to complete payment of Client's account balance(s).

#### X. Termination of This Agreement:

After a minimum of 1 year(s), in order to provide sufficient time to comply with the regulatory requirement for notices from the Contractor to the Local Regulatory Agency, this Agreement may be terminated for any reason by either party with a minimum 30 day written notice, without fault of the terminating party. Contractor shall be due a Fee equal to at least the first year and may also deduct for any other work performed by Contractor but not yet paid by Client, whether invoiced prior to termination or not. Contractor will notify the appropriate Local Regulatory Agency of this termination.

#### XI. Limitation of Liability:

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

#### XII. Severability:

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

Rebecca Creek Campgrounds	Luna Environmental / Logan Leppo	
Pocusign@bystomer Name Rebella Creek Campgrounds	Maintenance Provider Name  COGAN LEPPO  License # MP0002494	
Crecz8Fe1F3D4CA Customer Signature	Maintenance Provider Signature	
Additional Comments / Special Terms:		



## **WASTEWATER TREATMENT SYSTEM MAINTENANCE INSPECTION**

Customer			Permit Number
Rebecca Creek Campgrounds			113612
Site Address			Agency
3660 Tanglewood Trail, Spring Branch, TX 78070			Comal County
Email		Phone	County
rebeccacreekcampgrounds@gmail.com		830-885-4035	Comal
System Details			
Treatment: Aerobic Drip Emitters /			
Contract Period	Service Plan	Inspection Number	Date
2023-06-15 to 2025-06-15	3 Inspections Per Year	3 of 6	October 21, 2024

Control Panel			Disinfection Device	
Operational			Not Applicable	
Irrigation Pump			Spray Field Vegetation	
Operational			Operational	
Aerator / Air Compr	essor		Sprinkler / Drip Backwash	
Operational				
2.2			Grab	
22				
Air Compressor CF	M		Color	
Air Compressor CF	М		Good	
Air Compressor CF  0.0  Chlorine Residual  0.0	M		¬ ————————————————————————————————————	

Other Observations			
Cleaned Air Filter?	✓	Inspection Port/Plug Secured?	
System Flushed?	✓	Repairs Made?	
Drip Filter Cleaned?	✓	Pump Filter Cleaned?	
Tank Lids Secured?	✓	Pumping Required?	
Additional Comments			
No problems found.			
No problems round.			
Raymond Brietzke MT0002534		Luna Environmental / Logan Leppo	
Inspector Name		Maintenance Provider Name	

LOGAN LEPPO October 21, 2024 License # MP0002494 Inspection Date

Maintenance Provider Signature



Ph: (210)330-8402

Ph: (210)919-0170

## Maintenance Contract

THIS CONTRACT is made and entered into on July 8th 2025, by and between Valdes Drilling LLC (the "Service Company"), whose address is 11235 US HWY 181 S, San Antonio, Texas 78223 and Rebecca Creek Campgrounds ("Customer"), whose address is 3660 Tanglewood Trl. Spring Branch TX 78070. System #5 (113612)

WHEREAS Service Company is a company engaged in the business of servicing and maintaining Commercial and residential septic installations, and maintenance providing tanks. and is willing to provide such services to Customer as per the terms herein.

- 1. 12 inspections a year/service calls (at least one every month), for a total of 12 over the one yearnperiod including inspection, adjustment and servicing of the mechanical, electrical and other applicable component parts to ensure proper function. This includes inspecting the control panel, air pumps, air filters, diffuser operation. Any alarm situation affecting the proper function of the Aerobic process will be addressed within a 48-hour time Frame. Repair work on non-warranty parts will include price for parts & labor. The prices will be quoted before the work is performed.
- 2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow and examination for odors.
- 3. If any improper operation is observed, which cannot be corrected at the time of the service visit, you will be notified immediately in writing of the conditions and estimated date of correction.
- 5. Any additional visits, inspections or sample collection required by specific Municipalities, Water/River Authorities, and County Agencies the TCEQ or any other authorized regulatory agency in your jurisdiction will be covered by this policy.

**IMPORTANT:** The Homeowners Manual must be strictly followed or warranties are subject to invalidation. Pumping of sludge build-up, repairs/ labor and materials, or any abuse of the system is not covered by this policy and will result in additional charges.

#### ACCESS BY CONTRACTOR

The Contractor Or anyone authorized by the Contractor may enter the property at reasonable times without prior notice for the purpose of the above described Services. The contractor may access the System components including the tanks by means of excavation for the purpose of evaluations if necessary.

#### 2. Trained Employees

Trained personnel directly employed and supervised by the Service Company will perform all services required by the terms of this Contract. The Service Company agrees that each of its employees will be properly qualified and will use reasonable care in the performance of his or her duties.

#### 3. Working Hours

- (a) The services required of the Service Company under this Contract, including emergency service, shall be performed during the regular working hours of its regular working days, consisting of Monday to Saturday, Anytime, except as provided in (b) immediately below.
- (b) If the Customer requests that the Service Company perform any of its services at times other than during its regular working hours, then for the services performed outside the regular working hours ("overtime hours"), the Customer shall be charged at \$200.00 per hour as adjusted periodically to compensate for changes in the cost of labor.

#### 4. Contract Price

- (a) The Customer shall pay the Service Company at the rate of \$950.00 (one time payment). for the one year of service to be performed under this Contract.
- (b) The amount specified in (a) above shall be adjusted annually to reflect any changes in the Service Company's cost of labor. 0 percentage of the contract price shall be increased or decreased on each anniversary of the commencement date of service under this Contract with the percentage of increase or decrease in the straight-time hourly cost (which means the straight-time hourly labor rate, including fringe benefits) for the month within which the anniversary of the commencement of service under this Contract falls as compared with the straight-time hourly cost for the month within which the commencement date of service under this Contract falls.
- (c) The amount specified in (a) above shall be adjusted annually to reflect any changes in the costs of the parts, equipment, and materials supplied by the Service Company under this Contract. 5 percentage of the contract price shall be increased or decreased on each anniversary of the commencement date of service under this Contract by the percentage of increase or decrease in the costs of the parts, equipment, and materials.(d)

#### 6. Term of Contract

The term of this Contract shall commence on the start date of signature date and shall continues in full force and effect until it is terminated. Either party, by giving 7 days' written notice to the other party, may terminate this Contract either at the completion. or at the end of any subsequent year. In any event, this Contract shall be in effect for a minimum of 1 year.

#### 7. Miscellaneous Provisions

- (a) Applicable Law: This Contract shall be construed under and in accordance with the laws of the Texas, and all obligations of the parties created under this Contract are performable in Comal County, Texas.
- (b) Parties Bound: This Contract shall be binding on and inure to the benefit of the parties to this Contract and their respective heirs, executors, administrators, legal representatives, successors and assigns as permitted by this Contract.
- (c) Legal Construction: In the event any one or more of the provisions contained in this Contract shall for any reason be held invalid, illegal, or unenforceable in any respect, that invalidity, illegality, or unenforceability shall not affect any other provision. This Contract shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in it.
- (d) Prior Contracts Superseded: This Contract constitutes the sole and only Contract of the parties and supersedes any prior understandings or written or oral Contracts between the parties respecting the subject matter of this Contract.
- (e) Amendments. This Contract may be amended by the parties only by a written Contract.
- (f) Attorneys' Fees: If any action at law or in equity is brought to enforce or interpret the provisions of this Contract, the prevailing party will be entitled to reasonable attorneys' fees in addition to any other relief to which that party may be entitled.

#### 8. Signatures

This Contract shall be signed on behalf of Valdes Drilling LLC by Julio Valdes #MP0002736, its Owner, and on behalf of Rebecca Creek Campgrounds, Property Owner: Michelle.

SERVICE COMPANY
Valdes Drilling LLC
Ву:
Julio Valdes #MP0002736, its Owner
Date:
7-1-2027
CUSTOMER
Michelle 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
By: Michel Miche
Rebecca Creek Campgrounds , its Property Owner
Date: 9_9_9
1- B- Z-1