Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
3. Application Materials

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Campaholics Country, LLC (CN606175024) proposes to operate Campaholics Resorts (RN111798070), a Campground/RV Resort. The facility will be located at 738 Campground Rd., in Sherman, Grayson County, Texas 75090. New application to discharge up to 30,000 gallons of treated and disinfected domestic wastewater per day into an intermittent stream located on resort property. The stream is a tributary of Cedar Creek.

Discharges from the facility are expected to contain oxygen consuming waste, suspended solids, nitrogen, phosphorus, and fecal coliform. These pollutants will be reduced to below EPA limits for municipal wastewater treatment. Domestic wastewater will be treated by settling and anaerobic digestion in multiple collection tanks located throughout the property, primarily treated black water will be conveyed via sealed force main to a proprietary Moving Bed Biofilm Reactor (MBBR). This technology will accomplish organics and nutrient reduction to achieve TCEQ effluent limits for this location. Treated wastewater will outfall via gravity through a UV disinfection system. The system will contain multiple redundancies to prevent

the discharge of untreated or inadequately treated waste into the environment. These redundancies include 3 days storage capacity ahead of the treatment reactor, on site replacement units for critical equipment, portable backup power, duplicate reactors in parallel, and duplicate UV banks in parallel.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT

PROPOSED PERMIT NO. WQ0016544001

APPLICATION. Campaholic's Country, LLC, 738 Campground Road, Sherman, Texas 75090, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016544001 (EPA I.D. No. TX0146064) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 30,400 gallons per day. The domestic wastewater treatment facility will be located at 738 Campground Road, near the city of Sherman, in Grayson County, Texas 75090. The discharge route will be from the plant site to an unnamed tributary, thence to Cedar Creek, thence to Choctaw Creek, thence to Red River Below Lake Texoma. TCEQ received this application on May 15, 2024. The permit application will be available for viewing and copying at Grayson County Courthouse, Suite G3, 100 West Houston Street, Sherman, in Grayson County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.5075,33.549166&level=18

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.**

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application**

is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing. A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county. If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit

application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Campaholic's Country, LLC at the address stated above or by calling Mr. Andrew Diehl, P.E., CEI Engineering Associates Inc., at 972-488-3737.

Issuance Date: June 14, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 15, 2024

Dear Applicant:

Re: Confirmation of Submission of the New Private Domestic Wastewater Individual Permit Application

This is an acknowledgement that you have successfully completed Private Domestic Wastewater Individual Permit Application.

ER Account Number: ER104808
Application Reference Number: 647624
Authorization Number: WQ0016544001
Site Name: Campaholics Resorts
Regulated Entity: RN111798070 - CAMPAHOLICS RESORTS
Customer(s): CN606263796 - Campaholic's Country, LLC

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

New Domestic or Industrial Individual Permit

Site Information (Regulated Entity)

What is the name of the site to be authorized?	CAMPAHOLICS RESORTS
Does the site have a physical address?	Yes
Physical Address	
Number and Street	738 CAMPGROUND RD
City	SHERMAN
State	TX
ZIP	75090
County	GRAYSON
Latitude (N) (##.######)	33.54923
Longitude (W) (-###.######)	-96.50755
Primary SIC Code	7033
Secondary SIC Code	
Primary NAICS Code	721211
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	RN111798070
What is the name of the Regulated Entity (RE)?	CAMPAHOLICS RESORTS
Does the RE site have a physical address?	Yes
Physical Address	
Number and Street	738 CAMPGROUND RD
City	SHERMAN
State	TX
ZIP	75090
County	GRAYSON
Latitude (N) (##.######)	33.54923
Longitude (W) (-###.######)	-96.50755
Facility NAICS Code	721211
What is the primary business of this entity?	CAMPGROUND / RV RESORT

Campaho-Customer (Applicant) Information (Owner Operator)

How is this applicant associated with this site?	Owner Operator
What is the applicant's Customer Number (CN)?	
Type of Customer	Organization
Full legal name of the applicant:	

Legal Name	Campaholic's Country, LLC
Texas SOS Filing Number	0804643525
Federal Tax ID	
State Franchise Tax ID	32085416488
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes

Responsible Authority Contact

Organization Name	Campaholic's Country, LLC
Prefix	
First	Austin
Middle	
Last	Karnes
Suffix	
Credentials	
Title	Co-Owner

Responsible Authority Mailing Address

Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	738 CAMPGROUND RD
Routing (such as Mail Code, Dept., or Attn:)	
City	SHERMAN
State	TX
ZIP	75090
Phone (###-###-####)	2148084581
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	austin@campaholicsresorts.com

Billing Contact

Responsible contact for receiving billing statements:

Select the permittee that is responsible for payment of the annual fee.	Campaholic's Country, LLC
Organization Name	Campaholic's Country, LLC
Prefix	

First	Austin
Middle	
Last	Karnes
Suffix	
Credentials	
Title	Owner
Enter new address or copy one from list:	Campaholic's Country, LLC
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	738 CAMPGROUND RD
Routing (such as Mail Code, Dept., or Attn:)	
City	SHERMAN
State	TX
ZIP	75090
Phone (###-###-####)	2148084581
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	austin@campaholicsresorts.com

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	CEI Engineering Associates Inc
Prefix	
First	Andrew
Middle	
Last	Diehl
Suffix	
Credentials	PE
Title	Senior Project Engineer
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3030 LBJ FWY STE 920
Routing (such as Mail Code, Dept., or Attn:)	
City	DALLAS
State	TX
ZIP	75234

Phone (###-###-####)	9724883737
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	adiehl@ceieng.com

Technical Contact

Person TCEQ should contact for questions about this application:

Same as another contact?	Application Contact
Organization Name	CEI Engineering Associates Inc
Prefix	MR
First	Andrew
Middle	
Last	Diehl
Suffix	
Credentials	PE
Title	Senior Project Engineer
Enter new address or copy one from list:	

Mailing Address

Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3030 LBJ FWY STE 920
Routing (such as Mail Code, Dept., or Attn:)	
City	DALLAS
State	TX
ZIP	75234
Phone (###-###-####)	9724883737
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	adiehl@ceieng.com

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:

Same as another contact?	Billing Contact
Organization Name	Campaholic's Country, LLC
Prefix	
First	Austin
Middle	

Last	Karnes
Suffix	
Credentials	
Title	Owner
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	738 CAMPGROUND RD
Routing (such as Mail Code, Dept., or Attn:)	
City	SHERMAN
State	TX
ZIP	75090
Phone (###-###-####)	2148084581
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	austin@campaholicsresorts.com

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Billing Contact
2) Organization Name	Campaholic's Country, LLC
3) Prefix	
4) First	Austin
5) Middle	
6) Last	Karnes
7) Suffix	
8) Credentials	
9) Title	Owner
Mailing Address	
10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	738 CAMPGROUND RD
11.2) Routing (such as Mail Code, Dept., or Attn:)	
11.3) City	SHERMAN
11.4) State	TX
11.5) ZIP	75090
12) Phone (###-###-####)	2148084581

13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	austin@campaholicsresorts.com

Public Notice Information

Individual Publishing the Notices

1) Prefix	
2) First and Last Name	Andrew Diehl
3) Credential	PE
4) Title	Senior Project Engineer
5) Organization Name	CEI Engineering Associates Inc
6) Mailing Address	3030 LBJ FWY
7) Address Line 2	Suite 920
8) City	DALLAS
9) State	TX
10) Zip Code	75234
11) Phone (###-###-####)	9724883737
12) Extension	
13) Fax (###-###-####)	
14) Email	adiehl@ceieng.com

Contact person to be listed in the Notices

15) Prefix	
16) First and Last Name	Andrew Diehl
17) Credential	PE
18) Title	Senior Project Engineer
19) Organization Name	CEI Engineering Associates Inc
20) Phone (###-###-####)	9724883737
21) Fax (###-###-####)	
22) Email	adiehl@ceieng.com

Bilingual Notice Requirements

23) Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?	No

Section 1# Public Viewing Information

County#: 1

1) County	GRAYSON
2) Public building name	Grayson County Court House

3) Location within the building	West Entrance
4) Physical Address of Building	100 W. Houston St., Suite G3
5) City	Sherman
6) Contact Name	Audra Burnett
7) Phone (###-###-####)	9038134253
8) Extension	
9) Is the location open to the public?	Yes

Owner Information

Owner of Treatment Facility

1) Prefix	
2) First and Last Name	Austin Karnes
3) Organization Name	Campaholics Country LLC
4) Mailing Address	738 Campground Rd
5) City	Sherman
6) State	TX
7) Zip Code	75090
8) Phone (###-###-####)	2148084581
9) Extension	
10) Email	austin@campaholicsresorts.com
11) What is ownership of the treatment facility?	Private

Owner of Land (where treatment facility is or will be)

12) Prefix	
13) First and Last Name	Austin Karnes
14) Organization Name	Campaholics Country LLC
15) Mailing Address	738 Campground Rd
16) City	Sherman
17) State	TX
18) Zip Code	75090
19) Phone (###-###-####)	2148084581
20) Extension	
21) Email	austin@campaholicsresorts.com
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

Admin General Information

1) Is the facility located on or does the treated effluent cross American Indian Land?	No
2) What is the authorization type that you are seeking?	Private Domestic Wastewater

2.1) Is the facility previously authorized under a Water Quality individual permit?	No
2.2) What is the proposed total flow in MGD discharged at the facility?	.0304
2.3) Select the applicable fee	<0.050 MGD - $350
3) What is your facility operational status?	Inactive
4) What is the classification for your authorization?	TPDES
4.1) City nearest the outfall(s):	Luella
4.2) County where the outfalls are located:	GRAYSON
4.3) Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?	No
4.4) Is the daily average discharge at your facility of 5 MGD or more?	No
5) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Plain Language

1) Plain Language

[File Properties]

File Name	LANG_10053 Attachment 3 - Plain Language Form.pdf
Hash	1854639A566D042DEA65BBFD27AFBD93CC9239EFBA86AA2E405BF4DF05DB288D
MIME-Type	application/pdf

Supplemental Permit Information Form

1) Supplemental Permit Information Form (SPIF)

[File Properties]

File Name	SPIF_10053 Attachment 13 - SPIF Form.pdf
Hash	8CBCD0B28F47B1212F6BCFF12423ED06B02AD3108613248C5EEF168A41A7D1A4
MIME-Type	application/pdf

[File Properties]

File Name	SPIF_10053 Attachment 14 - Full Size USGS Discharge Map.pdf
Hash	E392E3EBF9EF64C101F7872C29657A18F064DDD60568D2CB288EBE3A033ACDB0
MIME-Type	application/pdf

[File Properties]

File Name	SPIF_10053 Attachment 15 - Structure Photos.pdf
Hash	4A3E4CB59C18DAA4D735E05E2A90B3815D69532AD73277A24D7029CD4626338E
MIME-Type	application/pdf

[File Properties]

File Name	SPIF_10053 Attachment 16 - Photo Key Map.pdf
Hash	B6526D112EE21D38F799FFDEC3A755029F720EAE47E3DABCDBBF73839B591844
MIME-Type	application/pdf

Domestic Attachments

1) Have you clearly outlined and labeled the required information on the original full size USGS Topographic Map?	Yes

1.1) I certify that I have clearly outlined and labeled the required information on the Topographic map and attached here.

[File Properties]

File Name	MAP_10053 Attachment 14 - Full Size USGS Discharge Map.pdf
Hash	E392E3EBF9EF64C101F7872C29657A18F064DDD60568D2CB288EBE3A033ACDB0
MIME-Type	application/pdf

2) Public Involvement Plan attachment (TCEQ Form 20960)

[File Properties]

File Name	PIP_10053 Attachment 4 - Public Involvment Form.pdf
Hash	D77445E127A46A08E5C7BC101A191BE673AB293C79D0A40518C92FFA39AABD5C
MIME-Type	application/pdf

3) Administrative Report 1.1

[File Properties]

File Name	ARPT_10053 Administrative Report.pdf
Hash	186176701A611BBDF29E322D928FBEE4FC1FF99AE89BC81F9805A3341C4F5E9B
MIME-Type	application/pdf

4) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
4.1) I confirm that Technical Report 1.1 is complete and included in the Technical Attachment.	Yes
4.2) I confirm that Worksheet 2.0 (Receiving Waters) is complete and included in the Technical Attachment.	Yes
4.3) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
4.4) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	No
4.5) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	No
4.6) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

4.7) Technical Attachment

[File Properties]

File Name	TECH_10054 Technical Report.pdf
Hash	EEA25BAE6C3D1134475648391B22F243A74E8313799E0D008E5B1BAF2A89ABDB
MIME-Type	application/pdf

5) Affected Landowners Map

[File Properties]

File Name	LANDMP_10053 Attachment 6 - Landowner Map.pdf
Hash	937EB439634586A87619125058BD54C65A9855A860D5049B12359B8EA567E076
MIME-Type	application/pdf

6) Landowners Cross Reference List

[File Properties]

File Name	LANDCRL_10053 Attachment 7 - Landowner List.pdf
Hash	35A531B1927568860EFCBE08DCF7C9118534E73B157F9488238ABDE5AD0940F1
MIME-Type	application/pdf

7) Landowner Avery Template

[File Properties]

File Name	LANDAT_10053 Attachment 8 - Mailing Labels.pdf
Hash	2D9056CAA2AB79A352AF5FB1ECF16482E191C560CF7043EA14C0B37C50F045CD
MIME-Type	application/pdf

8) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_10053 Attachment 12 - Buffer Zone Map.pdf
Hash	64CE38937539F3B6B3A87AC4A3AEC6186F088C6CF375D6DCE179B78FE856513F
MIME-Type	application/pdf

9) Flow Diagram

[File Properties]

File Name	FLDIA_10054 Attachment 5 - Process Flow Diagram.pdf
Hash	7FD90902F6C0FF11662D6AECC17F6ECB6E7D15B8B6B866EBBBE59A08AE214F5B
MIME-Type	application/pdf

10) Site Drawing

[File Properties]

File Name	SITEDR_10054 Attachment 6 - Design Plans.pdf
Hash	295CE35BFE050307B4899B2DC238CDFBA881EAD474A60DFD1026B745FE1CB2E9
MIME-Type	application/pdf

11) Original Photographs

[File Properties]

File Name	ORIGPH_10053 Attachment 9 - Treatment Plant Location Photos.pdf
Hash	4D5126F7C0A26ED31237E54B9B42F08A883EE94BC35F1152C8BA976F2CFAF559
MIME-Type	application/pdf

[File Properties]

File Name	ORIGPH_10053 Attachment 10 - Discharge Photos.pdf
Hash	AFC27C3DB66B884743CEA2371B25A189F66F40703CA64BF980A5780389270675
MIME-Type	application/pdf

12) Design Calculations

[File Properties]

File Name	DES_CAL_10054 Attachment 1 - Sewage Flow Calculations.pdf
Hash	2FB2653F5340AB6176C48EE79912FEABA48DCC9DCF96A16FCD5046901D27CE73
MIME-Type	application/pdf

[File Properties]

File Name	DES_CAL_10054 Attachment 7 - STEP Calculations and Report.pdf
Hash	79620BB90F05629DB8A3E967E04D405C45640254CF1585810F878AB02712D210
MIME-Type	application/pdf

[File Properties]

File Name	DES_CAL_10054 Attachment 12 - Design Calculations.pdf
Hash	A097F3CFC5D899584F79EC3AD2070B14DEEF15301F0984F5827DFA7D0FB482A4
MIME-Type	application/pdf

13) Solids Management Plan

[File Properties]

File Name	SMP_10054 Attachment 14 - Sewage Sludge Management.pdf
Hash	A1EFE57DA8E011D5065858547BBEF822129CC2067DE5778343849A31FAA9932C
MIME-Type	application/pdf

14) Water Balance

[File Properties]

File Name	WB_Water Balance - Not Applicable.pdf
Hash	80F202340781ADDDBEB60C04E91280C2F6EF347BF5097835E04582AF680578D6
MIME-Type	application/pdf

15) Other Attachments

[File Properties]

File Name	OTHER_10053 Attachment 1 - Core Data Form.pdf
Hash	D6D6040C65BBDCD9F54B95E98E70667212745306C2A00D70F21B924284462E4A
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10053 Attachment 2 - Bilingual Letter.pdf
Hash	794498DB0CE486CC3B642DA4F834D91C6CF8A69F2EA9D2B79C2ADBF0A0C7BB86
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment 2 - Treatment Process Discussion Contd.pdf
Hash	B0AD38AEF797468578BB219E368A76ACEF134E55F2BDA4DC713052C045331CCA
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment 3 - AquaAzul_UV_Bioassay_Report_Secured.pdf
Hash	B3B6BD85BF9D11DB305D83EAFFE93FDA822442E2F5E4094485625E940591D62F
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment 4 - UV Disinfection Equipment (AZHO-200-2-SMA (4 Pipe)).pdf
Hash	55DA219ABEF9D9DCBF1C18EA421B96CBFA8A791E9A2A9A20EFB2047FCF140C70
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment 7a - Treatment Plant Design and Report.pdf
Hash	354001665435BAFAD2E71B42DA01676C2BEA11D2CE4ECB15FCE53946C921D036
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment 8 - Disposal Site Contract.pdf
Hash	5B5A93324F4B5BE2883341391ACCA78CC0F72D0D7E408BCA22EA401005AA122E
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment - Correspondence.pdf
Hash	31D603A9C78E996598495454AE3091152C62C392BFD251927DB70D7115813596
MIME-Type	application/pdf

[File Properties]

File Name	OTHER_10054 Attachment 13 - Wind Rose_Combined.pdf
Hash	9019E3EC9235D6AC0B71114BD838C31C1D59D0E9704ABAF272AC0B83081AF830
MIME-Type	application/pdf

Certification

I certify that I am authorized under 30 Texas Administrative Code 305.44 to sign this document and can provide documentation in proof of such authorization upon request.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

1. I am Austin Karnes, the owner of the STEERS account ER104808.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing New Domestic or Industrial Individual Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER OPERATOR Signature: Austin Karnes OWNER OPERATOR

Customer Number:

Legal Name:	Campaholic's Country, LLC
Account Number:	ER104808
Signature IP Address:	97.99.225.1
Signature Date:	2024-05-15
Signature Hash:	DB1DDD4734E277C1E463105F3A36AFC52DB5D2384B03EDEB11F93D7147BD8B6E
Form Hash Code at time of Signature:	976ED2FB8DC25259CD7776BA950999ADF05B0FE5C275585DF89DB3341612157D

Fee Payment

Transaction by:	The application fee payment transaction was made by ER104808/Austin Karnes
Paid by:	The application fee was paid by AUSTIN KARNES
Fee Amount:	$300.00
Paid Date:	The application fee was paid on 2024-05-15
Transaction/Voucher number:	The transaction number is 582EA000610389 and the voucher number is 705505

Submission

Reference Number:	The application reference number is 647624
Submitted by:	The application was submitted by ER104808/Austin Karnes
Submitted Timestamp:	The application was submitted on 2024-05-15 at 09:13:30 CDT
Submitted From:	The application was submitted from IP address 97.99.225.1
Confirmation Number:	The confirmation number is 540392
Steers Version:	The STEERS version is 6.74

Additional Information

Application Creator: This account was created by Joel Hays

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Campaholics Country, LLC

PERMIT NUMBER (If new, leave blank): WQ00 Click to enter text.

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☒	☐	Affected Landowners Map	☒	☐
SPIF	☒	☐	Landowner Disk or Labels	☒	☐
Core Data Form	☒	☐	Buffer Zone Map	☒	☐
Public Involvement Plan Form	☒	☐	Flow Diagram	☒	☐
Technical Report 1.0	☒	☐	Site Drawing	☒	☐
Technical Report 1.1	☒	☐	Original Photographs	☒	☐
Worksheet 2.0	☒	☐	Design Calculations	☒	☐
Worksheet 2.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 3.0	☐	☒	Water Balance	☐	☒
Worksheet 3.1	☐	☒			
Worksheet 3.2	☐	☒			
Worksheet 3.3	☐	☒			
Worksheet 4.0	☐	☒			
Worksheet 5.0	☐	☒			
Worksheet 6.0	☐	☒			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

For any questions about this form, please contact the Applications Review and Processing Team at 512–239–4671.

Section 1. Application Fees (Instructions Page 26)

Indicate the amount submitted for the application fee (check only one).

Flow	New/Major Amendment	Renewal
<0.05 MGD	$350.00 ☒	$315.00 ☐
≥0.05 but <0.10 MGD	$550.00 ☐	$515.00 ☐
≥0.10 but <0.25 MGD	$850.00 ☐	$815.00 ☐
≥0.25 but <0.50 MGD	$1,250.00 ☐	$1,215.00 ☐
≥0.50 but <1.0 MGD	$1,650.00 ☐	$1,615.00 ☐
≥1.0 MGD	$2,050.00 ☐	$2,015.00 ☐

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: Click to enter text.

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

a. Check the box next to the appropriate authorization type.

☐ Publicly-Owned Domestic Wastewater

☒ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

b. Check the box next to the appropriate facility status.

☐ Active ☒ Inactive

c. Check the box next to the appropriate permit type.

☒ TPDES Permit

☐ TLAP

☐ TPDES Permit with TLAP component

☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

☒ New

☐ Major Amendment *with* Renewal

☐ Major Amendment *without* Renewal

☐ Renewal without changes

☐ Minor Amendment *with* Renewal

☐ Minor Amendment *without* Renewal

☐ Minor Modification of permit

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. For existing permits:

Permit Number: WQ00 Click to enter text.

EPA I.D. (TPDES only): TX Click to enter text.

Expiration Date: Click to enter text.

Section 3. Facility Owner (Applicant) and Co–Applicant Information (Instructions Page 26)

A. The owner of the facility must apply for the permit.

What is the Legal Name of the entity (applicant) applying for this permit?

Campaholics Country, LLC TX SOS File Number 0804643525

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at http://www15.tceq.texas.gov/crpub/

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix: Mr Last Name, First Name: Karnes, Austin

Title: Click to enter text. Credential: Owner

B. Co–applicant information. Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applicant applying for this permit?

Click to enter text.

(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)

If the co-applicant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at: http://www15.tceq.texas.gov/crpub/

CN: Click to enter text.

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: Click to enter text.

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. 10400 Campaholics.pdf Attachment 1

Section 4. Application Contact Information (Instructions Page 27)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix: Mr. Last Name, First Name: Diehl, Andrew

Title: Sr. Project Engineer Credential: P.E.

Organization Name: CEI Engineering Associates, Inc

Mailing Address: 3030 LBJ Freeway, Ste 920 City, State, Zip Code: Dallas, TX, 75234

Phone No.: 918-488-3737 E-mail Address: adiehl@ceieng.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

Provide the names and contact information for two individuals that can be contacted throughout the permit term.

A. Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

B. Prefix: Mr. Last Name, First Name: Diehl, Andrew

Title: Sr. Project Engineer Credential: P.E.

Organization Name: CEI Engineering Associates, Inc.

Mailing Address: 3030 LBJ Freeway, Ste 920 City, State, Zip Code: Dallas, TX, 75234

Phone No.: 972-488-3737 E-mail Address: adiehl@ceieng.com

Section 6. Billing Contact Information (Instructions Page 27)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***in effect on September 1 of each year***. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

Section 7. DMR/MER Contact Information (Instructions Page 27)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (DMR) (EPA 3320-1) or maintain Monthly Effluent Reports (MER).

Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Diehl, Andrew

Title: Sr. Project Engineer Credential: P.E.

Organization Name: CEI Engineering Associates, Inc.

Mailing Address: 3030 LBJ Freeway, Ste 920 City, State, Zip Code: Dallas, TX, 75234

Phone No.: 972-488-3737 E-mail Address: adiehl@ceieng.com

B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Diehl, Andrew

Title: Sr. Project Engineer Credential: P.E.

Organization Name: CEI Engineering Associates, Inc.

Mailing Address: 3030 LBJ Freeway, Ste 920 City, State, Zip Code: Dallas, TX, 75234

Phone No.: 972-488-3737 E-mail Address: adiehl@ceineng.com

D. Public Viewing Information

If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.

Public building name: Grayson County Courthouse

Location within the building: West Entrance

Physical Address of Building: 100 W. Houston St., Suite G3

City: Sherman County: Grayson

Contact (Last Name, First Name): Audra Burnett

Phone No.: 903-813-4253 Ext.: Click to enter text.

E. Bilingual Notice Requirements

This information **is required** for **new, major amendment, minor amendment or minor modification, and renewal** applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

   ☐ Yes ☒ No Attachment 2

   If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☐ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☐ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☐ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? Click to enter text.

F. Plain Language Summary Template

Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment.

Attachment: 20972 Campaholics Plain Language.pdf Attachment 3

G. Public Involvement Plan Form

Complete the Public Involvement Plan Form (TCEQ Form 20960) for each application for a **new permit or major amendment to a permit** and include as an attachment.

Attachment: pip form20960.pdf Attachment 4

Section 9. Regulated Entity and Permitted Site Information (Instructions Page 29)

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 111798070

Search the TCEQ's Central Registry at http://www15.tceq.texas.gov/crpub/ to determine if the site is currently regulated by TCEQ.

B. Name of project or site (the name known by the community where located):

Campaholics Country Resort

C. Owner of treatment facility: Austin Karnes

Ownership of Facility: ☐ Public ☒ Private ☐ Both ☐ Federal

D. Owner of land where treatment facility is or will be:

Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant)::

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☒ No

If **no**, **or a new permit application**, please give an accurate description:

The discharge site will be located 2300 feet NNW of the intersection of Campground Road and Pennell Road in rural Sherman Texas.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☒ No

If **no**, **or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Gravity outfall through UV disinfection unit to an unnamed tributary to Cedar Creek, to Choctaw Creek, to the Red River below Lake Texoma segment #0202

City nearest the outfall(s): Tom Bean

County in which the outfalls(s) is/are located: Grayson

C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

Attachment: Click to enter text.

D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

Section 11. TLAP Disposal Information (Instructions Page 32)

A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

Click to enter text.

B. City nearest the disposal site: Click to enter text.

C. County in which the disposal site is located: Click to enter text.

D. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

Click to enter text.

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Click to enter text.

Section 12. Miscellaneous Information (Instructions Page 32)

A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No ☒ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

Click to enter text.

C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Click to enter text.

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

Indicate which attachments are included with the Administrative Report. Check all that apply:

☐ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.

☒ Original full-size USGS Topographic Map with the following information:

- Applicant's property boundary
- Treatment facility boundary
- Labeled point of discharge for each discharge point (TPDES only)
- Highlighted discharge route for each discharge point (TPDES only)
- Onsite sewage sludge disposal site (if applicable)
- Effluent disposal site boundaries (TLAP only)
- New and future construction (if applicable)
- 1 mile radius information
- 3 miles downstream information (TPDES only)
- All ponds.

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click to enter text.

USGS Map Fullsize.pdf Attachment 5

Section 14. Signature Page (Instructions Page 34)

If co-applicants are necessary, each entity must submit an original, separate signature page.

Permit Number: Click to enter text.

Applicant: Campaholics Country, LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): Austin Karnes

Signatory title: Owner

Signature: _____ Date: 3/28/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Austin Karnes

on this 28th day of March, 2024.

My commission expires on the 7th day of February, 2028.

Tiffanie Karnes

Notary Public

TIFFANIE KARNES
Notary Public, State of Texas
Comm. Expires 02-07-2028
Notary ID 134751507

[SEAL]

Collin

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable: Attachment 6

- ☒ The applicant's property boundaries
- ☒ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☒ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided. Attachment 7

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☒ Four sets of labels Attachment 8

D. Provide the source of the landowners' names and mailing addresses: Grayson County Appraisal District

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☒ No

If **yes**, provide the location and foreseeable impacts and effects this application has on the land(s):

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

Provide original ground level photographs. Indicate with checkmarks that the following information is provided.

- ☒ At least one original photograph of the new or expanded treatment unit location Attachment 9
- ☒ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured. Attachment 10
- ☐ At least one photograph of the existing/proposed effluent disposal site
- ☒ A plot plan or map showing the location and direction of each photograph Attachment 11

Section 3. Buffer Zone Map (Instructions Page 38)

A. Buffer zone map. Provide a buffer zone map on 8.5 x 11-inch paper with all of the following information. The applicant's property line and the buffer zone line may be distinguished by using dashes or symbols and appropriate labels.

- The applicant's property boundary;
- The required buffer zone; and
- Each treatment unit; and
- The distance from each treatment unit to the property boundaries.

B. Buffer zone compliance method. Indicate how the buffer zone requirements will be met. Check all that apply.

- ☒ Ownership
- ☐ Restrictive easement
- ☒ Nuisance odor control
- ☐ Variance

C. Unsuitable site characteristics. Does the facility comply with the requirements regarding unsuitable site characteristic found in 30 TAC § 309.13(a) through (d)?

☐ Yes ☒ No

Buffer Zone Map.pdf New Treatment Unit Location.pdf

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: 20971 SPIF - Campaholics 2024.do Attachment 13

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

Use this form to submit the Application Fee, if the mailing the payment.

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- **Do Not mail this form with the application form.**
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality
Financial Administration Division
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP **Waste Permit No:** Click to enter text.

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

   Name of Project or Site: Campaholics Resort

   Physical Address of Project or Site: 738 Campground Rd, Sherman, TX 75090-5505

   If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., Miss): Click to enter text.

Full legal name (Last Name, First Name, Middle Initial): Click to enter text.

Driver's License or State Identification Number: Click to enter text.

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text. Fax Number: Click to enter text.

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of domestic wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate by checking Yes that each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until the items below have been addressed.

Core Data Form (TCEQ Form No. 10400) ☒ Yes
(Required for all application types. Must be completed in its entirety and signed. Note: Form may be signed by applicant representative.)

Correct and Current Industrial Wastewater Permit Application Forms ☒ Yes
(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)

Water Quality Permit Payment Submittal Form (Page 19) ☒ Yes
(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)

7.5 Minute USGS Quadrangle Topographic Map Attached ☒ Yes
(Full–size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)

Current/Non-Expired, Executed Lease Agreement or Easement ☒ N/A ☐ Yes

Landowners Map ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Things to Know:

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

Landowners Cross Reference List ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Landowners Labels or USB Drive attached ☐ N/A ☒ Yes
(See instructions for landowner requirements)

Original signature per 30 TAC § 305.44 – Blue Ink Preferred ☒ Yes
(If signature page is not signed by an elected official or principle executive officer, a copy of signature authority/delegation letter must be attached)

Plain Language Summary ☒ Yes

TCEQ Use Only

Attachment 1

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN		**RN**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* *If new Customer, enter previous Customer below:*

Campaholics Country, LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0804643525	32085416488	88-3264777	

11. Type of Customer: ☒ Corporation ☐ Individual Partnership: ☐ General ☒ Limited

Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☒ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐Owner ☐ Operator ☒ Owner & Operator
☐Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:							
	738 Campground Rd						
City	Sherman	**State**	TX	**ZIP**	75090	**ZIP + 4**	5505

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	austin@campaholicsresorts.com

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*
(214) 808-4581		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Campaholics Resorts, LLC								
23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	738 Campground Rd							
	City	Sherman	**State**	TX	**ZIP**	75090	**ZIP + 4**	5505
24. County	Grayson							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
7033		721211	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

Campground Resort

34. Mailing Address:								
	738 Campground Rd							
	City	**Sherman**	**State**	**TX**	**ZIP**	**75090**	**ZIP + 4**	**5505**

35. E-Mail Address:	**austin@campaholicsresorts.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(214) 808-4581		**( ) -**

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	Andrew Diehl	**41. Title:**	Sr Project Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(972 **)** 488-3737		**(** 972 **)** 488-6732	adiehl@ceieng.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Campaholics Country, LLC	**Job Title:**	Owner

Name *(In Print):*	Austin Karnes	**Phone:**	**(** 214 **)** 808- **4581**
Signature:		**Date:**	3/28/2024

Attachment 2

Tom Bean ISD

PO Box 128 · 100 E Garner · Tom Bean, TX 75489-0128 · 903/546-6076 · Fax 903/546-6104 · www.tbisd.org

To Whom It May Concern,

Tom Bean ISD does not currently require bilingual classes for students at the elementary and middle school campuses. While we do offer various options, including Spanish courses, these are elective courses for students and parents must consent to students enrolling in the courses each school year. If you need any additional information, please do not hesitate to let me know. Thank you very much.

Steve Goodman
Superintendent

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in 30 TAC Section 39.426, **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Campaholics Country, LLC (CN606175024) proposes to operate Campaholics Resorts (RN111798070), a Campground/RV Resort. The facility will be located at 738 Campground Rd., in Sherman, Grayson County, Texas 75090. New application to discharge up to 30,000 gallons of treated and disinfected domestic wastewater per day into an intermittent stream located on resort property. The stream is a tributary of Cedar Creek.

Discharges from the facility are expected to contain oxygen consuming waste, suspended solids, nitrogen, phosphorus, and fecal coliform. These pollutants will be reduced to below EPA limits for municipal wastewater treatment. Domestic wastewater will be treated by settling and anaerobic digestion in multiple collection tanks located throughout the property, primarily treated black water will be conveyed via sealed force main to a proprietary Moving Bed Biofilm Reactor (MBBR). This technology will accomplish organics and nutrient reduction to achieve TCEQ effluent limits for this location. Treated wastewater will outfall via gravity through a UV disinfection system. The system will contain multiple redundancies to prevent

the discharge of untreated or inadequately treated waste into the environment. These redundancies include 3 days storage capacity ahead of the treatment reactor, on site replacement units for critical equipment, portable backup power, duplicate reactors in parallel, and duplicate UV banks in parallel.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí **/AGUAS PLUVIALES**

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

INSTRUCTIONS

1. Enter the name of applicant in this section. The applicant name should match the name associated with the customer number.
2. Enter the Customer Number in this section. Each Individual or Organization is issued a unique 11-digit identification number called a CN (e.g. CN123456789).
3. Choose “operates” in this section for existing facility applications or choose “proposes to operate” for new facility applications.
4. Enter the name of the facility in this section. The facility name should match the name associated with the regulated entity number.
5. Enter the Regulated Entity number in this section. Each site location is issued a unique 11-digit identification number called an RN (e.g. RN123456789).
6. Choose the appropriate article (a or an) to complete the sentence.
7. Enter a description of the facility in this section. For example: steam electric generating facility, nitrogenous fertilizer manufacturing facility, etc.
8. Choose “is” for an existing facility or “will be” for a new facility.
9. Enter the location of the facility in this section.
10. Enter the City nearest the facility in this section.
11. Enter the County nearest the facility in this section.
12. Enter the zip code for the facility address in this section.
13. Enter a summary of the application request in this section. For example: renewal to discharge 25,000 gallons per day of treated domestic wastewater, new application to discharge process wastewater and stormwater on an intermittent and flow-variable basis, or major amendment to reduce monitoring frequency for pH, etc. If more than one outfall is included in the application, provide applicable information for each individual outfall.
14. List all pollutants expected in the discharge from this facility in this section. If applicable, refer to the pollutants from any federal numeric effluent limitations that apply to your facility.
15. Enter the discharge types from your facility in this section (e.g., stormwater, process wastewater, once through cooling water, etc.)
16. Choose the appropriate verb tense to complete the sentence.
17. Enter a description of the wastewater treatment used at your facility. Include a description of each process, starting with initial treatment and finishing with the outfall/point of disposal. Use additional lines for individual discharge types if necessary.

Questions or comments concerning this form may be directed to the Water Quality Division’s Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example

Individual Industrial Wastewater Application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Attachment 4

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☐ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

An RV Resort producing domestic wastewater in low volume not located near the geographical or met

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☒ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☒ Texas Pollutant Discharge Elimination System (TPDES)

☐ Texas Land Application Permit (TLAP)

☐ State Only Concentrated Animal Feeding Operation (CAFO)

☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Discharge commercial wastewater from an RV resort with a design flow of .015 MGD with effluent organics concentration under 20 mg/L CBOD and TSS and disinfected to under 630 cfu of E. coli per 100 ml per TCEQ direct discharge limits and site specific standards.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

Sherman

(City)

Grayson

(County)

Census Tract 11.01 Grayson, TX

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☒ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

89.8%

(b) Per capita income for population near the specified location

$39,822.00

(c) Percent of minority population and percent of population by race within the specified location

22% Minority.
79% White, 6% Black, 0% Native, 2% Asian, 0% Islander, 3% Other, 3% Two+, 8% Hispanic

(d) Percent of Linguistically Isolated Households by language within the specified location

N/A - No data available per Census Report Attached.

(e) Languages commonly spoken in area by percentage

N/A - No data available per Census Report Attached.

(f) Community and/or Stakeholder Groups

N/A

(g) Historic public interest or involvement

Grayson County Historical Society. Holds regular meetings and are engaged in an active program focusing on preserving and stimulating interest in the history of the county.

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☒ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☐ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

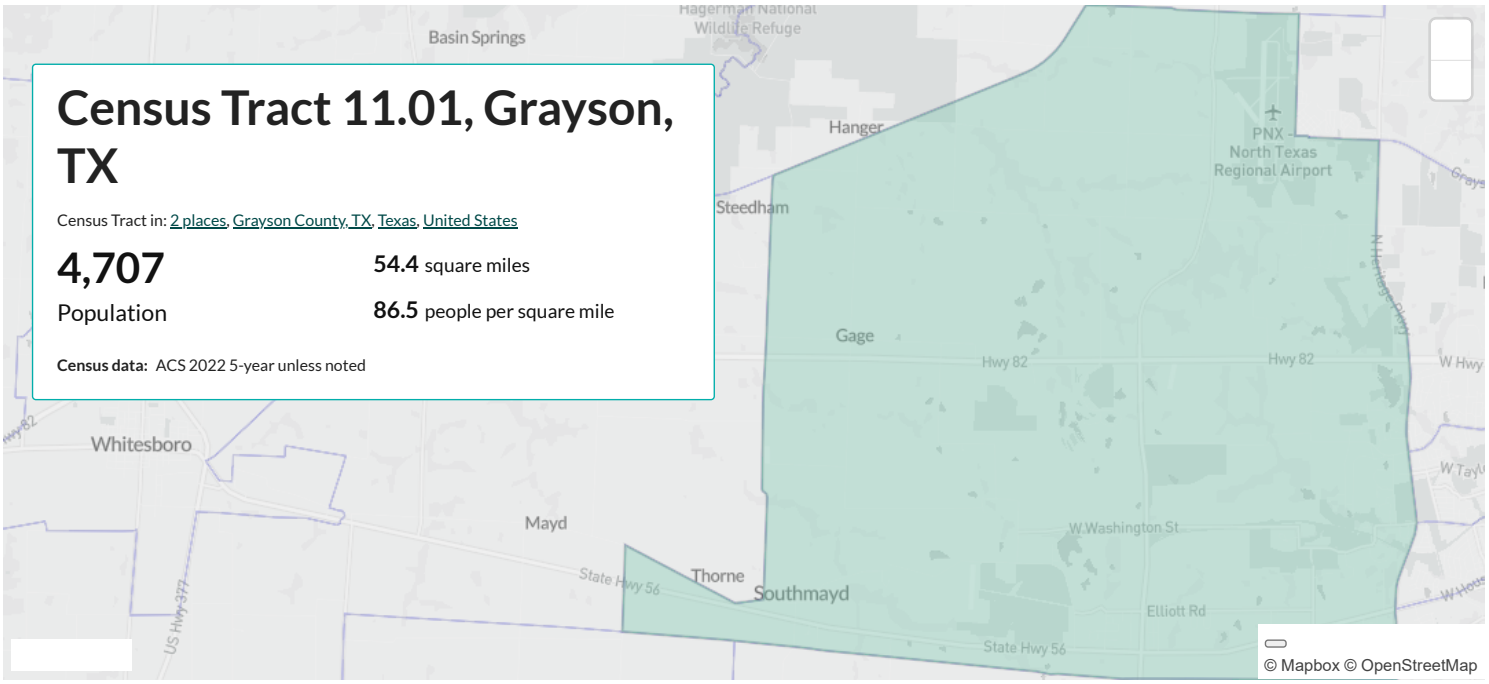
☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

Census Reporter

Search for places, tables, topics, or glossaries Search



Census Tract 11.01, Grayson, TX

Census Tract in: 2 places, Grayson County, TX, Texas, United States

4,707
Population

54.4 square miles

86.5 people per square mile

Census data: ACS 2022 5-year unless noted

Find data for this place Search by table or column name...

Hover for margins of error and contextual data.

Demographics

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

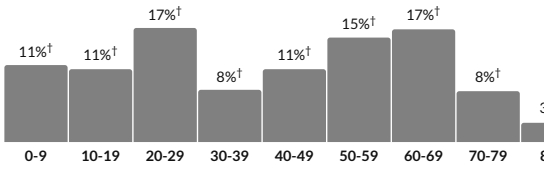
Age

44.7
Median age

about 25 percent higher than the figure in Sherman: 35.3

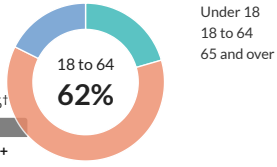
about 10 percent higher than the figure in Grayson County: 39.2

Population by age range



Show data / Embed

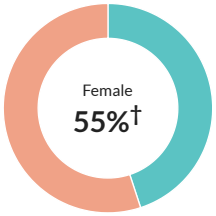
Population by age category



Show data / Embed

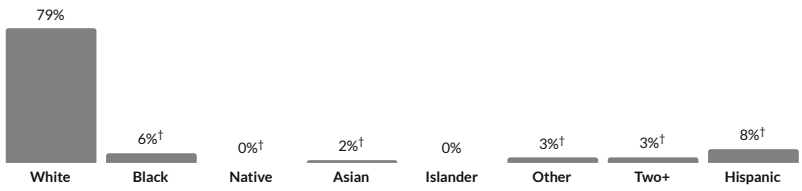
† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Sex



Show data / Embed

Race & Ethnicity



* Hispanic includes respondents of any race. Other categories are non-Hispanic.

Show data / Embed

Economics

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Income

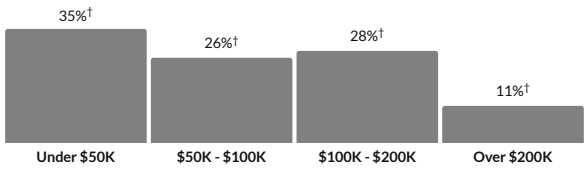
$39,822
Per capita income

about 1.3 times the amount in Sherman: $30,605

$67,316
Median household income

about 20 percent higher than the amount in Sherman: $58,020

Household income



about 20 percent higher than the amount in Grayson County: $34,643

about the same as the amount in Grayson County: $66,608

Show data / Embed

Poverty

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

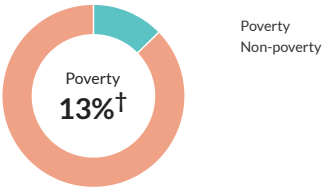
10.9%

Persons below poverty line

about 80 percent of the rate in Sherman: 12.8% †

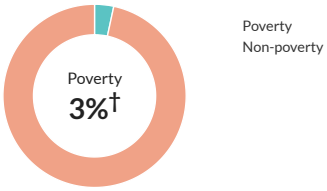
a little less than the rate in Grayson County: 11.4% †

Children (Under 18)



Show data / Embed

Seniors (65 and over)



Show data / Embed

Transportation to work

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

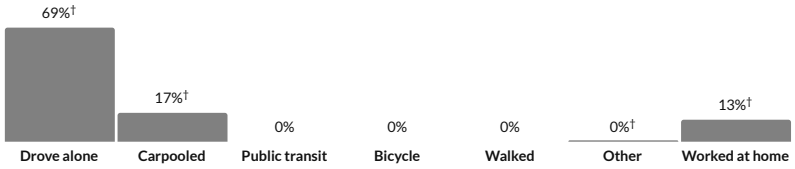
20.8 minutes

Mean travel time to work

a little less than the figure in Sherman: 21.3

about 80 percent of the figure in Grayson County: 25.7

Means of transportation to work



* Universe: Workers 16 years and over

Show data / Embed

Families

Households

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

1,853

Number of households

Sherman: 16,800

Grayson County: 52,084

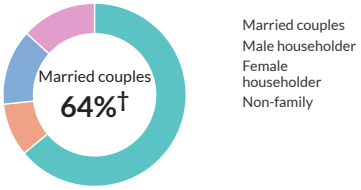
2.5

Persons per household

about the same as the figure in Sherman: 2.5

about the same as the figure in Grayson County: 2.6

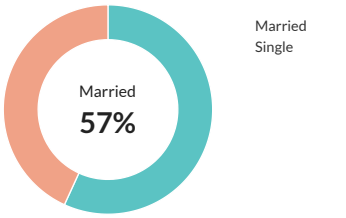
Population by household type



Show data / Embed

Marital status

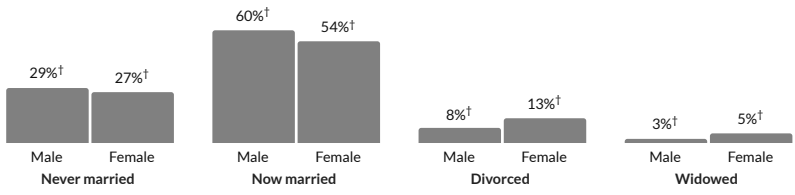
† Margin of error is at least 10 percent of the total value. Take care with this statistic.



* Universe: Population 15 years and over

Show data / Embed

Marital status, by sex



Show data / Embed

Fertility

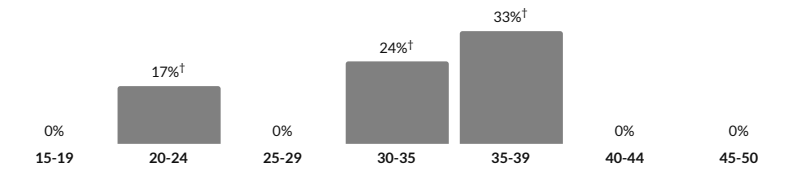
† Margin of error is at least 10 percent of the total value. Take care with this statistic.

10.5%

Women 15-50 who gave birth during past year

more than 1.5 times the rate in Sherman: 6.2% †

Women who gave birth during past year, by age group



more than double the rate in Grayson County: 5% †

* Universe: Women 15 to 50 years

Show data / Embed

Housing

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Units & Occupancy

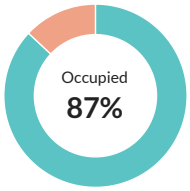
2,131

Number of housing units

Sherman: 18,546

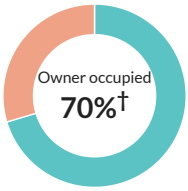
Grayson County: 58,923

Occupied vs. Vacant



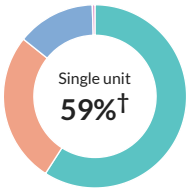
Show data / Embed

Ownership of occupied units



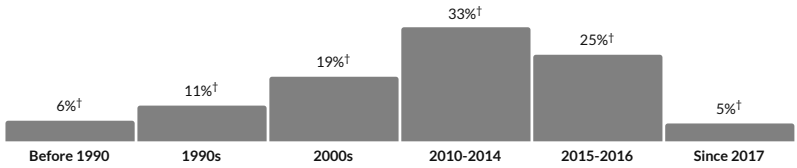
Show data / Embed

Types of structure



Show data / Embed

Year moved in, by percentage of population



Show data / Embed

Value

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

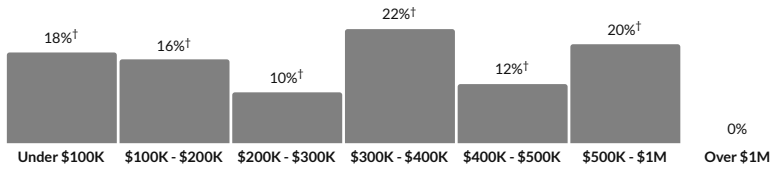
$324,600

Median value of owner-occupied housing units

more than 1.5 times the amount in Sherman: $197,400

about 1.5 times the amount in Grayson County: $206,900

Value of owner-occupied housing units



Show data / Embed

Geographical mobility

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

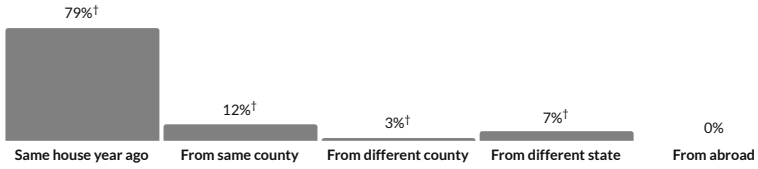
21.1%

Moved since previous year

about the same as the rate in Sherman: 21.4% †

about 25 percent higher than the rate in Grayson County: 17.2%

Population migration since previous year



Show data / Embed

Social

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Educational attainment

89.8%

High school grad or higher

about the same as the rate in Sherman: 89.2%

about the same as the rate in Grayson County: 90.4%

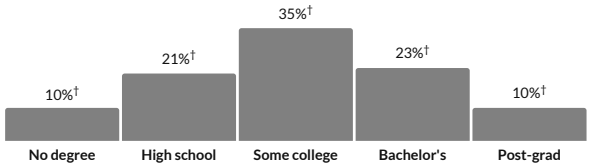
33.2%

Bachelor's degree or higher

about 1.5 times the rate in Sherman: 22.6% †

about 1.5 times the rate in Grayson County: 22.8%

Population by highest level of education



* Universe: Population 25 years and over

Show data / Embed

Language

N/A

Persons with language other than English spoken at home

Language at home, children 5-17

No data available

Language at home, adults 18+

No data available

Place of birth

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

6%

Foreign-born population

about half the rate in Sherman: 11.3% †

about 90 percent of the rate in Grayson County: 6.7% †

Place of birth for foreign-born population

Show data / Embed

Veteran status

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

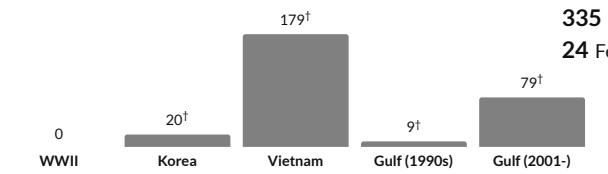
9.6%

Population with veteran status

about 1.4 times the rate in Sherman: 6.8% †

a little higher than the rate in Grayson County: 9.2%

Veterans by wartime service



359 Total veterans
335 Male
24 Female

* Civilian veterans who served during wartime only

Show data / Embed

Hover for margins of error and contextual data.

Citation: U.S. Census Bureau (2022). *American Community Survey 5-year estimates.* Retrieved from *Census Reporter Profile page for Census Tract 11.01, Grayson, TX* <http://censusreporter.org/profiles/14000US48181001101-census-tract-1101-grayson-tx/>

Attachment 14

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map OnDemand Topo

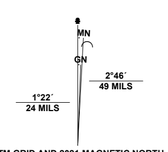
7.5-MINUTE TOPO QUADRANGLE
Custom Extent
7.5-MINUTE TOPO

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov



UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

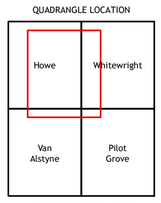
U.S. National Grid
100,000 - m Square ID
QC
Grid Zone Designation
14S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Low

QUADRANGLE LOCATION



ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

7.5-MINUTE TOPO, TX
2023

Surrounding property contact list – 738 Campground Rd Sherman, Tx – Grayson County

Subject property: (X)
Property Id: 127159
Legal Description: G-1195 Trebino Ignacio A- G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd, Tom Bean, Tx 75489; Grayson County

Surrounding parcels:

1
1. Property ID: 127149
2. Legal Description: G-0267 Cox William A-G0267, Acres 28.203
3. Owner: Smith Kevin F
4. Address: 476 Campground Rd Sherman, TX 75090

2
1. Property ID: 127161
2. Legal Description: G-1195 TREBINO IGNACIO A-G1195, ACRES 48.6
3. Owner: SMITH KEVIN F & KIMBERLY A
4. Address: 476 CAMPGROUND RD Sherman TX 75090

3
1. Property ID: 438338
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 15.0
3. Owner: ANDERSON JOHN HOUSTON ETUX JULIE
4. Address: 475 CAMPGROUND ROAD Sherman TX 75090

4
1. Property ID: 388762
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 16.174
3. Owner: COMSIA JOHN R ETUX LISA D
4. Address: PO BOX 1190 Denison TX 75021

5
1. Property ID: 368720
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 3.868
3. Owner: WETZEL BRUCE LEE ETUX BOBBY LYNN
4. Address: 977 CAMPGROUND ROAD Sherman TX 75090

6
1. Property ID: 356212
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 6.0
3. Owner: WETZEL BRUCE L ETUX BOBBY
4. Address: 977 CAMPGROUND ROAD Sherman TX 75090

7
1. Property ID: 127315
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 1.72
3. Owner: COMSIA JOHN R ETUX LISA D
4. Address: PO BOX 1190 Denison TX 75021

8
1. Property ID: 218683
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 105.483
3. Owner: WETZEL BRUCE L ETUX BOBBY
4. Address: 977 CAMPGROUND ROAD Sherman TX 75090

9
1. Property ID: 129118
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 116.2200
3. Owner: ANDERSON STEFAN ELAINE TRUSTEE
4. Address: 475 CAMPGROUND RD Sherman TX 75090

10
1. Property ID: 207703
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 15.03
3. Owner: HO PAUL V ETUX CHRISTINE P
4. Address: 604 Ashfield Richardson TX 75081

11
1. Property ID: 129138
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 13.1
3. Owner: MARKS LLOYD DUANE TRUSTEE CAROLYN DOSIER IREV TRUST FEB 13TH 2018
4. Address: 5282 LUELLA RD Sherman TX 75090

12
1. Property ID: 127312
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 27.613
3. Owner: WETZEL BRUCE L ETUX BOBBY
4. Address: 977 Campground Rd Sherman TX 75090

13
1. Property ID: 127295
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 33.13
3. Owner: REYNOLDS LARRY DICK
4. Address: 5385 State Hwy 11 Sheman TX 75090

Surrounding Parcel Search Source:

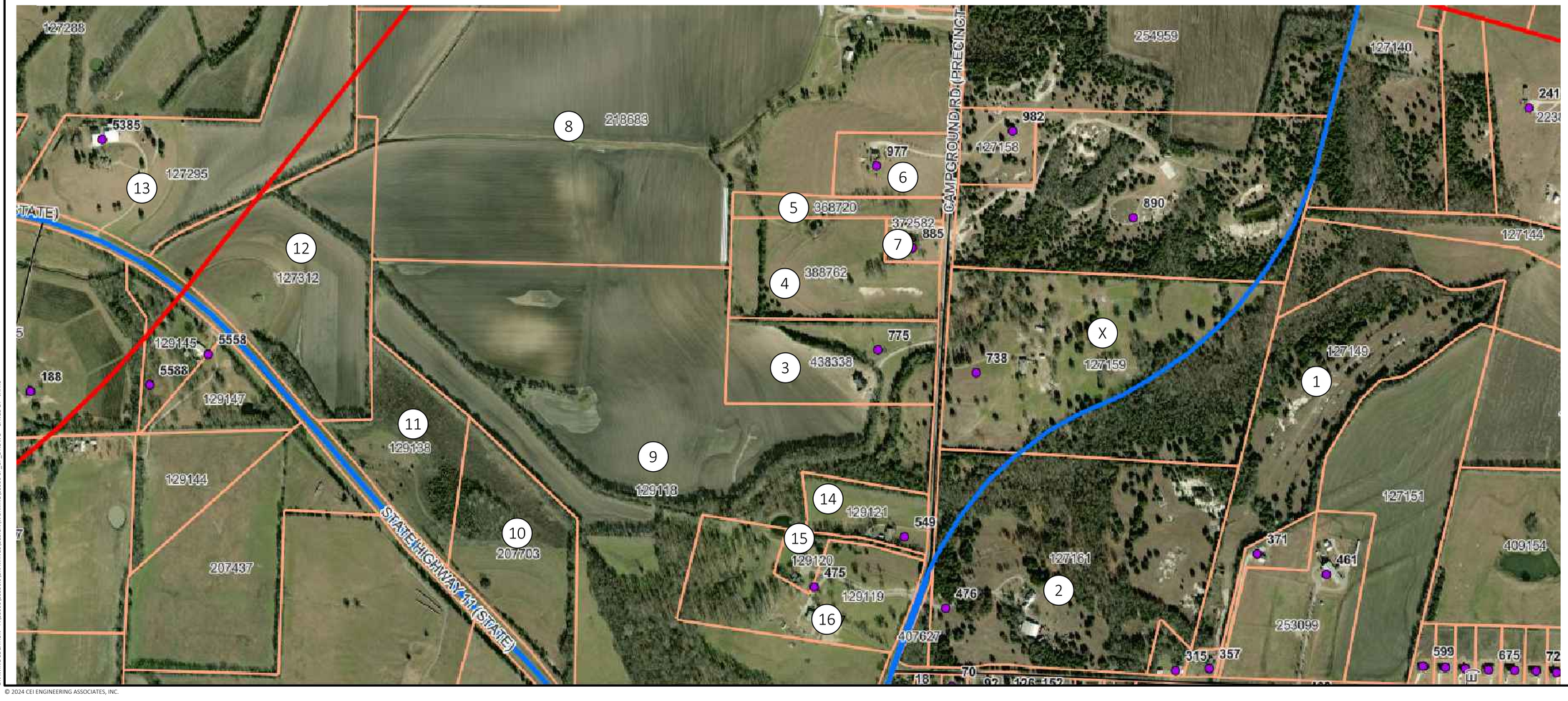
14
1. Property ID: 129121
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 7.05
3. Owner: LITTRELL JOE M
4. Address: 549 Campground Road Sherman TX 75090

15
1. Property ID: 129120
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 2.37
3. Owner: ANDERSON BRUCE
4. Address: 475 Campground Road Sherman TX 75090

16
1. Property ID: 129119
2. Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 16.206
3. Owner: ANDERSON BRUCE
4. Address: 475 Campground Road Sherman TX 75090

Surrounding Parcel Search Source:
Grayson County TX Central Appraisal District: https://graysonappraisal.org/property-search/
Utilized Property ID for Site: 127159
Map Viewer with Surrounding Property information – Grayson County CAD Search:
https://gis.bisclient.com/graysoncad/index.html?find=127159

Tom Bean ISD Contacts:
McBride, Jan – District Counselor jan.mcbride@tombean-isd.org
Source – Tom Bean ISD Staff Directory: https://www.tbisd.org/578591_3



N

811 Know what's below. Call before you dig.

CEI Solutions for Land and Life

CEI ENGINEERING ASSOCIATES, INC.
3030 LBJ FREEWAY, SUITE 920
DALLAS, TX 75234
PHONE: (972) 488-3737
FAX: (972) 488-6732

CAMPAHOLICS RESORTS LLC
CAMPAHOLICS
738 CAMPGROUND ROAD
TOM BEAN, TX

PRELIMINARY
NOT FOR
CONSTRUCTION

PROFESSIONAL OF RECORD	AED
PROJECT MANAGER	JEH
DESIGNER	MDT
CEI PROJECT NUMBER	33556
DATE	1/30/2024
REVISION	REV-0

LANDOWNER MAP
SHEET TITLE

SHEET NUMBER
1 of 1

DRAWING LOCATION - P:\33000\33556.0\DRAWINGS\DESIGN\WORKING\33556-SP_LIP_DT.DWG – SAVED BY - JHAYS

Attachment 7

Surrounding Property Contact List
Project Address: 738 Campground Rd Sherman, TX – Grayson County

Subject property:
Property ID: 127159
Legal Description: G-1195 Trebino Ignacio A- G1195, Acres 49.498
Owner: Campaholics Country, LLC
Address: 738 Campground Rd, Sherman, TX 75489; Grayson County

Surrounding parcels:

1. Property ID: 127149
   Legal Description: G-0267 Cox William A-G0267, Acres 28.203
   Owner: Smith Kevin F
   Address: 476 Campground Rd, Sherman, TX 75090

2. Property ID: 127161
   Legal Description: G-1195 Trebino Ignacio A-G1195, Acres 48.6
   Owner: SMITH KEVIN F & KIMBERLY A
   Address: 476 Campground Rd, Sherman, TX 75090

3. Property ID: 438338
   Legal Description: G-1300 Williamson R M A-G1300, Acres 15.0
   Owner: ANDERSON JOHN HOUSTON ETUX JULIE
   Address: 475 Campground Rd, Sherman, TX 75090

4. Property ID: 388762
   Legal Description: G-1300 Williamson R M A-G1300, Acres 16.174
   Owner: COMSIA JOHN R ETUX LISA D
   Address: PO Box 1190, Denison, TX 75021

5. Property ID: 368720
   Legal Description: G-1300 Williamson R M A-G1300, Acres 3.868
   Owner: WETZEL BRUCE LEE ETUX BOBBY LYNN
   Address: 977 Campground Rd, Sherman, TX 75090

6. Property ID: 356212
   Legal Description: G-1300 Williamson R M A-G1300, Acres 6.0
   Owner: WETZEL BRUCE L ETUX BOBBY
   Address: 977 Campground Rd, Sherman, TX 75090

7. Property ID: 127315
   Legal Description: G-1300 Williamson R M A-G1300, Acres 1.72
   Owner: COMSIA JOHN R ETUX LISA D
   Address: PO Box 1190, Denison, TX 75021

8. Property ID: 218683
   Legal Description: G-1300 Williamson R M A-G1300, Acres 105.483
   Owner: WETZEL BRUCE L ETUX BOBBY
   Address: 977 Campground Rd, Sherman, TX 75090

9. Property ID: 129118
   Legal Description: G-1300 Williamson R M A-G1300, Acres 116.2200
   Owner: ANDERSON STEFAN ELAINE TRUSTEE
   Address: 475 Campground Rd, Sherman, TX 75090

10. Property ID: 207703
    Legal Description: G-1300 Williamson R M A-G1300, Acres 15.03
    Owner: HO PAUL V ETUX CHRISTINE P
    Address: 604 Ashfield St, Richardson, TX 75081

11. Property ID: 129138
    Legal Description: G-1300 Williamson R M A-G1300, Acres 13.1
    Owner: MARKS LLOYD DUANE TRUSTEE CAROLYN DOSIER IREV TRUST FEB 13TH 2018
    Address: 5282 Luella Rd, Sherman, TX 75090

12. Property ID: 127312
    Legal Description: G-1300 Williamson R M A-G1300, Acres 27.613
    Owner: WETZEL BRUCE L ETUX BOBBY
    Address: 977 Campground Rd, Sherman, TX 75090

13. Property ID: 127295
    Legal Description: G-1300 Williamson R M A-G1300, Acres 33.13
    Owner: REYNOLDS LARRY DICK
    Address: 5385 State Hwy 11, Sheman, TX 75090

14. Property ID: 129121
    Legal Description: G-1300 Williamson R M A-G1300, Acres 7.05
    Owner: LITTRELL JOE E
    Address: 549 Campground Road, Sheman, TX 75090

15. Property ID: 129120
    Legal Description: G-1300 Williamson R M A-G1300, Acres 2.37
    Owner: ANDERSON BRUCE
    Address: 475 Campground Road, Sheman, TX 75090

16. Property ID: 129119
    Legal Description: G-1300 Williamson R M A-G1300, Acres 16.206
    Owner: ANDERSON BRUCE
    Address: 475 Campground Road, Sheman, TX 75090

Kevin F Smith
476 Campground Rd
Sherman, TX 75090

Kevin F Smith & Kimberly A
476 Campground Rd
Sherman, TX 75090

Anderson John Houston Etux Julie
475 Campground Rd
Sherman, TX 75090

Comsia John R Etux Lisa D
PO Box 1190
Denison, TX 75021

Wetzel Bruce Lee Etux Bobby Lynn
977 Campground Rd
Sherman, TX 75090

Wetzel Bruce L Etux Bobby
977 Campground Rd
Sherman, TX 75090

Comsia John R Etux Lisa D
PO Box 1190
Denison, TX 75021

Wetzel Bruce L Etux Bobby
977 Campground Rd
Sherman, TX 75090

Anderson Stefan Elaine Trustee
475 Campground Rd
Sherman, TX 75090

Ho Paul V Etux Christine P
604 Ashfield
Richardson, TX 75081

Marks Lloyd Duane Trustee Carolyn Dosier /
Irev Trust Feb 13th 2018
5282 Luella Rd
Sherman, TX 75090

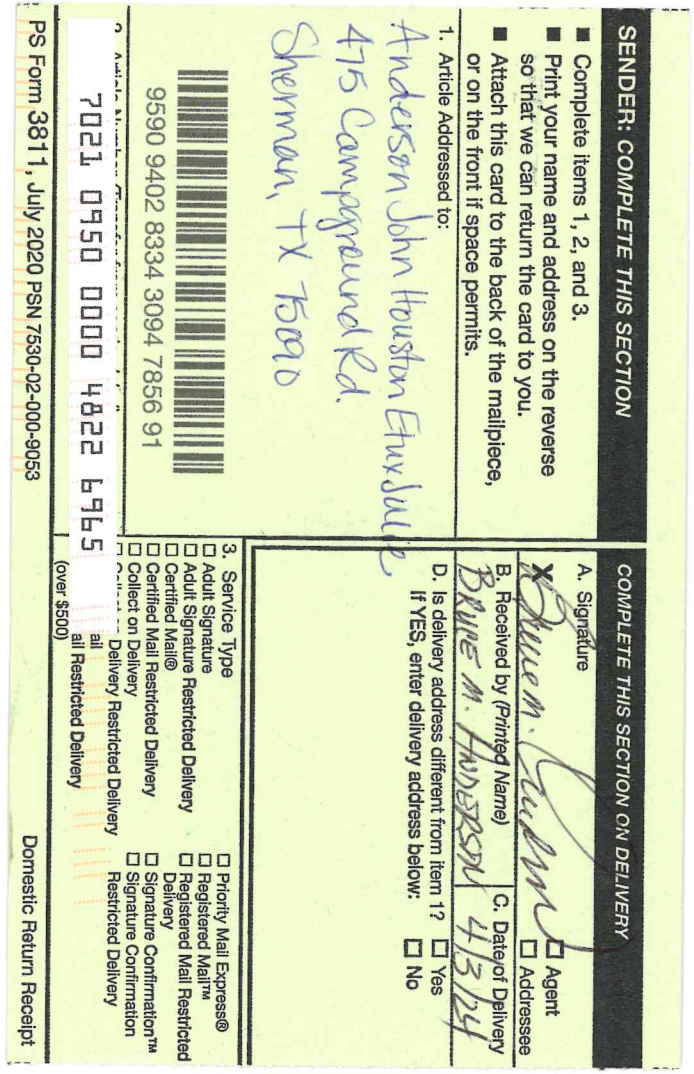
Wetzel Bruce L Etux Bobby
977 Campground Rd
Sherman, TX 75090

Reynolds Larry Dick
5385 State Hwy 11
Sherman, TX 75090

Littrell Joe M
549 Campground Rd
Sherman, TX 75090

Anderson Bruce
475 Campground Rd
Sherman, TX 75090

Anderson Bruce
475 Campground Rd
Sherman, TX 75090



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Anderson John Houston Etux Julie
475 Campground Rd.
Sherman, TX 7590

9590 9402 8334 3094 7856 91

2. Article Number (Transfer from service label)

7021 0950 0000 4822 6965

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Bruce M. Anderson

☐ Agent
☐ Addressee

B. Received by (Printed Name)

BRUCE M. ANDERSON

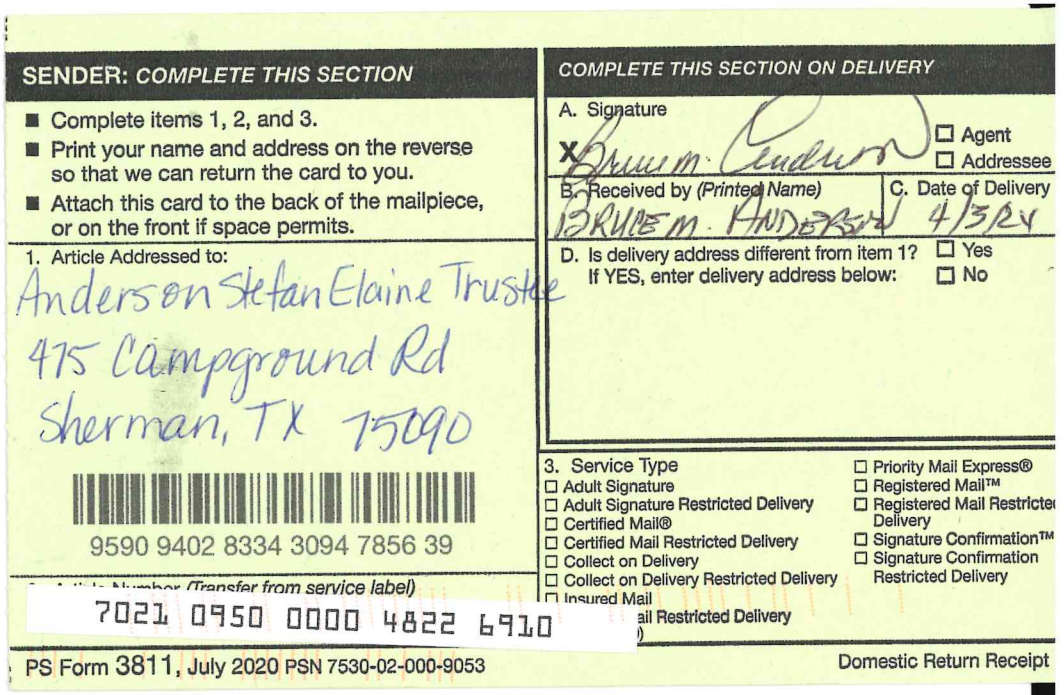
C. Date of Delivery

4/3/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Anderson Stefan Elaine Trustee
475 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 39

2. Article Number (Transfer from service label)

7021 0950 0000 4822 6910

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Bruce M. Anderson

☐ Agent
☐ Addressee

B. Received by (Printed Name)

BRUCE M. ANDERSON

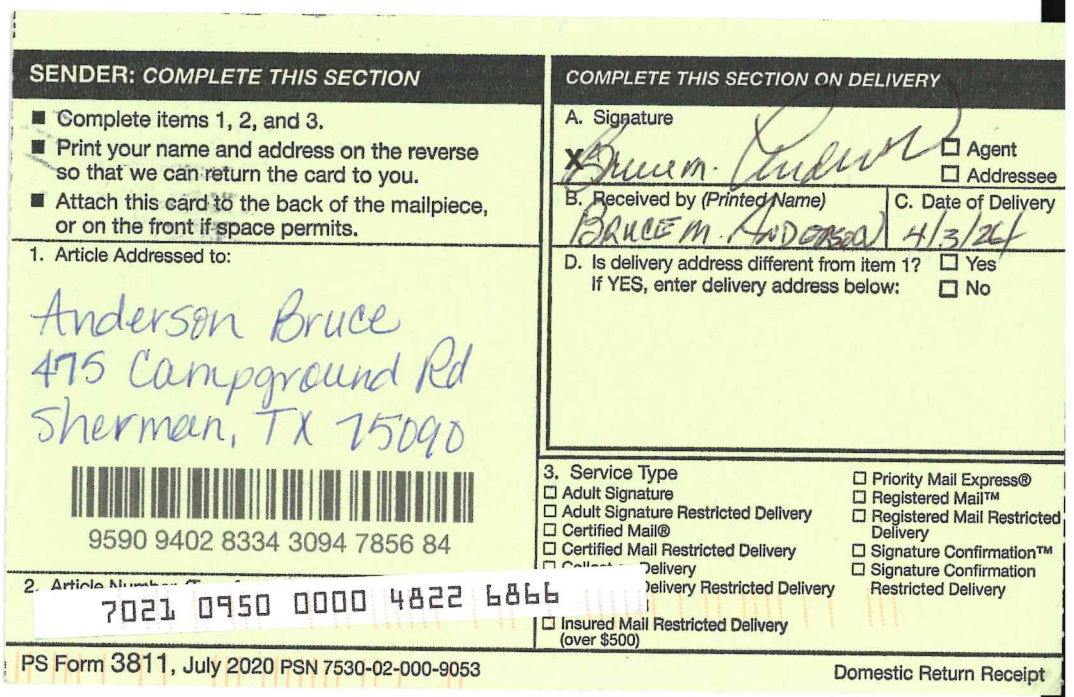
C. Date of Delivery

4/3/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Anderson Bruce
475 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 84

2. Article Number (Transfer from service label)

7021 0950 0000 4822 6866

PS Form 3811, July 2020 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Bruce M. Anderson

☐ Agent
☐ Addressee

B. Received by (Printed Name)

BRUCE M. ANDERSON

C. Date of Delivery

4/3/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Anderson Bruce
475 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 22

2. Article Number (Transfer from service label) 7021 0950 0000 4822 6927

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) BRUCE M ANDERSON C. Date of Delivery 4/6/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Wetzel Bruce L Etux Bobby
977 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 53

2. Article Number (Transfer from service label) 7021 0950 0000 4822 6897

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Bobby Wetzel C. Date of Delivery 4/1/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Wetzel Bruce L Etux Bobby
977 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 60

2. Article Number (Transfer from service label) 7021 0950 0000 4822 6880

PS Form 3811, July 2020 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Bobby Wetzel C. Date of Delivery 4/1/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Witzel Bruce Lee Etux
Bobby Lynn
977 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 77

2 7021 0950 0000 4822 6873

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Bobby Witzel ☐ Agent ☐ Addressee

B. Received by (Printed Name) Bobby Witzel C. Date of Delivery 4/11/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Wetzel Bruce L Etux Bobby
977 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 46

Article Number (Transfer from service label)
7021 0950 0000 4822 6903

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Bobby Witzel ☐ Agent ☐ Addressee

B. Received by (Printed Name) Bobby Witzel C. Date of Delivery 4/11/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Kevin F Smith & Kimberly A
476 Campground Rd.
Sherman, TX 75090

9590 9402 8334 3094 7855 85

7021 0950 0000 4822 6958

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Kim Smith ☐ Agent ☒ Addressee

B. Received by (Printed Name) Kim Smith C. Date of Delivery 4-5-24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Littrell Joe M
549 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7856 08

2. Article Number *(Transfer from service label)*

7021 0950 0000 4822 6941

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Joe M Littrell ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Joe M. Littrell

C. Date of Delivery 4/5/24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Kevin F. Smith
476 Campground Rd
Sherman, TX 75090

9590 9402 8334 3094 7855 92

2. Article Number *(Transfer from service label)*

7019 1120 0000 1202 0529

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Kim Smith ☒ Agent ☐ Addressee

B. Received by *(Printed Name)* Kim Smith

C. Date of Delivery 4-5-24

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt

7021 0950 0000 4822 6927

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Postmark Here
BENTOVILLE MPO
MAR 28 2024
72712 USPS

Sent To: Anderson Bruce
Street and Apt. No., or PO Box No.: 415 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7019 1120 0000 1202 0529

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$ 4.35

Extra Services & Fees *(check box, add fee as appropriate)*
- ☒ Return Receipt (hardcopy) $ 3.55
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$ .63

Total Postage and Fees
$ 8.53

Postmark Here
BENTOVILLE MPO
MAR 28 2024
72712 USPS

Sent To: Kevin F. Smith
Street and Apt. No., or PO Box No.: 416 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6941

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Postmark Here
BENTOVILLE MPO
MAR 28 2024
72712 USPS

Sent To: Littrell Joe M
Street and Apt. No., or PO Box No.: 349 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6934

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

Postmark Here
BENTOVILLE MPO
MAR 28 2024
72712 USPS

Sent To: Reynolds Larry Dick
Street and Apt. No., or PO Box No.: 5385 State Hwy 11
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6903

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 28 2024
72712 USPS

Sent To: Wetzel Bruce L Etux Bobby
Street and Apt. No., or PO Box No.: 977 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6910

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 28 2024
72712 USPS

Sent To: Anderson Stefan Elaine Trustee
Street and Apt. No., or PO Box No.: 275 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6880

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 28 2024
72712 USPS

Sent To: Wetzel Bruce L Etux Bobby
Street and Apt. No., or PO Box No.: 977 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6897

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 28 2024
72712 USPS

Sent To: Wetzel Bruce L Etux Bobby
Street and Apt. No., or PO Box No.: 977 Campground Rd
City, State, ZIP+4®: Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6965

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 2[illegible] 2024
72712 USPS

Sent To
Anderson John Houston Etux Julie
Street and Apt. No., or PO Box No.
415 Campground Rd.
City, State, ZIP+4®
Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6873

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 2[illegible] 2024
72712 USPS

Sent To
Wetzel Bruce Lee Etux Bobby Lynn
Street and Apt. No., or PO Box No.
977 Campground Rd
City, State, ZIP+4®
Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6958

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 2[illegible] 2024
72712 USPS

Sent To
Kevin F. Smith & Kimberly A.
Street and Apt. No., or PO Box No.
474 Campground Rd.
City, State, ZIP+4®
Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7021 0950 0000 4822 6866

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

Certified Mail Fee
$

Extra Services & Fees *(check box, add fee as appropriate)*
- ☐ Return Receipt (hardcopy) $
- ☐ Return Receipt (electronic) $
- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
$

Total Postage and Fees
$

BENTOVILLE MPO
Postmark Here
MAR 2[illegible] 2024
72712 USPS

Sent To
Anderson Bruce
Street and Apt. No., or PO Box No.
415 Campground Rd.
City, State, ZIP+4®
Sherman, TX 75090

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Anderson Bruce
Property ID: 129120
Legal Description: G-1300 Williamson R M A-G1300, Acres 2.37
475 Campground Road
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground R., Tom Bean, TX 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream west of the west boundary of your property and to the west.
.
Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Littrell Joe M
Property ID: 129121
Legal Description: G-1300 Williamson R M A-G1300, Acres 7.05
549 Campground Road
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream north of the north boundary of your property to the west.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Kevin F. Smith
Property ID: 127149
Legal Description: G-0267 Cox William A-G0267, Acres 28.203
476 Campground Rd
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G-1195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country, LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Mr. Smith:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through your property at 476 Campground Road and exits your property under Campground Road to the west.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectfully Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Anderson Stefan Elaine Trustee
Property ID: 129118
Legal Description: G-1300 Williamson R M A-G1300, Acres 116.2200
475 Campground Rd.
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream across the property to the south property boundary into the culvert under TX-11 at the west property boundary.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Wetzel Bruce L ETUX Bobby
Property ID: 218683
Legal Description: G-1300 Williamson R M A-G1300, Acres 105.483
977 Campground Rd.
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream west of the west boundary of your property and to the west.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Wetzel Bruce L ETUX Bobby
Property ID: 356212
Legal Description: G-1300 Williamson R M A-G1300, Acres 6.0
977 Campground Rd.
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream west of the west boundary of your property and to the west.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

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Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Wetzel Bruce Lee ETUX Bobby Lynn
Property ID: 368720
Legal Description: G-1300 Williamson R M A-G1300, Acres 3.868
977 Campground Rd.
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream west of the west boundary of your property and to the west.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Anderson John Houston ETUX Julie
Property ID: 438338
Legal Description: G-1300 Williamson R M A-G1300, Acres 15.0
475 Campground Rd
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country, LLC
Address: 738 Campground Rd. Tom Bean, Tx 75489; Grayson County

Dear Mr. Sir/Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream west of the west boundary of your property and to the west.

Please note there will be no negative environmental effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Kevin F. Smith / Kimberly A. Smith
Property ID: 127161
Legal Description: G-1195 Trebino Ignacio A-G195, Acres 48.6
476 Campground Rd
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country, LLC
Address: 738 Campground Rd. Tom Bean, Tx 75489; Grayson County

Dear Mr. Smith & Ms. Smith:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through your property at 476 Campground Road under Campground Road to the west.

Please note there will be no negative effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Reynolds Larry Dick
Property ID: 127295
Legal Description: G-1300 Williamson R M A-G1300, Acres 33.13
5385 State Hwy 11
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Sir / Madam::

On behalf of Campaholics Country, LLC, This letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream adjacent to the south boundary of your property into the culvert under TX-11 to the south.

Please note there will be no negative effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway, Suite 920
Dallas, TX 75234
Office: 972.488.3737
Toll-free: 1.877.488.3737
ceieng.com

March 26, 2024

Wetzel Bruce L ETUX Bobby
Property ID: 127312
Legal Description: G-1300 Williamson R M A-G1300, Acres 27.613
977 Campground Rd
Sherman, TX 75090

Regarding Subject Property:
Property ID: 127159
Legal Description: G01195 Trebino Ignacio A-G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd. Tom Bean, TX 75489; Grayson County

Dear Sir / Madam:

On behalf of Campaholics Country, LLC, this letter serves as notification of an application for a permit allowing the discharge of treated wastewater from the property at 738 Campground Road into a stream that originates on the property and conveys through the culvert under Campground Road and within the stream west of the west boundary of your property and to the west.

Please note there will be no negative effect to your stream.

Please feel free to reach out with any questions you may have regarding the planned improvements.

Respectively Submitted,

Joel Hays
Project Manager
jhays@ceieng.com
CEI Engineering Associates, Inc.
Firm: F-7524

Attachment 9

Photo 1 - Wastewater Treatment System Site – Southside

Photo 2 - Wastewater Treatment System - Northside

Attachment 10

Photo 3 - Point of Discharge East Facing

Photo 4 - Point of Discharge West Facing

Photo 5 -Downstream photo at property boundary

Photo 6 - Upstream at property boundary

Photo 7 - Downstream from culvert at Campground Rd.

Photo 8 - Upstream at Hwy 11

Photo 9 - Downstream at Hwy 11

Attachment 13

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: __Renewal ____Major Amendment _Minor Amendment _New

County: _____ Segment Number: _

Admin Complete Date: ___

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: Campaholics Country, LLC

Permit No. WQ00 Click here to enter text EPA ID No. TX Click here to enter text

Address of the project (or a location description that includes street/highway, city/vicinity, and county):

738 Campground Rd, Sherman, Grayson County

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Andrew Diehl

Credential (P.E, P.G., Ph.D., etc.): PE

Title: Sr Project Engineer

Mailing Address: 3030 LBJ Freeway, Ste 920

City, State, Zip Code: Dallas, TX 75234

Phone No.: 479-254-1458 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: adiehl@ceieng.com

2. List the county in which the facility is located: Grayson
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

Not publicly owned.

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

Unnamed tributary to Brushy Creek to Mill Creek to Choctaw Creek to the Red River at segment 0202

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report). Attachment 14

Provide original photographs of any structures 50 years or older on the property.

Attachment 15 and 16

Does your project involve any of the following? Check all that apply.

☒ Proposed access roads, utility lines, construction easements

☐ Visual effects that could damage or detract from a historic property's integrity

☐ Vibration effects during construction or as a result of project design

☐ Additional phases of development that are planned for the future

☐ Sealing caves, fractures, sinkholes, other karst features

☒ Disturbance of vegetation or wetlands

6. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

The development project will disturb 15.2 acres of existing natural vegetation. The RV area of the development will generally follow the existing topography with a balanced cut/fill. The restaurant and pool building generally have on average a 10-foot cut.

7. Describe existing disturbances, vegetation, and land use:

None

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

8. List construction dates of all buildings and structures on the property:

To our knowledge, the existing farmhouse was constructed in 1972.

9. Provide a brief history of the property, and name of the architect/builder, if known.

The land has been owned for over 80 years, with pieces being sold off along the way. The land was used for agricultural purposes.

10. 
SPIF5map original.pdf

Attachment 14

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map OnDemand Topo

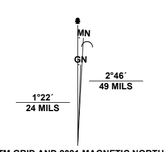
7.5-MINUTE TOPO QUADRANGLE
Custom Extent
7.5-MINUTE TOPO

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov



UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

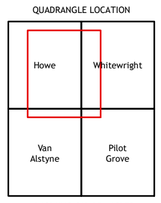
U.S. National Grid
100,000 - m Square ID
QC
Grid Zone Designation
14S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Low

QUADRANGLE LOCATION



ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

7.5-MINUTE TOPO, TX
2023

Attachment 15

Photo 10: Structure to the north, looking north. Construction estimated 1960.

Photo 11: Structure to north, looking south. Construction estimated 1960.

Other structures.
House 1972.
Red shed 2005.
White shed 2003.
Carport 2001.

Photo 12: Looking south

Photo 13: Looking East

Photo 14: Looking North.

Photo 15: Looking West.

Know what's **below.**
Call before you dig.

N

LEGEND

LIMITS OF DISTURBANCE

PROPERTY LINE

SITE PHOTO (DIRECTION PER SYMBOL)

CEI
Solutions for Land and Life

CEI ENGINEERING ASSOCIATES, INC.
3030 LBJ FREEWAY, SUITE 920
DALLAS, TX 75234
PHONE: (972) 488-3737
FAX: (972) 488-6732

CAMPAHOLICS RESORTS LLC
CAMPAHOLICS
738 CAMPGROUND ROAD
TOM BEAN, TX

PRELIMINARY
NOT FOR
CONSTRUCTION

PROFESSIONAL OF RECORD	AED
PROJECT MANAGER	JEH
DESIGNER	MDT
CEI PROJECT NUMBER	33556
DATE	2/1/2024
REVISION	REV-0

PHOTO KEY MAP

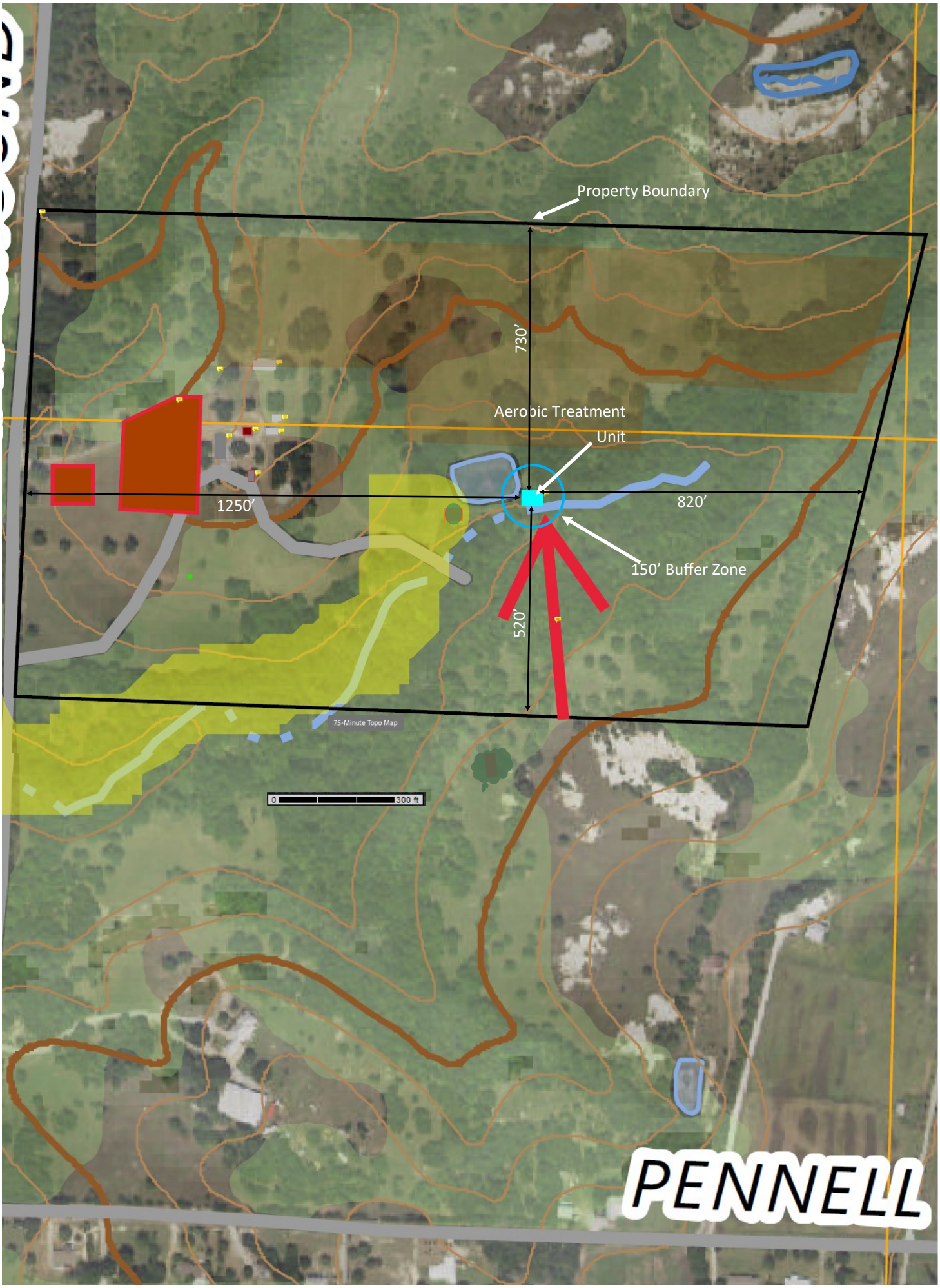
SHEET TITLE

SHEET NUMBER

1 of 1

DRAWING LOCATION - P:\33000\33556.0\DRAWINGS\DESIGNWORKING\33556-SP_UP_DT.DWG – SAVED BY - ADIEHL

Attachment 12



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase Attachment 1

Design Flow (MGD): .0152

2-Hr Peak Flow (MGD): .0017

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase Attachment 1

Design Flow (MGD): .0304

2-Hr Peak Flow (MGD): .0034

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

D. Current Operating Phase

Provide the startup date of the facility: Click to enter text.

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided.**

Interim Phase 1: Primary settling of raw influent with assumed parameters of 800 mg/L BOD/TSS and 140 mg/L TKN will be achieved in 1200 gallon Infiltrator STEP tanks with a high level capacity of 1060 gallons baffled into 2/3 and 1/3 chambers with the former serving to settle solids and scum and the latter containing a vaulted ½ hp simplex Zoeller effluent pump with a flow rate of 14 gallons per minute. Each STEP tank will be equipped with on/off float and high level float along with control panel including an audio visual high level alarm and hush switch. Each STEP tank will serve 4 RV sites via 4" gravity inlet pipe. STEP tanks will discharge via 1" pipe through a check valve to a 2" PVC force main buried below the frost line. Anaerobic digestion of sewage sludge will be facilitated by regular addition of Bactibio 9500 (see attachment 10054dtr1.0.2.a1) enzymatic preparation per manufacturer's recommendations. Primarily settled black water with assumed parameters of 560 mg/L BOD, 240 mg/L TSS, and 140 mg/L TKN will be delivered via force main to a 20,000 gallon precast concrete tank subdivided for further solids digestion and equalization. Wastewater will be dosed via duplex equalization pumps through an Ultrasonic Flow Meter over 18 hours per day to a multi-compartment stainless steel MBBR (Moving Bed Biofilm

Treatment Process Cont.docx

Reactor) for secondary treatment, nitrification, and denitrification. (Continued on

Attachments 2, 3, and 4

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
CM-1060 STEP System – Processes 01, 06, 09, 27, 68,	54	127" x 62.2" x 54.7"
IM-1530 Septic Tank – Processes 06, 09	1	175.6" x 61.7" x 54.5"
IM-540 Pump Tank – Processes 01, 27, 68,	1	64.9" x 61.7" x 54.6"
20,000-gallon precast concrete tank subdivided – Processes 07, 08, 09, 68,	2	360" x 144" x 112"
15,210 gpd multichambered MBBR – Processes 22, E5, 24, 25, 26, B2, 62, A1, A2, A4	2	166.8" x 86.2" x 98.4"
Open Channel Flow with Palmer-Bowlus Flume – Processes 60	2	17" x 6" x 6"
AZHO – 4000 – 2 UV disinfection system – Processes D3	1	95" x 5" x 12.125"

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

Process Flow.pdf

Attachment: Attachment 5

Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: 33°32'56.5"N
- Longitude: 96°30'15.2"W

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: Click to enter text.
- Longitude: Click to enter text.

Provide a site drawing for the facility that shows the following:

- The boundaries of the treatment facility;
- The boundaries of the area served by the treatment facility;
- If land disposal of effluent, the boundaries of the disposal site and all storage/holding ponds; and
- If sludge disposal is authorized in the permit, the boundaries of the land application or disposal site.

33556 Campaholics Resorts (signed).pdf

Attachment: Attachments 6 and 7

Provide the name **and** a description of the area served by the treatment facility.

Campaholics Resort – The treatment facility will serve approximately 225 RV spaces, 50 cabins, an existing farmhouse, restaurant for the property visitors, and a pool/bath house facility for the property users.

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
STEP Collection with 2" force main	Campaholics Country, LLC	**Privately Owned**	1495
8" Gravity Sewer Line	Campaholics Country, LLC	**Privately Owned**	480
		Choose an item.	

Collection System Name	Owner Name	Owner Type	Population Served
		Choose an item.	

Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☐ Yes ☒ No

If yes, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☐ Yes ☐ No

If yes, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases**.

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☐ Yes ☒ No

If yes, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If yes, provide a brief description of the closure and the date of plan approval.

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☐ Yes ☐ No

If yes, provide the date(s) of approval for each phase: Click to enter text.

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable**.

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☐ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

Click to enter text.

C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☐ No

If yes, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☐ No

If No, stop here and continue with Subsection E. Stormwater Management.

2. Grit and grease processing

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

3. Grit disposal

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☐ No

If No, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

4. Grease and decanted liquid disposal

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

E. Stormwater management

1. Applicability

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☐ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☐ No

If no to both of the above, then skip to Subsection F, Other Wastes Received.

2. MSGP coverage

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☐ No

If yes, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 Click to enter text. or TXRNE Click to enter text.

If no, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

3. Conditional exclusion

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☐ No

If yes, please explain below then proceed to Subsection F, Other Wastes Received:

Click to enter text.

4. Existing coverage in individual permit

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

5. *Zero stormwater discharge*

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☐ No

If yes, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. *Request for coverage in individual permit*

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☐ No

If yes, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click to enter text.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☐ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
Click to enter text.

G. Other wastes received including sludge from other WWTPs and septic waste

1. *Acceptance of sludge from other WWTPs*

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☐ No

If yes, attach sewage sludge solids management plan. See Example 5 of the instructions.

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the sludge, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☐ No

If yes, does the facility have a Type V processing unit?

☐ Yes ☐ No

If yes, does the unit have a Municipal Solid Waste permit?

☐ Yes ☐ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD_5 concentration of the septic waste, and the design BOD_5 concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

3. *Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)*

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☐ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or

other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☐ Yes ☒ No

If no, this section is not applicable. Proceed to Section 8.

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). W***ater treatment facilities*** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

Table1.0(3) – Pollutant Analysis for Water Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l					
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity ($CaCO_3$), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Calvin Castleberry

Facility Operator's License Classification and Level: C

Facility Operator's License Number: WW0044965

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☐ Design flow>= 1 MGD
- ☐ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☒ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting

- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☒ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Other	On-Site Owner or Operator	Not Applicable		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Transport to another WWTP

D. Disposal site Attachment 8

Disposal site name: Clay Copeland Enterprises

TCEQ permit or registration number: 710324

County where disposal site is located: Grayson

E. Transportation method Attachment 8

Method of transportation (truck, train, pipe, other): Truck

Name of the hauler: Nortex Septic Service

Hauler registration number: 25282

Sludge is transported as a:

Liquid ☐ semi-liquid ☒ semi-solid ☐ solid ☐

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☐ No
Marketing and Distribution of sludge	☐ Yes	☐ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☐ No
Temporary storage in sludge lagoons	☐ Yes	☐ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

Attachment: Click to enter text.

- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.

- Federal Emergency Management Map:

  Attachment: Click to enter text.

- Site map:

  Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: Click to enter text.

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.*

Nitrate Nitrogen, mg/kg: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

Click to enter text.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.

- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.

- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Click to enter text.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Austin Karnes

Title: Managing Partner

Signature: 

Date: 3/28/2024

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

A permit is needed here as there is no municipal connection within a couple of miles of the site. The nearest SUD (Luella) does not have any plans in the near future to extend service to the site. Also, not enough land area is available for land use applications for disposal of wastewater.

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

1. ***Municipally incorporated areas*** `Attachment 9`

   If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

   Is any portion of the proposed service area located in an incorporated city?

   ☐ Yes ☒ No ☐ Not Applicable

   If yes, within the city limits of: Click to enter text.

   If yes, attach correspondence from the city.

   Attachment: Click to enter text.

   If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

   Attachment: Click to enter text.

2. ***Utility CCN areas*** `Attachments 10 and 11`

   Is any portion of the proposed service area located inside another utility's CCN area?

   ☐ Yes ☒ No

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☒ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: Click to enter text.

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: Click to enter text.

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☒ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click to enter text.

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	.00045	319
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use	.0013	1151
Recreational park, day use		
Office building or factory	.00028	360
Motel	.0075	287
Restaurant	.0008	839
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	.0202	
AVERAGE BOD_5 from all sources		790

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: 5.0

Other: 126 cfu/100 ml fecal coliform

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.

Total Suspended Solids, mg/l: Click to enter text.

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: 5.0

Other: 126 cfu/100 ml fecal coliform

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

☒ Ultraviolet Light: 34.33 seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: Design Calculations.pdf Attachment 12

Section 5. Facility Site (Instructions Page 60)

A. 100–year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☒ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Click to enter text.

Provide the source(s) used to determine 100-year frequency flood plain.

FEMA FIRM Map #48181C0425F, effective 9/29/2010

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☒ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Wind Rose_Combined.pdf Attachment 13

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☒ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: Click to enter text.

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: Click to enter text.

Section 7. Sewage Sludge Solids Management Plan (Instructions Page

61)

Attach a solids management plan to the application.

Attachment: Sewage Sludge Management.pdf Attachment 14

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities
- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from outfall(s).

Click to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from the outfall(s).

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☒ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☒ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☒ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

Cedar Creek to Choctaw Creek

D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

☐ Yes ☒ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

Dry

Date and time of observation: 1/10/2024

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities
☐ Urban runoff
☐ Upstream discharges
☐ Agricultural runoff
☐ Septic tanks
☒ Other(s), specify: None

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify: None

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☒ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 66)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click to enter text.

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click to enter text.

Size of pools (large, small, moderate, none): Click to enter text.

Maximum pool depth, in feet: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

The following is required for renewal, new, and amendment permit applications.

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☐ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click to enter text.

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre–feet)	Dimensions	Liner Type

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 68)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☐ No

If yes, describe how the site will be protected from inundation.

Click to enter text.

Provide the source used to determine the 100-year frequency flood level:

Click to enter text.

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Click to enter text.

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Click to enter text.

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 69)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: Click to enter text.

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☐ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: Click to enter text.

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note**: for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: Click to enter text.

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☐ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 72)

Complete the item that applies for the method of disposal being used.

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

hours/day Click to enter text. **And** days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

Soil conductivity (mmhos/cm): Click to enter text.

Method of application: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: Click to enter text.

Depth of bed(s), in feet: Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

hours/day: Click to enter text. **And** days/week: Click to enter text.

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

Area of bed(s), in square feet: Click to enter text.

Soil Classification: Click to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of *§* 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

Attachment: Click to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

Attachment: Click to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

Attachment: Click to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If yes, then attach the additional information required in *30 TAC § 222.81(c).*

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) **(*1)**				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide **(*2)**				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak–acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) **(*1)**				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide **(*2)**				10
Phenols, Total				10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak–acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a “<”.

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☐ No

If **yes**, provide a brief description of the conditions for its presence.

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☐ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub–lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☐ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☐ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☐ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Click to enter text.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non–substantial modifications

Have there been any **non–substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Click to enter text.

D. Flow rate information

See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405–471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Location description (if no address is available): Click to enter text.

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

5. Latitude and Longitude, in degrees–minutes–seconds

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. Well Information

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. Purpose

Detailed Description regarding purpose of Injection System:

Click to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. Water Well Driller/Installer

Water Well Driller/Installer Name: Click to enter text.

City, State, and Zip Code: Click to enter text.

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) – Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.

2. Receiving Formation Name of Injection Zone: Click to enter text.

3. Well/Trench Total Depth: Click to enter text.

4. Surface Elevation: Click to enter text.

5. Depth to Ground Water: Click to enter text.

6. Injection Zone Depth: Click to enter text.

7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: Click to enter text.

Thickness: Click to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.

13. Maximum injection Rate/Volume/Pressure: Click to enter text.

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.

17. Sampling frequency: Click to enter text.

18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

1. Type of Facility: Click to enter text.
2. Contamination Dates: Click to enter text.
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Click to enter text.
4. Previous Remediation (attach results of any previous remediation as attachment M): Click to enter text.

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

Attachment 1

Wastewater Organics Projection for Campaholics Country, LLC. CN: 606175024

Source	Unit	Design Flow	Number of Units	Source Total	lbs BOD/unit	lbs BOD total	Concentration
RV with water and sewer	Per Site	50	100	5000	0.48	48	1151
Cabins	Bed	50	75	3750	0.12	9	287
Restaurant	Meal	10	50	500	0.07	3.5	839
House	Person	75	6	450	0.2	1.2	319
Staff	Person	20	14	280	0.06	0.84	359
			Estimated Design Flow	**9980**			
			Permitted Design Flow	**14970**			
			Estimated Design Flow MGD	0.00998	Total Organic Concentration in		750

Wastewater Organics Projection for Campaholics Country, LLC. CN: 606175024

Source	Unit	Design Flow	Number of Units	Source Total	lbs BOD/unit	lbs BOD total	Concentration
RV with water and sewer	Per Site	50	115	5750	0.48	55.2	1151
Cabins	Bed	50	85	4250	0.12	10.2	287
Restaurant	Meal	10	8	80	0.07	0.56	839

Estimated Design Flow	**10080**		
Permitted Design Flow	**15120**		
Estimated Design Flow MGD	0.01008	Total Organic Concentration in	784

Attachment 2

DTR 1.0 Section 2.A Treatment process description continued:

Interim Phase 1:

Incoming organics are sequentially oxidized by isolated biocenoses of microorganisms living on media retained within the borders of each aeration chamber. The media treatment facilitates 4000 M^2 of biofilm per cubic meter of wastewater according to treatment application. Media is submerged in water. Oxygen supply and mixing are provided by aeration in aerobic chambers and by mechanical mixers in anoxic chambers.

Due to change of oxidation rate at each process stage – from high on the first stage to low on the last stage – the loads on biocenoses and water saprobity vary from high to low accordingly.

In response to changing environmental conditions and amount of dissolved oxygen, the treatment process occurs as follows:

Stage One – sorption and oxidation of dissolved organic matter, adsorption of suspended solids and colloids and hydrolysis (fermentation) of suspended solids and colloids

Stage Two – sorption and oxidation of dissolved organics,

Stage Three – biofiltration (biosorption)

Nitrification:

Biofilm process configuration creates conditions for simultaneous nitrification and denitrification.

The corresponding environment allows formation of layered biocenosis. The layers are determined by the amount oxygen diffusion into the biofilm.

The biofilm surface is the aerobic layer which creates conditions for heterotrophic microorganisms to partially oxidize and reduce ammonium along with oxidation of organic matter.

The internal mass of the biofilm is the anaerobic layer that creates conditions for development, growth and accumulation of specific autotrophic microorganisms (ANAMMOX) which oxidize and reduce the main part of incoming ammonium.

Biofiltration (Biosorption):

Biofiltration or biosorption occurs in the MBBR on a static media.

In low load conditions bacteria release a significant amount of exopolymers capable to capture and retain solids during contact. In turn, solid substances captured by the biofilm (bacteria, organic matter) serve as a food for predators and detritophages that results in reduction of suspended solids.

Treatment bacteria and their predators create symbiotic relationship after several generations, under which predators regulate their quantitative and qualitative composition in a strict accordance with incoming food amount.

Clarification and Polishing:

Clarification comes from attached stalked ciliates (Peritrichia). The peritrichs strain large amounts of water to obtain food. One individual can consume up to 30,000 bacteria per hour. This way peritrichia provide a high degree of biological clarification and disinfection, destroying pathogenic microorganisms.

Low organic load and high amount of dissolved oxygen in the biofilter provide partial ammonium removal. Ammonium bio-oxidation is carried out in two stages, by two types of chemoautotrophic bacteria:

$$2NH_4^+ + 3O_2 \xrightarrow{\text{Nitrosomonas}} 2NO_2^- + 2H_2O + 4H^+$$

$$2NO_2^- + O_2 \xrightarrow{\text{Nitrobacter}} 2NO_3$$

See attachment 10054dtr.1.0.2.C1 for Treatment Process Calculations

UV Disinfection:

Per TCEQ site specific standards for unclassified waterway, Choctaw Creek, of 630 cfu E. coli per 100/ml, UV disinfection of treated effluent will be employed in the following manor:

Treated effluent will outfall via gravity via a 4" stub into a 4" PVC discharge pipe through a 4" Palmer-Bowlus Flume channel equipped with primary flow measurement and downstream totalizing flow meter. Normalized flow will enter a 4' approach channel into an Aqua Azul AZHO-4000-2 UV disinfection unit equipped with 2 banks in serial. Disinfected effluent will discharge via a 4+' downstream discharge pipe.

The UV unit will be equipped with constant monitoring for failure, intensity, and transmissivity.

See attachments bioassays and specifications in attachments below:

AquaAzul_UV_Bioassay_Report_Secured.pc

AZHO - 4000-2.pdf

Final Phase:

Treatment will be identical to Interim Phase 1 arranged in parallel with it.

See Process Flow:

Process Flow.pdf

Attachment 3

Stantec

AquaAzul UV Bioassay Report

September 7, 2018

Prepared for:

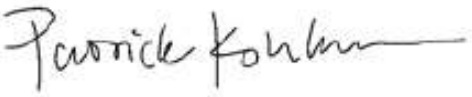
Colorado Department of Public Health and Environment

Prepared by:

Cristina Fonseca, PhD, P.Eng., PE
Patrick Kohlman, EIT

Sign-off Sheet

This document titled AquaAzul UV Bioassay Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of AquaAzul (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by 

(signature)

Patrick Kohlman, EIT

Prepared by 

(signature)

Cristina Fonseca, PhD, P. Eng., PE

Reviewed by 

(signature)

Vijay Sundaram, PE

1.0 TESTING FACILITY

The AquaAzul's AZ-4,000 Open Channel Low-Pressure High-Output (LPHO) Wastewater UV Disinfection System was independently third-party tested by Stantec Consulting Inc. (Stantec) at the City of Lincoln Wastewater Treatment and Reclamation Facility (WWTRF) on March 6th and March 7th, 2018. The water used for all UV Validation tests was non-chlorinated filtered effluent.

A modified process flow diagram of the Lincoln WWTRF showing how the UV disinfection validation system was integrated with the WWTRF is also available in Appendix A. A Goulds WS_D3 Series Model 3888D3 Submersible Sewage Pump was used to convey filtered effluent in the flocculation basins to the UV system via a PVC piping system with valving and flow meters to control and record all flow. Recirculation was possible through the valve on the pump discharge line and was used to a) assist with basin mixing and b) adjust the backpressure on the pump to assist stabilizing the pump flow rate. Flocculation basins 1 and 2 are hydraulically connected via holes at the bottom of the separating baffle.

2.0 VALIDATION TESTING PROTOCOL

The validation testing protocol, approved by the California Division of Drinking Water, followed the Ultraviolet Disinfection Guidelines for Drinking Water and Water Reuse (3rd Edition, 2012, National Water Research Institute in collaboration with the Water Research Foundation; NWRI/WRF). The complete validation protocol is available in Appendix A.

3.0 AQUAAZUL UV DISINFECTION SYSTEM

The AquaAzul's AZ-4,000 Open Channel LPHO Wastewater UV Disinfection System consisted of an influent box, three UV banks in series, and an effluent box with a weir. Each UV bank contained two UV lamp modules with two GHO64T5L 155-Watt UV Lamps each. Prior to testing, all lamps were burned-in for a period of 100 hours. A process flow diagram of the system is shown in Appendix A.

UV disinfection system technical specifications, including lamps location and spacing, can be found in Appendix B. The information provided includes the system validated (AquaAzul AZ 4,000) and the full-scale system (AquaAzul AZ 40,000). The validated system can be scaled in accordance with NWRI/WRF guidelines and local regulatory agencies requirements. Photos of the AquaAzul AZ 4,000 UV disinfection system while undergoing validation are available in Appendix C.

4.0 VALIDATION TESTING METHODS

4.1 UV DISINFECTION SYSTEM CLEANING

The UV disinfection system was thoroughly cleaned with a citric acid solution. The system was then left to dry to allow for evaporation of any excess solution, followed by a thorough rinse with treated water. Filtered effluent was then pumped through the UV disinfection system to completely rinse and remove any citric acid. To confirm that no additional disinfection was associated with the system cleaning protocol control bioassay testing was completed immediately prior to the validation testing.

4.2 ULTRAVIOLET TRANSMITTANCE ADJUSTMENT

In order to test the system at different ultraviolet transmittance (UVT) levels, i.e., 55% and 65%, superhume was injected to non-chlorinated filtered effluent. Superhume solution description is available in Appendix A.

Superhume was incrementally added to the flocculation basins until the UVT reached the desired validation levels. Initial superhume doses were determined in the lab by mixing filtered effluent with known volumes of diluted superhume. These calculations served as the basis to adjust the UVT at full-scale. Mixing of the flocculation basins was provided by the basin mixers and recirculation via the pump as shown in Appendix A. The effect of mixing was confirmed through comparison of UVT values at difference flocculation basin locations (i.e., east and west), and by the recirculation pump and compared for consistency.

The UVT monitoring apparatus (Hach DR6000) was calibrated in accordance to manufacturer specifications.

4.3 MS-2 BACTERIOPHAGE ADDITION

All bioassays were conducted with MS-2 bacteriophage (MS-2) supplied by BioVir Laboratories (BioVir, Bernicia, California). The concentration of the MS-2 stock titer provided by BioVir was 10^11 phage/mL as confirmed by collimated beam testing. Test water was sampled for MS-2 prior to testing to confirm the absence of background MS-2 phage that could impact the bioassay results.

The stock solution was injected into the treated effluent stream at an appropriate rate to achieve a rough target concentration of 10^6 phage/mL. Complete mixing of the MS-2 in the flocculation basins was provided through pump recirculation and the basin mixers.

4.4 FLOW MONITORING AND CONTROL

Flow was controlled with ball valves and monitored with flow meters located upstream of the UV validation system. Each of the two testing channels has a designated flow meter. To accurately monitor flow through the system one channel was used to validate 30 gpm and two channels were used to test 60 gpm, 90 gpm, and 120 gpm. The residence time for each test flow rate was not recorded until the flow was considered stable (+/- 3% over the course of one estimated residence time). Flowmeter accuracy was verifed in the field by monitoring the time required to fill a set volume of the flocculation basins. This data is available in Appendix D.

To provide a consistent hydraulic profile during the Validation Testing, lamp sleeves were installed in all available banks. In order to test different testing configurations, the two parallel modules containing lamps inside the sleeves were moved between banks. More information regarding the hydraulic profile can be found in Appendix D. Hydraulic testing of the UV system was carried on March 10, 2016. Results from the water level monitoring conducted during the validation regarding headloss and UV exposure are also available in Appendix D.

4.5 CONTROL PANEL OPERATION PROTOCOL

Several parameters related to the power of the UV system's control panel were monitored during the validation testing to ensure the consistency of UV dose delivery. The parameters monitored include current (amps), voltage (volts), frequency (hertz), and power (volt-amps, watts). Data was collected using a Fluke 1736 Three-Phase Power Logger connected to the UV system's lamp control panel. Fluke's Energy Analyze software was used to interpret the collected data and produce the graphs presented in Appendix H. Additionally, a certificate of calibration for the power meter is available in Appendix H.

4.6 FIELD MONITORING PROTOCOL

Field monitoring was conducted during the validation testing to confirm that no additional parameters influenced bioassay results. Temperature, UVT, turbidity, and chlorine were all monitored. Each parameter was measured at the UV system influent and effluent sample taps. Samples were taken at the beginning and end of each UVT scenario (65% UVT and 55% UVT).

4.7 COLLIMATED BEAM ASSAY PROTOCOL

The collimated beam testing protocol performed by BioVir is available in Appendix E.

4.8 BIOASSAY SAMPLING PROTOCOL

The sampling approach followed is described in the validation protocol available in Appendix A.Sample bottles used to collect the water were 100 mL sterile vials provided by BioVir. Samples for each flow rate were collected in triplicate. The samples were immediately labeled and transported to the on-site lab where they were stored in a refrigerator overnight. On the morning following testing (March 8, 2018) all samples were packed on blue ice and transported to BioVir directly. Control samples and duplicate samples were collected from the UV system in the same manner

5.0 QUALITY ASSURANCE AND QUALITY CONTROL

5.1 BACKGROUND SAMPLES

Background MS-2 sampling was conducted on the filtered effluent stored in the flocculation basins prior to the addition of the MS-2 titer to ensure no background MS-2 was present. The background samples were collected from the recirculation line of the pump inside the flocculation basins and stored/transported/tested in the same way as the bioassay samples. Results from the background samples are available in Appendix F.

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Table 1 Additional Monitoring

Sample	Time	Temperature (°C)	UVT (%)	Turbidity (NTU)	Chlorine
65% UVT Influent	Start	65.5	65.5	2	ND
65% UVT Effluent			65.2	2.1	ND
65% UVT Influent	End	65.1	65.1	1.9	ND
65% UVT Effluent			65.4	2	ND
55% UVT Influent	Start	55.5	55.5	2.1	ND
55% UVT Effluent			55.8	2.2	ND
55% UVT Influent	End	55.7	55.7	2.2	ND
55% UVT Effluent			55.8	2.3	ND

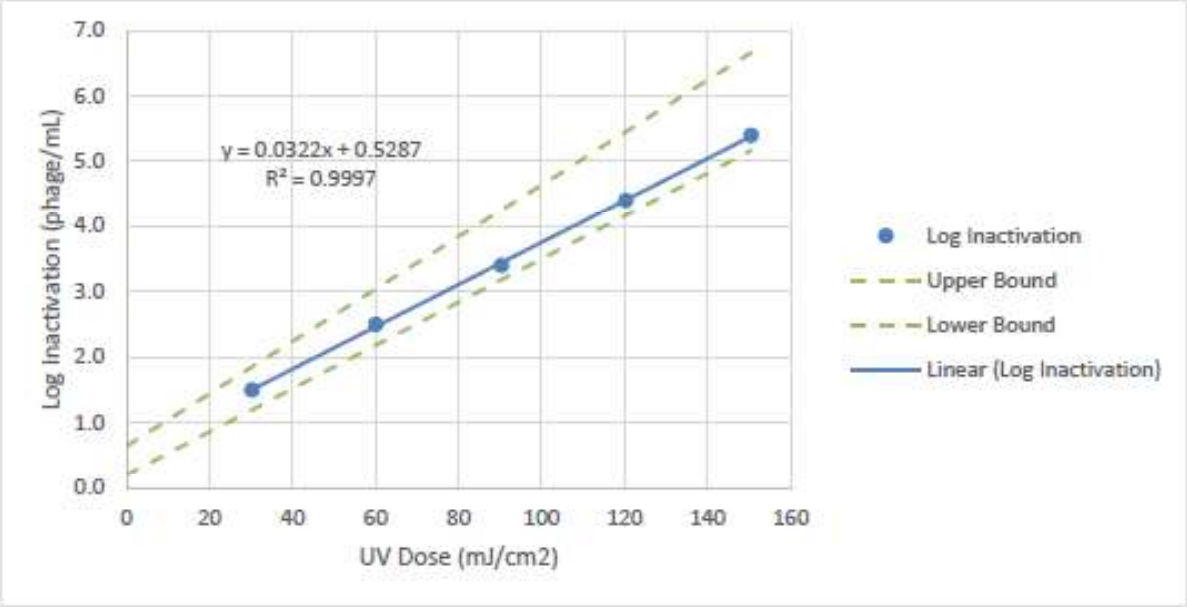
6.2 COLLIMATED BEAM TEST OF MS-2 BACTERIOPHAGE

Table 2 and Figure 1 summarize the collimated beam results. Upper and lower bounds are calculated as defined in Chapter 3-Section 3 of NWRI UV Disinfection Guidelines. Filtered non-chlorinated effluent was used to prepare MS-2 bacteriophage solutions.

Table 2 Collimated Beam Test of MS-2 Bacteriophage

Administered UV Dose mJ/cm2	Log Inactivation log(phage/mL)	Upper Bound	Lower Bound	Calculated UV Dose mJ/cm2
0		0.64	0.20	
30.2	1.5	1.85	1.20	25.91
60.1	2.5	3.04	2.18	53.09
90.3	3.4	4.25	3.18	77.54
120.3	4.4	5.45	4.17	104.72
150.5	5.4	6.66	5.17	131.89

Figure 1 Collimated Beam Test of MS-2 Bacteriophage



6.3 BIOASSAY RESULTS

This section summarizes the average log inactivation obtained during validation at two different UVTs. The full bioassay lab report from BioVir is available in Appendix F.

6.3.1 65% UVT Effluent

Table 3 Summarized 65% UVT Bioassay Results

Normalized Flowrate	Average Log Inactivation	UV Dose Assignment
L/min	phage/mL	mJ/cm2
112.4	4.3	118.2
115.1	4.1	111.2
114.3	4.0	107.1
227.1	2.6	64.7
225.6	2.6	63.8
223.5	2.3	56.6
339.6	2.2	51.0
340.7	2.2	51.4
348.3	1.7	35.1
461.2	1.8	39.7
462.5	1.8	40.3
460.6	1.5	30.1

6.3.2 55% UVT Effluent

Table 4 Summarized 55% UVT Bioassay Results

Normalized Flowrate	Average Log Inactivation	Average Log Inactivation
L/min	phage/mL	mJ/cm2
114.6	3.2	82.3
112.9	3.0	76.1
111.2	2.2	53.4
229.3	2.2	52.3
223.5	2.1	47.5
222.1	1.7	36.8
345.1	1.8	39.3
343.0	1.6	34.7
340.2	1.1	17.8
453.7	1.3	23.7
454.5	1.2	21.9
452.2	1.0	14.2

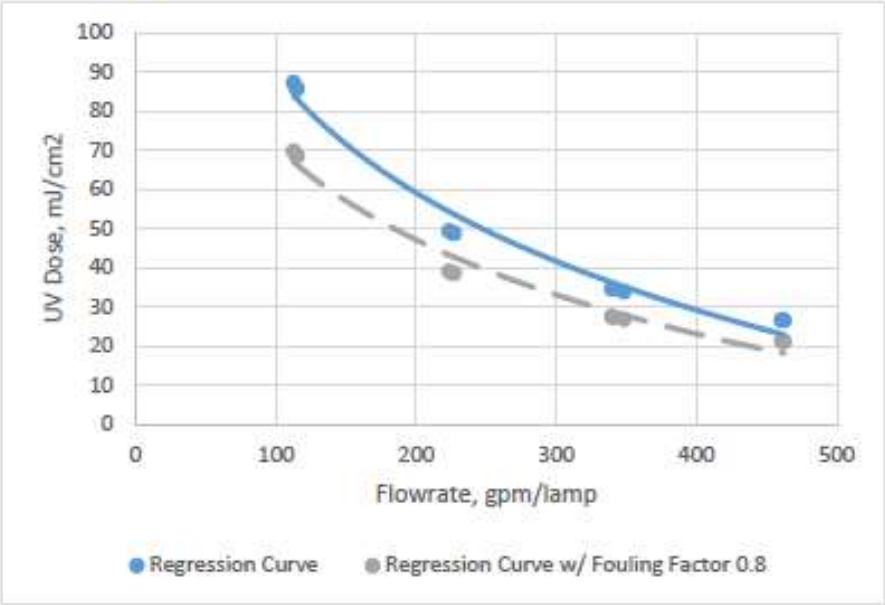
7.0 UV DISINFECTION SYSTEM PERFORMANCE

The performance evaluation of the UV disinfection system adheres to the protocol described in Chapter 3-Section 3 and Appendix A Example 1 of NWRI/WRF UV Disinfection Guidelines. The individual calculations and tables are presented in Appendix G. The Reduction Equivalent Dose of the UV disinfection system at each UVT for different flowrates are plotted below in Figures 2 and 3. The final UV dose design curve assumes a fouling factor of 0.8.

7.1 EFFLUENT UVT OF 65%

Figure 2 shows the relationship between flow (in gpm) and UV dose (in mJ/cm^2). Regression and design curves are shown. As mentioned above the design curve assumes a fouling factor of 0.8.

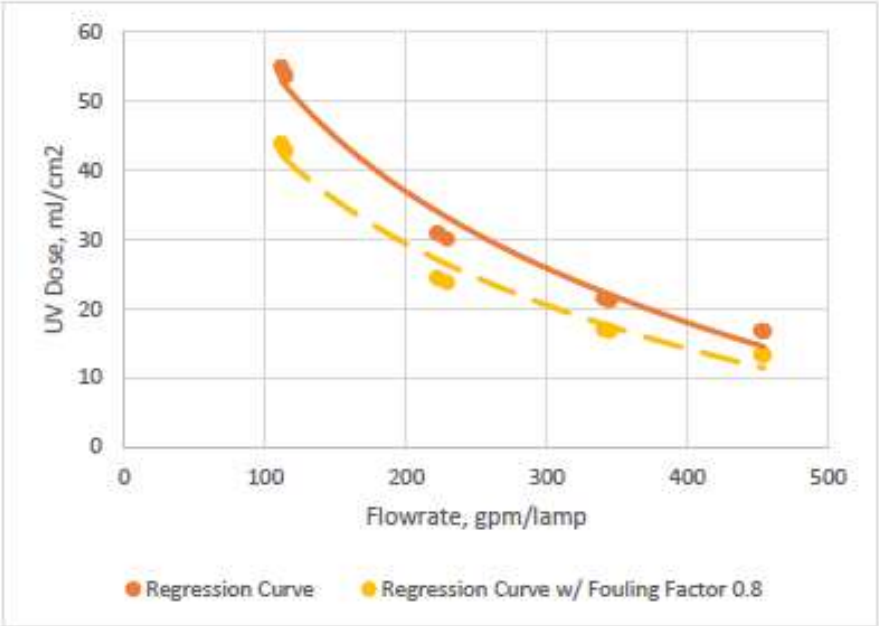
Figure 2 Predicted UV Dose vs Flowrate (65% UVT)



7.2 EFFLUENT UVT OF 55%

Figure 3 shows the relationship between flow (in gpm) and UV dose (in mJ/cm^2). Regression and design curves are shown. As mentioned above the design curve assumes a fouling factor of 0.8.

Figure 3 Predicted UV Dose vs. Flowrate (55% UVT)



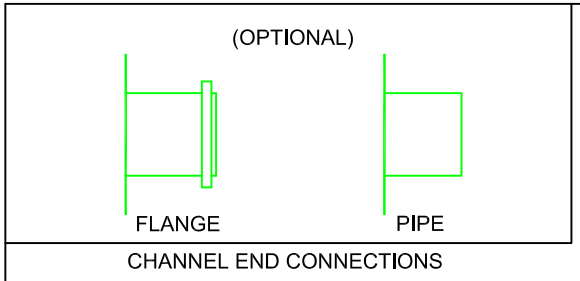
8.0 MONITORING AND ALARM SYSTEMS

A description of AquaAzul's monitoring and alarms system is provided below:

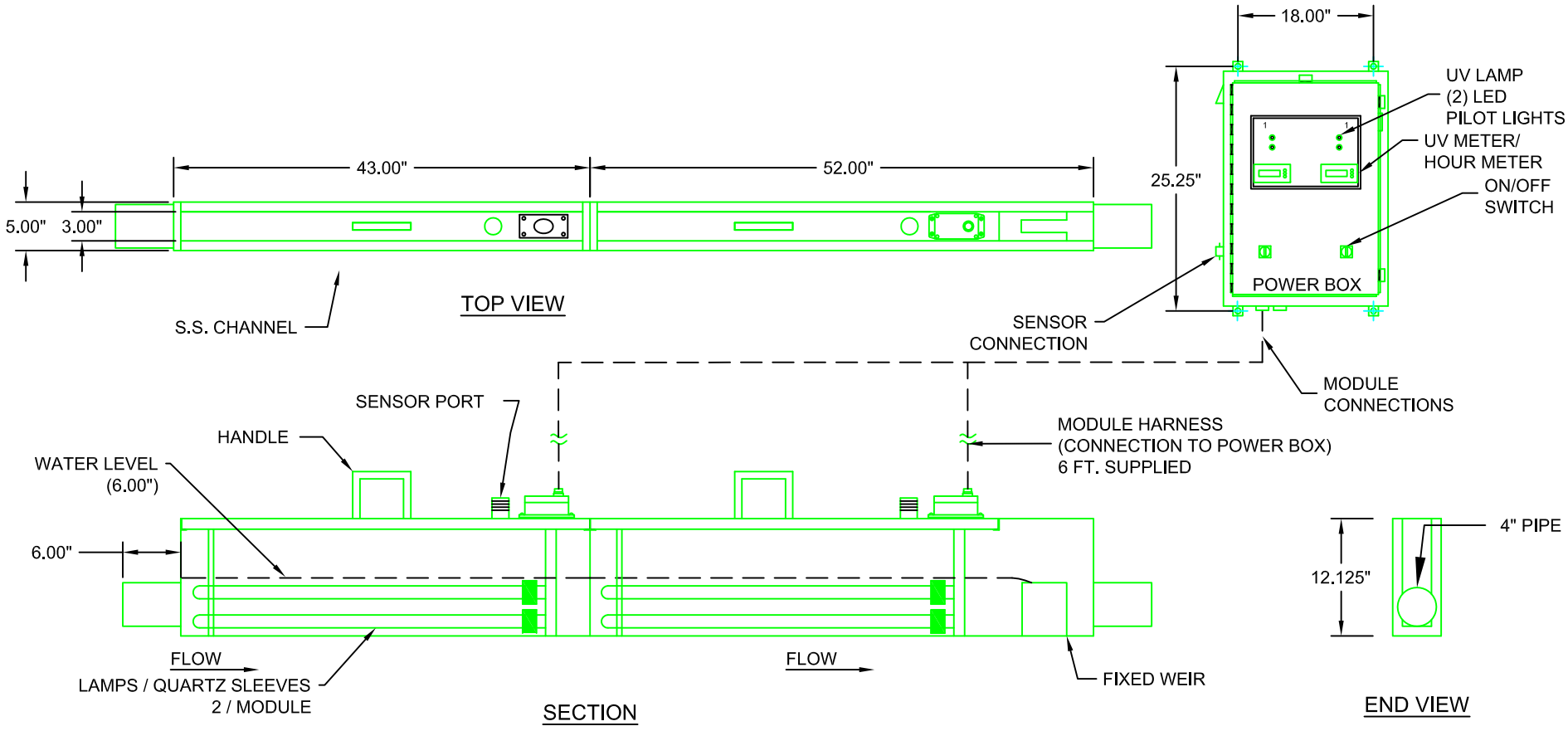
Each UV bank has one (1) intensity sensor and monitor to measure intensity output. A UV intensity monitor is provided. The monitor is wired to the photocell (the sensor which is mounted on a module at the UV channel). The monitor indicates intensity from 0 -100%. UV intensity is a based on retention time and UV output.

The lower the flow rate at a given time, the higher the UV dosage is provided. We monitor the UV output and reduce the number of lamps for proper disinfection. We also take into consideration the UVT if the UVT is reduced below 60% it's considered to be in failure and another module or extra lamps would be illuminated to ensure proper disinfection.

A set of normally open and normally closed contacts are provided for a "low-intensity alarm" condition. The alarm set-point shall be user-adjustable.

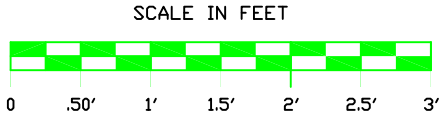


CHANNEL END CONNECTIONS



SPECIFICATIONS:

1. TYPE OF LIQUID: WASTE WATER
2. FLOW RATE: 20,000 GPD
3. HEAD LOSS: LESS THAN 1" AT RATED FLOW
4. TRANSMISSION: 65%
5. ELECTRICAL: 120 VAC / 60 HZ
7. POWER SUPPLY BOX: OUTDOOR DESIGN FAN COOLED



aquaazul
Disinfection at the speed of light
13701 6TH STREET, SUITE C1
ARMONA, CA 93202
PHONE: 559-589-1430
FAX: 559-589-1185

OPEN CHANNEL WASTEWATER UV DISINFECTION SYSTEM
MODEL AZHO-200-2-SMA

DATE: 7/13	DRAWN: AM	MATERIAL: 304 S.S.	FINISH: ELECTROPOLISHED & PASSIVATED

Attachment 5

Process Flow—Interim Phase 1

Desludging

Biopreparation

STEP ejection line

Force main

Check valve

STEP Tanks 1200 gal-lons each

2/3 primary settling capacity

1/2 hp vaulted effluent pump with 1/16” screen

Settling/Digestion Tank 17,500 gallons

Equalization Tank 2500 gallons

114.4 cfm submerged blower

Hydrolysis-fermentation chamber

Bio-oxidation chamber

Polishing chamber

Multi-chamber MBBR—15,120 gpd

14 gpm flow rate

4” gravity outfall

Palmer-Bowlus flume with staff gauge

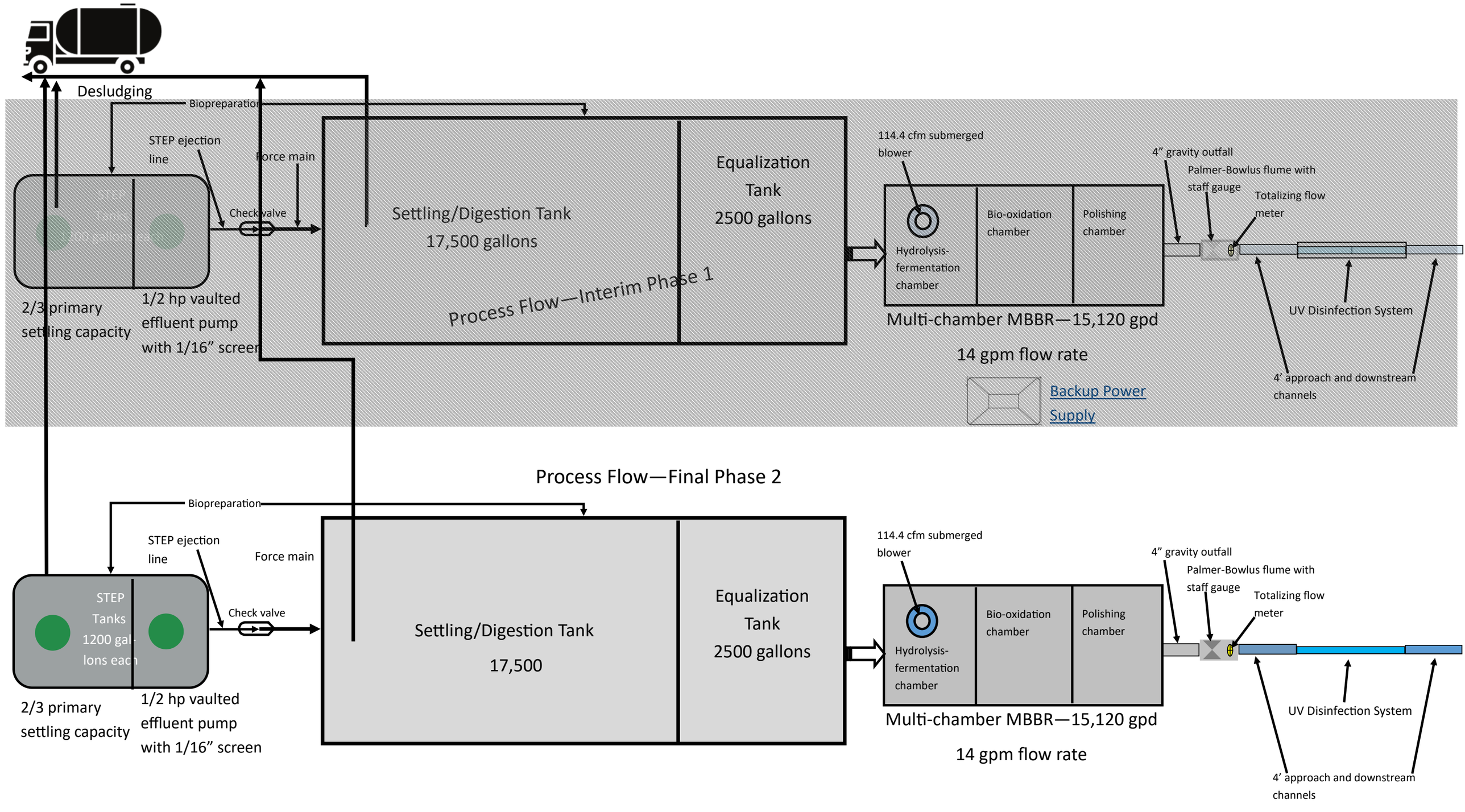
Totalizing flow meter

UV Disinfection System

4’ approach and downstream channels

Backup Power Supply

Not to scale


Desludging
Biopreparation
STEP ejection line
Force main
Check valve
STEP Tanks 1200 gallons each
2/3 primary settling capacity
1/2 hp vaulted effluent pump with 1/16” screen
Settling/Digestion Tank
17,500 gallons
Equalization Tank
2500 gallons
Process Flow—Interim Phase 1
114.4 cfm submerged blower
Hydrolysis-fermentation chamber
Bio-oxidation chamber
Polishing chamber
Multi-chamber MBBR—15,120 gpd
14 gpm flow rate
4” gravity outfall
Palmer-Bowlus flume with staff gauge
Totalizing flow meter
UV Disinfection System
4’ approach and downstream channels
Backup Power Supply
Process Flow—Final Phase 2
Biopreparation
STEP ejection line
Force main
Check valve
STEP Tanks 1200 gal-lons each
2/3 primary settling capacity
1/2 hp vaulted effluent pump with 1/16” screen
Settling/Digestion Tank
17,500
Equalization Tank
2500 gallons
114.4 cfm submerged blower
Hydrolysis-fermentation chamber
Bio-oxidation chamber
Polishing chamber
Multi-chamber MBBR—15,120 gpd
14 gpm flow rate
4” gravity outfall
Palmer-Bowlus flume with staff gauge
Totalizing flow meter
UV Disinfection System
4’ approach and downstream channels
Not to scale

Attachment 6

GENERAL UTILITY NOTES

A. REFER TO HELMBERGER ASSOCIATES, INC. PLANS FOR WATER LINE MATERIALS AND DETAILS AND FOR INFORMATION REGARDING SITE LAYOUT AND IMPROVEMENTS.

B. GRAVITY SANITARY SEWER LINES SHALL BE 8" SDR-35 PVC WITH 3' MIN. COVER. REFER TO DETAILS 42A AND 42B FOR PIPE EMBEDMENT INFORMATION.

C. ALL FORCE MAIN SEWER LINES SHALL BE 2" SCHEDULE 40 PVC PIPE WITH 3' MIN. COVER.

D. ALL PUMPS SHALL BE ZOELLER 5030, 11 GPM, 0.5 HP PUMP AND INSTALLED PER MANUFACTURER RECOMMENDATIONS. EACH PUMP SHALL BE EQUIPPED WITH AN AIR RELEASE VALVE AND 5/16" FLOW CONTROL ORIFICE AT THE PUMP'S DISCHARGE.

E. ALL LATERALS THAT BRANCH FROM THE FORCE MAIN TO THE TANK SHALL BE EQUIPPED WITH A CHECK VALVE, ISOLATION VALVE, AND TERMINAL FLUSH CONNECTION.

F. ALL SANITARY SEWER SERVICE ENTRIES TO THE BUILDINGS AND ANY APPLICABLE GREASE TRAPS SHALL BE LOCATED AND DETAILED PER THE ARCHITECTURAL PLANS.

G. ALL WATER LINES MUST HAVE A MINIMUM 10' OF HORIZONTAL SEPARATION FROM ALL SANITARY SEWER PIPES AND FORCE MAINS.

H. ALL ELECTRIC, TELEPHONE AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.

I. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.

J. ANY CONFLICTS NOT SHOWN ON THIS PLAN SHALL BE REPORTED TO THE OWNER AND ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

K. EXISTING FACILITIES SUCH AS FENCES, ENTRY ROAD AND BUILDINGS SHOWN ON THIS DRAWING MAY BE REMOVED OR RELOCATED PER THER CIVIL DESIGN PLANS.

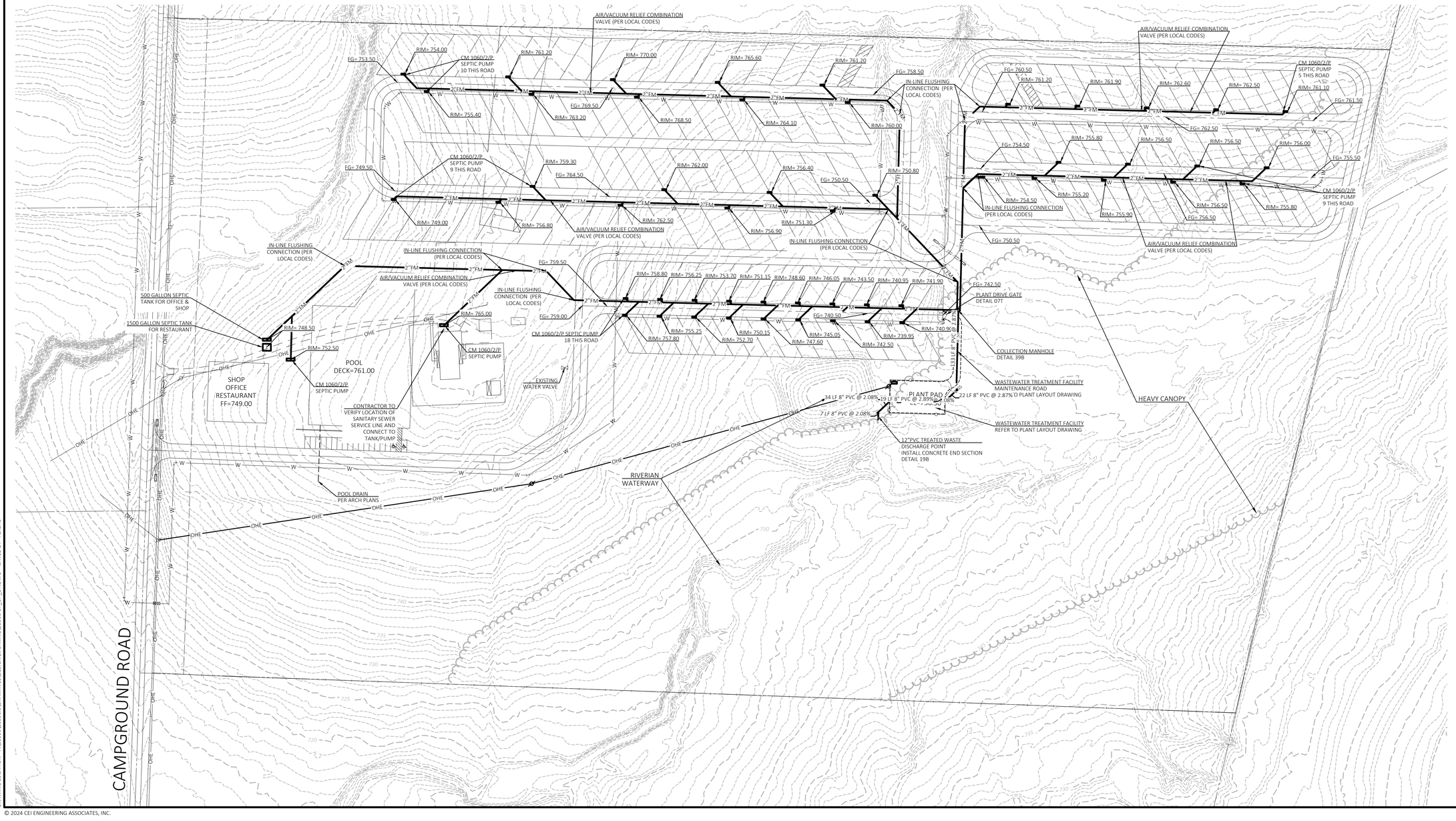
PROPOSED LEGEND

- STEP PUMP
- MANHOLE
- PROPERTY LINE/RIGHT OF WAY LINE
- OHE — OVERHEAD ELECTRIC SERVICE
- X"SS — SANITARY SEWER SERVICE
- X" FM — SANITARY SEWER FORCE MAIN
- X"W — WATER SERVICE

N

0 80' 120' 160'
SCALE IN FEET

811 Know what's below. Call before you dig.



CEI Solutions for Land and Life

CEI ENGINEERING ASSOCIATES, INC.
3030 LBJ FREEWAY, SUITE 920
DALLAS, TX 75234
PHONE: (972) 488-3737
FAX: (972) 488-6732

CAMPAHOLICS RESORTS LLC
CAMPAHOLICS
738 CAMPGROUND ROAD
TOM BEAN, TX

F-7524

STATE OF TEXAS
ANDREW E. DUNN
138639
LICENSED PROFESSIONAL ENGINEER

02/07/2024

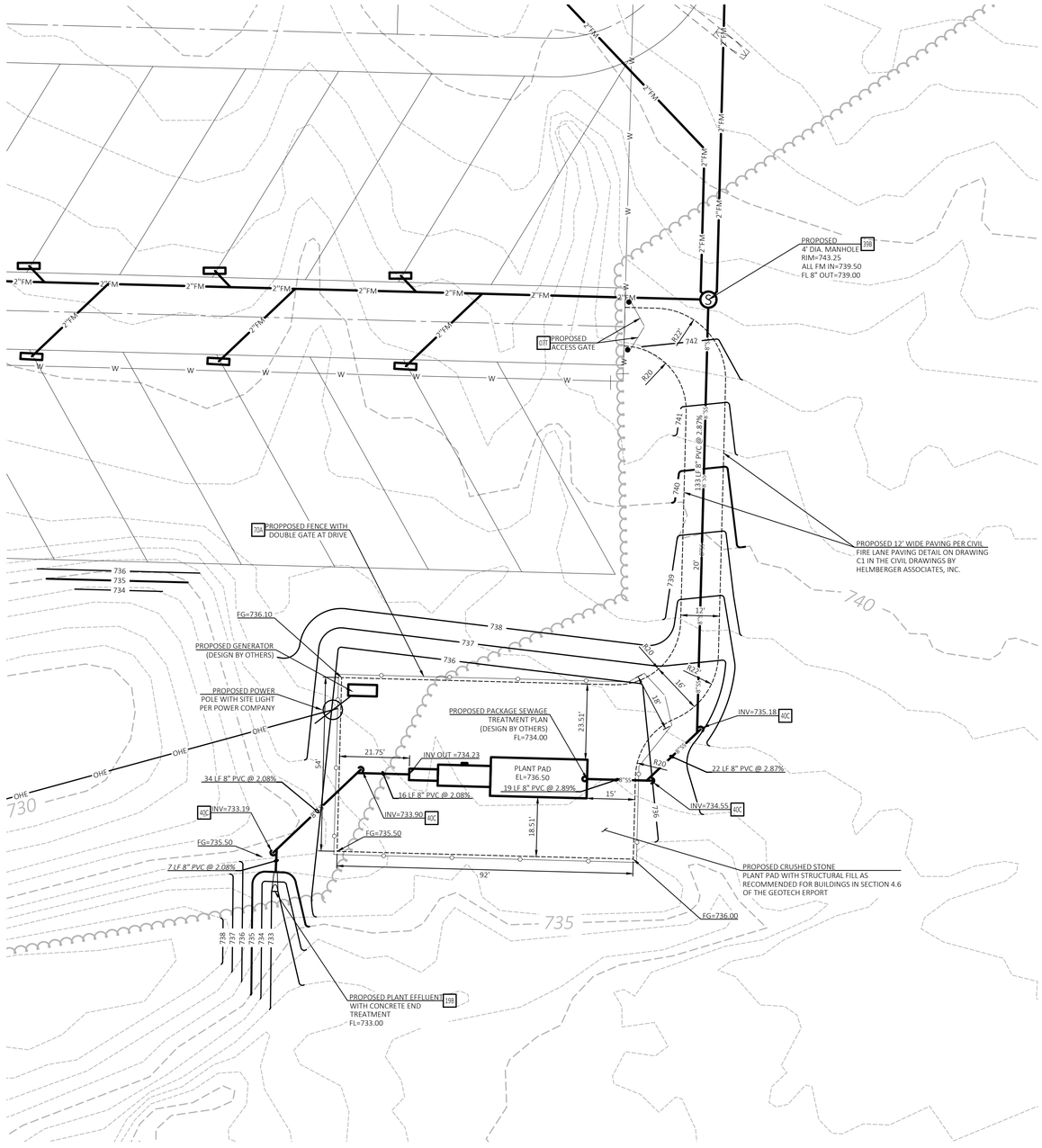
PROFESSIONAL OF RECORD	AED
PROJECT MANAGER	JEH
DESIGNER	MDT
CEI PROJECT NUMBER	33556
DATE	2/7/2024
REVISION	REV-0

SEWER SYSTEM PLAN

SHEET TITLE

SHEET NUMBER

C1



0 20' 30' 40'

SCALE IN FEET

Know what's **below.**
Call before you dig.

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UTLITY DETAILS

07T ACCESS GATE
19B CONCRETE END WALL
39B PRE-CAST SANITARY SEWER MANHOLE
40C SANITARY SEWER CLEAN-OUT
70A CHAIN LINE FENCE W/ DOUBLE GATE AND VERTICAL SLATS

CEI ENGINEERING ASSOCIATES, INC.
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DALLAS, TX 75234
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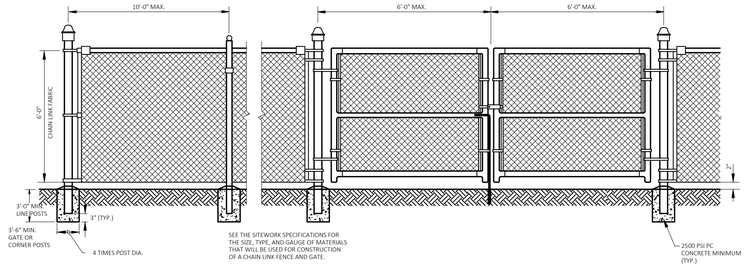
PROFESSIONAL OF RECORD	AED
PROJECT MANAGER	JEH
DESIGNER	MDT
CEI PROJECT NUMBER	33556
DATE	2/7/2024
REVISION	REV-0

PLANT SITE
SHEET TITLE

SHEET NUMBER
C2

DRAWING LOCATION - P:\33000\33556.0\DRAWINGS\DESIGN\WORKING\33556-SP_UP_DT.DWG -- SAVED BY - ADEHL



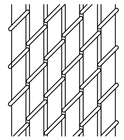
SLAT MATERIAL SPECIFICATIONS

-SLATS MADE FROM HIGH DENSITY VIRGIN POLYETHYLENE

-SLAT LENGTH APPROXIMATELY 2" SHORTER THAN HEIGHT OF CHAIN LINK FENCE

-TENSILE STRENGTH. . . . . 3,700 PSI
-RESISTANCE TO HEAT . . . . . 250°F -LOW TEMPERATURE BRITTLENESS . . . . . -105°F
-FLEXURAL STIFFNESS . . . . . 120,000 PSI
-WIND LOAD FACTOR 95%

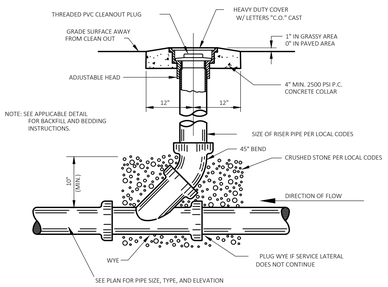
* SLAT SHALL BE TRI-SEAL INTERNATIONAL INC. OR APPROVED EQUAL



SLAT DETAIL

CHAIN LINK FENCE W/ DOUBLE GATE AND VERTICAL SLATS

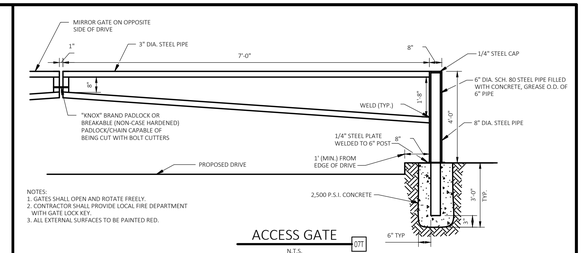
30A



SANITARY SEWER CLEAN-OUT

N.T.S.

60C

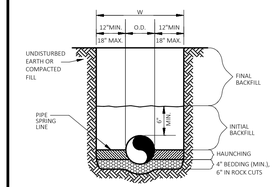


NOTES:
1. GATES SHALL OPEN AND ROTATE FREELY.
2. CONTRACTOR SHALL PROVIDE LOCAL FIRE DEPARTMENT WITH GATE LOCK KEY.
3. ALL EXTERNAL SURFACES TO BE PAINTED RED.

ACCESS GATE

N.T.S.

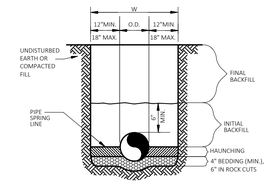
30T



WATER LINE & FORCE MAIN

N.T.S.

41A



SANITARY SEWER

N.T.S.

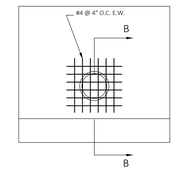
42B

GENERAL NOTES

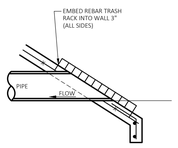
1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION)
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321, LATEST EDITION.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS)

SANITARY SEWER AND WATER LINE TRENCHING AND BEDDING

N.T.S.



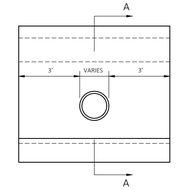
FRONT ELEVATION



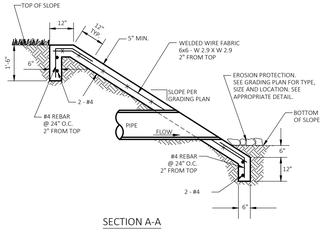
SECTION B-B

TRASH RACK DETAIL

NOTES:
1. COMPACT SUBGRADE TO 90% STANDARD PROCTOR IN HORIZONTAL LIFTS/BENCHES.
2. PROVIDE CONTROL JOINTS AT 10' O.C.
3. UNLESS OTHERWISE SPECIFIED, CONCRETE SHALL BE 3500 PSI AND REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A 615, GRADE 60.
4. SEE GRADING AND DRAINAGE PLAN FOR PIPE SIZES, LOCATIONS AND FLOW LINES.
5. CONSTRUCT TRASH RACK ONLY WHEN INDICATED ON PLANS.



FRONT ELEVATION

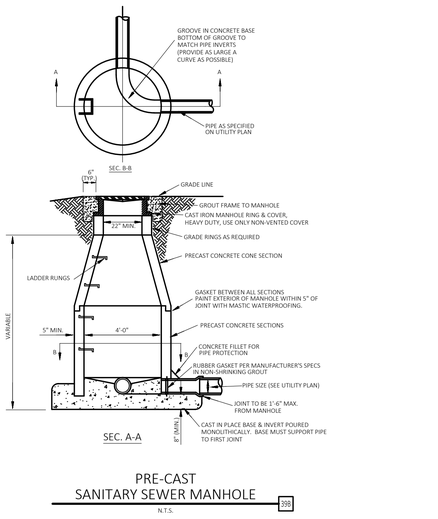


SECTION A-A

CONCRETE END WALL

N.T.S.

19B



PRE-CAST SANITARY SEWER MANHOLE

N.T.S.

59B

CEI ENGINEERING ASSOCIATES, INC.
3030 LBJ FREEWAY, SUITE 920
DALLAS, TX 75234
PHONE: (972) 488-3737
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CAMPAHOLICS RESORTS LLC
CAMPAHOLICS
738 CAMPGROUND ROAD
TOM BEAN, TX

F-7524

STATE OF TEXAS
JAMES WIELAND
138639
LICENSED PROFESSIONAL ENGINEER

02/07/2024

PROFESSIONAL OF RECORD	AED
PROJECT MANAGER	JEH
DESIGNER	MDT
CEI PROJECT NUMBER	33556
DATE	2/7/2024
REVISION	REV-0

DETAIL SHEET

SHEET TITLE

SHEET NUMBER

C3

Project:	Austin Karnes and Andrew Valdez, Andrew Diehl (PE), Campaholics RV Resort, 738 Campground Rd., Sherman, Texas, USA 75090
Type of project:	Commercial wastewater treatment. S.T.E.P. collection system. Stream disposal system.
Order No. 4-EX-24	

INITIAL DATA AND TERMS AND CONDITIONS TO APPLY
COMMERCIAL WASTEWATER TREATMENT SYSTEM
S2-IM2B-175x2-921.ND(A)

with capacity up to 30,420 GPD / 115.2 m^3/day

I. WASTEWATER TREATMENT SYSTEM OVERVIEW

The commercial wastewater treatment facilities (hereinafter - the System) consist of the S.T.E.P. collection system, pre-cast pre-treatment tanks followed by two multi-chamber Bioreactors (hereinafter - the Bioreactors).

The wastewater treatment facilities also include local grease traps for FOG (fats, oils and greases) removal.

The S.T.E.P. collection system provides wastewater primary treatment: mechanical treatment (coarse and fine solids and grit removal), FOG (fats, oils and greases) removal, main part of suspended solids removal, and pumping to the downstream treatment facilities.

For case of possible improper S.T.E.P. collection system functioning and maintenance, the pre-treatment tanks are provided to protect the Bioreactors. The pre-treatment tanks should include two digestion and two flowrate equalization tanks arranged in two trains.

Two digestion tanks, each with working volume of 18,492 gal (70 m^3), should ensure residual suspended solids settling and these solids and mineralized sludge from the S.T.E.P. collection system digestion applying the special biopreparation.

Two flowrate equalization tanks, each with working volume of 2,575 gal (9.75 m^3), are necessary for wastewater flowrate equalization. Each is to be equipped with two submersible pumps (one duplex) to ensure dosed wastewater feeding to the Bioreactors with duration at least 18 hours/day.

The Bioreactors are intended for biological (secondary) treatment.

II. INITIAL DATA

II.1. Wastewater sources: RV resort with 225 sites, 50 cabins and a restaurant. The assumed person equivalent is 1,750.

II.2. Type of wastewater collection and disposal systems:

Type of collection system – S.T.E.P.
Type of disposal system – stream.

II.3. Physical and operational parameters:

II.3.1. Assumed outside air temperature: the lowest 41 degF (5 degC), the highest 104 degF (40 degC).

II.3.2. Electrical power on site, i.e. Phases (quantity), Voltage (V), Frequency (Hz):

- Phase - 3, U - 480 V, 60 Hz.

II.3.3. Elevation above sea level: 734 ft (224 m).

II.4. Hydraulic loadings:

Maximal daily (Q_{max}) = 30,420 GPD (115.2 m^3/day);
Average hourly ($Q^h_{calc.}$) = 28.18 GPM (6.4 m^3/hour).

II.5. Chemical loadings:

II.5.1. Raw influent design criteria:

pH:	7
5-day Biological oxygen demand (BOD_5):	800 mg/l
Chemical oxygen demand (COD):	1200 mg/l
Total suspended solids (TSS):	800 mg/l
Total Kjeldahl Nitrogen (TKN):	140 mg/l

II.5.2. Main parameters characterizing influent

Stability and efficiency of the biological treatment process with achievement of the required treated effluent quality depend on the raw wastewater characteristics. The main parameters, which should comply with values indicated in the below Table No. 1, have been determined in accordance with the project design criteria indicated in p. II.5.1.:

Table No. 1

No.	Quality Indicator	Units	Values		Acceptable fluctuations	
			calculated	acceptable	daily	hourly
1	*2*	*3*	*4*	*5*	*6*	*7*
1.	Wastewater temperature, T	°C	13÷17	12÷25	± 2°C	±2÷3°C
2.	pH	pH units	7	6.5÷7.5	±0.1÷0.2	±0.3
3.	Hydraulic loading	m^3/day	100%	5÷100%	-	-
4.	5-day Biological oxygen demand (BOD_5)	mg/l	800	100÷800	±10%	±20%
5.	Chemical oxygen demand (COD)	mg/l	1,200	100÷1,200	±10%	±20%
6.	Total suspended solids (TSS)	mg/l	800	30÷800	±10%	±20%
7.	Total Kjeldahl Nitrogen (TKN), incl.:	mg/l	140	5÷140	±10%	±20%
	• Nitrates nitrogen ($NO_3 \rightarrow$ N)	mg/l	—	—	—	—
	• Ammonium nitrogen ($NH_4 \rightarrow$N)	mg/l	87.5	3÷87.5	±10%	±20%
	• Organic nitrogen ($N_{org.}$)	mg/l	52.5	2÷52.5	±10%	±20%
8.	Total phosphorus (TP)	mg/l	10	1÷10	±10%	±20%
9.	Chlorides (Cl^-)	mg/l	50	30÷300	±10%	±20%
10.	Detergents (biodegradable)	mg/l	12.5	2÷12.5	±10%	±20%
11.	Sulphates $(SO_4)^{2-}$	mg/l	30	7÷50	±10%	±20%
12.	Alkalinity ($CaCO_3$)	mg/l	268	268÷875	—	—
13.	FOG (Fats, Oils and Greases)	mg/l	50	7÷50	±10%	±20%
14.	Fecal coliforms	No./100 ml	10^6	10^4÷10^6	±10%	±20%
15.	Salinity	mg/l	600	500÷1000	±10%	±20%
16.	Whole effluent toxicity (WET):					
	Acute toxicity	TUa	1.0	—	—	—
	Chronic toxicity	TUc	0.3	—	—	—

*The indicated in the above Table No. 1 acceptable deviations of wastewater parameters towards the larger values, caused by daily pollutant load fluctuations not exceeding the calculated values in total, are only acceptable at wastewater temperature not less than **12** degC.*

II.5.3. Influent design criteria after S.T.E.P.:

pH:	7
5-day Biological oxygen demand (BOD_5):	560 mg/l
Chemical oxygen demand (COD):	780 mg/l
Total suspended solids (TSS):	240 mg/l
Total Kjeldahl Nitrogen (TKN):	140 mg/l
FOG:	50 mg/l

II.5.4. Calculated primarily treated equalized influent criteria

The primary treatment should ensure certain level reduction of the chemical loading according to the design as indicated below:

pH:	7
5-day Biological oxygen demand (BOD_5):	560 mg/l
Chemical oxygen demand (COD):	780 mg/l
Total suspended solids (TSS):	240 mg/l
Total Kjeldahl Nitrogen (TKN):	140 mg/l
FOG:	50 mg/l

II.6. Effluent requirements

Treated effluent quality meets the following requirements:

pH:	6 to 9
5-day Carbonaceous Biological oxygen demand ($CBOD_5$):	10 mg/l
Total suspended solids (TSS):	10 mg/l
Dissolved Oxygen:	min. 5.0 mg/l

The Manufacturer guaranties the indicated treated effluent quality under the following conditions:

- Raw and primarily treated wastewater quality should correspond to the initial data and all terms and conditions specified in this document;
- There should be ensured normal operation and maintenance of the System in accordance with the Manufacturer's requirements and the terms and conditions specified in this document.

III. TERMS AND CONDITIONS TO APPLY BIOLOGICAL TREATMENT PROCESS

III.1. S.T.E.P. collection system operation:

- Each individual septic tank should be operated with constant application of the biopreparation *Bacti-Bio 9500*. This biopreparation provides high effect to stabilization ensuring effective primary management, significant reduction of primary sludge volume and odour prevention.
- Sludge level should be constantly monitored by means of automatic sludge level sensor or manual Sludge Judge device.
- Each septic tank routine desludging is to be done as frequently as needed to avoid sludge overflow into the downstream treatment facilities which is strictly forbidden.

III.2. Digestion tanks operation:

- The digestion tanks should be operated with constant application of the biopreparation *Bacti-Bio 9500 or 9800*. This biopreparation provides that primary sludge effectively accumulates and stabilizes, and it should not be evacuated for a long time. As a result, high sludge stabilization process efficiency is ensured, suspended solids do not flow out from the tank and odour is prevented.
- The sludge level should be constantly monitored by means of automatic sludge level sensor or manual Sludge Judge device.
- The digestion tanks routine desludging is to be done as frequently as needed to avoid sludge overflow into the Bioreactor which is strictly forbidden.

III.3. Biological treatment process requirements:

- For normal regeneration of biocenoses the optimal nutrients ratio content should correspond to the ratio **BOD_5 : N : P = 70 : 5 : 1.**
- The normal biological treatment process is achieved by maintaining in wastewater the ratio value of **COD/BOD_5 = 1.8 - not higher than 2.**

III.4. Guidelines for FOG handling:

- FOG level should be constantly monitored. If influent FOG concentration is permanently higher than 50 mg/l in any of local discharges, then it is necessary to apply constantly specially selected biopreparation for FOG decomposition. If influent FOG concentration exceeds 100 mg/l, then it is necessary to build a local grease trap and use in it the biopreparation for FOG decomposition.

III.5. List of pollutants, incl. non-biodegradable and toxic ones:

The performance of the System is based on the condition that no inhibiting, harmful or toxic components are present in concentrations which inhibit or stop biological activity and growth.

The biological treatment process is very stable. However inhibitors will adversely impact the performance of the System and effluent quality.

III.5.1. Acceptable concentrations and their fluctuations of specific pollutants:

Table No. 2

No.	Pollutant name	Units	Values		Acceptable fluctuations	
			calculated	acceptable	daily	hourly
1	***2***	***3***	***4***	***5***	***6***	***7***
1.	Acrolein	mg/l	0.01	0.009÷0.011	±10%	±20%
2.	Allyl alcohol	mg/l	3	2.7÷3.3	±10%	±20%
3.	Aniline	mg/l	0.1	0.09÷0.11	±10%	±2%
4.	Acetic aldehyde	mg/l	20	18÷22	±10%	±20%
5.	Acetone	mg/l	40	36÷44	±10%	±20%
6.	Barium	mg/l	10	9÷11	±10%	±20%
7.	Benzoic acid	mg/l	15	13.5÷16.5	±10%	±20%
8.	Butyl alcohol normally, incl.:	mg/l	10	9÷11	±10%	±20%
9.	• Secondary	mg/l	20	18÷22	±10%	±20%
10.	• Tertiary	mg/l	20	18÷22	±10%	±20%
11.	Vanadium	mg/l	2,0	1.8÷2.2	±10%	±20%
12.	Vinyl acetate	mg/l	100	90÷110	±10%	±20%
13.	Bismuth	mg/l	15	13.5÷16.5	±10%	±20%

1	2	3	4	5	6	7
14.	Hydrazine	mg/l	0,1	0.09÷0.11	±10%	±20%
15.	Hydroquinone	mg/l	15	13.5÷16.5	±10%	±20%
16.	Glikozin	mg/l	30	29.7÷33	±10%	±20%
17.	Glycerol (glycerine)	mg/l	90	81÷99	±10%	±20%
18.	Dibutylphthalate	mg/l	0,2	0.18÷0.22	±10%	±20%
19.	Dimethylacetamide	mg/l	15	13.5÷16.5	±10%	±20%
20.	Dimethylphenyl carbinol	mg/l	1	0.9÷1.1	±10%	±20%
21.	Dicyandiamide	mg/l	100	90÷110	±10%	±20%
22.	Diethanolamide	mg/l	1	0.9÷1.1	±10%	±20%
23.	Diethylamine	mg/l	10	9÷11	±10%	±20%
24.	Caprolactam	mg/l	25	22.5÷27.5	±10%	±20%
25.	Karbometil cellulose	mg/l	by BOD_5	-	-	-
26.	Cobalt (Co^{2+}, Co^{3+})	mg/l	1	0.9÷1.1	±10%	±20%
27.	Orthocresol	mg/l	100	90÷110	±10%	±20%
28.	Crotontic aldehyde	mg/l	6	5.4÷6.6	±10%	±20%
29.	Xylene	mg/l	1,0	0.9÷1.1	±10%	±20%
30.	Latexes	mg/l	10	9÷11	±10%	±20%
31.	Ludigol	mg/l	100	90÷110	±10%	±20%
32.	Maleic acid	mg/l	60	54÷66	±10%	±20%
33.	Butyric acid (butanoic acid)	mg/l	500	450÷550	±10%	±20%
34.	Metazine	mg/l	10	9÷11	±10%	±20%
35.	Methanol	mg/l	30	29.7÷33	±10%	±20%
36.	Methyl methacrylate	mg/l	500	450÷550	±10%	±20%
37.	Methylstyrene	mg/l	1	0.9÷1.1	±10%	±20%
38.	Methyl ethyl ketone	mg/l	50	45÷55	±10%	±20%
39.	Monoethanolamine	mg/l	5	4.5÷5.5	±10%	±20%
40.	Urea (carbamide)	mg/l	by BOD_5	-	-	-
41.	Tin (Sn^{2+})	mg/l	10	9÷11	±10%	±20%
42.	Polyacrylamide	mg/l	40	36÷44	±10%	±20%
43.	Polyvinyl alcohol	mg/l	20	18÷22	±10%	±20%
44.	Propylene alcohol	mg/l	12	10.8÷13.2	±10%	±20%
45.	Resorcinol	mg/l	12	10.8÷13.2	±10%	±20%
46.	Selenium (Se^{2+})	mg/l	10	9÷11	±10%	±20%
47.	Carbon disulfide (CS_2)	mg/l	5	4.5÷5.5	±10%	±20%
48.	Synthetic detergents (anionic)	mg/l	20	18÷22	±10%	±20%
49.	Synthetic detergents (oxydizable)	mg/l	12.5	2÷12.5	±10%	±20%
50.	Styrene (C_8H_8)	mg/l	10	9÷11	±10%	±20%
51.	Sodium sulphides (Na_2S)	mg/l	1	0.9÷1.1	±10%	±20%
52.	Antimony (Sb^{+3})	mg/l	0,5	0.45÷0.55	±10%	±20%
53.	Thiourea $CS(NH_2)_2$	mg/l	10	9÷11	±10%	±20%
54.	Titanium (Ti^{+2})	mg/l	0,1	0.09÷0.11	±10%	±20%
55.	Toluene	mg/l	15	13.5÷16.5	±10%	±20%
56.	Tricresyl	mg/l	40	36÷44	±10%	±20%
57.	Triethanolamine	mg/l	5	4.5÷5.5	±10%	±20%

1	2	3	4	5	6	7
58.	Phenols (C_6H_5OH)	mg/l	15	13.5÷16.5	±10%	±20%
59.	Formaldehydes	mg/l	100	90÷110	±10%	±20%
60.	Phthalic acid	mg/l	0,5	0.45÷0.55	±10%	±20%
61.	Hromolan	mg/l	10	9÷11	±10%	±20%
62.	Cyanide (anionic)	mg/l	1,5	1.35÷1.65	±10%	±20%
63.	Ethyl alcohol	mg/l	14	12.6÷15.4	±10%	±20%
64.	Emukril C	mg/l	10	9÷11	±10%	±20%
65.	Etamon DS	mg/l	10	9÷11	±10%	±20%
66.	2-ethylhexanol	mg/l	6	5.4÷6.6	±10%	±20%
67.	Ethylene glycol	mg/l	1000	900÷1100	±10%	±20%
68.	Ethylene chlorohydrin	mg/l	5	4.5÷5.5	±10%	±20%

III.5.2. Maximum acceptable concentrations of elements and compounds which inhibit biological treatment process:

Table No.3

No.	Description of parameter	Unit	Maximum allowable concentrations
1	2	3	4
1.	Volatile organic compounds (including toluene, benzol, acetone, methanol, butanol, propanol, isomers and their alkyl derivatives)	mg/l	20
2.	Sulphides and Hydrogen Sulphide (S^{2-}, H_2S)	mg/l	1.5
3.	Chloride and chloramines	mg/l	5
4.	Aluminium (Al^{3+})	mg/l	3
5.	Total number of iron ions (Fe^{2+}, Fe^{3+})	mg/l	3
6.	Manganese (Mn^{2+})	mg/l	1
7.	Copper (Cu^{2+})	mg/l	0.5
8.	Zinc (Zn^{2+})	mg/l	1.0
9.	Total Chromium (Cr^{3+})+(Cr^{6+})	mg/l	0.5
10.	Chromium (Cr^{6+})	mg/l	0.05
11.	Nickel (Ni^{2+})	mg/l	0.25
12.	Cadmium (Cd^{2+})	mg/l	0.015
13.	Lead (Pb^{2+})	mg/l	0.1
14.	Arsenic (As^{+})	mg/l	0.1
15.	Mercury (Hg^{2+})	mg/l	0.005
16.	Strontium (Sr)	mg/l	2.0
17.	Pharmacologically active compounds: - hormones 17β-estradiol	mg/l	0.4
	- 17α-ethinylestradiol	mg/l	0.035
	- diclofenac (non steroidal anti-inflammatory drug)	mg/l	100
18.	Acrylic acid	mg/l	0.0025
19.	Butyl acrylate	mg/l	0.0005
20.	Butyl acetate	mg/l	0.1
21.	Dimethylphenol	mg/l	0.01

1	2	3	4
22.	Adipic acid dinitrile	mg/l	0.1
23.	Isobutyl alcohol	mg/l	1.0
24.	Isopropyl alcohol	mg/l	0.01
25.	Carbomol	mg/l	1.0
26.	Methacrylamide	mg/l	0.1
27.	Methacrylic acid	mg/l	0.005
28.	Molybdenum (Mo)	mg/l	0.0012
29.	Lactic acid	mg/l	0.9
30.	Ethylene glycol monoethyl ether	mg/l	1.0
31.	Formic acid	mg/l	1.0
32.	L-naphthol	mg/l	0.1
33.	B-naphthol	mg/l	0.4
34.	Nitrobenzene	mg/l	0.01
35.	Octanol (octyl alcohol)	mg/l	0.05
36.	Pyrocatechol	mg/l	0.1
37.	Propylene glycol	mg/l	0.6
38.	Sintamid	mg/l	0.1
39.	Acetic acid	mg/l	0.01
40.	Fluoride (anionic)	mg/l	0.5

III.5.3. Pollutants that cannot be biologically removed from wastewater:

Table No. 4

No.	Pollutant name
1	2
1.	Anisole (methoxybenzene)
2.	Acetophenone
3.	Butylbenzene
4.	Hexachloran (hexachlorocyclohexane)
5.	Hexachlorobenzene
6.	Geksahlorbutadion
7.	Geksahlorbutan
8.	Hexachlorocyclopentadiene
9.	Hexachloroethane
10.	Hexogene
11.	Dimethyldioxane
12.	Dimetilditiofosfat
13.	Dimetildihlorvinilfosfat
14.	Dichloroaniline
15.	Dichlorobenzene
16.	Dichlorobutene
17.	Dichlorohydrin
18.	Dichlorodiphenyltrichloroethane (DDT)
19.	Dihlornaftohinon
20.	Dihlorpropionat sodium
21.	Dichlorvos
22.	Dichloroethane
23.	Diethylaniline
24.	Diethylene glycol
25.	Diethyl ether

1	2
26.	Diethyl maleate
27.	Diethylmercury
28.	Isoprene
29.	Isopropylamine
30.	Kaptaks
31.	Karbofos
32.	B-merkaptodietilamin
33.	Metaphos
34.	Metilnitrofos
35.	Nitrobenzene
36.	Nitrochlorobenzene
37.	Pentaerythritol
38.	Petrolaum (mixture of solid hydrocarbons)
39.	Picric acid (trinitrophenol)
40.	Pyrogallol (trioxybenzenes)
41.	Polychloropinene
42.	Polyethyleneimine
43.	Propylbenzene
44.	Tetrachlorobenzenes
45.	Tetrahlorgeptan
46.	Tetrachloromethane (carbon tetrachloride)
47.	Tetrahlornonan
48.	Tetrahlorpentan
49.	Tetrahlorpropan
50.	Tetrahlorundekan
51.	Tetrachloroethane
52.	Thiophene (tiofuran)
53.	Thiophos
54.	Tributyl phosphate
55.	Triethylamine
56.	Phosphamide
57.	Furfurol
58.	Chlorobenzene
59.	Chloroprene
60.	Chlorophos
61.	Chlorocyclohexane
62.	Ethylbenzene
63.	Cyclohexane
64.	Cyclohexanol

The given lists cannot be totally comprehensive or exhaustive - just be careful and cautious before discharging any substances, materials or chemicals into sewer.

IV. GENERAL GUIDELINES FOR RESIDENTIAL AND NON-RESIDENTIAL DISCHARGES

All discharges shall be consistent with all the terms and conditions of this document. If necessary, wastewaters from any non-residential sources should be properly pretreated to comply with the System's sizing criteria.

IV.1. Residential sites

It is necessary to educate water users explaining that one of preservation conditions of friendly environment is high-quality work of sewage treatment facilities. That directly

depends on what quality flow residents generate. Therefore they should be aware of and start using:

- biodegradable/bio-oxidizing sanitizing solutions and cleaning agents for housekeeping;
- biodegradable/bio-oxidizing personal care products;
- pharmaceuticals with biodegradable/bio-oxidizing base or homeopathic medicines.

Wastewaters from any non-residential sources should be properly pretreated before entering sewage system to comply with System's application terms. Pretreatment should ensure that System influent characteristics do not affect the performance of the System and, in particular, do not inhibit microbiological activity and impede biological treatment process.

IV.2. Guidelines for commercial or industrial operations:

- Every building, structure, or premises used or occupied by any sewer user where any commercial or industrial operations are conducted or permitted which result in the discharge into the sewer system of any products, waste products, or other substances, matter, or liquid in the manner and to the extent prohibited in this section shall be equipped with an adequate and suitable grease trap, filter, or other interception device installed in such a manner that the product, waste products, or other substances, materials, or liquid herein set forth will not flow into or be discharged into the sanitary sewer system.
- Extremely high peak flowrates may be reduced by the use of an onsite detention tank and an equalization basin.

IV.3. Institutional and recreational facilities, including schools and kindergartens

It is necessary to educate management of these facilities about necessity of use of biodegradable/bio-oxidizing sanitizing solutions and cleaning agents, and stop using the chlorine-based cleaning agents for creating healthy and safe indoor environment.

IV.4. Laundries (non-residential)

Extremely high peak flowrates may be reduced by the use of an onsite equalization basin. Equalization volume should be equal to the daily wastewater flow from the laundry. The laundry should use biodegradable/bio-oxidizing detergents, softeners, sanitizing solutions and cleaning agents.

IV.5. Pools (non-residential)

By common practice, there should be two separate treatment systems of domestic and technological wastewaters. In this case the segregation of wastewater from pools, i.e. technological wastewater, is required.
Pool water is not recommended for biological treatment due to the chlorine content, which is extremely harmful to microorganisms.
During maintenance works, when discharging all water from pools, it is necessary to organize the discharge so as it does not create shock hydraulic load on the treatment system.
Extremely high peak flowrates may be reduced by the use of an onsite equalization basin. Equalization volume should be equal to the daily wastewater flow from pools.

IV.6. Medical institutions

Based on the summarized experience and global practices, any kind of medical and health facilities require a different approach in developing solutions and evaluating the possibility of using biological wastewater treatment due to the presence of disinfectants, detergents, pharmaceuticals, pathogen microorganisms and other non-biodegradable and/or toxic substances in their generated wastewaters. Compared to municipal sewage the above mentioned pharmaceuticals and personal care products, in this case are always present in

higher concentrations. Indeed, some certain pharmaceuticals and/or disinfectants can dominate, depending on the specifics of the facility.
Discharge of wastewater in sewer system from medical institutions with their subsequent treatment on the equipment of biological treatment is possible only in case of appropriate engineering design in accordance with facilities specifics and influent quality compliance to local and/or regional regulations on discharge in the sewer.

V. PROHIBITED DISCHARGES

The biological treatment process is very stable. However inhibitors may adversely impact the effluent quality from the biological treatment system. Therefore, none of the following biologically non-degradable or hard-to-degrade substances or wastewaters should be introduced into the sanitary sewer system:

- Cooking oil or melted fat e.g. from grill tray or chip pan;
- Water or waste having pH higher than 7.5 or lower than 6.5;
- Blood;
- Regeneration water, residues of salty water/solutions from drinking/process water treatment equipment;
- Stormwater from roofs and impervious surfaces;
- Water from swimming pools after their refill or scheduled maintenance;
- Excrements of animals;
- Septic/anaerobic waters/sludges;
- Medical mud;
- Any sanitizing solutions, surface-active agents, or other substances in amounts which may cause excessive foaming and or treatment process inhibition;
- Any pollutant which either alone or by interaction may create a fire or explosive hazard in the sanitary sewer;
- Substances which have a devastating effect on the material pipelines, equipment and other facilities of sewerage systems: acids, solvents, alkali, etc.

No user shall introduce or cause to be introduced into the sanitary sewer any pollutant or wastewater which causes pass through or interference:
substances and materials which have ability to clog pipelines, wells, bar racks or leave deposits inside pipelines: sanitary towels, tampons, cotton wool, incontinence pads, etc., garbage which has not been properly shredded, municipal solid wastes, floating up wastes, insoluble fats, tars, petroleum oil, etc., rubber gloves, gauze pads, bakers clothing (coats, hats, aprons etc.), mill scale, lime, grit, gypsum, swarf, manure (animal waste), soil, construction wastes and trash, solid or viscous substances in quantities restricting pipeline flow or other interference with the proper operation of sewage system and pipes.

If subsequent operation will show that actual wastewater flows and loads, as well as any other conditions differ from the described in the present document, the Bioreactors and/or the entire System should be resized and/or optimized from point of dimensional characteristics, process and technology. In such case the Manufacturer and its local Distributor are not responsible for treated effluent quality and withdraw from any guarantees.

Project:	Austin Karnes and Andrew Valdez, Andrew Diehl (PE), Campaholics RV Resort, 738 Campground Rd., Sherman, Texas, USA 75090
Type of project:	Commercial wastewater treatment. S.T.E.P. collection system. Stream disposal system.
Order No. 4-EX-24	

GENERAL INFORMATION
COMMERCIAL WASTEWATER TREATMENT BIOREACTORS
S2-IM2B-175x2-901.ND(A)
with capacity up to 30,420 GPD / 115.2 m^3/day

I. APPLICATION

The commercial wastewater treatment Bioreactors (hereinafter the Bioreactor/-s) are intended for wastewater biological (secondary) treatment. The Bioreactors application should be in compliance with the Initial data which it has been sized for and the specified Terms and Conditions.

II. SCOPE OF SUPPLY

- Multi-chamber Bioreactors (i.e. two technological lines);
- Electrical panel, including dry contact to send alarm signal if the compressor fails, to auto dialer provided by others (two panels – one for each of two Bioreactors).

III. EQUIPMENT SPECIFICATION

Multi-chamber Bioreactors:

Function: biological (secondary) wastewater treatment.

Construction: The Bioreactors make two identical technological lines placed side by side. Each Bioreactor represents a rectangular tank, stainless steel AISI 304 made divided with baffles into three chambers. It is designed for in ground installation.

Equipment *(there is described one technological line as the other one is identical)***:**

The 1st chamber is equipped with:
- fine-bubble diffusers for saturation with oxygen,
- medium-bubble diffuser for floating media mixing,
- submersible compressor,
- floating media.

The 2nd chamber is equipped with:
- fine-bubble diffusers for saturation with oxygen,
- medium-bubble diffuser for floating media mixing,
- floating media.

The 3rd chamber is equipped with:
- fine-bubble diffusers for saturation with oxygen,
- block static media,
- control tubes with mounting brackets.

There are provided special constructive elements, i.e. stainless steel retention meshes and limiters to prevent floating media overflow from the first chamber to the second one and from the second chamber to the third one.

For the Bioreactor draining and servicing maintenance shafts are provided in the 1st and the 3rd chambers. The draining can be carried out by a service pump.

The shaft in the Bioreactor's 1st chamber with floating media represents a stainless steel made standpipe welded on the sidewall of the chamber. When the chamber is filled with floating media, openings in the shaft bottom are closed with stainless steel mesh in order to prevent floating media inflow into the shaft.

The maintenance shaft in the Bioreactor's 3rd chamber with block media is made by cut-out in the media.

Air supply in the Bioreactor is provided by a submersible compressor. Air feeding pipelines are supplied to distribute air within the whole Bioreactor.

The Bioreactor is equipped with air distribution pipelines, necessary fittings and fixing elements.

The Bioreactor is partially covered with stainless steel made lids.

Electrical power supply and control

Both Bioreactors have the electrical panel. Power supply cable is to be connected to the electrical panels.
Also a dry contact is provided in the electrical panels to transmit a signal, if the compressor fails, to auto dialer supplied by others.

IV. PROCESS DESCRIPTION

GENERAL PROVISIONS

The wastewater is treated in the following steps:
- primary treatment in the S.T.E.P. collection system,
- pre-treatment with solids digestion and the following hydraulic equalization,
- secondary, i.e. biological, treatment.

IV.1. PRIMARY TREATMENT

The S.T.E.P. collection system provides wastewater primary treatment: mechanical treatment (coarse and fine solids and grit removal), main part of suspended solids removal, and pumping to the downstream treatment facilities.

Each individual septic tank should be operated with constant application of the biopreparation *Bacti-Bio 9500*. This biopreparation provides high effect of stabilization ensuring effective primary sludge management, significant reduction of its volume and odour prevention.

The wastewater treatment facilities also include local grease traps for FOG (fats, oils and greases) removal.
FOG level should be constantly monitored. If FOG concentration is permanently higher than 50 mg/l, then it is necessary to apply constantly in the existing grease trap the specially selected biopreparation for FOG decomposition, for example, *BioEase™ 4260* and carry out timely grease trap treatments to clean out accumulated FOGs.

IV.2. PRE-TREATMENT

Then wastewater is pre-treated. Two digestion tanks provide residual suspended solids removal as well as these solids and mineralized sludge from the S.T.E.P. collection system digestion applying the special biopreparation.

The sludge level should be constantly monitored and the digestion tanks routine desludging is to be done as frequently as needed to avoid sludge overflow into the Bioreactors which is strictly forbidden.

IV.3. FLOWRATE EQUALIZATION AND WASTEWATER FEEDING TO BIOREACTORS

After the primary treatment, wastewater comes by gravity to the equalization tanks, where wastewater flow equalization takes place. Each equalization tank is equipped with two submersible pumps which feed wastewater to the Bioreactor.
The required wastewater feeding duration to the Bioreactors is at least 18 hours/day.
The calculated feeding volume is:
$v = Q_{day} / 18$, m^3/hour,
where Q_{day} is wastewater amount per day.

IV.4. BIOLOGICAL TREATMENT

General process characteristic

The biological process is based on biofilm technology. Biofilm is a dense community of attached-growth microorganisms living on specially designed plastic carriers (media). Having direct contact with wastewater, biofilm absorbs and oxidizes pollutants thus providing treatment. Multiple biozones ensure that an appropriate biological system develops according to the nature of wastewater composition. It supports dynamic balance on its own both in mass and qualitative composition according to variations of wastewater parameters (within the range of optimal adaptation rates and permissible values of calculated loads). Due to efficient ecosystem development in the Bioreactor there is *no excess biomass growth*.

Process description

Each Bioreactor consists of three flow-type chambers.

1st chamber - hydrolysis-fermentation chamber

Function:
- oxidation of organic matter;

Processes:
- sorption and oxidation of dissolved organic matter (BOD) by biofilm;
- hydrolysis of colloids and suspended solids (SS) by exoenzymes secreted by biofilm bacteria;
- sorption and oxidation of hydrolysis products.

2nd chamber - bio-oxidation chamber

Function:
- oxidation of organic matter;

Processes:
- sorption and oxidation of dissolved organic matter (BOD) by biofilm;
- hydrolysis of colloids and suspended solids (SS) by exoenzymes secreted by biofilm bacteria;
- sorption and oxidation of hydrolysis products.

3rd chamber – polishing chamber

Function:
- oxidation of organic matter residues (BOD and TSS);
- trophic mineralization of biomass overgrowth;
- biological disinfection.

Processes:
- biofilm carries out sorption and oxidation of BOD residues;
- low organic loading on biofilm promotes the release of exopolymers by bacteria.

- the exopolymers ensure residual suspended solids and biomass adsorption on biofilm surface.
- grazing microorganisms feed on the adsorbed biomass thereby carrying out trophic mineralization and biological disinfection.

Oxygen conditions

Oxygen supply and mixing are provided by aeration.
The oxygen mode is a function of the following factors:
- organic load,
- thickness and density of biofilm,
- wastewater temperature.

The required amount of dissolved oxygen for each process stage should be optimized and adjusted according to the User manual recommendations.

Start-up and commissioning

Formation of the biofilm occurs spontaneously, without operation staff interference, based on set and maintained level of dissolved oxygen in each chamber. After a period of successions, the dynamic equilibrium is reached, which is characterized by stable treatment process performance in accordance with the project requirements.

At the beginning, the maturation of the first biocenoses (pioneer communities of attached-growth microorganisms) occurs, which form the base to secure working biocenosis formation later. This stage takes 3 ÷ 5 days.

At the next stage, the working heterotrophic biocenosis forms. The formation occurs after several successions. This stage takes 6 ÷ 20 days.

V. CALCULATED OPERATIONAL PARAMETERS

No.	Parameter description	Unit	Value per	
			day	year
1.	Electrical power comsumption (all the equipment in the Bioreactors' scope of supply)	kW·h	150.96	55,100.40
2.	Estimated amount of digested sludge in the digestion tanks (with constant application of the biopreparation Bacti-Bio 9500)	m^3	0.19	69.35
3.	Biopreparation Bacti-Bio 9500 for constant application in the digestion and septic tanks	kg	*	*
4.	Biopreparation Bacti-Bio 9500 for occasional application (for start-up acceleration and chemical loading reduction)	kg	-	3

* - The amount of the biopreparation should be calculated based on the actual digestion and septic tanks working volume in accordance with the recommendations of the biopreparation's Manufacturer. The recommendation in m^3 is:
- The first dose introduction: 50 g/m^3
- Regular operation: 6 g/m^3 every two weeks.

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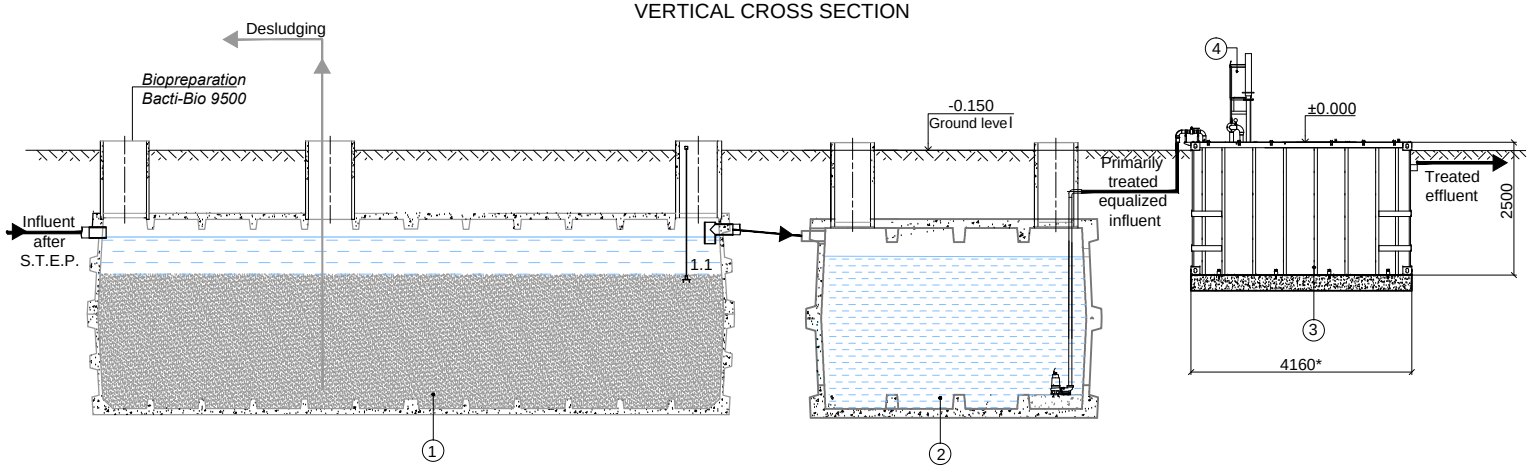
Type of project:	Commercial wastewater treatment. S.T.E.P. collection system. Stream disposal system.
Order No. 4-EX-24	

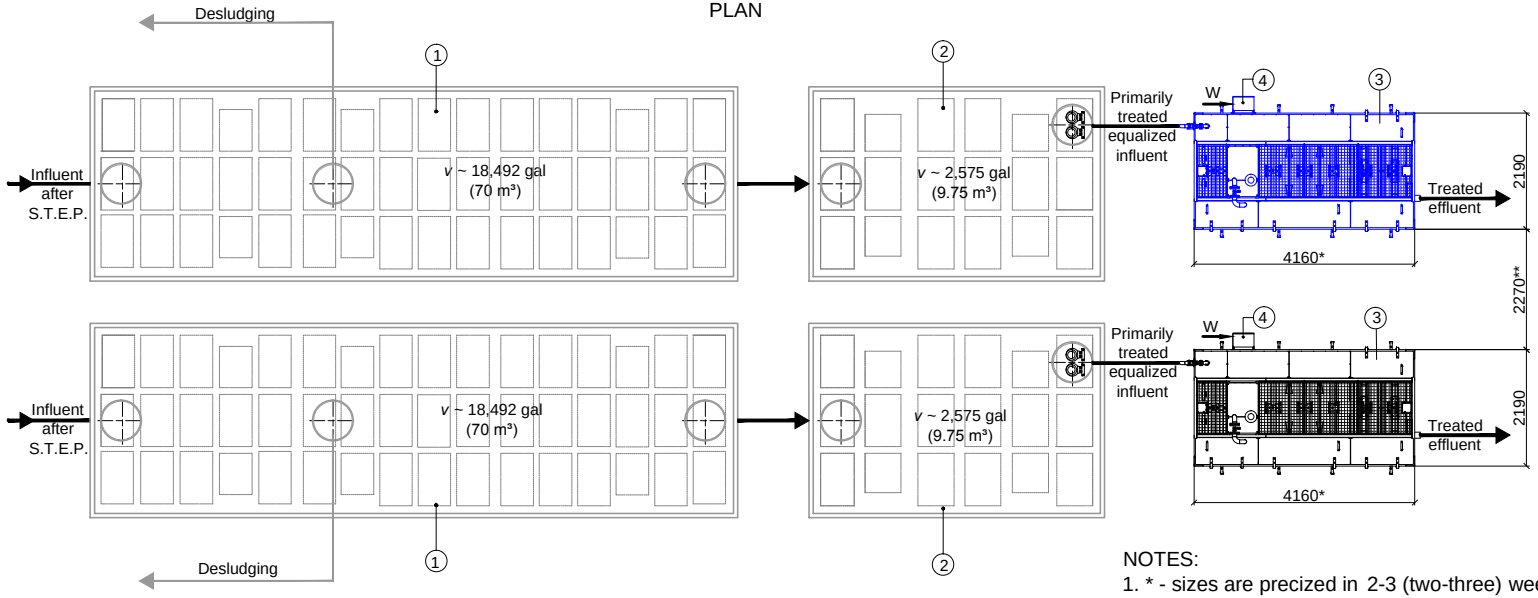
AquaTechSystems
DECENTRALIZED WASTEWATER SYSTEMS

OVERALL DRAWING: VERTICAL CROSS SECTION. PLAN.
COMMERCIAL WASTEWATER TREATMENT SYSTEM
S2-IM2B-175x2-921.ND(A)
with capacity of 30,420 GPD / 115.2 m³/day

VERTICAL CROSS SECTION



PLAN



KEY:
1. Digestion tank, incl.:
   1.1 Sludge level sensor
2. Flowrate equalization tank with equipment for wastewater feeding to Bioreactor
3. Multi-chamber Bioreactor
4. Electrical panel

LEGEND

Phase I

Phase II

NOTES:
1. * - sizes are precized in 2-3 (two-three) weeks after start of manufacturing.
2. ** - size is detemined by engineering design according to site conditions and overall layout of WWTP.
3. Digestion tank and flowrate equalization tank are shown conditionally.
4. Due to continuous improvement of wastewater treatment technologies and equipment manufacturing Aqua Tech Systems LLC retains the right to modify technical descriptions and equipment at any time without prior notice.

Project:	Austin Karnes and Andrew Valdez, Andrew Diehl (PE), Campaholics RV Resort, 738 Campground Rd., Sherman, Texas, USA 75090
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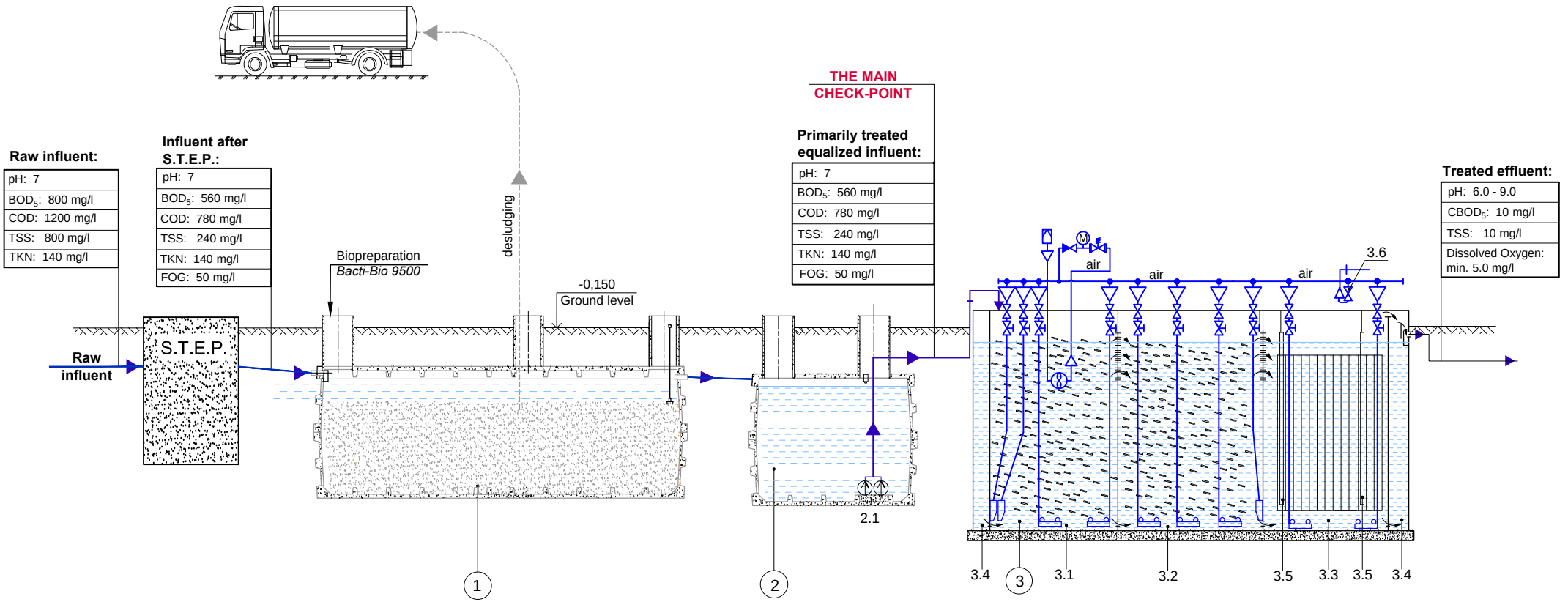
Order No. 4-EX-24	

PRINCIPAL PROCESS FLOW DIAGRAM
COMMERCIAL WASTEWATER TREATMENT SYSTEM
S2-IM2B-175x2-921.ND(A)
with capacity of 30,420 GPD / 115.2 m^3/day



KEY:
1. Digestion tank
2. Flowrate equalization tank, including:
   2.1 Equipment for wastewater feeding to Bioreactor
3. Multi-chamber Bioreactor:
   3.1 Hydrolysis-fermentation chamber
   3.2 Bio-oxidation chamber
   3.3 Polishing chamber
   3.4 Maintenance shafts
   3.5 Control tube with mounting bracket
   3.6 Tap for block media air scouring lance

LEGEND
- submersible compressor
- floating media type 04 (Biochips)
- block static media B-200
- fine-bubble diffusers
- medium-bubble diffusers
- tap
- valve
- check valve
- safety valve
- retention mesh
- dismountable connection
- pipelines connection
- pipelines crossing (without connection)
- water flow direction (liquid)
- air flow direction (gas)
- air filter
- pressure gauge
- submersible pump
- sludge level sensor
- water level sensor

NOTES:
1. The System consists of two trains, just one train shown on the Diagram.
2. The Diagram shows assumed maximum raw and primarily treated influent quality.
3. Digestion and flowrate equalization tanks are shown conditionally. Location and dimensions will be precized during engineering design development.

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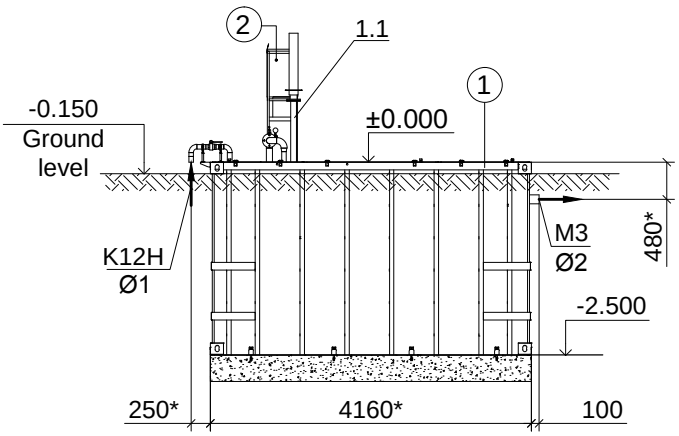
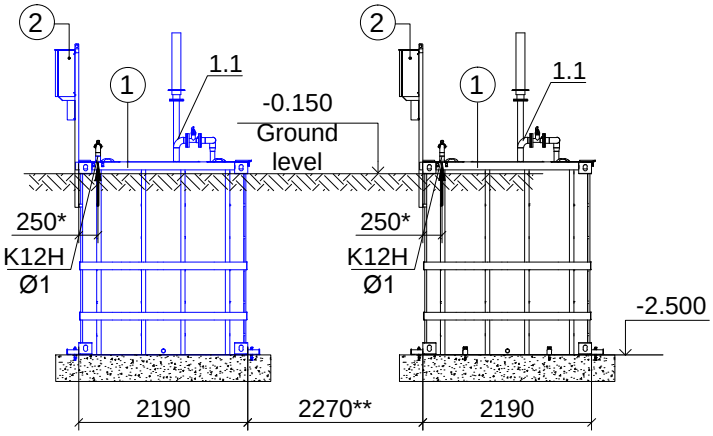
Order No. 4-EX-24	

OVERALL DRAWING: VIEWS. PLAN.
MULTI-CHAMBER BIOREACTORS
S2-IM2B-175x2-901.ND(A)
with capacity of 30,420 GPD / 115.2 m³/day

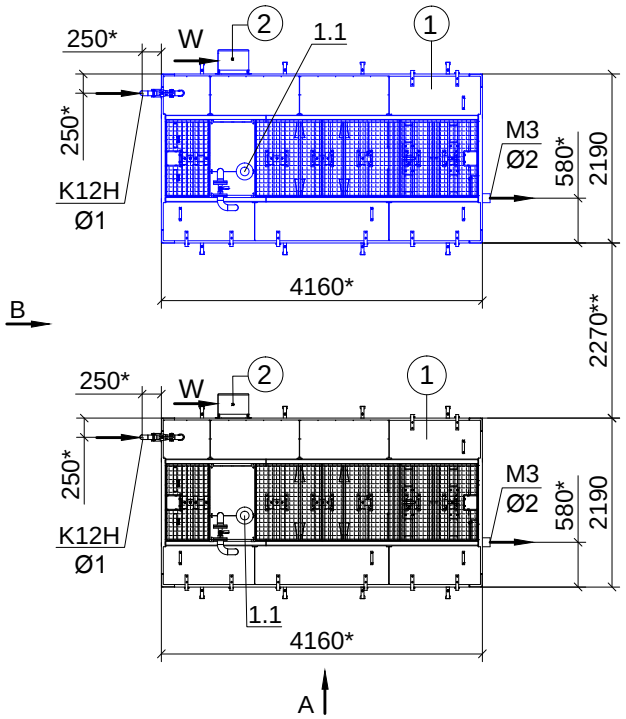
VIEW A



VIEW B



PLAN



KEY:
1. Multi-chamber bioreactor, including:
   1.1 Submersible compressor
2. Electrical panel

LEGEND
K12H - commercial primarily treated equalized pressurized influent
M3 - treated effluent
W - electrical power cable inlet

phase I

phase II

CHARACTERISTIC OF PIPELINES

K12H, Ø 1	Nipple NPT 2"
M3, Ø 2	Stainless steel made branch pipe DN100 (4")

NOTES:
1.* - sizes are precized in 2-3 (two - three) weeks after start of manufacturing.
2.** - size is detemined by engineering design according to site conditions and overall layout of WWTP.
3. Due to continuous improvement of wastewater treatment technologies and equipment manufacturing Aqua Tech Systems LLC retains the right to modify technical descriptions and equipment specification at any time without prior notice.

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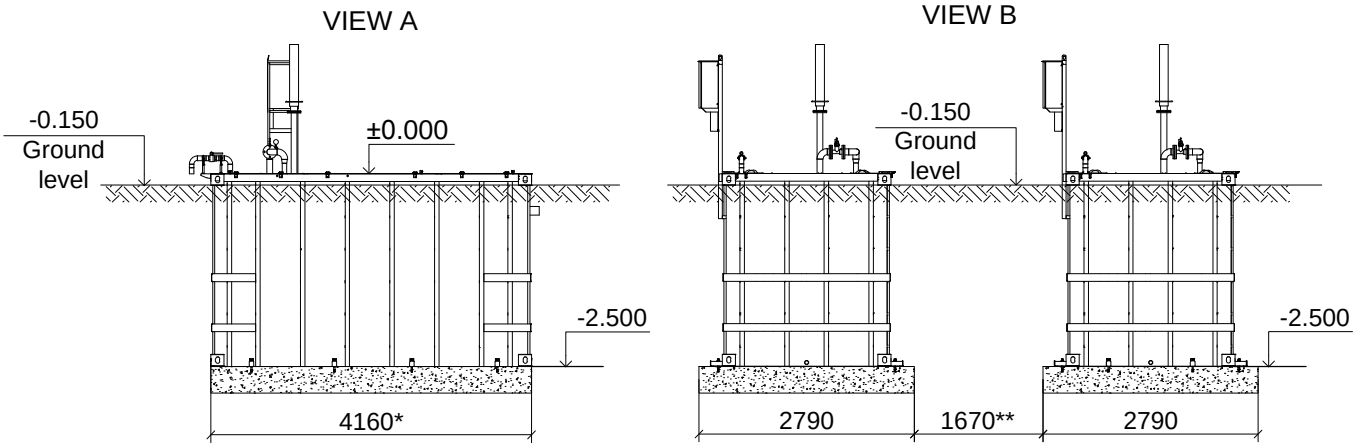
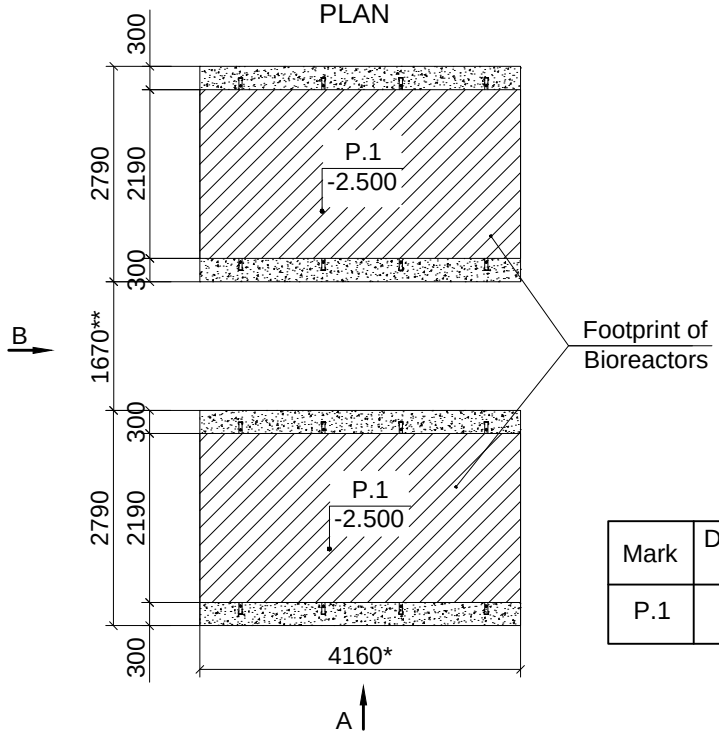
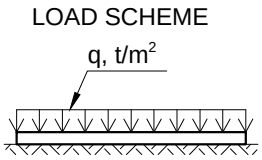
SCHEME OF FOUNDATIONS DESIGN
MULTI-CHAMBER BIOREACTORS
S2-IM2B-175x2-901.ND(A)
with capacity of 30,420 GPD / 115.2 m³/day







SPECIFICATION OF FOUNDATIONS

Mark	Description	Quantity	Description of equipment	Weight/Load	
				t	t/m²
P.1	Plate	2	Multi-chamber Bioreactor, q_1	-	2.5

NOTES:
1.* - sizes are precized in 2-3 (two - three) weeks after start of manufacturing.
2.** - size is detemined by engineering design according to site conditions and overall layout of WWTP.
3. Sizes are given in mm, height marks in m.
4. Foundations surfaces should be strictly horizontal with tolerance ± 0.5 mm to each linear meter.
5. Type of concrete and its strength, construction, sizes and section compositions are determined by the engineering design according to actual initial data, hydro-geological conditions and the indicated weight/loads.
6. After in ground foundations mounting it is necessary provide the backfill around the tanks that will prevent their to floating, moving or settling.
7. The weights/loads are given for the equipment in working condition without any possible external affecting loads.

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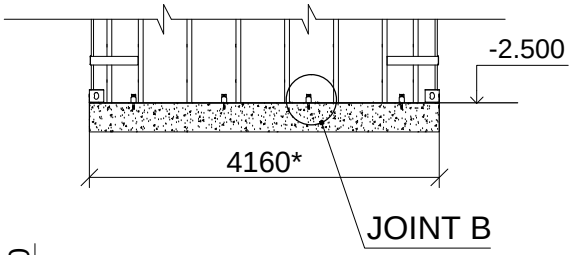
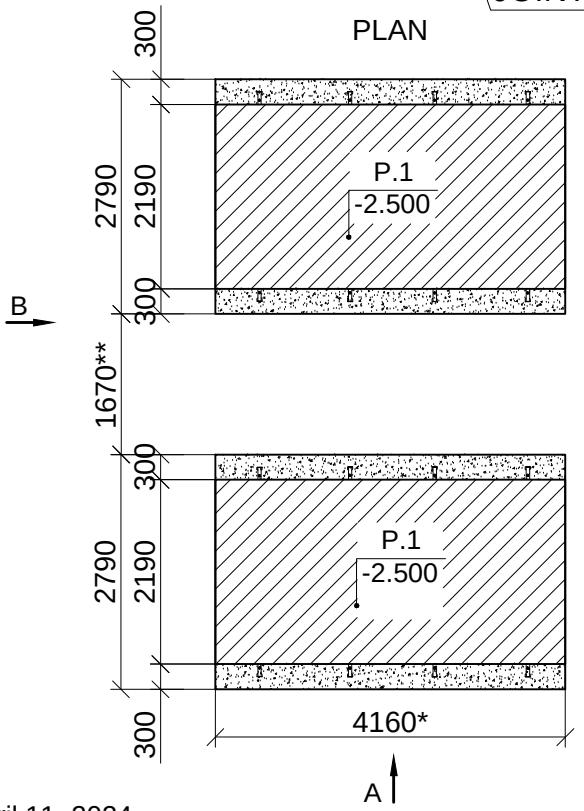
FASTENING SCHEME TO FOUNDATIONS
MULTI-CHAMBER BIOREACTORS
S2-IM2B-175x2-901.ND(A)
with capacity of 30,420 GPD / 115.2 m³/day

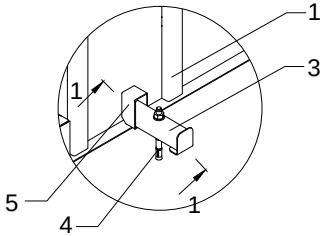
VIEW A



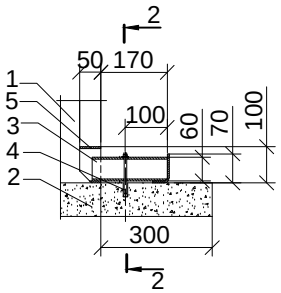
PLAN



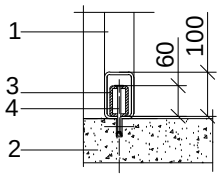
JOINT B
GENERAL VIEW



CROSS SECTION 1-1



CROSS SECTION 2-2

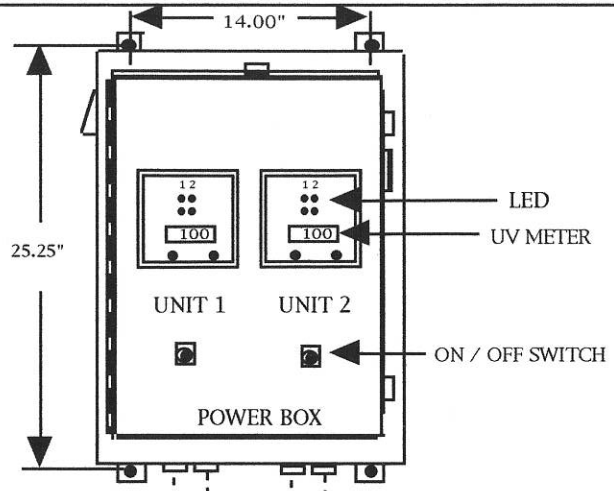


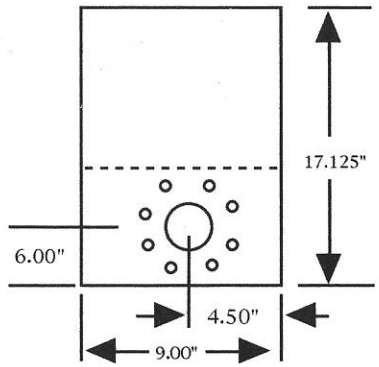
KEY:
1. Bioreactor
2. Concrete plate
3. Fixing element
4. Wedge shaped anchor bolt M-16
5. Place of fixing element fastening

NOTES:
1. Quantity of wedge shaped anchor bolts for two Bioreactors - 16 pcs (M-16).
2. Sizes are given in mm, height marks in m.
3. Foundations surfaces should be strictly horizontal with tolerance ± 0.5 mm to each linear meter.
4. Type of concrete and its strength, construction, sizes and section compositions are determined by the engineering design according to actual initial data, hydro-geological conditions and the indicated weight/loads.
5.* - sizes are precized in 2-3 (two - three) weeks after start of manufacturing.
6.** - size is detemined by engineering design according to site conditions and overall layout of WWTP.

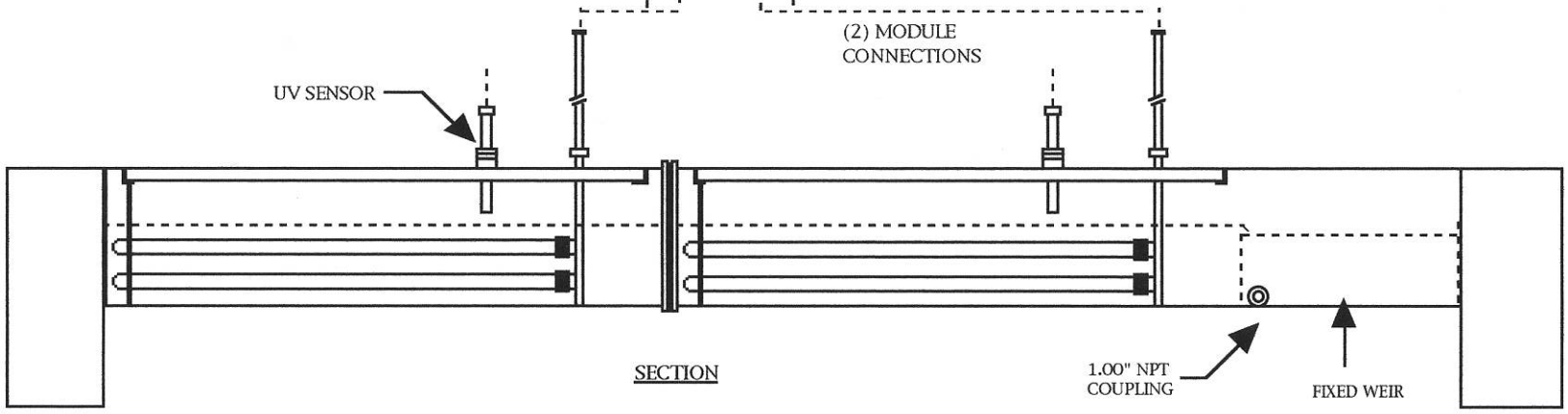
SPECIFICATION

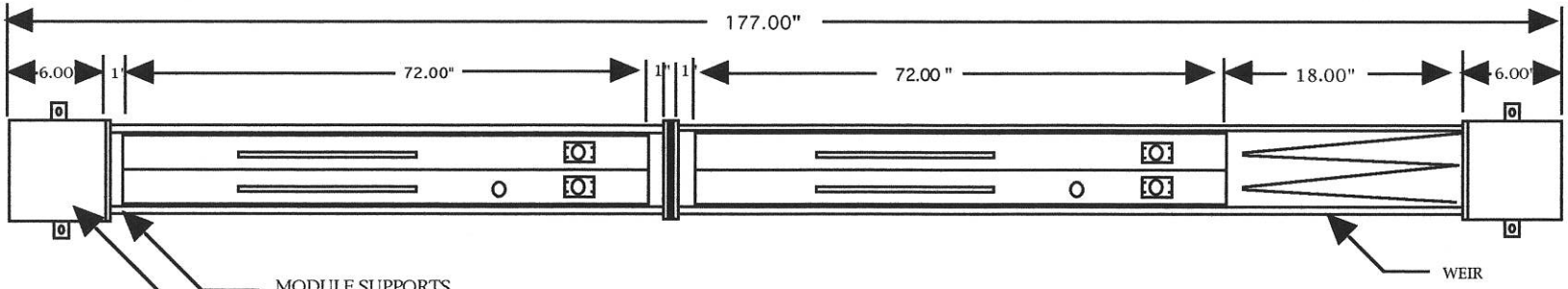
1. TYPE OF LIQUID: WASTE WATER
2. PEAK FLOW: 70 GPM
3. HEAD LOSS: LESS THAN 4" AT RATED FLOW
4. TRANSMISSION: 45%
5. QUALITY: 30 BOD / 30 TSS





END VIEW (2 PL)

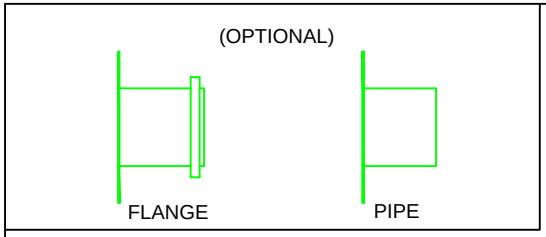




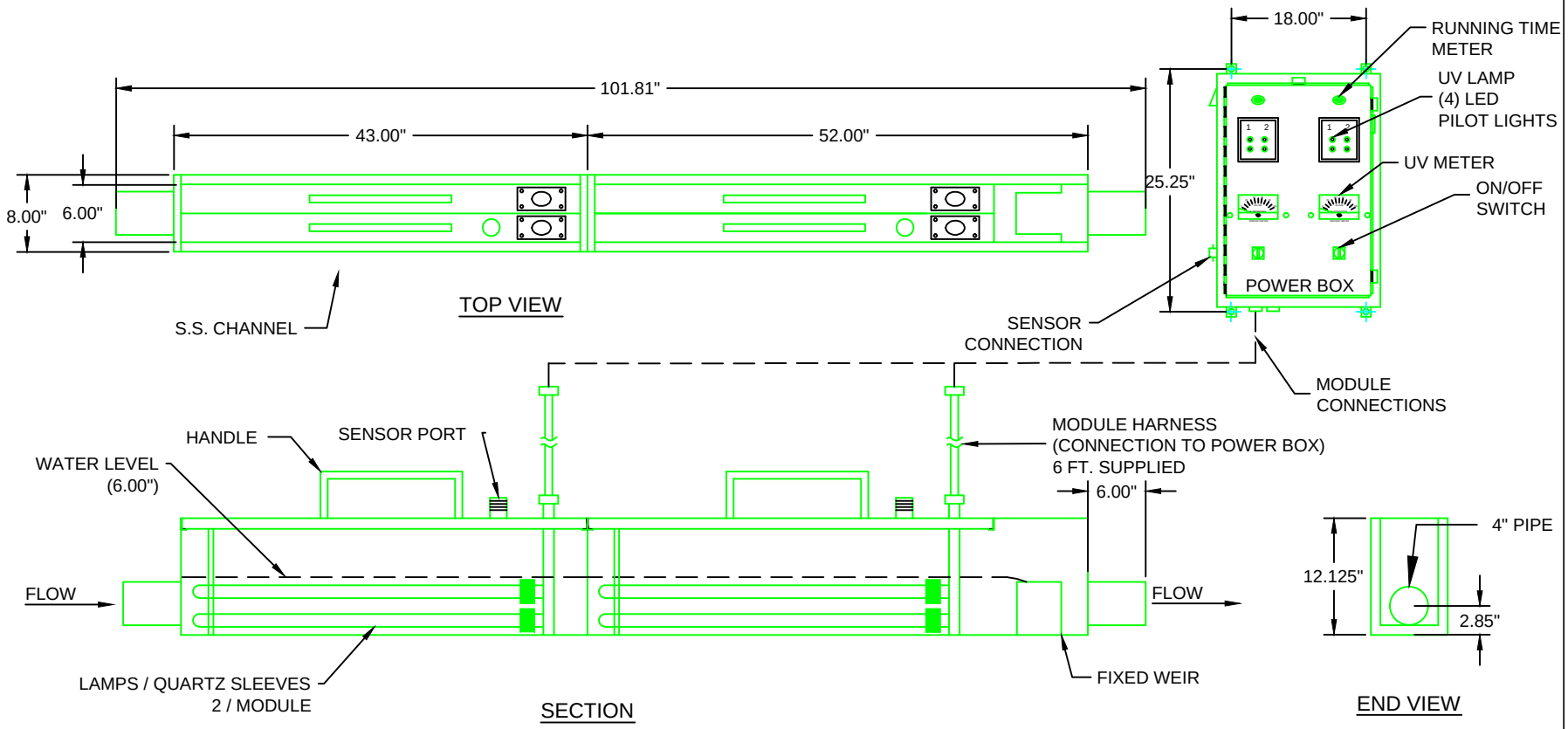
AQUA AZUL
13704 HANFORD SRMONA ROAD
HANFORD, CA 93230
PHONE: 559-589-1430 FAX: 559-589-1185

MODEL: AZHO - 4000-2 CHANNEL

DRAWN BY: DA	DATE: 8/08	APPR: JM	MATERIAL: 304 S.S.

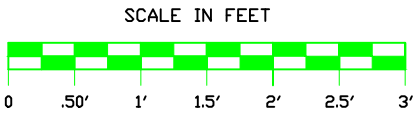


CHANNEL END CONNECTIONS



SPECIFICATIONS:

1. TYPE OF LIQUID: WASTE WATER
2. FLOW RATE: 75,000 GPD
3. HEAD LOSS: LESS THAN 6" AT RATED FLOW
4. TRANSMISSION: 45%
5. ELECTRICAL: 120 VAC / 60 HZ
7. POWER SUPPLY BOX: OUTDOOR DESIGN FAN COOLED



aqua azul Corporation
13701 6TH STREET, SUITE C1
ARMONA, CA 93202
PHONE: 559-589-1430
FAX: 559-589-1185

OPEN CHANNEL WASTEWATER UV DISINFECTION SYSTEM
MODEL AZHO-400-2

DATE: 12/14	DRAWN: AM	MATERIAL: 304 S.S.	FINISH: ELECTROPOLISHED & PASSIVATED

	Germicidal Lamp Data Sheet **L-1-804-HO-N L-1-941-HO-N**	Aqua Azul Corp

Dimensions

A - Base face to opposite pin length	**1570+/-3 mm**
B - Base face to base face length	**1554+/-3 mm**
C - Diameter	**15.0 mm**
D - Overall length pin to pin	**N/A mm**
Base	**SPECIAL BASE**

Electrical Data *(nominal values)*

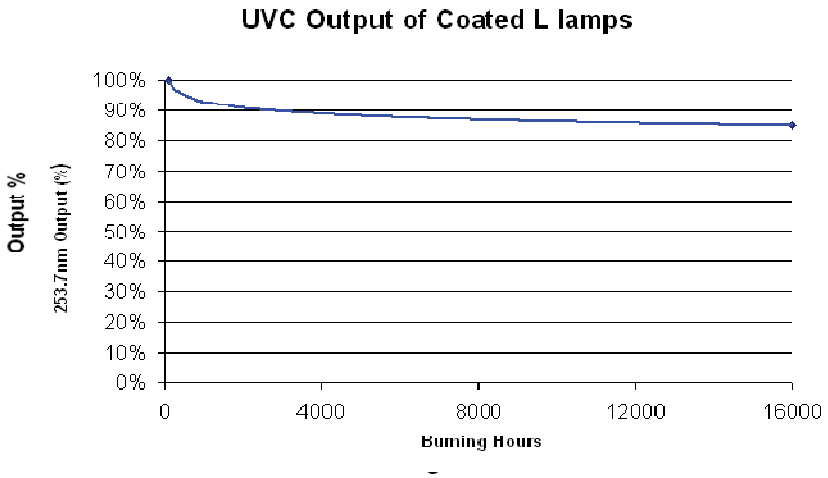
Lamp Wattage	**155 W**
Lamp Current	**0.800 A**
Lamp Voltage	**220 V**

Physical Data

UV Output 253.7nm (100hr)	**54 W**
Intensity @ 1m	**395 µW/cm2**
Rated Average Life	**16000 hrs**

Maintenance curve

The useful life is determined
on the operation condition of the lamp
(for example type of ballast, ignitor used,
cooling conditions, on/off cycle, etc.)



Note: Performance data are valid under laboratory conditions using HIGH FREQUENCY ELECTRONIC BALLAST.

Attachment 7

Force Main Analysis For the Proposed Campaholics Resorts Pressure Sewer

Rev.00

January 31, 2024

Prepared By:
Michael Kelley, PE

Analysis/Design Method

The following analysis was based on the simplified equation from the EPA Manual: "Alternative Wastewater Collection Systems" (EPA/625/1-91/024). The general form of the equation is: Q=AN+B, where A is typically 0.5, B is 20, and N is the number of EDUs contributing flow to the respective pipe segment. For this application, each service connection serves four RV lots with water and sewer service. Though 4 RV lots will have similar waste flows to a residential lot, the A value was increased to 1.0, double the contribution of a typical EDU. Therefore, the equation used for the analysis was:

$$Q = 1.0 * N + 20$$

The daily flows were not provided for the office, shop, restaurant, or pool area. Each of these were modeled as one service connection, equivalent to the service connections serving 4 RV lots each.

The Zoeller model 5030, 11 GPM, 0.5 HP turbine effluent pump was analyzed for this pressure sewer analysis (please reference the curve attached). The model 5030, 11 GPM, 0.5 HP turbine effluent pump is a seven stage centrifugal pump with a maximum flow of 15 GPM and a shutoff head of 241'.

Process

The sewer force main was broken down into individual branches for analysis. These branches represent the terminal points in the system and their flow paths to the outfall. Each of these paths were analyzed and each branch analysis considers the flow and pressure effects of the other branches in the system. The analysis method described above uses the Rational Method to size the pumps and pipe network to efficiently serve all pump locations.

Each branch analysis includes a table of values and a graph of the data; the printouts of the analysis with this data are attached to the end of this report. The table is arranged with segments of the branch represented by different rows. The physical and calculated characteristics for each segment are provided in the rows. The graph provides a visual reference for the force main length, elevations, and hydraulic grade line. The vertical difference between the pipe elevation and the hydraulic grade line at a given location represents the pressure in the force main. The graph conveniently illustrates the pressure changes regarding location and force main elevation under design flow conditions.

It is important to note that the pressures given in the analysis reflect the force main pressures only. Lateral losses between the individual pump station and force main still need to be accounted for. Though the analysis does give some consideration to lateral losses by assuming 20’ of lateral losses. If the force main pressure is within 20’ of the shutoff head, the respective force main segment will be considered marginal for that model of pump.

Assumptions

Force Main Material: PVC SCH 40

Hazen-Williams Frictional Coefficient: 140

Outfall: Manhole @ 743’

The topographical/surface elevations were used in place of the force main elevations as a force main profile was not available for the entire pressure sewer at the time the report was written. Assuming the force main will follow the contour of the surface, the difference should not affect the result.

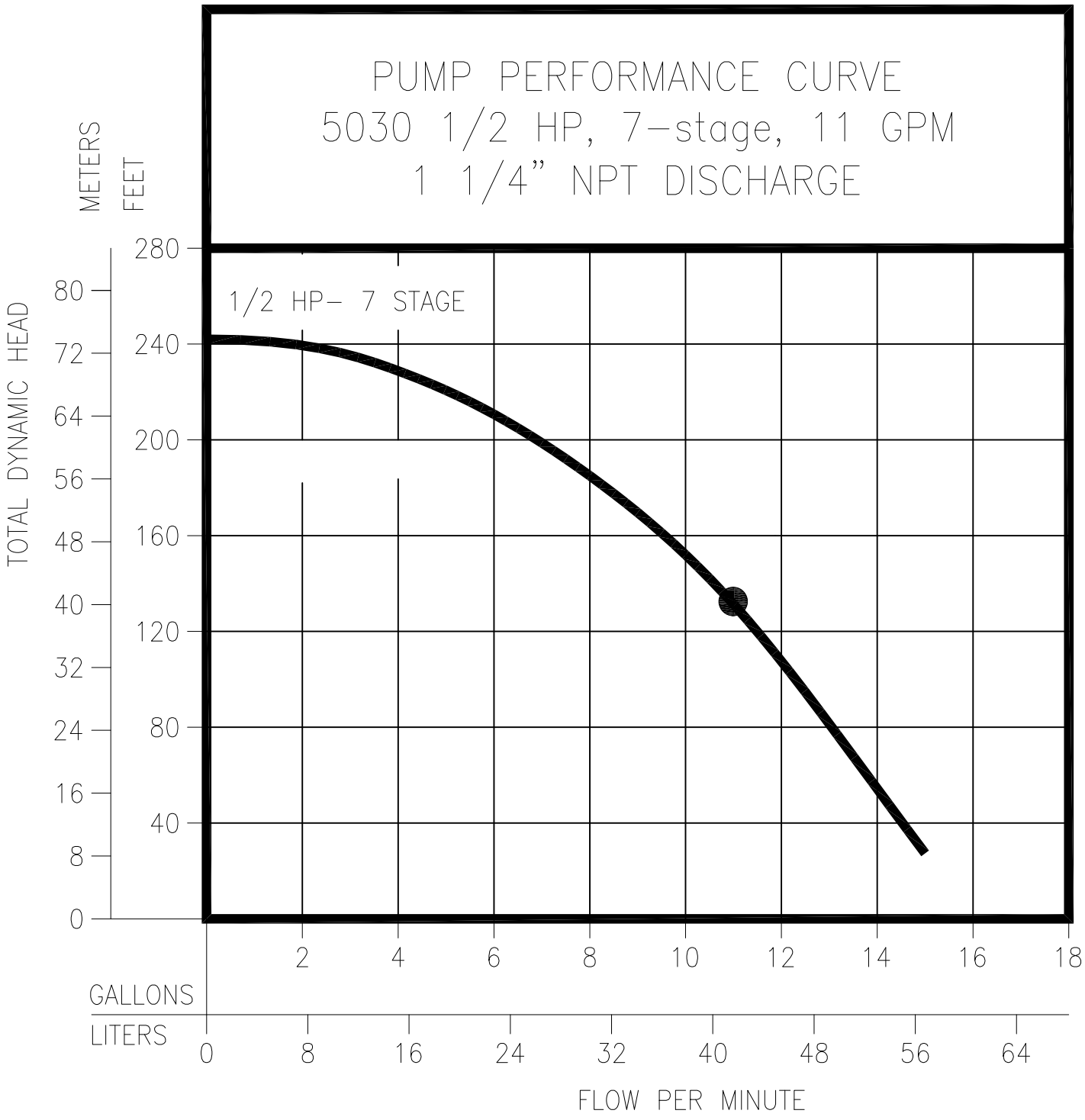
Conclusion

The analysis indicates that the Zoeller 5030, 11 GPM, 0.5HP turbine pump can be used for the Campaholics Resorts development with the proposed force main diameters. The exact daily flows were not provided, though given the low amount of pressure within the system any slight differences in flow will be negligible on the pump selection.

We recommend that all laterals have a redundant check and isolation valve, generally referred to as a curb stop, to isolate and protect the lateral from back flow from the force main. Additionally, vacuum-breaking valves should be used for all grinder pump basins that are above the gravity outfall to prevent siphoning. Air and Vacuum relief combination valves should be used at the high points of the force main to prevent air lock and siphoning to ensure a long life of the system. At a minimum, air/vacuum valves should be added every 2,000 feet of flat, horizontal runs and preceding any downhill run with a drop of 30 feet or more. Terminal flush connections should be used at each terminal point, change in direction, or intersection with another main within the system. In-line flush connections should be installed, at a minimum, every 1,000 feet. The project owner/engineer/contractor shall consult with local regulators to ensure compliance with local codes and best practices.

Additionally, we recommend that air release valves (ARV) and a 5/16” flow control orifice (FCO) be added in the pump’s discharge. The ARVs will help prevent siphoning of the pump vault. The flow control orifice consists of a washer that is placed in the pump’s discharge to prevent the pumps from running off their curve in a low-head situation. In off-peak conditions it is likely that the TDH will drop below the minimum head required for the 5030, 11 GPM, 0.5HP turbine pump. The FCO creates pressure in low-head, high flow circumstances and prevents the pump from overloading the motor yet has a diminishing effect as the pressure increases and does not affect the pump’s overall head capability.

Any drawings contained within this report are intended for clarification of the hydraulic analysis. These drawings are not intended to be used for construction, quoting or to act as a final set of drawings. Please contact the owner or engineer for final, detailed drawings.

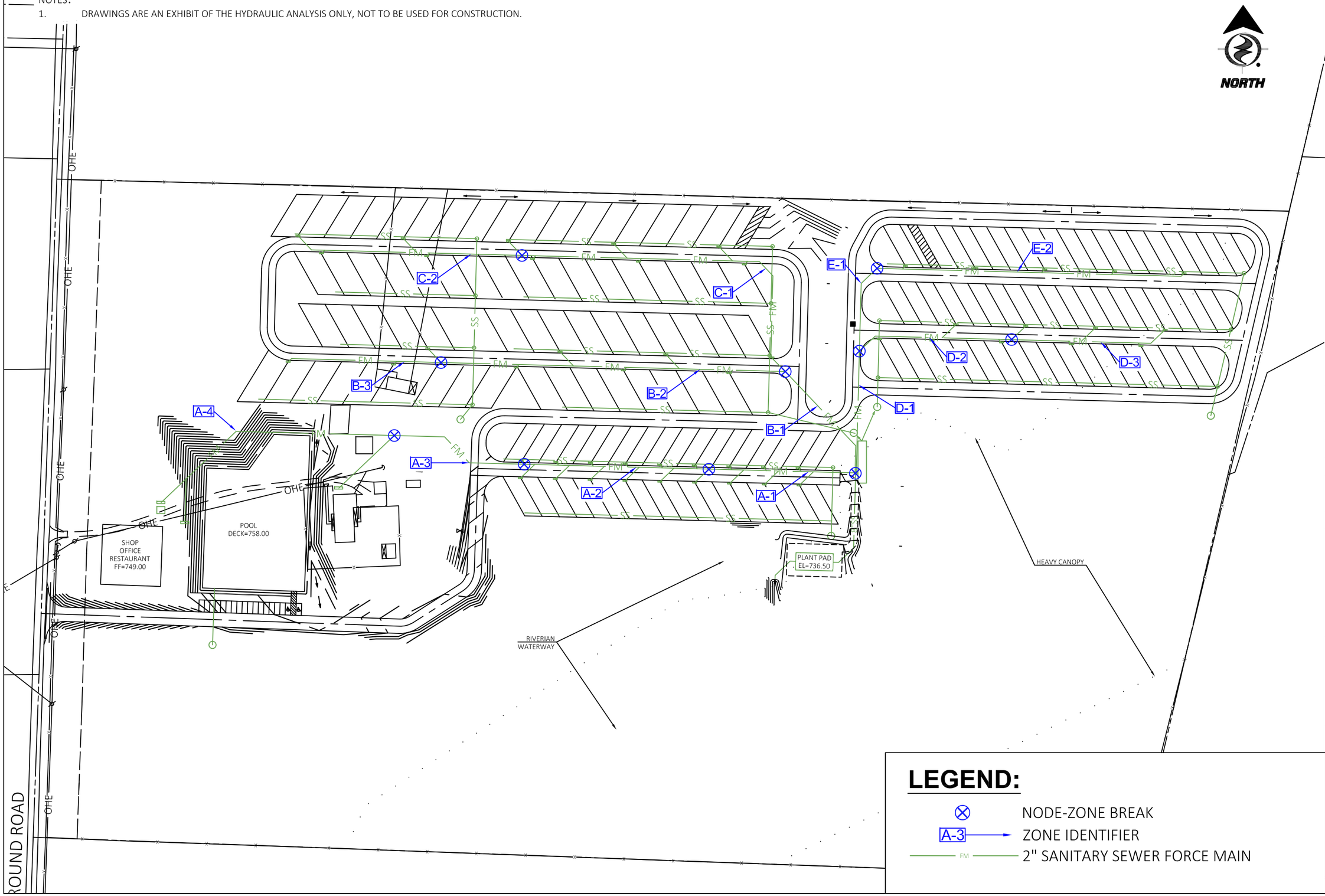

PUMP PERFORMANCE CURVE
5030 1/2 HP, 7-stage, 11 GPM
1 1/4" NPT DISCHARGE
1/2 HP- 7 STAGE
TOTAL DYNAMIC HEAD
METERS
FEET
80
72
64
56
48
40
32
24
16
8
0
280
240
200
160
120
80
40
2
4
6
8
10
12
14
16
18
GALLONS
LITERS
0
8
16
24
32
40
48
56
64
FLOW PER MINUTE

Campaholics Resorts Pressure Sewer Zone Map

ZOELLER®
PUMP COMPANY

NOTES:

1. DRAWINGS ARE AN EXHIBIT OF THE HYDRAULIC ANALYSIS ONLY, NOT TO BE USED FOR CONSTRUCTION.



LEGEND:

- ⊗ NODE-ZONE BREAK
- A-3 → ZONE IDENTIFIER
- FM 2" SANITARY SEWER FORCE MAIN

ZOELLER

REV	DATE	DESCRIPTION
0	01.31.24	

PROJECT INFORMATION:

CAMPAHOLICS RESORTS

738 CAMPGROUN RD
TOM BEAN, TX

ZOELLER JOB NUMBER: 24-017

DRAWINGS FROM: CEI ENGINEERING ASSOCIATES
MODIFIED BY: MK
CHECKED BY: INITIALS
DATE: 01.31.24

SHEET TITLE

ZONING

SHEET NUMBER

01

Campaholics Resorts Pressure Sewer
Force Main Analysis

ZOELLER®
PUMP COMPANY

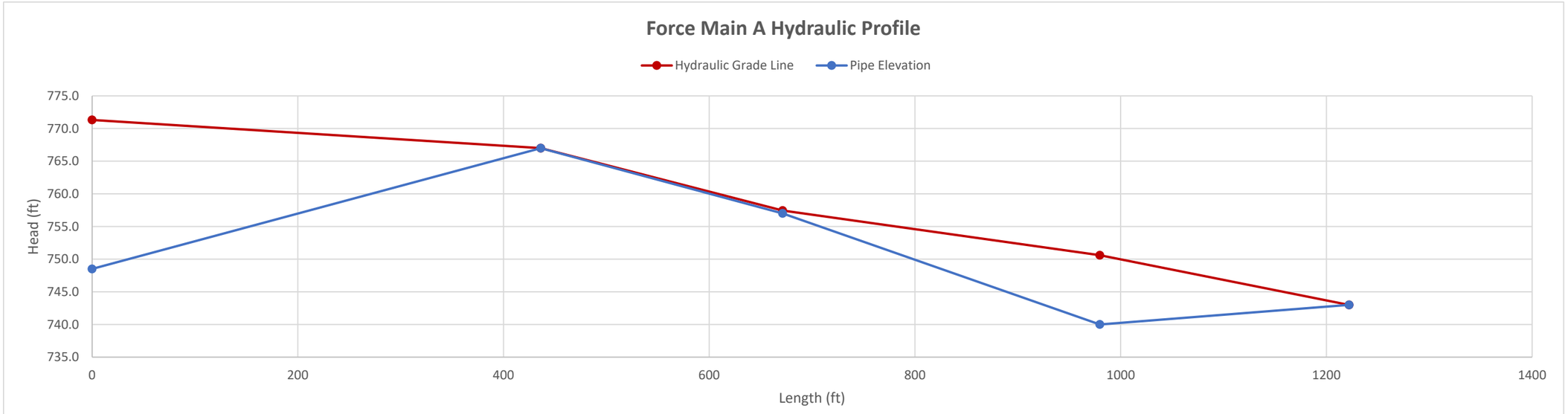
LINE LIST					
LINE NUMBER	**NOMINAL DIAMETER (IN)**	**EDUs Added**	**Cumulative EDUs**	**LENGTH (FT)**	**UPSTREAM ELEVATION (FT)**
A-1	2	7	21	242.3	740
A-2	2	11	14	308.4	757
A-3	2	1	3	235.2	767
A-4	2	2	2	436.2	748.5
B-1	2	0	19	214.2	748
B-2	2	6	8	574.1	767
B-3	2	2	2	249.3	750
C-1	2	7	11	598.2	768
C-2	2	4	4	351.0	755
D-1	2	0	14	201.5	753
D-2	2	5	9	263.7	758
D-3	2	4	4	232.1	757
E-1	2	0	5	149.4	761
E-2	2	5	5	506.9	763

Outfall Elevation	743
Discharge Head	0
Pump	5030
Shutoff	240
C	140
Pipe Material	PVC SCH 40
A=	1.0
B=	20
Lateral Losses (ft)	20

PVC SCH 40			
Nominal Pipe Size	**OD**	**Min Wall Thickness (t)**	**ID**
1	1.315	0.133	1.049
1.25	1.660	0.140	1.380
1.5	1.900	0.145	1.610
2	2.375	0.154	2.067
3	3.500	0.216	3.068
4	4.500	0.237	4.026
6	6.625	0.280	6.065
According to ASTM D2241. ID calculated as: ID=OD-2t			

Outfall Elevation	743	**Rational Method (Q=AN+B)**	
Discharge Head	0	**A=**	1.0 — 0.5 is typical, higher is more conservative for I/I and other concerns, lower is less conservative
Pump	5030	**N=**	# of EDUS — Total number of EDUs contributing to that section of the force main
Shutoff	240	**B=**	20 — 20 is typical, not to exceed max flow of single pump
C	140	**Lateral Losses (ft)**	20
Pipe Material	PVC SCH 40		
Number of Zones	Four		

Zone Number	EDUs Added	Cumulative EDUs	Design Flow (gpm)	Length (ft)	Cumulative Length (ft)	Nominal Diameter (in)	Inside Diameter (in)	Pipe Area (sq in)	Velocity (ft/s)	Headloss (ft)	Cummulative Headloss (ft)	Upstream Elevation (ft)	Downstream Elevation (ft)	Static Head (ft)	HGL (ft)	TDH (ft)
A-1	7	21	41	242.3359	1222.1047	2	2.067	3.36	3.92	7.60	7.60	740.00	743.00	3.00	743.0	10.60
A-2	11	14	34	308.3958	979.7688	2	2.067	3.36	3.25	6.84	14.44	757.00	740.00	-14.00	750.6	0.44
A-3	1	3	23	235.2134	671.373	2	2.067	3.36	2.20	2.53	16.97	767.00	757.00	-24.00	757.4	0.00
A-4	2	2	22	436.1596	436.1596	2	2.067	3.36	2.10	4.32	21.29	748.50	767.00	-5.50	767.0	22.82
					0								748.50		771.3	

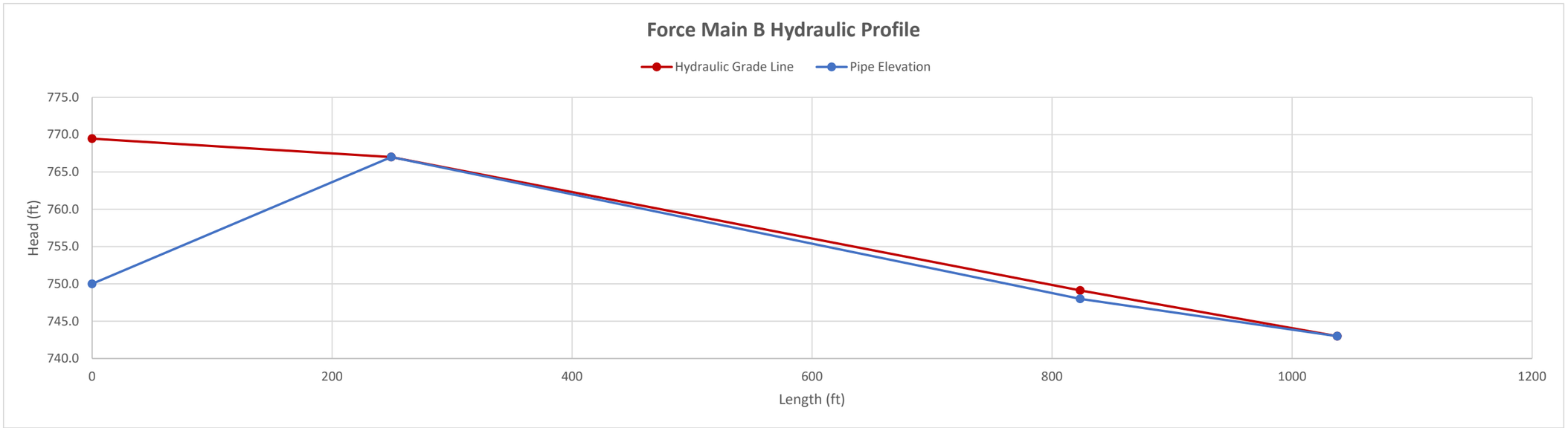


Outfall Elevation	743
Discharge Head	0
Pump	5030
Shutoff	240
C	140
Pipe Material	PVC SCH 40
Number of Zones	Three

Rational Method (Q=AN+B)

A=	1.0	0.5 is typical, higher is more conservative for I/I and other concerns, lower is less conservative
N=	# of EDUS	Total number of EDUs contributing to that section of the force main
B=	20	20 is typical, not to exceed max flow of single pump
Lateral Losses (ft)	20	

Zone Number	EDUs Added	Cumulative EDUs	Design Flow (gpm)	Length (ft)	Cumulative Length (ft)	Nominal Diameter (in)	Inside Diameter (in)	Pipe Area (sq in)	Velocity (ft/s)	Headloss (ft)	Cummulative Headloss (ft)	Upstream Elevation (ft)	Downstream Elevation (ft)	Static Head (ft)	HGL (ft)	TDH (ft)
B-1	0	19	39	214.238	1037.638	2	2.067	3.36	3.73	6.12	6.12	748.00	743.00	-5.00	743.0	1.12
B-2	6	8	28	574.1	823.4	2	2.067	3.36	2.68	8.89	15.01	767.00	748.00	-24.00	749.1	0.00
B-3	2	2	22	249.3	249.3	2	2.067	3.36	2.10	2.47	17.48	750.00	767.00	-7.00	767.0	19.47
					0								750.00		769.5	

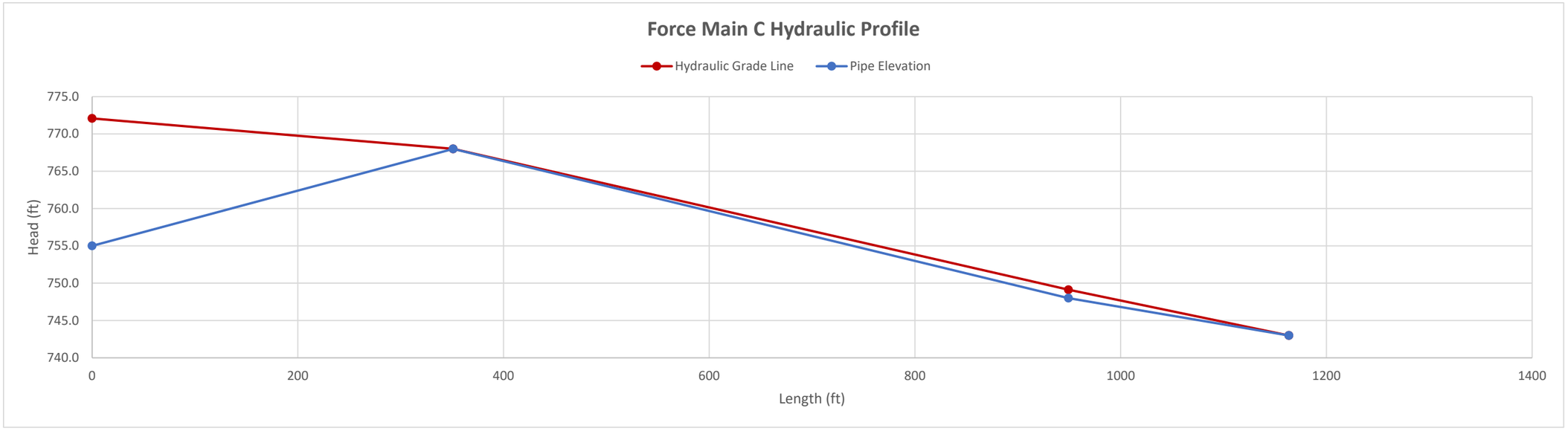


Outfall Elevation	743
Discharge Head	0
Pump	5030
Shutoff	240
C	140
Pipe Material	PVC SCH 40
Number of Zones	Three

Rational Method (Q=AN+B)

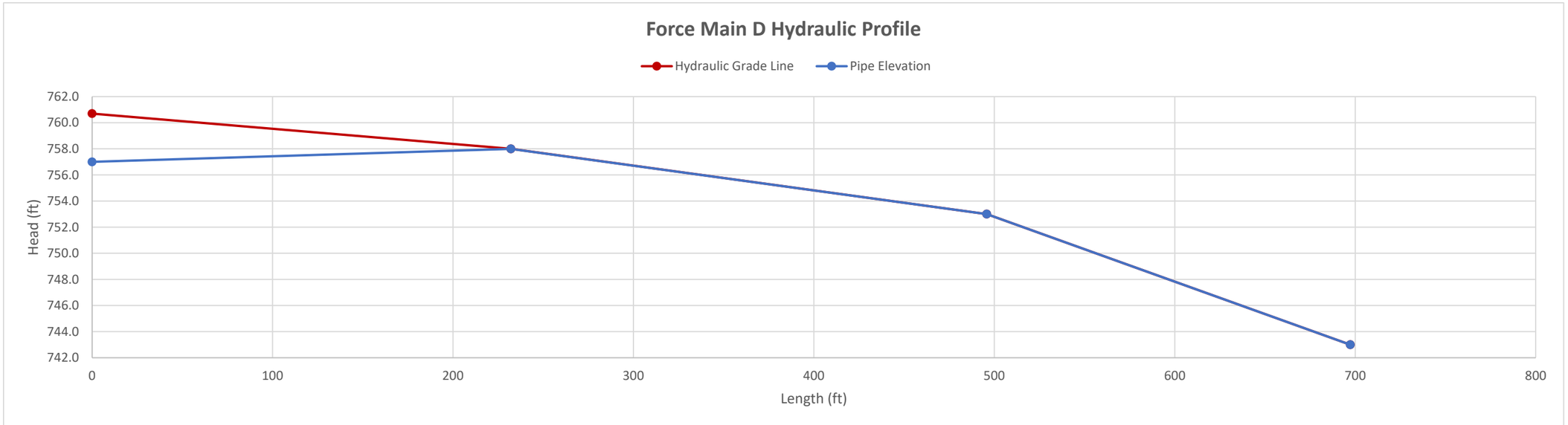
A=	1.0	0.5 is typical, higher is more conservative for I/I and other concerns, lower is less conservative
N=	# of EDUS	Total number of EDUs contributing to that section of the force main
B=	20	20 is typical, not to exceed max flow of single pump
Lateral Losses (ft)	20	

Zone Number	EDUs Added	Cumulative EDUs	Design Flow (gpm)	Length (ft)	Cumulative Length (ft)	Nominal Diameter (in)	Inside Diameter (in)	Pipe Area (sq in)	Velocity (ft/s)	Headloss (ft)	Cummulative Headloss (ft)	Upstream Elevation (ft)	Downstream Elevation (ft)	Static Head (ft)	HGL (ft)	TDH (ft)
B-1	0	19	39	214.238	1163.5078	2	2.067	3.36	3.73	6.12	6.12	748.00	743.00	-5.00	743.0	1.12
C-1	7	11	31	598.2393	949.2698	2	2.067	3.36	2.96	11.18	17.31	768.00	748.00	-25.00	749.1	0.00
C-2	4	4	24	351.0305	351.0305	2	2.067	3.36	2.29	4.09	21.39	755.00	768.00	-12.00	768.0	17.09
					0								755.00		772.1	



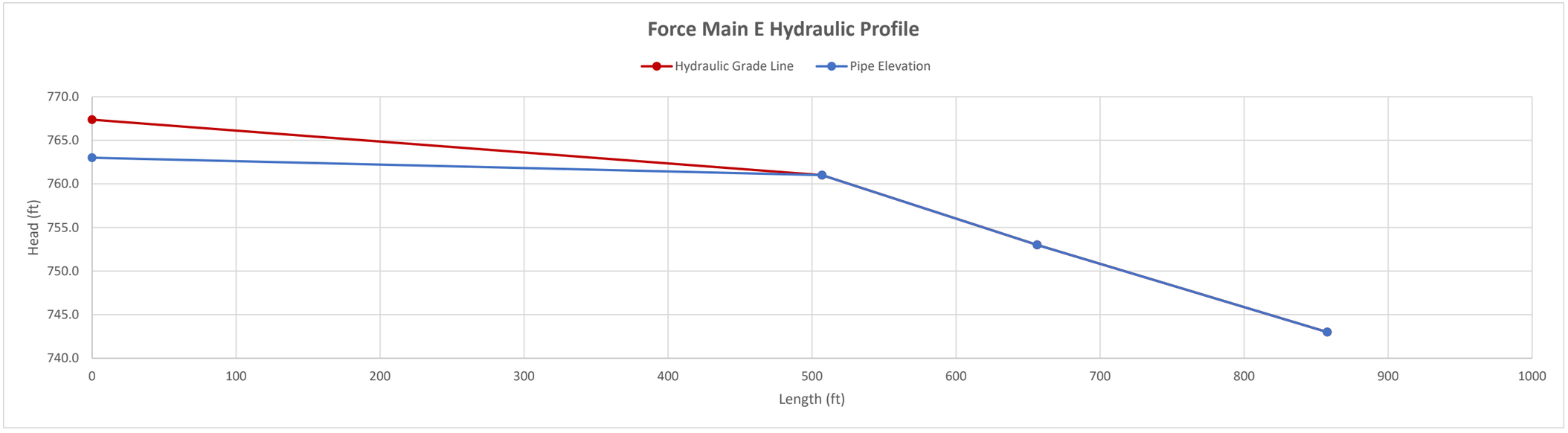
Outfall Elevation	743	**Rational Method (Q=AN+B)**		
Discharge Head	0	**A=**	1.0	0.5 is typical, higher is more conservative for I/I and other concerns, lower is less conservative
Pump	5030	**N=**	# of EDUS	Total number of EDUs contributing to that section of the force main
Shutoff	240	**B=**	20	20 is typical, not to exceed max flow of single pump
C	140	**Lateral Losses (ft)**	20	
Pipe Material	PVC SCH 40			
Number of Zones	Three			

Zone Number	EDUs Added	Cumulative EDUs	Design Flow (gpm)	Length (ft)	Cumulative Length (ft)	Nominal Diameter (in)	Inside Diameter (in)	Pipe Area (sq in)	Velocity (ft/s)	Headloss (ft)	Cummulative Headloss (ft)	Upstream Elevation (ft)	Downstream Elevation (ft)	Static Head (ft)	HGL (ft)	TDH (ft)
D-1	0	14	34	201.4886	697.2992	2	2.067	3.36	3.25	4.47	4.47	753.00	743.00	-10.00	743.0	0.00
D-2	5	9	29	263.7336	495.8106	2	2.067	3.36	2.77	4.36	8.83	758.00	753.00	-15.00	753.0	0.00
D-3	4	4	24	232.077	232.077	2	2.067	3.36	2.29	2.70	11.53	757.00	758.00	-14.00	758.0	3.70
					0								757.00		760.7	



Outfall Elevation	743	**Rational Method (Q=AN+B)**	
Discharge Head	0	**A=**	1.0 — 0.5 is typical, higher is more conservative for I/I and other concerns, lower is less conservative
Pump	5030	**N=**	# of EDUS — Total number of EDUs contributing to that section of the force main
Shutoff	240	**B=**	20 — 20 is typical, not to exceed max flow of single pump
C	140	**Lateral Losses (ft)**	20
Pipe Material	PVC SCH 40		
Number of Zones	Three		

Zone Number	EDUs Added	Cumulative EDUs	Design Flow (gpm)	Length (ft)	Cumulative Length (ft)	Nominal Diameter (in)	Inside Diameter (in)	Pipe Area (sq in)	Velocity (ft/s)	Headloss (ft)	Cummulative Headloss (ft)	Upstream Elevation (ft)	Downstream Elevation (ft)	Static Head (ft)	HGL (ft)	TDH (ft)
D-1	0	14	34	201.4886	857.8079	2	2.067	3.36	3.25	4.47	4.47	753.00	743.00	-10.00	743.0	0.00
E-1	0	5	25	149.4037	656.3193	2	2.067	3.36	2.39	1.88	6.34	761.00	753.00	-18.00	753.0	0.00
E-2	5	5	25	506.9156	506.9156	2	2.067	3.36	2.39	6.36	12.71	763.00	761.00	-20.00	761.0	4.36
					0								763.00		767.4	



Attachment 8

NORTEX SEPTIC SERVICE

Reliable & Professional Service

February 14, 2024

Campaholics
738 Campground Rd
Sherman, TX 75090

Pumping Contract

Nortex Septic Service, Inc. (TCEQ # 25282) will provide septic clean out services to Campaholics located at the above-mentioned address annually. If clean out services are needed prior to our annual agreement, we will provide them with services as well. Campaholics facility includes 54-800 gallon STEP systems and one 1500 gallon STEP system. The waste removed from Campaholics will be delivered to Clay Copeland Enterprises (Facility # 710324). This service will be provided at a cost of $1000.00 per 4000 gallons removed with a separate payment being owed directly to Clay Copeland Enterprises for the disposal fee at a rate of .04 per gallon removed.

If you have any questions regarding this contract, please contact us at 469-307-3787.

_____ _____

Austin Karnes Date

_____ _____

Raymond Harris Date

511 N Church St Anna, TX 75409
469-307-3787
www.nortexseptic.com

Attachment 12

RN111798070 Design Calculations per Form 10054 DTR 1.1 section 4

Interim Phase 1:

Influent Parameters – The design flow of the facility and organic loading have been calculated in the following spreadsheet:

Source	Unit	Design Flov	Number of	Source Tota	lbs BOD/un	lbs BOD tot	Concentrat
RV with wa	Per Site	50	110	5500	0.48	52.8	1151
Cabins	Bed	50	63	3150	0.12	7.56	287
Restaurant	Meal	10	70	700	0.07	4.9	839
House	Person	75	6	450	0.2	1.2	319
Staff	Person	20	14	280	0.06	0.84	359
		Estimated Design Flow		10080			
		Permitted Design Flow		15120			
		Estimated Design Flow		0.01008	Total Organic Concentr		800

Table 1 Concentrations calculated from organic load table taken from Alabama onsite wastewater guidance table 7.2

For treatment system design the following further assumptions were made:

- TSS was assumed to equal BOD
- TKN was assumed to be 140 mg/L to ensure nutrient reduction.
- A multiplier of 1.5 was added per TAC 30.B chapter 217.32(a)(1)(A).
- Inflow in infiltration were not considered in the design flow due to the use of a sealed, low-pressure sewer system – STEP.

Process Design – The treatment facility will produce an effluent quality of:

$CBOD_5$ = 20 mg/L; TSS = 20 mg/L; NH_3-N = 3 mg/L[1]; DO = 5.0; E. coli = 630 cfu/100ml

Organics, nutrient, and contaminant mitigation will be achieved by means of a three-chambered MBBR (Moving Bed Biofilm Reactor) equipped with one submerged 114.4 cfm blower providing mixing and aeration via fine-bubble and medium-bubble diffusers. Chamber 1 and 2 of the MBBR will contain floating plastic media with a biofilm contact area of 4000 M^2 per every 1 M^3 of wastewater. Settled influent will be dosed via duplex equalization pump over an 18-hour daily dosing cycle after primary treatment in STEP tanks and 12,500 gallon digestion tank. Settled influent concentration entering the MBBR is assumed to be 560 mg/L BOD_5; 280 mg/L TSS; 140 mg/L TKN. Total organics reduction will be 97.5%.

[1] Biological nitrogen mitigation achieved via ANNAMOX produces steady reduction in nitrogen to specified target level after 365 day commissioning period.

Treatment Units –

Preliminary Treatment	**TCEQ Requires**	**Actual Provided**
STEP System	Fine screen <.25 inch	1/16” in fine screen
Flow Equalization Basin	Variable-speed or multiple pumps	Duplex effluent pump
		Flow of 14.09 gpm over 18 hour daily dosing period
Secondary and Tertiary Treatment		
Multi-chambered MBBR (moving bed biofilm reactor)	Non-conforming	
Floating Media in chamber 1 and 2		4000 M^2 per M^3
Fixed Polishing Biofilm Media in chamber 3		200 M^2 per M^3
Air Requirement		114.4 cfm
UV Disinfection Unit	Two banks in series	Two banks in series
	4 lamps per reactor	4 lamps per reactor
	254 nm wavelength	253.7 nm wavelength

Facility Design Features

A. Emergency Power Requirements

According to the 60 month signed outage report from Grayson Collin Electric Cooperative (attached “Outage History Signed”) the longest duration outage was 7 hours and 49 minutes reported on October 28th, 2021. In the event of an outage, wastewater flow to the wastewater treatment works will cease since the effluent pumps in the STEP system will become inoperative. Each STEP tank will be sized with 3 days reserve capacity to allow for unabated discharge until power is resumed.

Negligible residual wastewater inflow via gravity will be retained in one, 17,500 gallon digestion settling tank. Equalization pumps will be instantly inoperative ceasing influent flow into the treatment reactor.

A portable backup generator will be employed to maintain the biology in the MBBR reactors after 2 days’ outage. The backup generator will provide sufficient power for the following units:

- 2 - duplex equalization pumps
- 2 - 114.4 cfm blowers
- 2 - 21 gpm UV disinfection units
- All panels and controls

B. Alarm features

Audio visual alarms will be provided with every STEP system to indicate high level conditions.

The UV system will continuously monitor and display the following information on the control panel:

(1) the flow rate in each disinfection channel;

(2) the relative intensity of the lamps in one bank of a disinfection channel;

(3) the operational status and condition of each bank;

(4) the on or off status of each lamp in the system;

(5) the number of operating hours of the lamps in each bank in the system;

(6) the total number of hours of operation for each bank in the system; and

(7) the transmissivity of UV light in the disinfection channel.

The wastewater treatment system will be equipped with a Supervisory Control and Data Acquisition (SCADA) system with a battery back up which will include an auto dialer to alert the operator of the following conditions:

- Power outage
- Equipment (pump or blower) failure
- High water level alarm
- The following UV system conditions:
    - A minor alarm to activate if:
        - The UV intensity of the system is less than 45%
        - There is a lamp outage
    - A major alarm will activate if:
        - The UV intensity of the system is less than 25%
        - More than 10% of the lamps fail
        - There is a loss of flow signal upon failure of a bank to energize
        - There is an outage of any module or bank
        - The transmissivity falls below 55%

C. Overflow prevention

The following features will prevent overflow of wastewater from treatment units:

- As an operator of MBBR treatment units using STEP collection for twenty years Aqua Tech can attest to their reliability and effectiveness.
- STEP systems prevent overflow by provide redundant wastewater storage and equalization. Every STEP tank is sized to over 3 times the daily design capacity for the wastewater application. The ½ hp Zoeller pumps pause their discharge when the force main is pressurized to 240’ of head resulting equalized flow to the wastewater treatment works.
- STEP systems virtually eliminate inflow and infiltration since they are nearly watertight.
- The system is designed with redundant influent storage sized at 116% of the design flow.
- With 100% pressurized influent delivery, a power outage precludes the discharge of untreated waste.

Final Phase 2:

Influent Parameters – The design flow of the facility and organic loading have been calculated in the following spreadsheet:

Source	Unit	Design Flov	Number of	Source Tota	lbs BOD/un	lbs BOD tot	Concentrat	C1
RV with wa	Per Site	50	115	5750	0.48	55.2	1151	9600
Cabins	Bed	50	85	4250	0.12	10.2	287	2400
Restaurant	Meal	10	8	80	0.07	0.56	839	7000
		Estimated Design Flow		10080				
		Permitted Design Flow		15120				Total Desig
		Estimated Design Flow		0.01008	Total Organic Concentr		784	

For treatment system design the following further assumptions were made:

- TSS was assumed to equal BOD
- Influent BOD concentration was rounded up to 800 mg/L to ensure treatment
- TKN was assumed to be 140 mg/L to ensure nutrient reduction.
- A multiplier of 1.5 was added per TAC 30.B chapter 217.32(a)(1)(A).
- Inflow in infiltration were not considered in the design flow due to the use of a sealed, low-pressure sewer system – STEP.

Process Design – The treatment facility will produce an effluent quality of:

$CBOD_5$ = 20 mg/L; TSS = 20 mg/L; NH_3-N = 3 mg/L[2]; DO = 5.0; E. coli = 630 cfu/100ml

Organics, nutrient, and contaminant mitigation will be achieved by means of a three-chambered MBBR (Moving Bed Biofilm Reactor) equipped with one submerged 114.4 cfm blower providing mixing and aeration via fine-bubble and medium-bubble diffusers. Chamber 1 and 2 of the MBBR will contain floating plastic media with a biofilm contact area of 4000 M^2 per every 1 M^3 of wastewater. Settled influent will be dosed via duplex equalization pump over an 18-hour daily dosing cycle after primary treatment in STEP tanks and 12,500 gallon digestion tank. Settled influent concentration entering the MBBR is assumed to be 560 mg/L BOD_5; 280 mg/L TSS; 140 mg/L TKN. Total organics reduction will be 97.5%.

[2] Biological nitrogen mitigation achieved via ANNAMOX produces steady reduction in nitrogen to specified target level after 365 day commissioning period.

Treatment Units –

Preliminary Treatment	**TCEQ Requires**	**Actual Provided**
STEP System	Fine screen <.25 inch	1/16” in fine screen
Flow Equalization Basin	Variable-speed or multiple pumps	Duplex effluent pump
		Flow of 14.09 gpm over 18 hour daily dosing period
Secondary and Tertiary Treatment		
Multi-chambered MBBR (moving bed biofilm reactor)	Non-conforming	
Floating Media in chamber 1 and 2		4000 M^2 per M^3
Fixed Polishing Biofilm Media in chamber 3		200 M^2 per M^3
Air Requirement		114.4 cfm
UV Disinfection Unit	Two banks in series	Two banks in series
	4 lamps per reactor	4 lamps per reactor
	254 nm wavelength	253.7 nm wavelength

Facility Design Features

D. Emergency Power Requirements

According to the 60-month signed outage report from Grayson Collin Electric Cooperative (attached “Outage History Signed”) the longest duration outage was 7 hours and 49 minutes reported on October 28th, 2021. In the event of an outage, wastewater flow to the wastewater treatment works will cease since the effluent pumps in the STEP system will become inoperative. Each STEP tank will be sized with 3 days reserve capacity to allow for unabated discharge until power is resumed.

Negligible residual wastewater inflow via gravity will be retained in one, 17,500 gallon digestion settling tank. Equalization pumps will be instantly inoperative ceasing influent flow into the treatment reactor.

It is recommended that Bactibio9500 be added to the STEP and settling tanks should an outage continue for longer than 48 hours.

A portable backup generator will be employed to maintain the biology in the MBBR reactors after 48 hours of outage. The following units will be connected to the generator provided to serve Interim Phase 1:

- 1 - duplex equalization pumps
- 1 - 114.4 cfm blowers
- 1 - 21 gpm UV disinfection unit
- All panels and controls

E. Alarm features

Audio visual alarms will be provided with every STEP system to indicate high level conditions.

The UV system will continuously monitor and display the following information on the control panel:

(1) the flow rate in each disinfection channel;

(2) the relative intensity of the lamps in one bank of a disinfection channel;

(3) the operational status and condition of each bank;

(4) the on or off status of each lamp in the system;

(5) the number of operating hours of the lamps in each bank in the system;

(6) the total number of hours of operation for each bank in the system; and

(7) the transmissivity of UV light in the disinfection channel.

The wastewater treatment system will be equipped with a Supervisory Control and Data Acquisition (SCADA) system with a battery backup which will include an auto dialer to alert the operator of the following conditions:

- Power outage
- Equipment (pump or blower) failure
- High water level alarm
- The following UV system conditions:
    - A minor alarm to activate if:
        - The UV intensity of the system is less than 45%
        - There is a lamp outage
    - A major alarm will activate if:
        - The UV intensity of the system is less than 25%
        - More than 10% of the lamps fail
        - There is a loss of flow signal upon failure of a bank to energize
        - There is an outage of any module or bank
        - The transmissivity falls below 55%

F. Overflow prevention

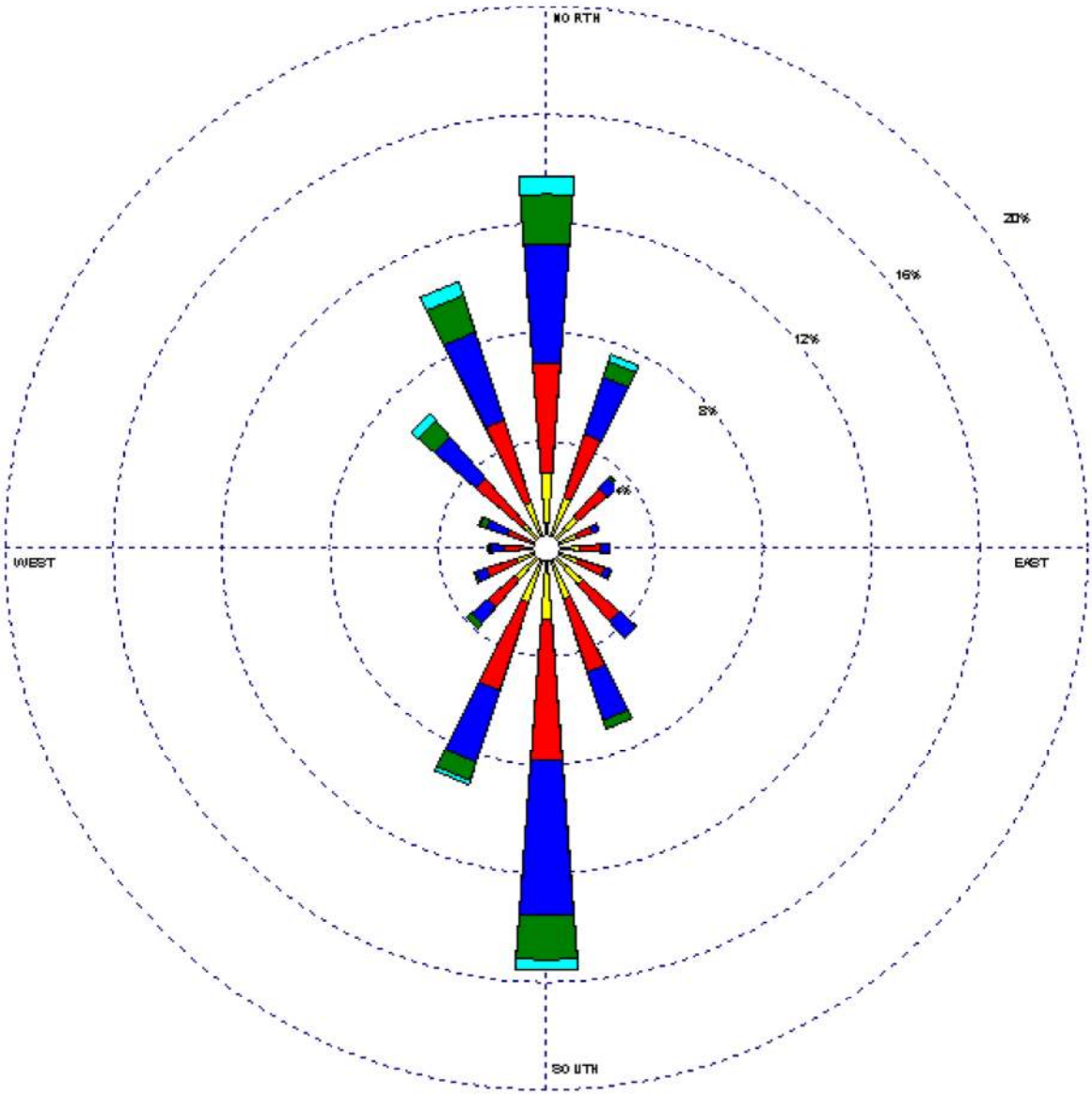
The following features will prevent overflow of wastewater from treatment units:

- As an operator of MBBR treatment units using STEP collection for twenty years Aqua Tech can attest to their reliability and effectiveness.
- STEP systems prevent overflow by provide redundant wastewater storage and equalization. Every STEP tank is sized to over 3 times the daily design capacity for the wastewater application. The ½ hp Zoeller pumps pause their discharge when the force main is pressurized to 240' of head resulting equalized flow to the wastewater treatment works.
- STEP systems virtually eliminate inflow and infiltration since they are nearly watertight.
- The system is designed with redundant influent storage sized at 116%.
- With 100% pressurized influent delivery, a power outage precludes the discharge of untreated waste.

Attachment 13

WIND ROSE PLOT

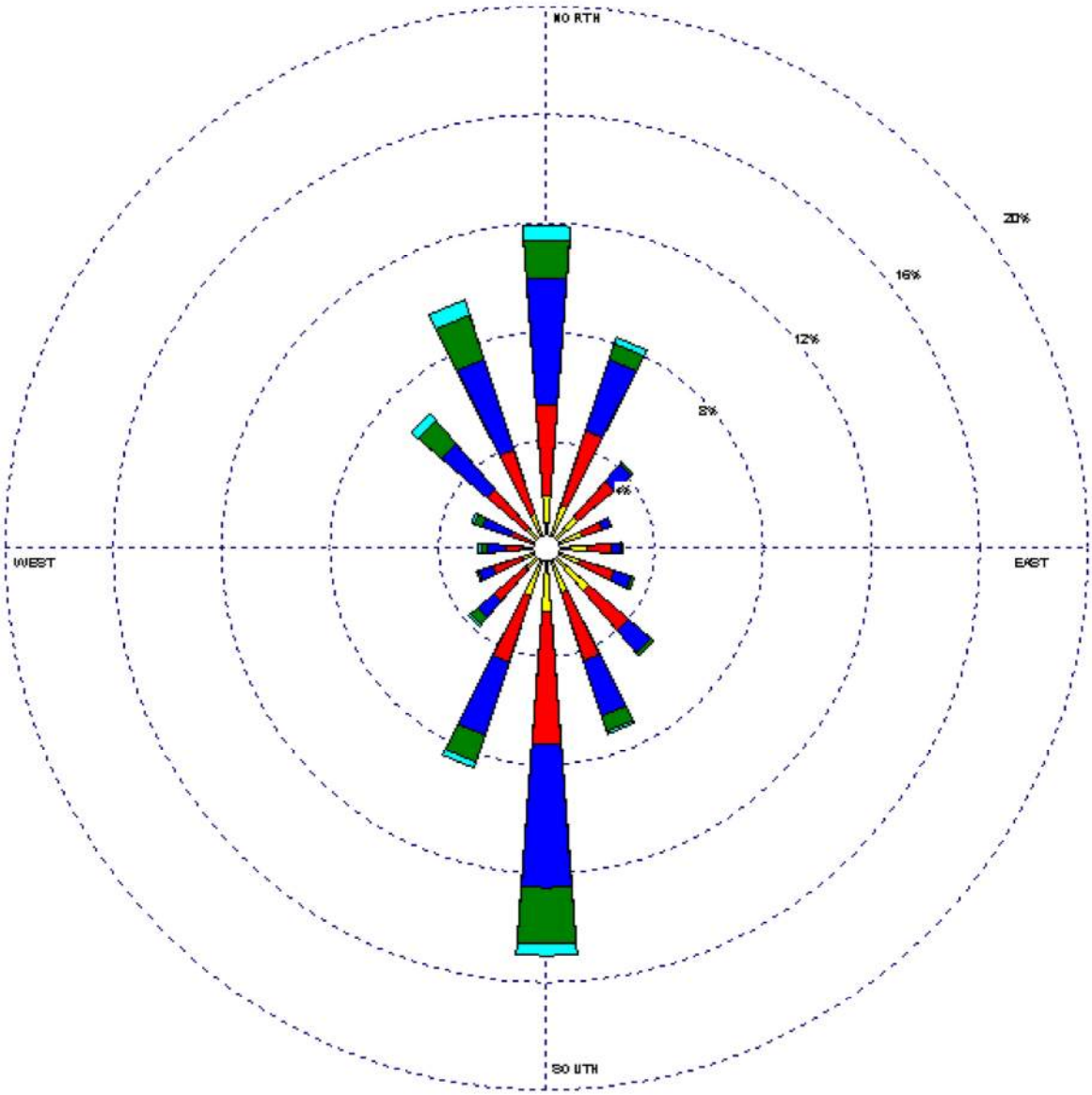
Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.34 - 5.40 1.80 - 3.34 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 5.19 m/s	CALM WINDS 3.50%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 Jan 1 - Jan 31 Midnight - 11 PM	

WIND ROSE PLOT

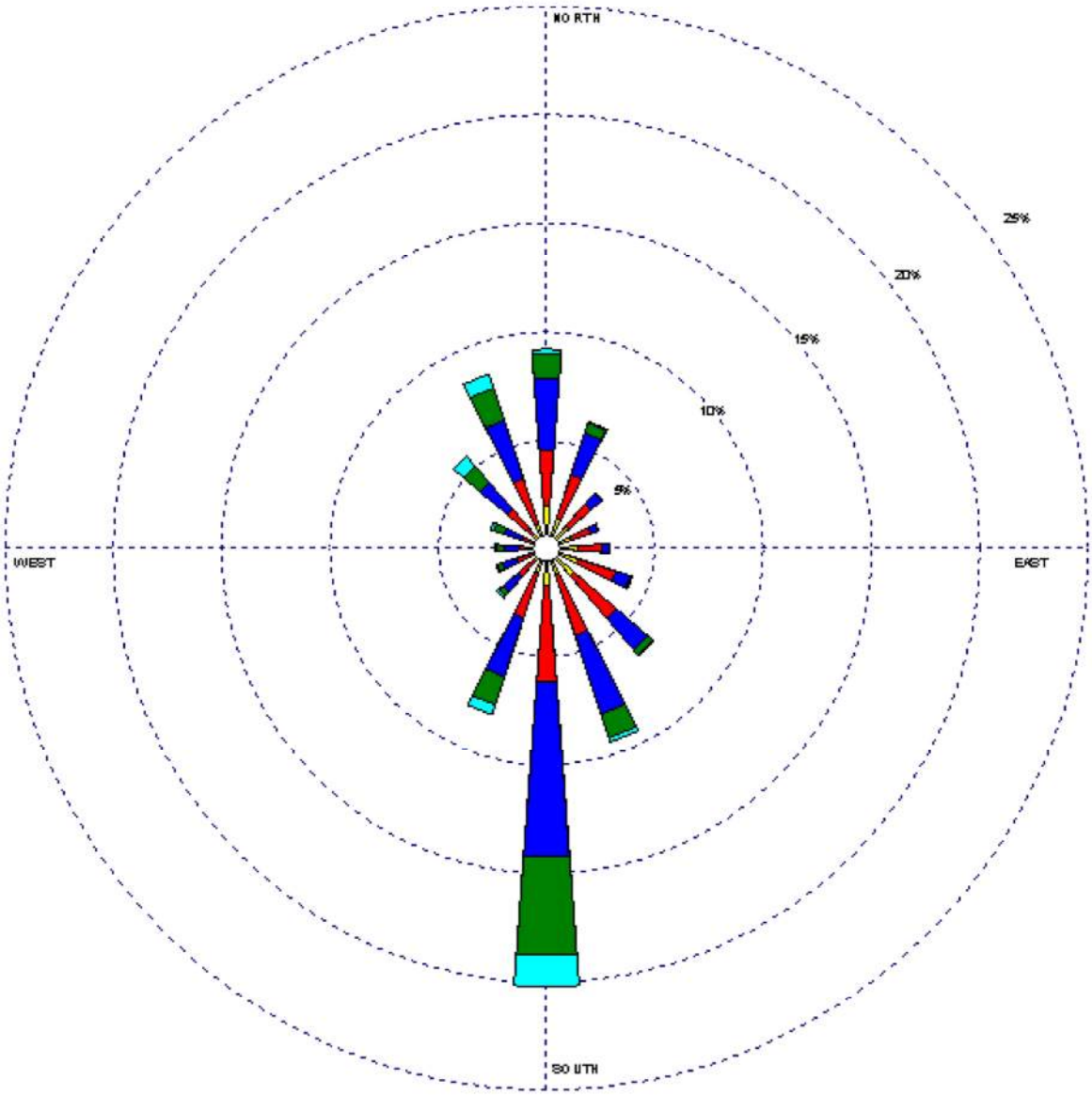
Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.34 - 5.40 1.80 - 3.34 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 5.46 m/s	CALM WINDS 2.61%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 Feb 1 - Feb 29 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



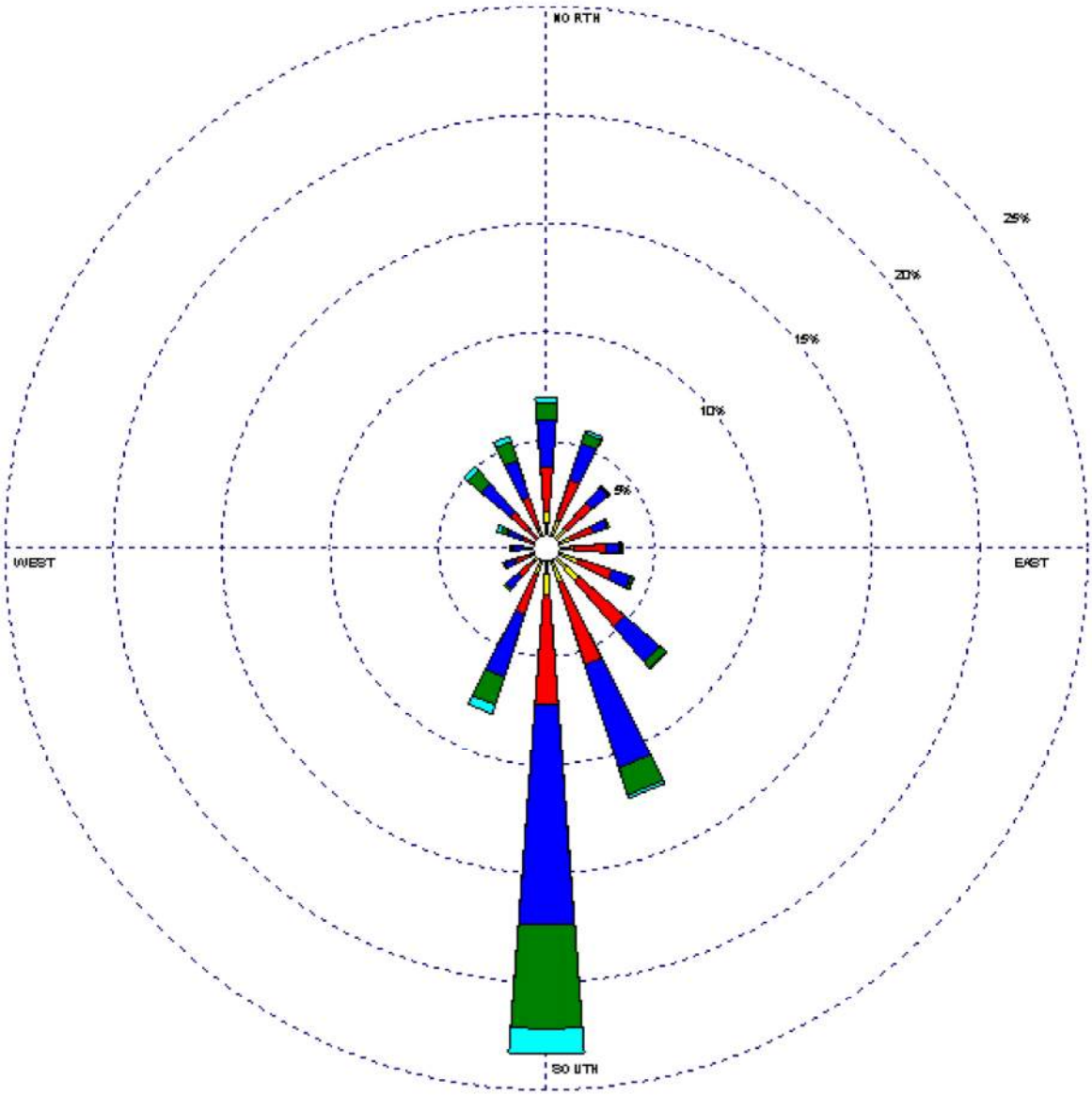
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY: Wind Speed	UNIT: m/s	COMMENTS
AVG. WIND SPEED: 5.87 m/s	CALM WINDS: 2.45%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 1961 Mar 1 - Mar 31 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



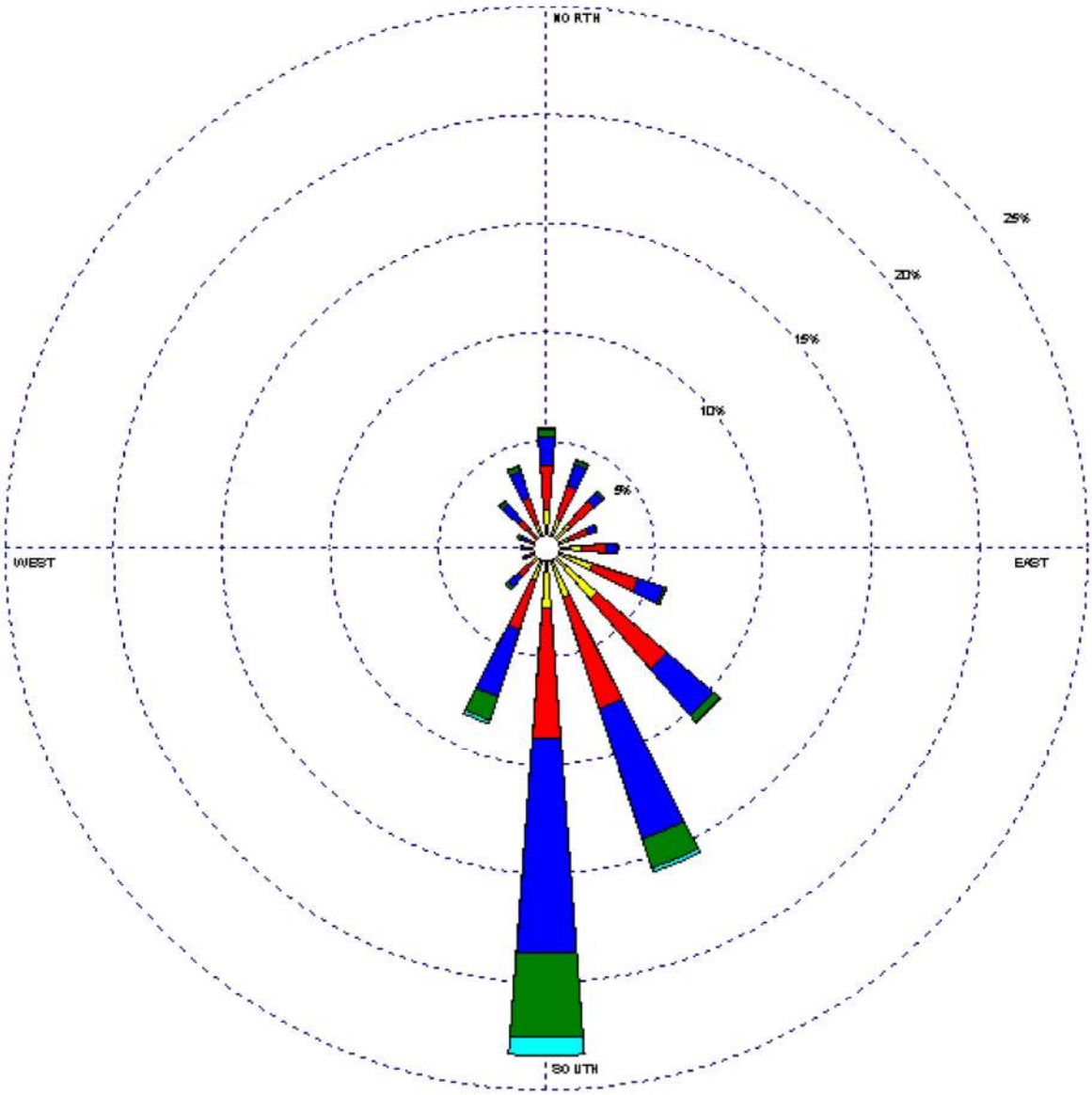
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY: Wind Speed	UNIT: m/s	COMMENTS
AVG. WIND SPEED: 5.76 m/s	CALM WINDS: 2.32%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 1961 Apr 1 - Apr 30 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



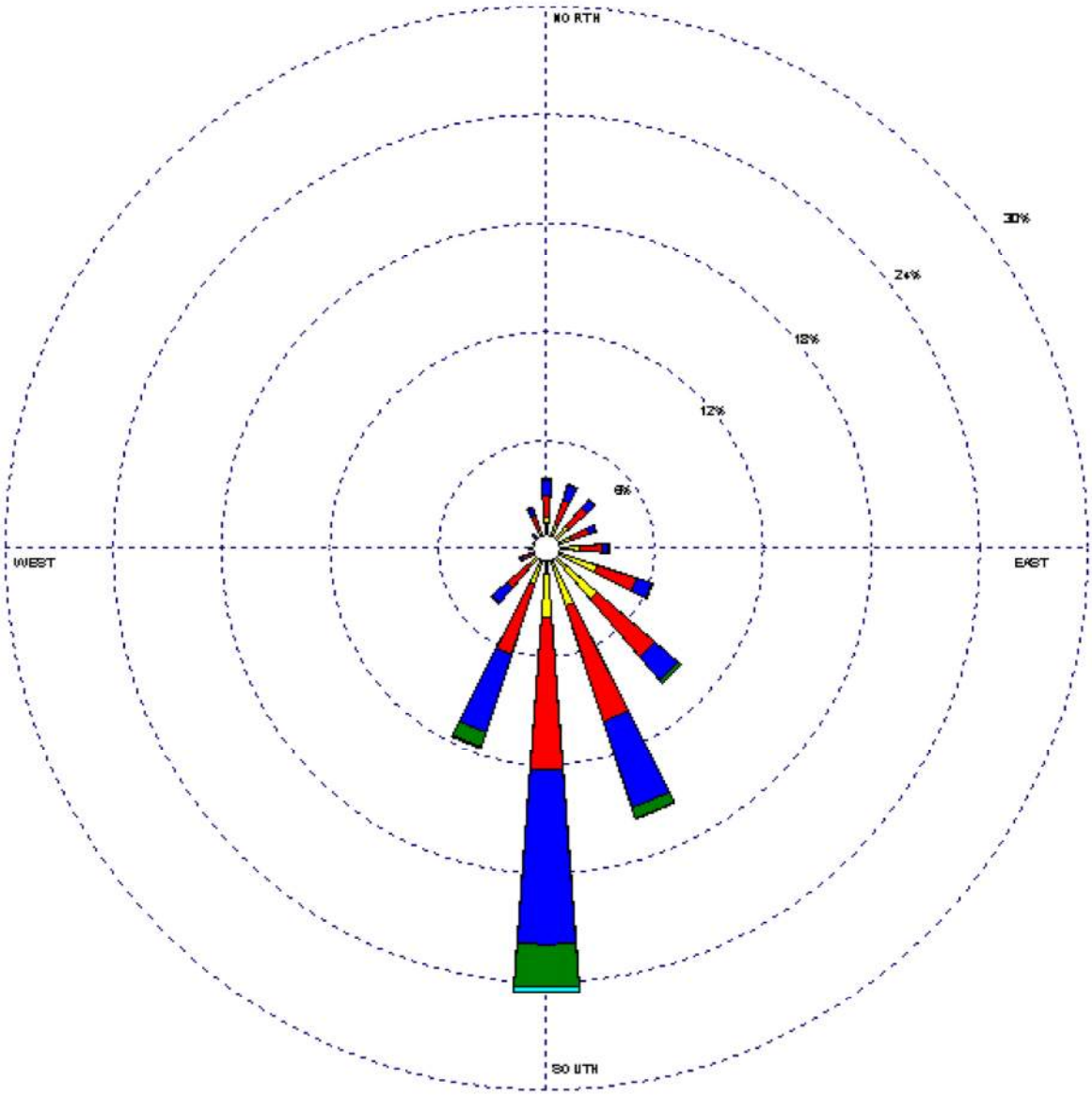
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY	**UNIT**	**COMMENTS**
Wind Speed	m/s	
AVG. WIND SPEED	**CALM WINDS**	
5.28 m/s	3.23%	
ORIENTATION	**PLOT YEAR-DATE-TIME**	
Direction (blowing from)	1961 May 1 - May 31 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



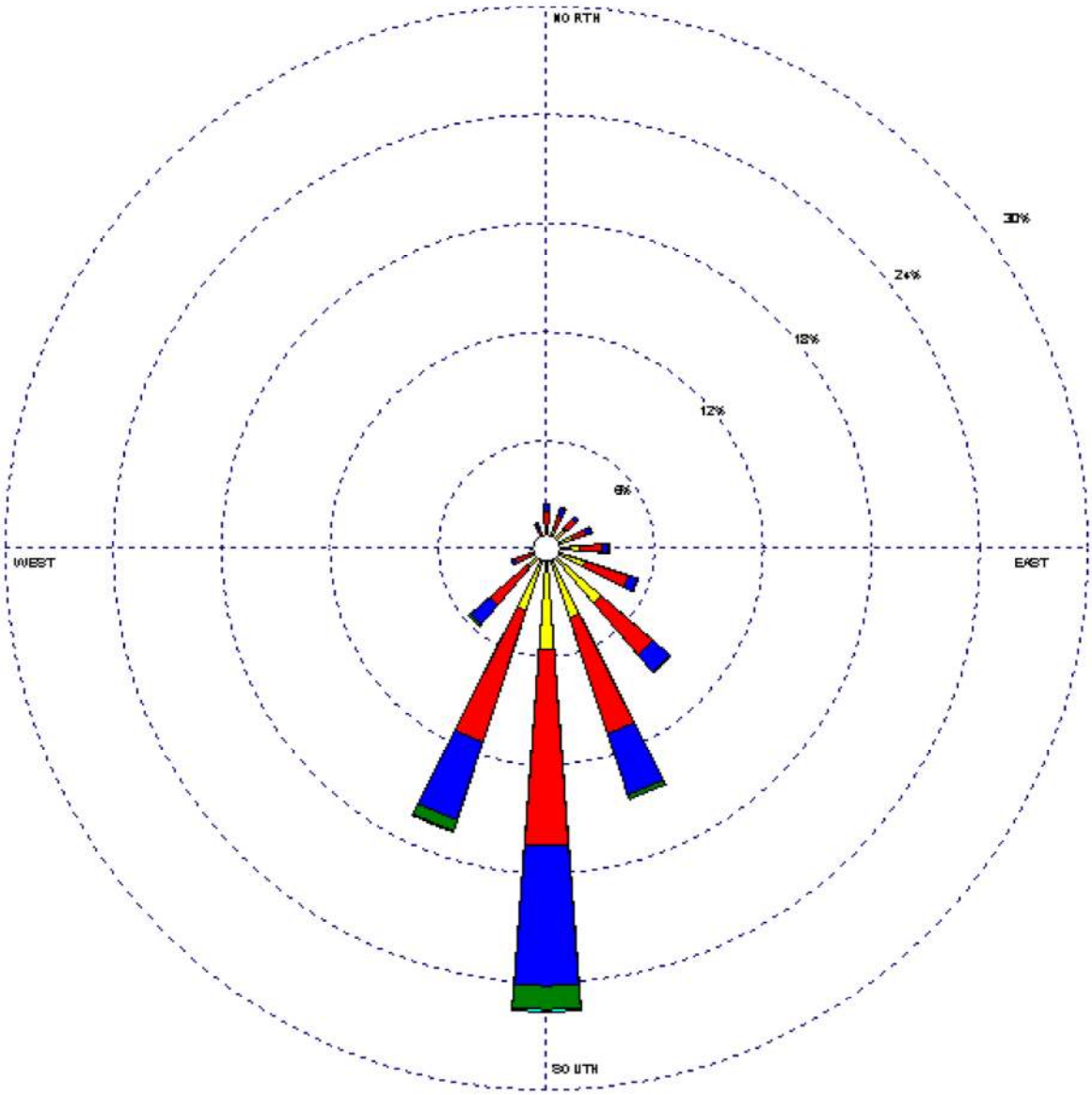
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER Sara West		DATE 8/29/2002	COMPANY NAME USDA-ARS
DISPLAY Wind Speed		UNIT m/s	COMMENTS
AVG. WIND SPEED 4.75 m/s		CALM WINDS 3.20%	
ORIENTATION Direction (blowing from)		PLOT YEAR-DATE-TIME 1961 Jun 1 - Jun 30 Midnight - 11 PM	

WIND ROSE PLOT

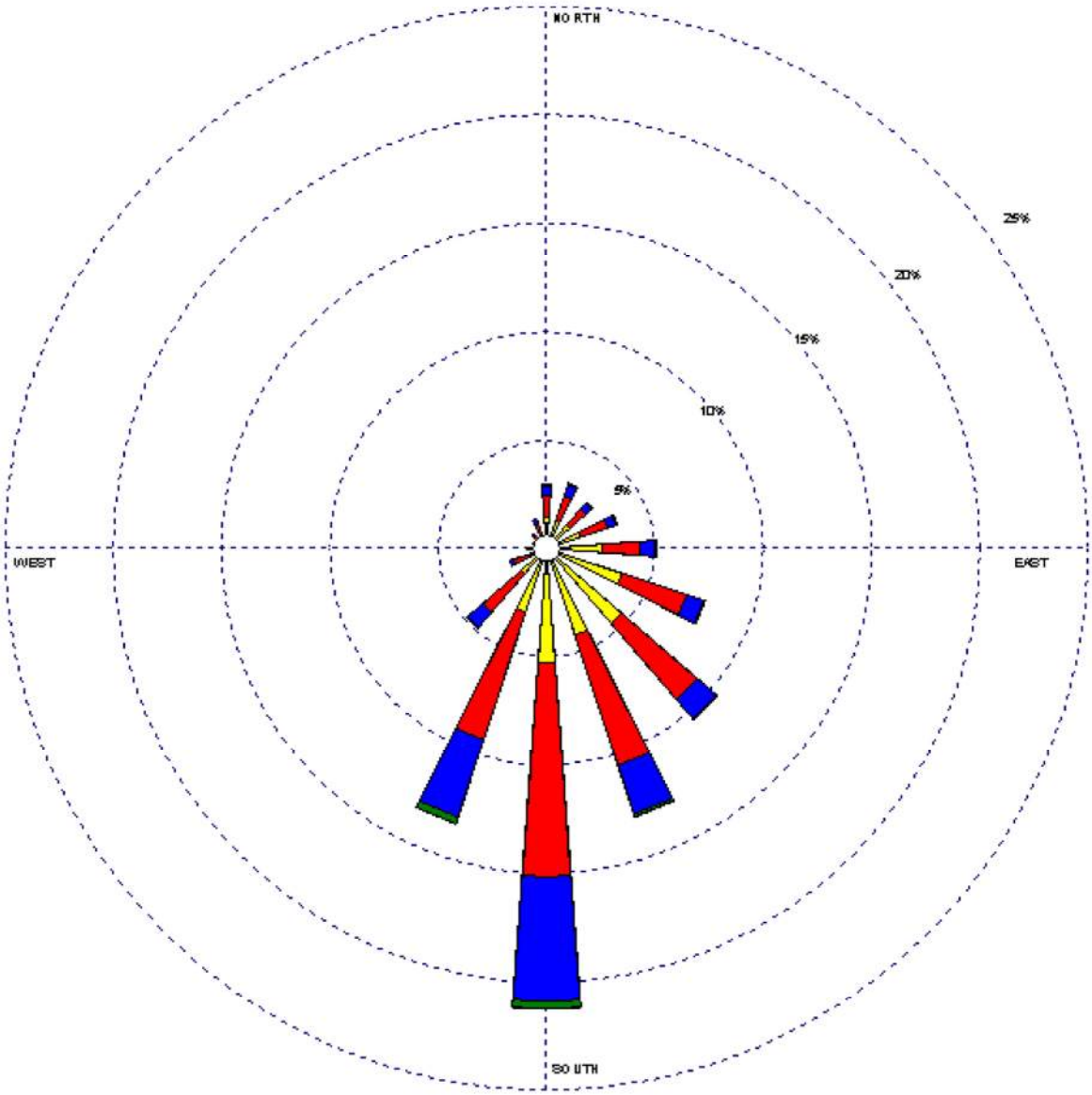
Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.34 - 5.40 1.80 - 3.34 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 4.43 m/s	CALM WINDS 3.92%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 Jul 1 - Jul 31 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



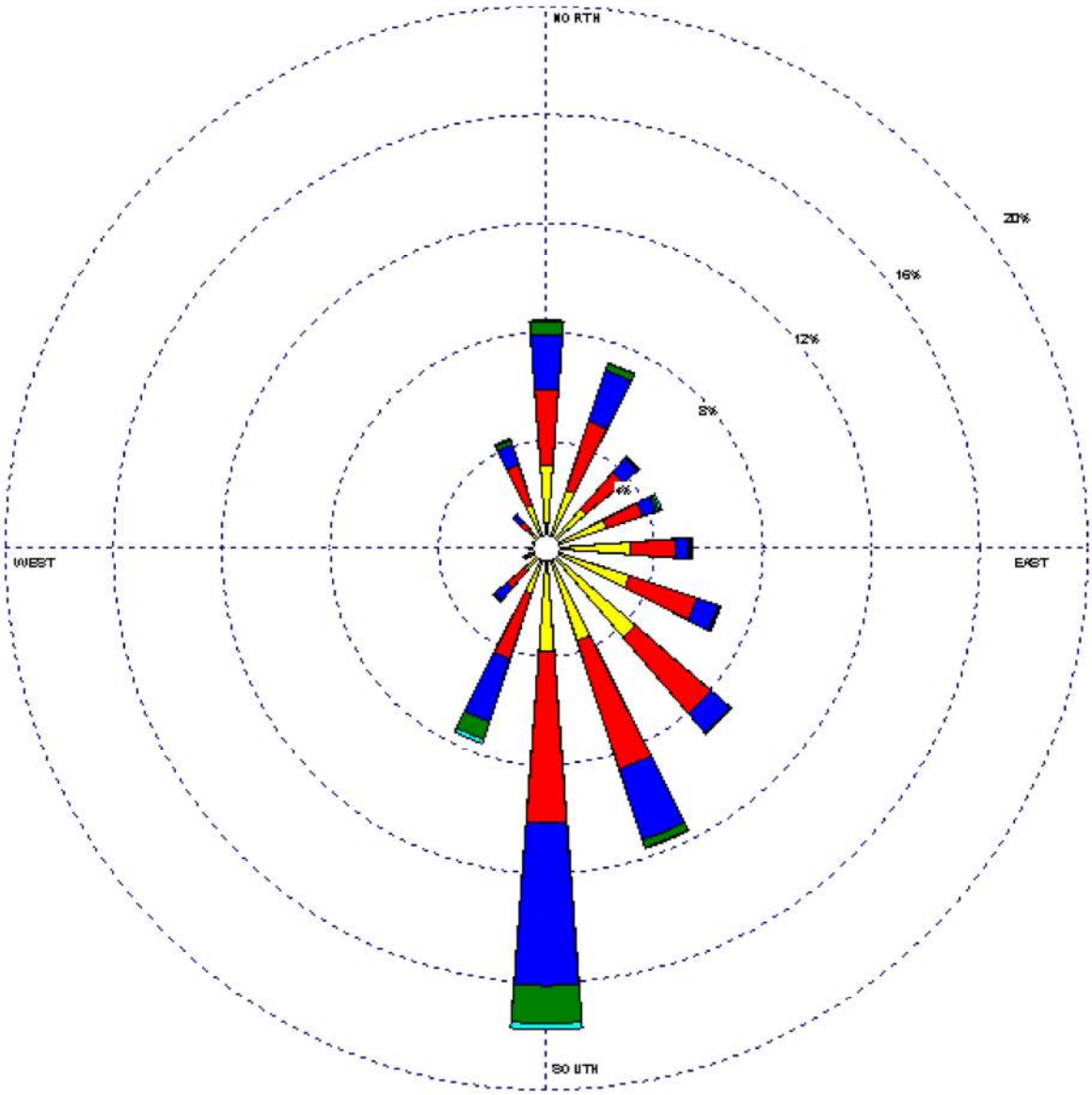
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY: Wind Speed	UNIT: m/s	COMMENTS
AVG. WIND SPEED: 4.17 m/s	CALM WINDS: 5.95%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 1961 Aug 1 - Aug 31 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



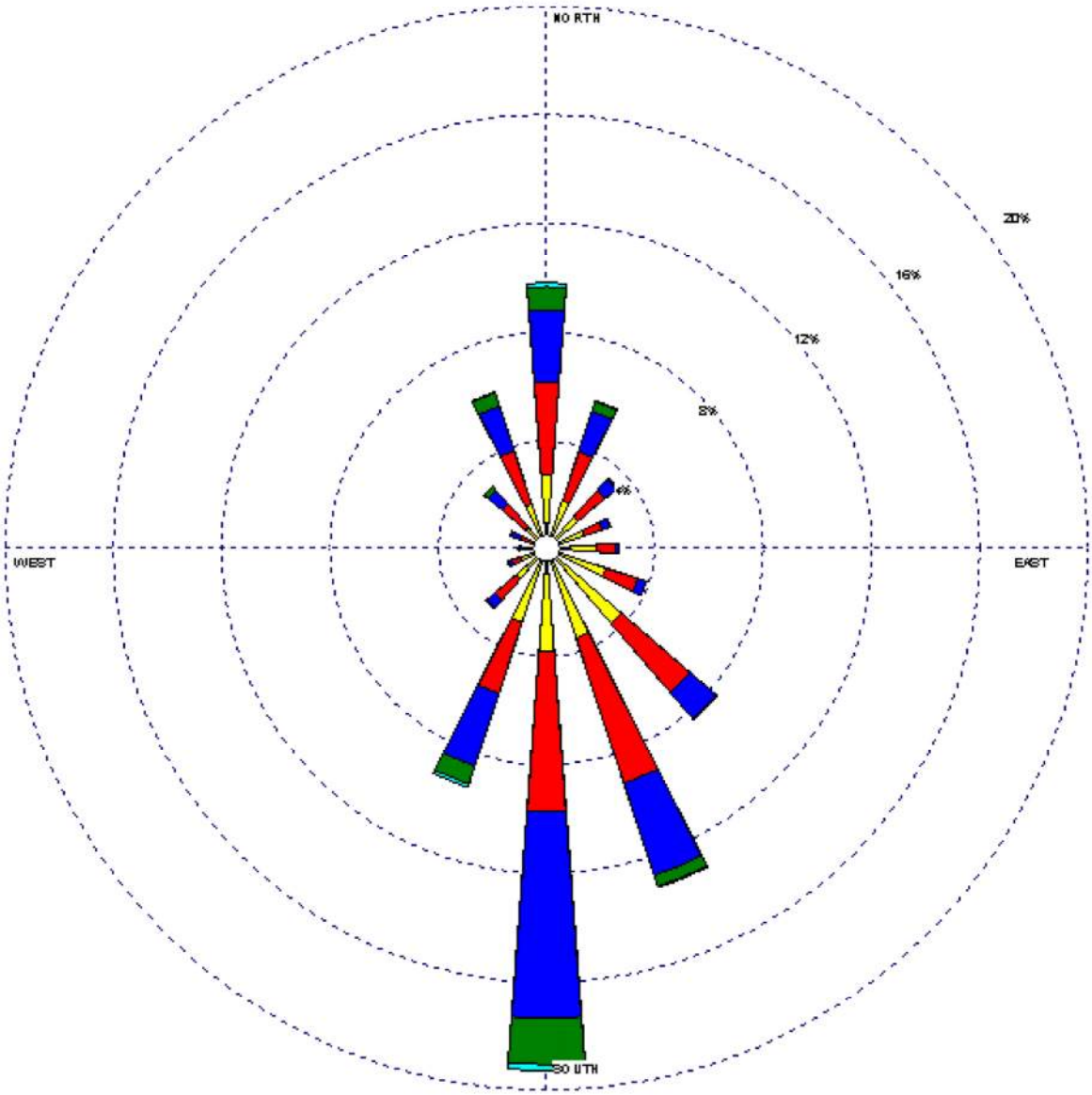
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER Sara West		DATE 8/29/2002	COMPANY NAME USDA-ARS
DISPLAY Wind Speed		UNIT m/s	COMMENTS
AVG. WIND SPEED 4.46 m/s		CALM WINDS 6.40%	
ORIENTATION Direction (blowing from)		PLOT YEAR-DATE-TIME 1961 Sep 1 - Sep 30 Midnight - 11 PM	

WIND ROSE PLOT

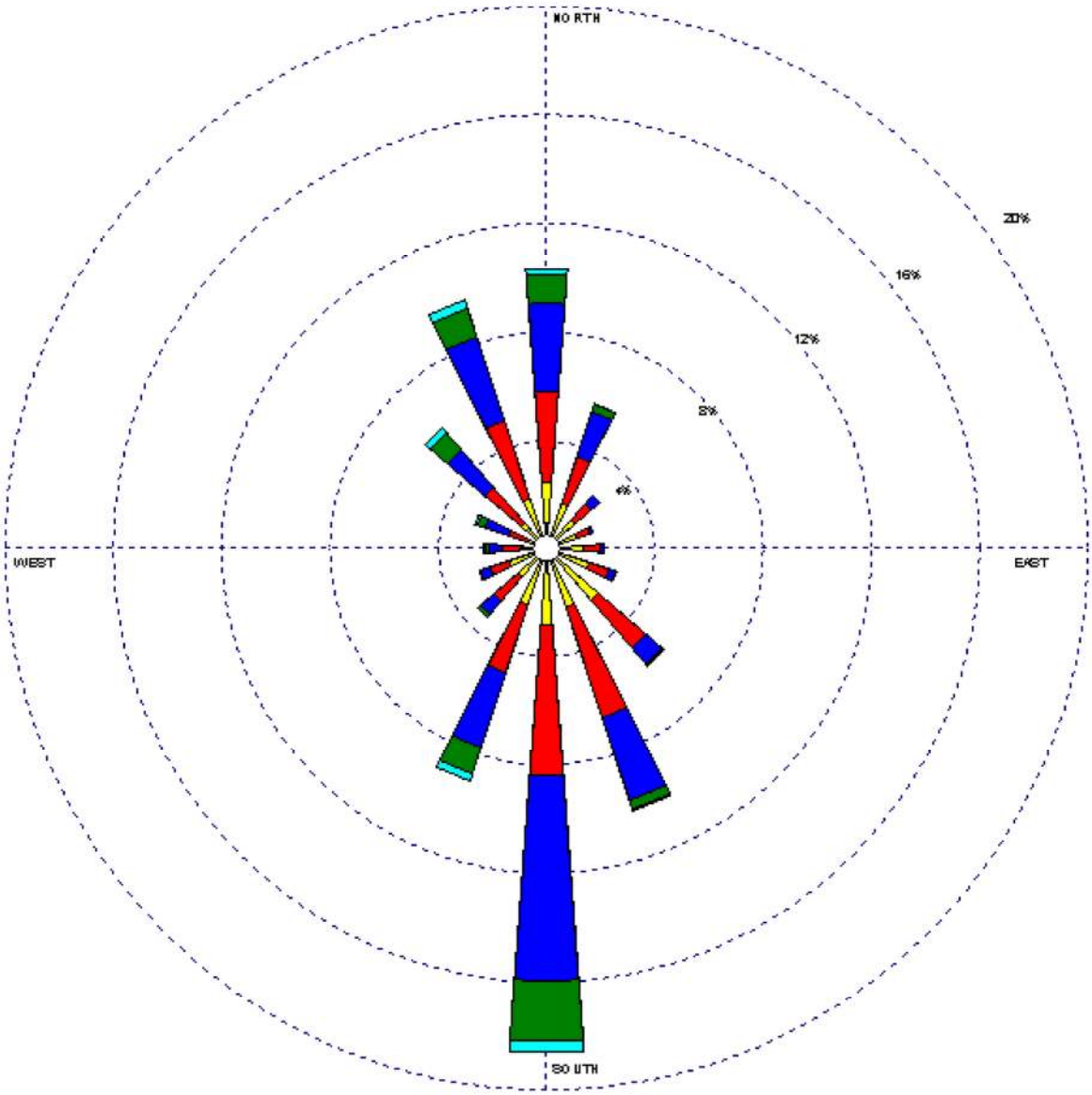
Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s) > 11.06 8.49 - 11.06 5.40 - 8.49 3.34 - 5.40 1.80 - 3.34 0.51 - 1.80	MODELER Sara West	DATE 8/29/2002	COMPANY NAME USDA-ARS
	DISPLAY Wind Speed	UNIT m/s	COMMENTS
	AVG. WIND SPEED 4.64 m/s	CALM WINDS 5.54%	
	ORIENTATION Direction (blowing from)	PLOT YEAR-DATE-TIME 1961 Oct 1 - Oct 31 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



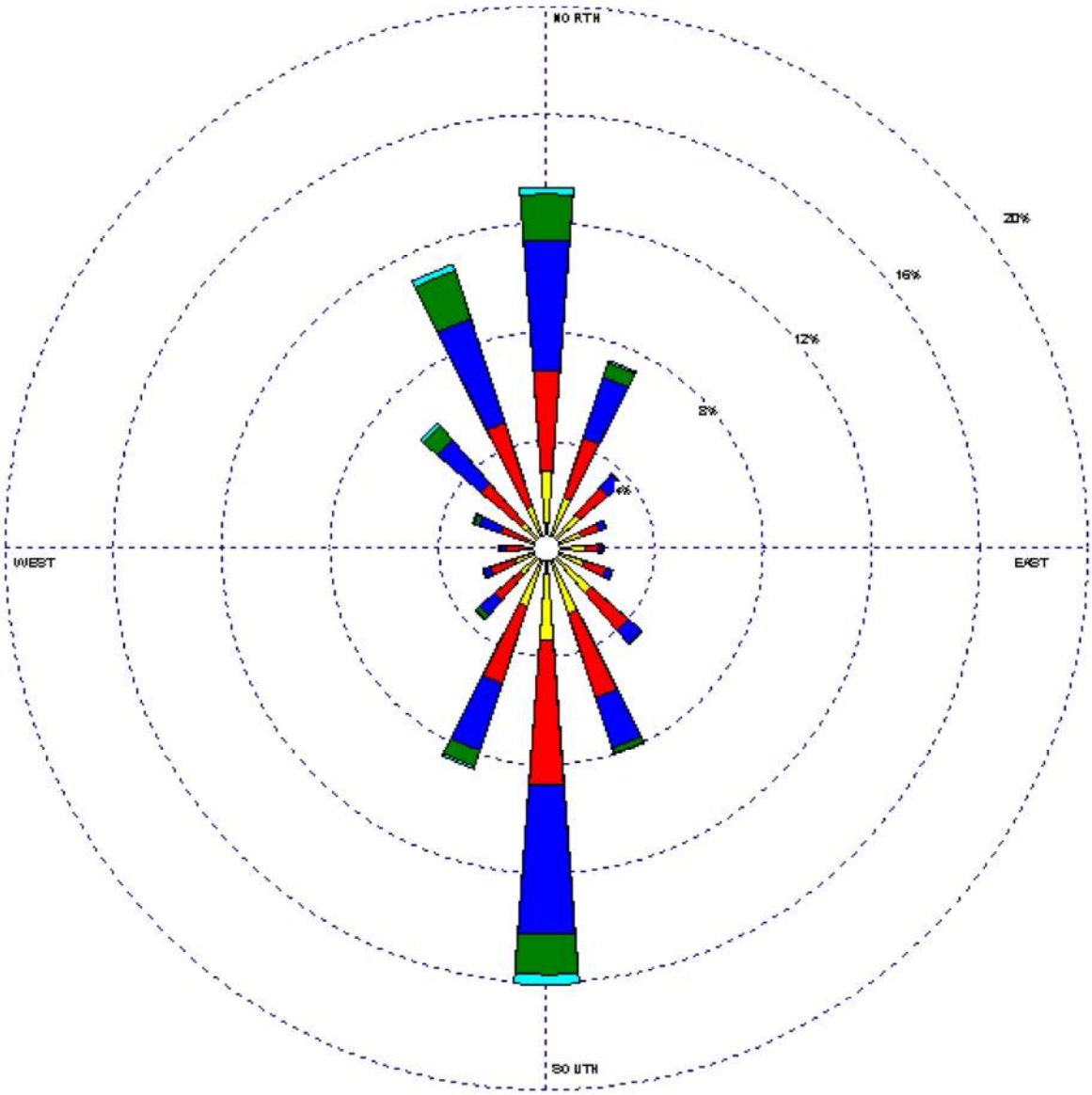
Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY: Wind Speed	UNIT: m/s	COMMENTS
AVG. WIND SPEED: 5.08 m/s	CALM WINDS: 4.40%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 1961 Nov 1 - Nov 30 Midnight - 11 PM	

WIND ROSE PLOT

Station #03927 - DALLAS/FORT WORTH/REGIONAL AR, TX



Wind Speed (m/s)

- > 11.06
- 8.49 - 11.06
- 5.40 - 8.49
- 3.34 - 5.40
- 1.80 - 3.34
- 0.51 - 1.80

MODELER	DATE	COMPANY NAME
Sara West	8/29/2002	USDA-ARS
DISPLAY: Wind Speed	UNIT: m/s	COMMENTS
AVG. WIND SPEED: 5.03 m/s	CALM WINDS: 3.35%	
ORIENTATION: Direction (blowing from)	PLOT YEAR-DATE-TIME: 1961 Dec 1 - Dec 31 Midnight - 11 PM	

Attachment 14

Sewage Sludge Solids Management Plan:

Influent Design Flow = .032 MGD

Influent BOD Concentration = 800 mg/L

Settling Capacity = 83,693 gallons

Sludge Production

Solids Generated	**100% flow**	**75% flow**	**50% flow**	**25% flow**
lb Influent BOD_5	214	161	107	54
lb dry sludge	75	56	37	19
lb wet sludge	3750	2800	1850	950
Gallons of wet sludge	450	336	222	114

Sewage sludge will be settled and digested in STEP tanks and settling/digestion tanks at the wastewater treatment works. Anaerobic digestions will be facilitated through the regular addition of BactiBio 9500 biopreparation according to manufacturer's dosage recommendation.

Sludge Removal Schedule

Removal Schedule (Days)	**100% flow**	**75% flow**	**50% flow**	**25% flow**
Days between sludge removal	180	250	377	734

Liquid digested sludge will be removed from the STEP and settling digestion tanks for disposal on a regular basis when sludge volume reaches 66% as indicated by sludge judge device. Based on a gross combined tankage volume of 125,540 gallons, at 100% capacity digested sewage sludge should be pumped twice per year after full build out of the final phase. The digested sludge will be transported by registered hauler,

Treatment Sludge Mitigation

The Bio-Chip media mitigates biofilm overgrowth as the chips rub against each other under aeration. These unfavorable conditions on the outside of the Bio-Chip cause microorganisms to inhabit primarily the protected interior of the media. Treatment in this chamber is provided by slow-growing bacteria such as ANAMMOX which produce negligible biomass.

Subsequent chambers facilitate the development of a complete trophic system with all four trophic levels. This means that the amount of bacteria are controlled by Protozoa and Metazoans that

consume any surplus bacterial biomass. The last chamber utilizes static media and minimal aeration intensity to ensuring high efficiency adsorption and mineralization of any residual suspended matter eliminating the need for clarifiers or sludge removal from the bioreactor.

Andy E. Diehl Attachment 9

From: Jarrett Tate <jarrett.tate@tombeantx.gov>
Sent: Friday, April 5, 2024 12:06 PM
To: Joel E. Hays
Cc: Natasha R. Ruiz
Subject: RE: Wastewater plant capacity and service distance

Joel E. Hays,

And any that this pertains to for The RV Park Development 738 Campground Rd Sherman Tx. After discussing this with the city of tom bean engineer.

1. This site is not within Tom Bean's ETJ, Watter CCN, or Sewer CCN
2. Tom Bean does not have a sewer CCN.
3. The only sewer facilities in this area are a private lift station at the Tom Bean high school. This lift station is approximately 1.5 miles away.
4. If this development wanted to utilize the City's sewer system, they would have to construct a lift station and force main and pump it approximately 2.6 miles to tie into the City's gravity system (SH 11/Thomas Street).
5. It is not feasible for the City to provide sewer service to this proposed development.

Thank You,

Jarrett W. Tate
Director of Public Works
City of Tom Bean

201 S. Britton St., P.O. Box 659, Tom Bean, TX 75489
Office 903-546-6321
Cell 903-436-3710
Fax: 903-546-4878

From: Joel E. Hays <jhays@ceieng.com>
Sent: Thursday, April 4, 2024 9:43 AM
To: Jarrett Tate <jarrett.tate@tombeantx.gov>
Cc: Natasha R. Ruiz <nruiz@ceieng.com>
Subject: Wastewater plant capacity and service distance

Jarrett,

Please respond to this email to confirm your plant does not have capacity to treat addition waste from the development approximately 2.5 miles from your nearest

connection point.

Your response is required by TCEQ to support our application to treat wastewater on-site.

We appreciate your time in responding.

Thanks and have a great day.

JOEL HAYS
Project Manager
Dallas, TX
Office: (972) 488-3737
Cell: (469) 512-3778
ceieng.com

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Andy E. Diehl Attachment 10

From: Pruitt, Tom <tomp@cityofsherman.com>
Sent: Wednesday, March 27, 2024 12:53 PM
To: Joel E. Hays
Cc: Andy E. Diehl; Natasha R. Ruiz
Subject: RE: Hauled wastewater status

Joel,

We cannot take wastewater from any entity outside our CCN; that is against the law.

Thanks,

Tom Pruitt, P.E.

Utility Engineer

Sherman
CLASSIC TOWN. BROAD HORIZON.

220 W Mulberry St.
Sherman, TX 75091
(903) 892-7212
tomp@cityofsherman.com ←New email

From: Joel E. Hays <jhays@ceieng.com>
Sent: Tuesday, March 26, 2024 10:04 AM
To: Pruitt, Tom <tomp@cityofsherman.com>
Cc: Andy E. Diehl <adiehl@ceieng.com>; Natasha R. Ruiz <nruiz@ceieng.com>
Subject: Hauled wastewater status

Tom,

I have been told the City is not accepting hauled untreated wastewater as a standard practice.

We have a client that is applying for a discharge permit for a small treatment plant near Tom Bean.

A part of that application is proof the nearest treatment facility is not a reasonable recipient of hauled wastewater.

Your email confirmation will be the proof needed for the application we are applying for.

Please feel free to contact me if you have any questions regarding this request.

Thank you and have a great day.

JOEL HAYS
Project Manager
Dallas, TX
Office: (972) 488-3737
Cell: (469) 512-3778
ceieng.com

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Attachment 11

Grayson Collin™
Electric Cooperative
connecting you and your world

P.O. Box 548 ~ 14568 FM 121
Van Alstyne, Texas 75495
Tel: (903) 482-7100
Fax: (903) 482-5906

To Whom It May Concern:

We have included the attached outage data for the location of 738 Campground RD. The outages highlighted in yellow reflect ERCOT Mandated Load Curtailment during Winter Storm Uri. All other outages range from trees, wind, lightning, and equipment.

Time Off	Duration	Time On
9/26/2023 11:28	0:40	9/26/2023 12:08
7/9/2023 7:56	0:29	7/9/2023 8:26
7/9/2023 4:30	3:26	7/9/2023 7:56
7/3/2023 20:58	1:33	7/3/2023 22:31
6/23/2023 16:38	0:56	6/23/2023 17:34
6/12/2023 5:36	1:38	6/12/2023 7:14
5/7/2023 1:37	1:46	5/7/2023 3:23
2/7/2023 20:59	0:47	2/7/2023 21:46
10/28/2021 5:22	7:49	10/28/2021 13:12
10/28/2021 11:35	0:30	10/28/2021 12:06
7/17/2021 18:29	0:51	7/17/2021 19:20
2/17/2021 11:11	2:20	2/17/2021 13:31
2/16/2021 19:06	1:09	2/16/2021 20:16
2/16/2021 18:11	0:57	2/16/2021 19:08
2/16/2021 17:13	0:43	2/16/2021 17:56
2/16/2021 12:20	0:32	2/16/2021 12:52
2/16/2021 12:20	0:00	2/16/2021 12:20
2/16/2021 11:27	0:32	2/16/2021 12:00
2/16/2021 10:09	0:33	2/16/2021 10:42
2/16/2021 10:09	0:01	2/16/2021 10:11
2/16/2021 9:13	0:31	2/16/2021 9:45
2/16/2021 8:03	0:46	2/16/2021 8:50
2/16/2021 8:21	0:00	2/16/2021 8:22
2/16/2021 7:33	0:26	2/16/2021 7:59
2/16/2021 7:32	0:00	2/16/2021 7:33
2/16/2021 5:40	1:31	2/16/2021 7:11
2/16/2021 5:53	0:28	2/16/2021 6:21
2/16/2021 0:37	4:52	2/16/2021 5:30
2/16/2021 1:03	0:33	2/16/2021 1:37
2/16/2021 0:03	0:32	2/16/2021 0:35
2/15/2021 21:29	2:03	2/15/2021 23:33
2/15/2021 22:00	0:31	2/15/2021 22:32

Grayson Collin™
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2/15/2021 19:47	1:40	2/15/2021 21:28
2/15/2021 20:04	0:31	2/15/2021 20:35
2/15/2021 18:22	1:22	2/15/2021 19:45
2/15/2021 18:27	0:29	2/15/2021 18:57
2/15/2021 17:09	1:11	2/15/2021 18:21
2/15/2021 17:19	0:24	2/15/2021 17:44
2/15/2021 15:50	1:17	2/15/2021 17:07
2/15/2021 15:59	0:29	2/15/2021 16:28
2/15/2021 15:20	0:28	2/15/2021 15:48
2/15/2021 13:36	1:23	2/15/2021 15:00
2/15/2021 13:45	0:32	2/15/2021 14:18
2/15/2021 13:02	0:32	2/15/2021 13:34
2/15/2021 12:05	0:41	2/15/2021 12:46
2/15/2021 11:15	0:44	2/15/2021 11:59
2/15/2021 9:42	1:33	2/15/2021 11:16
2/15/2021 9:55	0:32	2/15/2021 10:28
2/15/2021 6:51	2:48	2/15/2021 9:40
2/15/2021 7:25	1:00	2/15/2021 8:26
2/15/2021 6:21	0:28	2/15/2021 6:49
2/15/2021 5:07	0:29	2/15/2021 5:37
2/15/2021 4:20	0:25	2/15/2021 4:45
2/15/2021 3:29	0:17	2/15/2021 3:46
4/11/2020 13:10	0:50	4/11/2020 14:00
8/17/2019 1:14	0:48	8/17/2019 2:03
7/6/2019 16:11	1:11	7/6/2019 17:22

If I can be of further assistance, you can contact me at 903-482-7143.

Sincerely,

Will McGinnis
Manager of Business Development

Water Balance Calculations Not Applicable to Project Scope.

Leah Whallon

From: Andy E. Diehl <adiehl@ceieng.com>
Sent: Thursday, June 13, 2024 12:51 PM
To: Leah Whallon
Cc: austin@campaholicsresorts.com; Nathan Wilkerson; Natasha R. Ruiz; Brad J. Downum
Subject: RE: Application to Renew Permit No. WQ0016544001; Campaholic's Country, LLC; Campaholics Resorts | Addressing Administrative Comments
Attachments: 10053 Attachment 6 - Landowner Map.pdf; 10053 Attachment 7 - Landowner List.pdf; 10053 Attachment 8 - Mailing Labels Rev.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Leah,

Attached you'll find the revised files that address your remaining Administrative Review comments. Please let me know if you need anything else in order to move this into Technical Review.

Thanks,

Effective December 15, 2023-CEI Engineering will be moving to 2600 NE 11th Street, Suite 300, Bentonville, AR 72712.

ANDREW DIEHL, PE, CPESC, CPSWQ
Senior Project Engineer - Engineering
Licensed in: AR, IL, MN, MT, ND, NE, TX, VT, ND, and WY
Direct: 479.254.1458

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Wednesday, June 12, 2024 3:12 PM
To: Andy E. Diehl <adiehl@ceieng.com>
Cc: austin@campaholicsresorts.com; Nathan Wilkerson <contact@communitysewer.com>; Natasha R. Ruiz <nruiz@ceieng.com>
Subject: RE: Application to Renew Permit No. WQ0016544001; Campaholic's Country, LLC; Campaholics Resorts | Addressing Administrative Comments

Hi Andy,

Thank you for your patience. I've reviewed the response and there are a few items to address.

The affected landowner map appears to be missing some adjacent properties. I've included an image below to show the properties to the north and northeast of the property that need to be included as affected landowners. Please provide an updated affected landowner map and cross reference list. I also do not see the mailing labels attached as mentioned in the response. Please also include the updated affected landowner list formatted for mailing labels in a Microsoft Word document.

Please let me know if you need additional time to make these updates and I can send a 30 day extension letter to complete the additional items. Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: Andy E. Diehl <adiehl@ceieng.com>
Sent: Monday, June 10, 2024 9:24 AM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Cc: austin@campaholicsresorts.com; Nathan Wilkerson <contact@communitysewer.com>; Natasha R. Ruiz <nruiz@ceieng.com>

Subject: RE: Application to Renew Permit No. WQ0016544001; Campaholic's Country, LLC; Campaholics Resorts | Addressing Administrative Comments

Leah: Just following up to see if there is anything else needed from us.

Effective December 15, 2023-CEI Engineering will be moving to 2600 NE 11th Street, Suite 300, Bentonville, AR 72712.

ANDREW DIEHL, PE, CPESC, CPSWQ
Senior Project Engineer - Engineering
Licensed in: AR, IL, MN, MT, ND, NE, TX, VT, ND, and WY
Direct: 479.254.1458

From: Andy E. Diehl
Sent: Thursday, May 30, 2024 4:09 PM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Cc: austin@campaholicsresorts.com; Nathan Wilkerson <contact@communitysewer.com>; Joel E. Hays <jhays@ceieng.com>; Natasha R. Ruiz <nruiz@ceieng.com>
Subject: RE: Application to Renew Permit No. WQ0016544001; Campaholic's Country, LLC; Campaholics Resorts | Addressing Administrative Comments

Leah,

Attached you will find revised forms and attachments addressing your comments sent on 5/24/24. One of the attached files is a Comment Response Letter which provides a detailed response to your comment.

If you need anything else, please let me know.

Thanks,

Effective December 15, 2023-CEI Engineering will be moving to 2600 NE 11th Street, Suite 300, Bentonville, AR 72712.

ANDREW DIEHL, PE, CPESC, CPSWQ
Senior Project Engineer - Engineering
Licensed in: AR, IL, MN, MT, ND, NE, TX, VT, ND, and WY
Direct: 479.254.1458

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Friday, May 24, 2024 4:00 PM
To: Andy E. Diehl <adiehl@ceieng.com>
Cc: austin@campaholicsresorts.com
Subject: Application to Renew Permit No. WQ0016544001; Campaholic's Country, LLC; Campaholics Resorts

Good Afternoon,

Please see the attached Notice of Deficiency letter dated May 24, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by June 7, 2024.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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Surrounding Property Cross Reference List – 738 Campground Rd Sherman, Tx – Grayson County

Subject Property (X): X
Property Id: 127159
Legal Description: G-1195 Trebino Ignacio A- G1195, Acres 49.498
Owner: Campaholics Country LLC
Address: 738 Campground Rd, Tom Bean, Tx 75489; Grayson County

Surrounding Affected Parcels:

1. Property ID: 127149
Legal Description: G-0267 Cox William A-G0267, Acres 28.203
Owner: Smith Kevin F
Address: 476 Campground Rd Sherman, TX 75090

2. Property ID: 127161
Legal Description: G-1195 TREBINO IGNACIO A-G1195, ACRES 48.6
Owner: SMITH KEVIN F & KIMBERLY A
Address: 476 CAMPGROUND RD Sherman TX 75090

3. Property ID: 438338
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 15.0
Owner: ANDERSON JOHN HOUSTON ETUX JULIE
Address: 475 CAMPGROUND ROAD Sherman TX 75090

4. Property ID: 388762
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 16.174
Owner: COMSIA JOHN R ETUX LISA D
Address: PO BOX 1190 Denison TX 75021

5. Property ID: 368720
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 3.868
Owner: WETZEL BRUCE LEE ETUX BOBBY LYNN
Address: 977 CAMPGROUND ROAD Sherman TX 75090

6. Property ID: 356212
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 6.0
Owner: WETZEL BRUCE L ETUX BOBBY
Address: 977 CAMPGROUND ROAD Sherman TX 75090

7. Property ID: 127315
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 1.72
Owner: COMSIA JOHN R ETUX LISA D
Address: PO BOX 1190 Denison TX 75021

8. Property ID: 218683
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 105.483
Owner: WETZEL BRUCE L ETUX BOBBY
Address: 977 CAMPGROUND ROAD Sherman TX 75090

9. Property ID: 129118
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 116.2200
Owner: ANDERSON STEFAN ELAINE TRUSTEE
Address: 475 CAMPGROUND RD Sherman TX 75090

10. Property ID: 207703
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 15.03
Owner: HO PAUL V ETUX CHRISTINE P
Address: 604 Ashfield Richardson TX 75081

11. Property ID: 129138
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 13.1
Owner: MARKS LLOYD DUANE TRUSTEE CAROLYN DOSIER IREV TRUST FEB 13TH 2018
Address: 5282 LUELLA RD Sherman TX 75090

12. Property ID: 127312
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 27.613
Owner: WETZEL BRUCE L ETUX BOBBY
Address: 977 Campground Rd Sherman TX 75090

13. Property ID: 127295
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 33.13
Owner: REYNOLDS LARRY DICK
Address: 5385 State Hwy 11 Sherman TX 75090

14. Property ID: 129121
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 7.05
Owner: LITTRELL JOE M
Address: 549 Campground Road Sherman TX 75090

15. Property ID: 129120
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 2.37
Owner: ANDERSON BRUCE
Address: 475 Campground Road Sherman TX 75090

16. Property ID: 129119
Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 16.206
Owner: ANDERSON BRUCE
Address: 475 Campground Road Sherman TX 75090

17. Property ID: 127157
Legal Description: G-1195 TREBINO IGNACIO A-G1195, ACRES 43.67
Owner: HOWERY ANGELIA DIANE
Address: PO BOX 64 Tom Bean TX 75489

18. Property ID: 127145
Legal Description: G-0267 COX WILLIAM A-G0267, ACRES 23
Owner: WETZEL BRUCE L
977 CAMPGROUND RD Sherman TX 75090

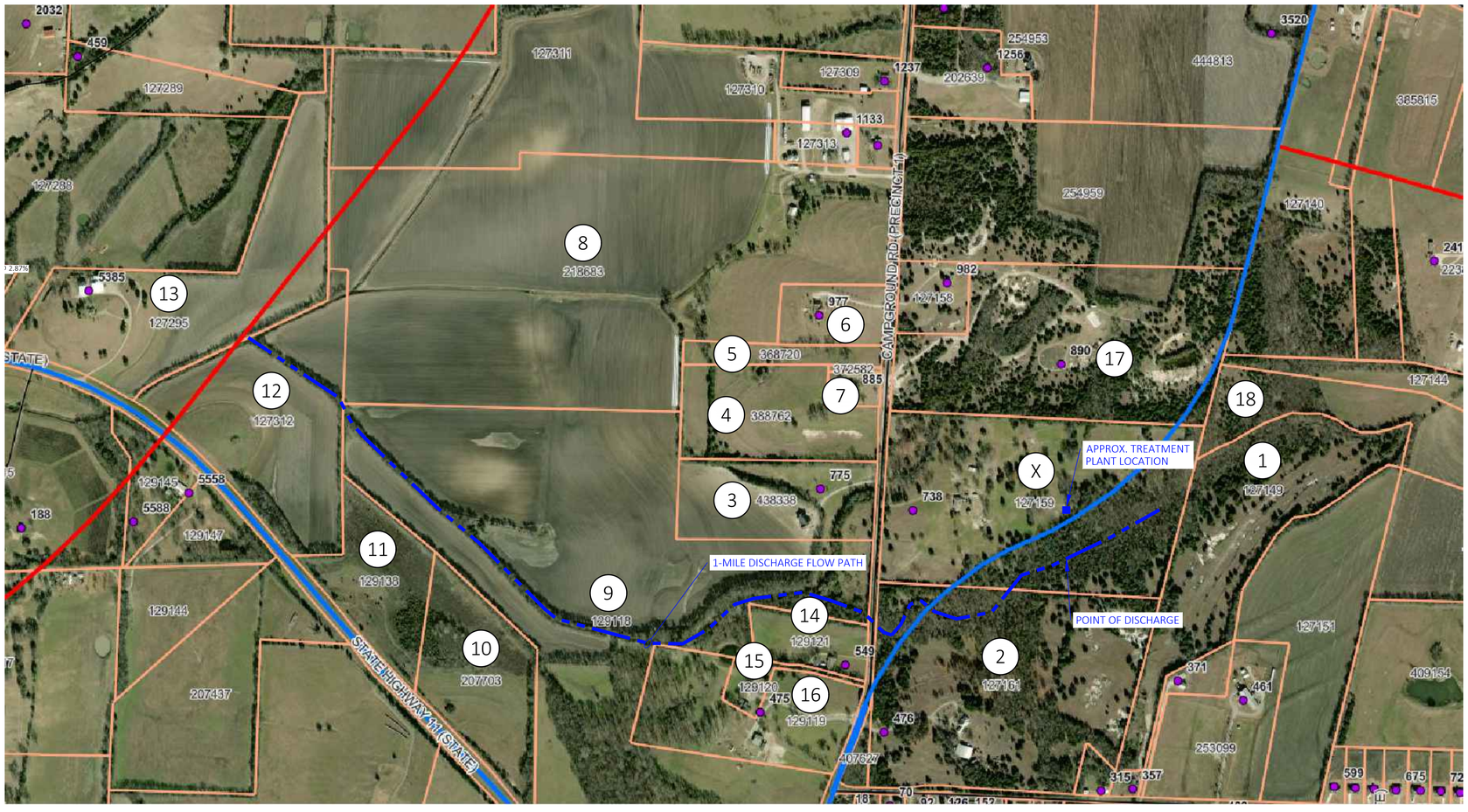
Surrounding Parcel Search Source:
Grayson County TX Central Appraisal District: https://graysonappraisal.org/property-search/
Utilized Property ID for Site: 127159
Map Viewer with Surrounding Property information – Grayson County CAD Search:
https://gis.bisclient.com/graysoncad/index.html?find=127159

Tom Bean ISD Contacts:
McBride, Jan – District Counselor jan.mcbride@tombean-isd.org
Source – Tom Bean ISD Staff Directory: https://www.tbisd.org/578591_3

N

0 400' 600' 800'
SCALE IN FEET

811 Know what's below. Call before you dig.



CEI ENGINEERING ASSOCIATES, INC.
3030 LBJ FREEWAY, SUITE 920
DALLAS, TX 75234
PHONE: (972) 488-3737
FAX: (972) 488-6732

CAMPAHOLICS RESORTS LLC
CAMPAHOLICS
738 CAMPGROUND ROAD
TOM BEAN, TX

F-7524

PRELIMINARY
NOT FOR
CONSTRUCTION

PROFESSIONAL OF RECORD	AED
PROJECT MANAGER	JEH
DESIGNER	MDT
CEI PROJECT NUMBER	33556
DATE	6/13/2024
REVISION	REV-0

LANDOWNER MAP
SHEET TITLE

SHEET NUMBER
1 of 1

DRAWING LOCATION - P:\33000\33556.0\DRAWINGS\DESIGNWORKING\33556-SP_UP_DT.DWG – SAVED BY - ADJEHL

10053 Attachment 7

Surrounding Property Cross Reference List – 738 Campground Rd Sherman, Tx – Grayson County

Subject Property (X):
Property Id: 127159
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   Legal Description: G-1195 TREBINO IGNACIO A-G1195, ACRES 48.6
   Owner: SMITH KEVIN F & KIMBERLY A
   Address: 476 CAMPGROUND RD Sherman TX 75090

3. Property ID: 438338
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 15.0
   Owner: ANDERSON JOHN HOUSTON ETUX JULIE
   Address: 475 CAMPGROUND ROAD Sherman TX 75090

4. Property ID: 388762
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 16.174
   Owner: COMSIA JOHN R ETUX LISA D
   Address: PO BOX 1190 Denison TX 75021

5. Property ID: 368720
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 3.868
   Owner: WETZEL BRUCE LEE ETUX BOBBY LYNN
   Address: 977 CAMPGROUND ROAD Sherman TX 75090

6. Property ID: 356212
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 6.0
   Owner: WETZEL BRUCE L ETUX BOBBY
   Address: 977 CAMPGROUND ROAD Sherman TX 75090

7. Property ID: 127315
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 1.72
   Owner: COMSIA JOHN R ETUX LISA D
   Address: PO BOX 1190 Denison TX 75021

8. Property ID: 218683
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 105.483
   Owner: WETZEL BRUCE L ETUX BOBBY
   Address: 977 CAMPGROUND ROAD Sherman TX 75090

9. Property ID: 129118
   Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 116.2200
   Owner: ANDERSON STEFAN ELAINE TRUSTEE
   Address: 475 CAMPGROUND RD Sherman TX 75090

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    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 15.03
    Owner: HO PAUL V ETUX CHRISTINE P
    Address: 604 Ashfield Richardson TX 75081

11. Property ID: 129138
    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 13.1
    Owner: MARKS LLOYD DUANE TRUSTEE CAROLYN DOSIER IREV TRUST FEB 13TH 2018
    Address: 5282 LUELLA RD Sherman TX 75090

12. Property ID: 127312
    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 27.613
    Owner: WETZEL BRUCE L ETUX BOBBY
    Address: 977 Campground Rd Sherman TX 75090

13. Property ID: 127295
    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 33.13
    Owner: REYNOLDS LARRY DICK
    Address: 5385 State Hwy 11 Sherman TX 75090

14. Property ID: 129121
    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 7.05
    Owner: LITTRELL JOE M
    Address: 549 Campground Road Sherman TX 75090

15. Property ID: 129120
    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 2.37
    Owner: ANDERSON BRUCE
    Address: 475 Campground Road Sherman TX 75090

16. Property ID: 129119
    Legal Description: G-1300 WILLIAMSON R M A-G1300, ACRES 16.206
    Owner: ANDERSON BRUCE
    Address: 475 Campground Road Sherman TX 75090

17. Property ID: 127157
    Legal Description: G-1195 TREBINO IGNACIO A-G1195, ACRES 43.67
    Owner: HOWERY ANGELIA DIANE
    Address: PO BOX 64 Tom Bean TX 75489

18. Property ID: 127145
    Legal Description: G-0267 COX WILLIAM A-G0267, ACRES 23
    Owner: WETZEL BRUCE L
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Surrounding Parcel Search Source:
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Map Viewer with Surrounding Property information – Grayson County CAD Search:
https://gis.bisclient.com/graysoncad/index.html?find=127159

Tom Bean ISD Contacts:
McBride, Jan – District Counselor jan.mcbride@tombean-isd.org
Source – Tom Bean ISD Staff Directory: https://www.tbisd.org/578591_3

Kevin F Smith
Property ID 127149
476 Campground Rd
Sherman, TX 75090

Kevin F Smith & Kimerly A
Property ID 127161
476 Campground Rd
Sherman, TX 75090

Anderson John Houston ETUX Julie
Property ID 438338
475 Campground Rd
Sherman, TX 75090

Comsia John R ETUX Lisa D
Property ID 3388762
PO BOX 1190
Denison TX 75021

Wetzel Bruce Lee ETUX Bobby Lynn
Property ID 368720
977 Campground Rd
Sherman TX 75090

Wetzel Bruce L ETUX Bobby
Property ID 356212
977 Campground Rd
Sherman TX 75090

Comsia John R ETUX Lisa D
Property ID 127315
PO BOX 1190
Denison TX 75021

Wetzel Bruce L ETUX Bobby
Property ID 218683
977 Campground Rd
Sherman TX 75090

Anderson Stefan Elaine Trustee
Property ID 129118
475 Campground Rd
Sherman TX 75090

Ho Paul V ETUX Christine P
Property ID 207703
604 Ashfield
Richardson TX 75081

Marks Lloyd Duane Trustee Carolyn Dosier
IREV Trust Feb 13th 2018
Property ID 129138
5282 Luella Rd Sherman TX 75090

Wetzel Bruce L ETUX Bobby
Property ID 127132
977 Campground Rd
Sherman TX 75090

Reynolds Larry Dick
Property ID 127295
5385 State Hwy 11
Sherman TX 75090

Littrell Joe M
Property ID 129121
549 Campground Rd
Sherman TX 75090

Anderson Bruce
Property ID 129120
475 Campground Rd
Sherman TX 75090

Anderson Bruce
Property ID 129119
475 Campground Rd
Sherman TX 75090

Howery Angelia Diane
Property ID 127157
PO BOX 64
Tom Bean TX 75489

Wetzel Bruce L
Property ID 127145
977 Campground Rd
Sherman TX 75090

Civil Engineering, Landscape Architecture,
Survey, Planning & Program Management

3030 LBJ Freeway Suite 920
Dallas, TX 75234
Office: 479.273.9472
Toll-free: 1.800.433.4173
ceieng.com

May 30, 2024

Texas Commission on Environmental Quality
Water Quality Division
PO Box 13087
Austin, TX 78711

RE: WQ0016544001 – Campaholics Country, LLC, Sherman, TX

Per review comments provided to us, for the above reference project, we offer the following response.

1. Administrative Report 1.1, Affected Landowner Information
   The affected landowner map does not show the proposed facility location, point of discharge or highlighted discharge route for one mile downstream. It is not clear if all landowners one mile downstream of the outfall are included. Please provide an updated landowner map that clearly labels all required items.

   Please also include an updated cross-reference landowner lust and landowner list formatted for mailing labels (Avery 5160) in Microsoft Word document/

   Response: An updated Affected Landowner Map is attached. Also, the Word file of the Landowner Mailing List is attached as well.

2. Supplemental Permit Information Form (SPIF) Item 4
   The discharge route in the SPIF is not consistent with the application. Please provide an updated page with the correct discharge route.

   Response: The SPIF, Item 4 and the Administrative Report Form 10053, Section 10.B discharge route description have been revised to match.

3. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any error or omissions. The complete notice will be sent to you once the application is declared administratively complete.

   APPLICATION. Campaholic's Country, LLC, 738 Campground Road, Sherman, Texas 75090, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016544001 (EPA I.D. No. TX0146064) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 30,400 gallons per day. The domestic wastewater treatment facility will be located at 738 Campground Road, near the

city of Sherman, in Grayson County, Texas 75090. The discharge route will be from the plant site to an unnamed tributary, thence to Cedar Creek, thence to Choctaw Creek, thence to Red River Below Lake Texoma (pending RWA review). TCEQ received this application on May 15, 2024. The permit application will be available for viewing and copying at Grayson County Courthouse, Suite G3, 100 West Houston Street, Sherman, in Grayson County, Texas prior to the date this notice is published in the newspaper. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-96.5075,33.549166&level%20=18.

Further information may also be obtained from Campaholic's Country, LLC at the address above or by calling Mr. Andrew Diehl, P.E., CEI Engineering Associates, Inc., at 972-488-3737.

Response: The NORI language has been reviewed and confirmed.

Andrew Diehl, PE
Sr Project Engineer

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

E. Owner of effluent disposal site:

Prefix: Mr. Last Name, First Name: Karnes, Austin

Title: Owner Credential: Click to enter text.

Organization Name: Campaholics Country, LLC

Mailing Address: 738 Campground Rd. City, State, Zip Code: Sherman, TX, 75090

Phone No.: 214-808-4581 E-mail Address: austin@campaholicsresorts.com

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

F. Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant)::

Prefix: Click to enter text. Last Name, First Name: Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text. City, State, Zip Code: Click to enter text.

Phone No.: Click to enter text. E-mail Address: Click to enter text.

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☒ No

If **no**, **or a new permit application**, please give an accurate description:

The discharge site will be located 2300 feet NNW of the intersection of Campground Road and Pennell Road in rural Sherman Texas.

B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☒ No

If **no**, **or a new or amendment permit application**, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

Gravity outfall through UV disinfection unit to an unnamed tributary to Cedar Creek, thence to Cedar Creek, thence to Choctaw Creek, and ultimately to the Red River below Lake Texoma segment #0202

City nearest the outfall(s): Tom Bean

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Andrew Diehl

Credential (P.E, P.G., Ph.D., etc.): PE

Title: Sr Project Engineer

Mailing Address: 3030 LBJ Freeway, Ste 920

City, State, Zip Code: Dallas, TX 75234

Phone No.: 479-254-1458 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: adiehl@ceieng.com

2. List the county in which the facility is located: Grayson
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

Not publicly owned.

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

Unnamed tributary to Cedar Creek, thence to Cedar Creek, thence to Choctaw Creek, and ultimately to the Red River below Lake Texoma segment #0202

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

☒ Proposed access roads, utility lines, construction easements

☐ Visual effects that could damage or detract from a historic property's integrity

☐ Vibration effects during construction or as a result of project design

☐ Additional phases of development that are planned for the future