

#### This file contains the following documents:

- 1. Summary of application (in plain language)
  - English
  - Alternative Language (Spanish)
- 2. First notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
  - English
  - Alternative Language (Spanish)
- 3. Second notice (NAPD-Notice of Preliminary Decision)
  - English
  - Alternative Language (Spanish)
- 4. Application materials \*
- 5. Draft permit \*
- 6. Technical summary or fact sheet \*



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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.

CHTX Club, LLC CN606347763 proposes to operate CHTX Club, LLC Wastewater Treatment Facility RN112130869, a domestic on site treatment plant. The facility is located at 15641 County Road P, in Childress, Childress County, Texas 79201. CHTX Club, LLC will receive domestic wastewater from Childress Golf Village Childress, Texas for treatment and disposal. This permit will not authorize a discharge of pollutants into water in the state. << For TLAP applications include the following sentence, otherwise delete:>>

Discharges from the facility are expected to contain domestic wastewater pollutants. The proposed output (flow) will be 0.0099 MGD. Watewater will be treated by an activated sludge package plant that operates in a single state nitrification mode The package plant process unit will include preliminary screening, flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester.

#### **TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**



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

#### PROPOSED PERMIT NO. WQ0016717001

APPLICATION. CHTX Club, LLC and Childress Hall, LLC, P.O. Box 298, Childress, Texas 79201, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016717001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 9,999 gallons per day via irrigation of 250 acres of public access land. The domestic wastewater treatment facility and disposal area will be located at 15641 County Road P, near the city of Childress, in Childress County, Texas 79201. TCEQ received this application on January 30, 2025. The permit application will be available for viewing and copying at Childress City Hall, 315 Commerce Street, Childress, in Childress 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/tlap-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=-100.3041,34.531751&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 countywide 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 <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. 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 <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, 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 <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from CHTX Club, LLC and Childress Hall, LLC at the address stated above or by calling Mr. Eric Greytok, Project Manager, at 940-585-8902.

Issuance Date: February 26, 2025

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



#### NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR WATER QUALITY LAND APPLICATION PERMIT FOR MUNICIPAL WASTEWATER

#### **NEW**

#### **PERMIT NO. WQ0016717001**

**APPLICATION AND PRELIMINARY DECISION**. CHTX Club, LLC and Childress Hall, LLC, P.O. Box 298, Childress, Texas 79201, have applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit, TCEQ Permit No. WQ0016717001, to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 9,999 gallons per day via surface irrigation of 250 acres of public access land. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on January 30, 2025.

The wastewater treatment facility and disposal site will be located at 15641 County Road P, in Childress County, Texas 79201. The wastewater treatment facility and disposal site will be located in the drainage basin of Lower Prairie Dog Town Fork Red River in Segment No. 0207 of the Red River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.3041,34.531751&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Childress City Hall, 315 Commerce Street, Childress, in Childress County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: <a href="https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications">https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications</a>.

**PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application.** The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds 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 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 a contested case hearing or reconsideration of the Executive Director's decision. A contested case hearing is a legal proceeding similar to a civil trial in a 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.

**EXECUTIVE DIRECTOR ACTION**. The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

**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.

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at <a href="https://www.tceq.texas.gov/goto/comment">www.tceq.texas.gov/goto/comment</a> within 30 days from the date of newspaper publication of this notice.

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

**AGENCY CONTACTS AND INFORMATION.** Public comments and requests must be submitted either electronically at <a href="www.tceq.texas.gov/goto/comment">www.tceq.texas.gov/goto/comment</a>, 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. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. 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 <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from CHTX Club, LLC and Childress Hall, LLC at the address stated above or by calling Mr. Eric Greytok, CHTX Club, LLC, at 940-585-8902.

Issuance Date: June 23, 2025



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY P.O. Box 13087 Austin, Texas 78711-3087

#### PERMIT TO DISCHARGE WASTES

under provisions of Chapter 26 of the Texas Water Code

CHTX Club, LLC and Childress Hall, LLC

whose mailing address is

P.O. Box 298 Childress, Texas 79201

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 7997.

General Description and Location of Waste Disposal System:

Description: The Childress Hall Wastewater Treatment Facility consists of an activated sludge package plant that operates in the extended aeration mode with nitrification. Treatment units include a bar screens, a flow equalization basin, an aeration basin, a secondary clarifier, a chlorine contact basin, and an aerobic digester. The facility has not been constructed. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.0099 million gallons per day (MGD) via surface irrigation of 250 acres of public access land. The facility includes a storage pond with a total surface area of 3.4 acres and total capacity of 42.9 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 0.04 acrefeet per year per acre irrigated. The irrigated crops include bermuda grass.

Location: The wastewater treatment facility and disposal site are located at 15641 County Road P, in Childress County, Texas 79201. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Lower Prairie Dog Town Fork Red River in Segment No. 0207 of the Red River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight, **five years from the date of issuance**.

ISSUED DATE:	
	For the Commission

#### EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Conditions of the Permit: No discharge of pollutants into water in the state is authorized.

#### A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

<u>Volume</u>: Daily Average Flow – 0.0099 MGD from the treatment system

Quality: The following effluent limitations are required:

	Ef	fluent Conce	ntrations	
		(Not to Exc	eed)	
	Daily	7-Day	Daily	Single
<u>Parameter</u>	<u>Average</u>	<u>Average</u>	<u>Maximum</u>	<u>Grab</u>
	mg/l	mg/l	mg/	mg/l
Biochemical Oxygen Demand (5-day)	20	30	45	65
Total Suspended Solids	20	30	45	65

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of 20 minutes. If the effluent is to be transferred to a holding pond or tank, re-chlorination prior to the effluent being delivered into the irrigation system will be required. A trace total chlorine residual shall be maintained in the effluent at the point of irrigation application.

#### B. <u>Monitoring Requirements</u>:

<u>Parameter</u>	<b>Monitoring Frequency</b>	Sample Type
Flow	Continuous	Totalizing
		Meter
Biochemical Oxygen	One/week	Grab
Demand (5-day)		
Total Suspended Solids	One/week	Grab
pН	One/week	Grab
Total Chlorine Residual	Five/week	Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

#### STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

#### **DEFINITIONS**

All definitions in Section 26.001 of the Texas Water Code and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

#### 1. Flow Measurements

- a. Daily average flow the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- b. Annual average flow the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.
- c. Instantaneous flow the measured flow during the minimum time required to interpret the flow measuring device.

#### 2. Concentration Measurements

- a. Daily average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
  - ii. For all other wastewater treatment plants When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

#### 3. Sample Type

- a. Composite sample For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).
- b. Grab sample an individual sample collected in less than 15 minutes.
- 4. Treatment Facility (facility) wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
- 5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
- 7. Bypass the intentional diversion of a waste stream from any portion of a treatment facility.

#### MONITORING REQUIREMENTS

#### 1. Monitoring Requirements

Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§ 319.4 - 319.12.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record or other document submitted or required to be maintained under this permit, including monitoring reports, records or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

#### 2. Test Procedures

a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests and calculations shall be accurately accomplished in a representative manner.

b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

#### 3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, or application. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

#### 4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

#### 5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

#### 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

#### 7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
  - i. Unauthorized discharges as defined in Permit Condition 2(g).
  - ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
- 9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

- i. One hundred micrograms per liter (100  $\mu$ g/L);
- ii. Two hundred micrograms per liter (200  $\mu$ g/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500  $\mu$ g/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
- iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
- iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. Five hundred micrograms per liter (500  $\mu$ g/L);
  - ii. One milligram per liter (1 mg/L) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

#### 10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

#### PERMIT CONDITIONS

#### 1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of this permit;
  - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.
- h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 7.051 7.075 (relating to Administrative Penalties), 7.101 7.111 (relating to Civil Penalties), and 7.141 7.202 (relating to Criminal Offenses and Penalties).

#### 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission.

  Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to

public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in Texas Water Code Section 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

#### 4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
  - ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

e. In accordance with the Texas Water Code § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

#### 5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

#### 6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal which requires a permit or other authorization pursuant to the Texas Health and Safety Code.

#### 7. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

#### 8. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

#### 9. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

#### 10. Notice of Bankruptcy.

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
  - i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

#### **OPERATIONAL REQUIREMENTS**

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
- 2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 319.29 concerning the discharge of certain hazardous metals.
- 3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
- 4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
- 5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
- 6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).
- 7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information specified as not confidential in 30 TAC § 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

- 8. Facilities which generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
  - a. Whenever flow measurements for any domestic sewage treatment facility reach 75 percent of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90 percent of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75 percent of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgement of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 219) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any

other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

- 9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
- 10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
  - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
  - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
    - i. Volume of waste and date(s) generated from treatment process;
    - ii. Volume of waste disposed of on-site or shipped off-site;
    - iii. Date(s) of disposal;

- iv. Identity of hauler or transporter;
- v. Location of disposal site; and
- vi. Method of final disposal.

The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.

11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

TCEQ Revision 06/2020

#### **SLUDGE PROVISIONS**

The permittee is authorized to dispose of sludge or biosolids only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge. The disposal of sludge or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.

### SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS LAND APPLICATION

#### A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
- 2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge or biosolids to assure compliance with these regulations.
- 3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

#### **B.** Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 1) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224).

2. Biosolids shall not be applied to the land if the concentration of the pollutants exceeds the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C. of this permit.

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration</u> ( <u>Milligrams per kilogram</u> )*
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

<sup>\*</sup> Dry weight basis

#### 3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site must be treated by one of the following methods to ensure that the sludge meets either the Class A, Class AB or Class B biosolids pathogen requirements.

a. For sewage sludge to be classified as Class A biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 most probable number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge must be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

<u>Alternative 1</u> - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of must be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

b. For sewage sludge to be classified as Class AB biosolids with respect to pathogens, the density of fecal coliform in the sewage sludge must be less than 1,000 MPN per gram of total solids (dry weight basis), or the density of *Salmonella* sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. In addition, one of the alternatives listed below must be met:

<u>Alternative 2</u> - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52° Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50%; or

<u>Alternative 3</u> - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC  $\S$  312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC  $\S$  312.82(a)(2)(C)(iv-vi) for specific information; or

<u>Alternative 4</u> - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

- c. Sewage sludge that meets the requirements of Class AB biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.
- d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

#### Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

<u>Alternative 2</u> - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

<u>Alternative 3</u> - Sewage sludge shall be treated in an equivalent process that has been approved by the U.S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition to the Alternatives 1 - 3, the following site restrictions must be met if Class B biosolids are land applied:

- i. Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

#### 4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

- <u>Alternative 1</u> The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

#### Alternative 8 -

The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

#### Alternative 9 -

- i. Sewage sludge shall be injected below the surface of the land.
- ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

#### Alternative 10-

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

#### C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test
PCBs
- once during the term of this permit
- once during the term of this permit

All metal constituents and fecal coliform or *Salmonella* sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC § 312.46(a)(1):

Amount of biosolids (\*)

metric tons per 365-day period Monitoring Frequency

o to less than 290 Once/Year

290 to less than 1,500 Once/Quarter

1,500 to less than 15,000 Once/Two Months

15,000 or greater Once/Month

(\*) The amount of bulk biosolids applied to the land (dry wt. basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC § 312.7

Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.

Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, sewage sludge or biosolids for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

# SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B BIOSOLIDS PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

#### A. Pollutant Limits

#### Table 2

	Cumulative Pollutant Loading Rate
<u>Pollutant</u>	(pounds per acre)*
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

#### Table 3

	Monthly Average
	Concentration
<u>Pollutant</u>	(milligrams per kilogram)*
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

<sup>\*</sup>Dry weight basis

#### **B.** Pathogen Control

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A, Class AB or Class B biosolids pathogen reduction requirements as defined above in Section I.B.3.

#### C. Management Practices

- 1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge or biosolids enters a wetland or other waters in the State.
- 2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
- 3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
- 4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
  - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
  - b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
  - c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

#### **D. Notification Requirements**

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
  - a. The location, by street address, and specific latitude and longitude, of each land application site.
  - b. The approximate time period bulk biosolids will be applied to the site.
  - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
- 2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

#### E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period

of <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met
- 5. The following certification statement:

"I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."

- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
  - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge or biosolids treatment activities.
  - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
  - c. The number of acres in each site on which bulk sludge or biosolids are applied.
  - d. The date and time sludge or biosolids are applied to each site.
  - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
  - f. The total amount of sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

#### F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224).

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
- 3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
- 4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
- 5. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 6. PCB concentration in sludge or biosolids in mg/kg.
- 7. Identity of hauler(s) and TCEQ transporter number.
- 8. Date(s) of transport.
- 9. Texas Commission on Environmental Quality registration number, if applicable.
- 10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
- 11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.

- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
  - a. The location, by street address, and specific latitude and longitude.
  - b. The number of acres in each site on which bulk biosolids are applied.
  - c. The date and time bulk biosolids are applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
  - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

## SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 1) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224), by September  $30_{th}$  of each year.

- E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

- 1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
- 2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

#### G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC224).

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 3. Annual sludge or biosolids production in dry tons/year.
- 4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
- 5. Amount of sludge or biosolids transported interstate in dry tons/year.
- 6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- 7. Identity of hauler(s) and transporter registration number.
- 8. Owner of disposal site(s).
- 9. Location of disposal site(s).
- 10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

## SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

#### A. General Requirements

- 1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
- 2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

#### **B.** Record Keeping Requirements

- 1. For sludge or biosolids transported by an approved pipeline, the permittee must maintain records of the following:
  - a. the amount of sludge or biosolids transported;
  - b. the date of transport;
  - c. the name and TCEQ permit number of the receiving facility or facilities;
  - d. the location of the receiving facility or facilities;
  - e. the name and TCEQ permit number of the facility that generated the waste; and
  - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
- 2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
- 3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

#### **C.** Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224).

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. the annual sludge or biosolids production;
- 3. the amount of sludge or biosolids transported;
- 4. the owner of each receiving facility;
- 5. the location of each receiving facility; and
- 6. the date(s) of disposal at each receiving facility.

TCEQ Revision 06/2020

#### **SPECIAL PROVISIONS:**

- of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.
- 2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category D facility must be operated by a chief operator or an operator holding a Class D\* license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

- \*A Class D Wastewater Treatment Operator license is not renewable for operators of a facility listed in 30 TAC Section 30.342(c) and must be upgraded to a Class C Wastewater Treatment Operator license or higher prior to the expiration date of the Class D license.
- 3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
- 4. The irrigated crops include Bermuda grass (warm season and cool season). Application rates to the irrigated land shall not exceed 0.04 acre-feet/acre/year. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. The records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.
- 5. The permittee shall use cultural practices to promote and maintain the health and propagation of the Bermuda grass crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least once during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.

- 6. The permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply for any area where treated effluent is stored or where there exist hose bibs or faucets. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
- 7. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. Crops or other ground cover shall be established and well maintained in the irrigation area throughout the year for effluent and nutrient uptake by the crop and to prevent pathways for effluent surfacing. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
- 8. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
- 9. The permittee shall construct and maintain earthen berms to prevent runoff from leaving the irrigation site.
- 10. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.
- 11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 12. Irrigation to treated effluent on land with a slope of 10% or greater is prohibited. Irrigation of treated shall be limited to those tracts designated on Attachment A of this permit only after proper grading has been accomplished.
- 13. The permittee shall obtain representative soil samples from the root zones of the land application area. Composite sampling techniques shall be used. Each composite sample shall represent no more than 80 acres with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

Samples shall be analyzed annually according to the following table:

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
рН	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	2:1 (v/v) water to soil mixture	0.01	dS/m (same as mmho/cm)
Nitrate-nitrogen	From a 1 N KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN plus Nitrate-nitrogen		mg/kg (dry weight basis)
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (K)	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K)	mg/kg (dry weight basis)
Amendment addition, e.g., gypsum			Report in short tons/acre in the year effected

A copy of this soil testing plan shall be provided to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 1), the Water Quality Assessment Team (MC 150), and the Compliance Monitoring Team (MC 224) of the Enforcement Division, no later than the end of September of each sampling year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land irrigation site(s) during that year.

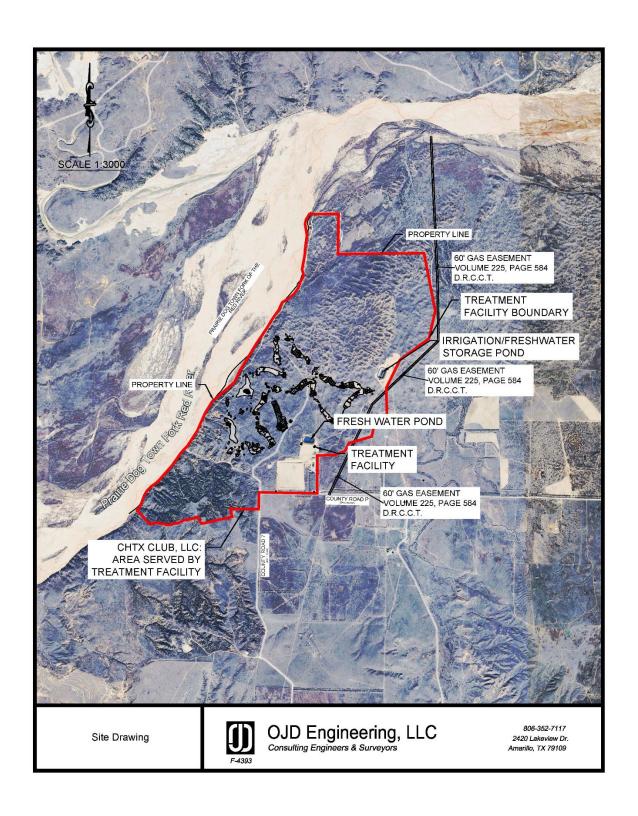
14. Irrigation with effluent shall be accomplished only when the area specified is not in use.

- 15. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems.
- 16. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
- 17. A wastewater treatment plant unit may not be located in wetlands per 30 TAC §309.13(b).
- 18. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a minimum horizontal distance of 250 feet from a private well and a minimum horizontal distance of 500 feet from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.
- 19. The permittee shall comply with the buffer zone requirements of 30 TAC §309.13(c), specifically regarding water wells and waters in the state. The permittee must locate the wastewater irrigation fields a minimum horizontal distance of 500 feet from public water wells, springs, or other similar sources of public drinking water; 150 feet from private water wells; and 100 feet from surface waters in the state.
- 20. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203. New or modified wastewater ponds shall not be put into service until the permittee demonstrates that the pond liners meet the requirements of 30 TAC §217.203. The permittee shall demonstrate that the number, location, and test results of samples collected for geotechnical testing are in accordance with 30 TAC §217.203(d) and (e), and that the liner has a minimum thickness of 3 feet in accordance with 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. The report providing this demonstration shall be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC-Region 1) for review and approval prior to use of the wastewater ponds. If a synthetic liner is to be used, the liner thickness shall be a minimum of 40 mils and be constructed with an underground leak detection system with appropriate sampling points.
- 21. The permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC-Region 1), and the TCEQ Compliance Monitoring Section (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texaslicensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203.
- 22. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the permittee shall inspect the sides and bottom (if visible) of the wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed.
- 23. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ

personnel for inspection and review.

- 24. Prior to construction of the wastewater treatment facilities, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) of the Water Quality Division, a summary transmittal letter according to the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications and a final engineering design report which comply with the requirements of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the permitted effluent limitations required on Page 2? of the permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.
- 25. Reporting requirements according to 30 TAC § 319.1-319.11 and any additional effluent reporting requirements contained in this permit are suspended from the effective date of the permit until plant startup or discharge, whichever occurs first, from the facility described by this permit. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 1) and the Applications Review and Processing Team (MC 148) of the Water Quality Division at least forty-five (45) days prior to plant startup or anticipated discharge, whichever occurs first, on Notification of Completion Form 20007.
- 26. The permittee shall notify the TCEQ Regional Office (MC Region 1) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five (45) days prior to the completion of the new facilities on Notification of Completion Form 20007.
- 27. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
- 28. Monitoring requirements contained in the permit are suspended from the effective date of the permit until plant startup. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 1) and the Applications Review and Processing Team (MC 148) of the Water Quality Division at least forty-five (45) days prior to plant startup.

## Attachment A Site Plan Map WQ0016717001, CHTX Club, LLC and Childress Hall, LLC



### TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

#### DESCRIPTION OF APPLICATION

Applicant: CHTX Club, LLC and Childress Hall, LLC

TCEQ Permit No. WQ0016717001

Regulated Activity: Domestic Wastewater Permit

Type of Application: New Permit

Request: New Permit

Authority: Texas Water Code (TWC) § 26.027; 30 Texas Administrative

Code (TAC) Chapters 305, 309, 312, 319, and 30; and

Commission policies.

#### EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**, according to 30 TAC Section 305.127(1)(C)(ii)(III), Conditions to be Determined for Individual Permits.

#### REASON FOR PROJECT PROPOSED

CHTX Club, LLC and Childress Hall, LLC has applied to the Texas Commission on Environmental Quality (TCEQ) for new Permit No. WQoo16717001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.0099 million gallons per day (MGD) via surface irrigation of 250 acres of public access land/golf course. The facility includes a storage pond with a total surface area of 3.4 acres and total capacity of 42.9 acre-feet for storage of treated effluent prior to irrigation. The proposed wastewater treatment facility will serve the Childress Hall golf course, which includes a hotel, restaurants, and resort amenities.

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

#### PROJECT DESCRIPTION AND LOCATION

The Childress Hall Wastewater Treatment Facility consists of an activated sludge package plant that operates in the extended aeration mode with nitrification. Treatment units include a bar screens, a flow equalization basin, an aeration basin, a secondary clarifier, a chlorine contact basin, and an aerobic digester. The facility has not been constructed.

The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

CHTX Club, LLC and Childress Hall, LLC

Permit No. WQ0016717001

Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

The wastewater treatment facility and disposal site are located at 15641 County Road P in Childress County, Texas 79201.

The wastewater treatment facility and disposal site are located in the drainage basin of Lower Prairie Dog Town Fork Red River in Segment No. 0207 of the Red River Basin. No discharge of pollutants into water in the state is authorized by this permit.

#### **SUMMARY OF EFFLUENT DATA**

There is no effluent data since the facility has not been constructed.

#### DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.0099 MGD via surface irrigation of 250 acres of public access land/golf course. The facility includes a storage pond with a total surface area of 3.4 acres and total capacity of 42.9 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 0.04 acre-feet per year per acre irrigated. The irrigated crops include bermuda grass.

The effluent limitations in the draft permit, based on a daily average, are 20 mg/l biochemical oxygen demand ( $BOD_5$ ) and 20 mg/l total suspended solids (TSS). The effluent limitation in the draft permit, based on a single grab, is 65 mg/l biochemical oxygen demand ( $BOD_5$ ). The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

#### SUMMARY OF CHANGES FROM APPLICATION

None.

#### SUMMARY OF CHANGES FROM EXISTING PERMIT

This is a new permit, therefore there are no changes from a previous permit.

#### BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on January 30, 2025, and additional information received on February 25, 2025.

CHTX Club, LLC and Childress Hall, LLC Permit No. WQ0016717001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

2. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

#### PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Kimberly Kendall, P.E. at (512) 239-

CHTX Club, LLC and Childress Hall, LLC	
Permit No. WQ0016717001	
Statement of Basis/Technical Summary and Executive	Director's Preliminary Decision
4540.	
Kimberly Kendall	May 14, 2025
Kimberly Kendall, P.E.	Date
Municipal Permits Team	
Wastewater Permitting Section (MC 148)	

#### **Leah Whallon**

From: Clint Green <Clint.Green@ojdengineering.com>

Sent: Tuesday, February 25, 2025 1:31 PM

To: Leah Whallon Cc: Che Shadle

**Subject:** Application for Proposed Permit No. WQ0016717001; CHTX Club, LLC; Childress Hall

**Attachments:** Core Data Form - Childress Hall.pdf; TCEQ-10053 Signature Page.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Good afternoon Leah,

Attached are the documents that you requested for Childress Hall, LLC.

Please let me know if you have any questions.

Thank you,

#### Clint Green, Engineering Technician/Designer OJD Engineering, LLC 2420 Lakeview Drive

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell

## Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0016717001 Applicant: Childress Hall, 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): Eric Greytok

Signatory title: Project Manager

Signature:

Date: 2 25 25

(Use blue ink)

Subscribed and Sworn to before me by the said Enc Greent 

[SEAL]

Notary Public

**OLIVIA M FISHER NOTARY PUBLIC** STATE OF TEXAS MY COMM. EXP. 06/02/26

ouress County, Texas



# 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**

. Customer Reference Number (if issued					Other			
	to search	3. Regulated Entity Reference Number (if issued)						
CN	<u>f</u>	Central Reg		RN				
ECTION II: Custome	er Inforn	nation						
. General Customer Information	5. Effective D	ate for Cust	omer Info	rmation	n Updates (mm/d	dd/yyyy)		
New Customer  Change in Legal Name (Verifiable with the	Update to Custom Texas Secretary of S				ange in Regulated E	Entity Owner	ship	
he Customer Name submitted here ma GOS) or Texas Comptroller of Public Acc		tomatically I	based on v	vhat is	current and acti	ve with the	Texas Secr	etary of State
Customer Legal Name (If an individual,		: eg: Doe, Joh	n)		If new Custome	er, enter prev	ious Custome	er below:
nildress Hall, LLC								
7. TX SOS/CPA Filing Number 8. TX State Tax ID (11 digits) 0804917803 32088334217				9. Federal Tax ID  (9 digits)			10. DUNS Number (if applicable)	
. Type of Customer: Corpor	ration			☐ Indivi	92-3581316	Doctores	his D.C.	
vernment: City County Federal	10 8 25 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other		0.00	Individual   Partnership:			eral Limited
. Number of Employees 0-20	1-500	d higher			13. Independ	Tel Research		rated?
Customer Role (Proposed or Actual) – as	s it relates to the Re	egulated Entity	y listed on t	his form	. Please check one	of the follow	ving	
Owner Occupational Licensee Responsible P		er & Operator P/BSA Applica			Othe	er:		
Mailing 124 1/2 Avenue B NW								
dress:  City Childress		State         TX         ZIP         79201         ZIP + 4						
Country Mailing Information (if outside	e USA)		17. E	-Mail A	ddress (if applica	able)		
			egrev	tok@ch	ildresshall.com			

## **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.) Childress Hall, LLC 124 1/2 Avenue B NW 23. Street Address of the Regulated Entity: (No PO Boxes) ZIP + 479201 City ZIP Childress TX State 24. County If no Street Address is provided, fields 25-28 are required. 25. Description to **Physical Location:** Nearest ZIP Code State 26. Nearest City 79201 TX Childress 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). 28. Longitude (W) In Decimal: -100.304113° 27. Latitude (N) In Decimal: 34.531751° Seconds Minutes Seconds Degrees Minutes Degrees 100 18 14.81 54.30 31 34 32. Secondary NAICS Code 30. Secondary SIC Code 29. Primary SIC Code 31. Primary NAICS Code (5 or 6 digits) (5 or 6 digits) (4 digits) (4 digits) 713910 7997 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) Golf/Recreation 124 1/2 Avenue B NW 34. Mailing Address: ZIP+4 ZIP 79201 State TX Childress City egreytok@childresshall.com 35. E-Mail Address: 38. Fax Number (if applicable) 37. Extension or Code 36. Telephone Number (940) 585-8902 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. Industrial Hazardous Waste **Emissions Inventory Air Edwards Aquifer** Districts Dam Safety Page 2 of 2

TCEQ-10400 (11/22)

Municipal Solid \	Waste	New Source Review Air	OSSF			Petroleum Storage Tank	PWS
Sludge		Storm Water	☐ Title V Air			īres	Used Oil
☐ Voluntary Clear	nup	Wastewater	☐ Wastewater Agri	culture	□ v	Vater Rights	Other:
	IV: P	reparer In	formation	41. Title:		Engineering Technician/	Designer
2. Telephone Nu	ımber	43. Ext./Code	44. Fax Number	45. E-M	ail A	ddress	
806 ) 352-7117			(806) 352-7188	clint.gree	n@o	jdengineering.com	
<b>46.</b> By my signature	e below, I cer	tify, to the best of my k the entity specified in S	nowledge, that the infor	mation provide as required for	d in t	his form is true and comp odates to the ID numbers	olete, and that I have signature authoridentified in field 39.
Company:	Childress	Hall, LLC		Job Title:		Project Manager	
lame (In Print):	Eric Grey	tok				Phone:	( 940 ) 585- <b>8902</b>
Signature:	6	15/15				Date:	2/25/25

#### **Leah Whallon**

From: Clint Green <Clint.Green@ojdengineering.com>

Sent: Tuesday, February 11, 2025 3:19 PM

To: Leah Whallon Cc: Che Shadle

**Subject:** RE: Application for Proposed Permit No. WQ0016717001; CHTX Club, LLC; Childress Hall

**Attachments:** Administrative NOD Response Letter.pdf; 5 - Mailing Labels - Land Owners.docx

Follow Up Flag: Follow up Flag Status: Flagged

Good afternoon Leah,

Attached are the responses to the Notice of Deficiency letter dated February 7, 2025 requesting additional information. I have attached the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document.

Please feel free to contact me if you have any questions.

Thank you,

### Clint Green, Engineering Technician/Designer OJD Engineering, LLC

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell

From: Che Shadle < Che. Shadle @ojdengineering.com>

Sent: Friday, February 7, 2025 4:12 PM

To: Clint Green < Clint.Green@ojdengineering.com>

Subject: FW: Application for Proposed Permit No. WQ0016717001; CHTX Club, LLC; Childress Hall

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>

Sent: Friday, February 7, 2025 4:06 PM

To: Che Shadle < Che. Shadle@ojdengineering.com>

Cc: egreytok@childresshall.com

Subject: Application for Proposed Permit No. WQ0016717001; CHTX Club, LLC; Childress Hall

Good Afternoon,

Please see the attached Notice of Deficiency letter dated February 7, 2025 requesting additional information needed to declare the application administratively complete. Please send the complete response by February 21, 2025.

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 <a href="https://www.tceq.texas.gov/customersurvey">www.tceq.texas.gov/customersurvey</a>



Febrary 11, 2025

Ms. Leah Whallon TCEQ Applications Review and Processing Team (MC148) P.O. Box 13087 Austin, TX 78711

Re: Administrative Notice of Deficiency Email

Application for Proposed Permit No.: WQ0016717001 Applicant Name: CHTX Club, LLC (CN606347763)

Site Name: Childress Hall (RN112130869)

Type of Application: New

#### VIA EMAIL

Dear Ms. Whallon:

Attached are the responses to each of the adminstrative comments for the CHTX Club, LLC sent via email on February 7, 2025. I have provided a response to each comment along with the corresponding documents.

Sincerely,

Clint Green



#### **Deficiency Descriptions/Resolutions**

1. Administrative Report 1.0, Section 8.D

The public viewing location must be a building that is supported by taxpayer funds. Please provide a revised page to list a public viewing location in the county where the facility will be located.

Adminstrative Report 1.0, Section 8.D has been revised to include a public viewing location that is supported by taxpayer funds. Please see attached the revised Adminstrative Report 1.0, Section 8.D.

2. Administrative Report 1.0, Section 8.F

The plain language summary does not list the proposed output (flow) for the facility. Please provide a revised summary that lists the flow. Please also include the now assigned RN and CN numbers referenced in the subject above.

Adminstrative Report 1.0, Section 8.F has been revised to list the output (flow) for the facility, as well as the assigned RN and CN numbers referenced. Please see attached the revised Adminstrative Report 1.0, Section 8.F.

3. Administrative Report 1.0, Section 9.D-E

The affected landowner map indicates the owner of the land where the facility and disposal site will be located is owned by Childress Hall LLC. This is not consistent with the application which lists the owner of the land as the applicant, CHTX Club, LLC. If the applicant does not own the land, where the facility and/or disposal site will be located, they must provide an executed lease agreement or deed recorded easement. Alterntively, the owner can apply as a co-applicant. Please clarify and revise the application appropriately.

Administrative Report 1.0, Section 3 has been revised to list Childress Hall, LLC as the co-owner. The two entities (Childress Hall, LLC and CHTX Club, LLC) are both owned by CHTX Holdings, LLC. Please see attached the revised Administrative Report 1.0, Section 3.

4. Administrative Report 1.0, Section 9.F

ph: 806 352.7117

No sludge disposal is proposed on the land owned or controlled by the applicant. Please provide a revised page to remove the owner information or list "n/a" for this item.

Wolfforth | Amarillo



Administrative Report 1.0, Section 9.F has been revised to list n/a for the items in this section. Please see attached the revised Administrative Report 1.0, Section 9.F.

5. Administrative Report 1.1, Section 1

The affected landowner map does not label all properties adjacent to the applicant's property boundaries and disposal site boundaries. Please provide a revised landowner map that numbers each property adjacent to the applicant's property boundaries. Please include an updated cross-reference landowner list and the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document.

A revised landowner map has been provided to label all adjacent properties to the applicanat's property boundaries and disposal site boundaries which includes numbers to each property adjacent to the applicant's property boundaries. An updated cross-refernce landowner list and mailing labels in a Microsoft Word document are provided. Please see attached.

6. 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 errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. CHTX Club, LLC, P.O. Box 298, Childress, Texas 79201, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016717001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 9,999 gallons per day via irrigation of 250 acres of public access land. The domesctic wastewater treatment facility and disposal area will be located at 15641 County Road P, near the city of Childress, in Childress County, Texas 79201. TCEQ received this application on January 30, 2025. The permit application will be available for viewing and published in the newspaper. The application, including and updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-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=-100.3041,34.531751&level=18

Further information may also be obtained from CHTX Club, LLC at the address stated above or by calling Mr. Eric Greytok, Project Manager, at 940-585-8902.

Wolfforth | Amarillo

Engineering Firm # 4393 - Surveying Firm # 10090900

ph: 806 352.7117



The information in the NORI has been read for errors and omissions. Upon review, no errors or omissions were noticed.

fax: 806 352.7188

Organization Name: CHTX Club, LLC Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201 E-mail Address: egreytok@childresshall.com Phone No.: 940.585.8902 **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: Childress City Hall Location within the building: Front Desk Physical Address of Building: 315 Commerce Street City: Childress County: Childress Contact (Last Name, First Name): Kevin Hodges Phone No.: 940.732.6011 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  $\boxtimes$ No 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)? No Yes 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. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.



#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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.

CHTX Club, LLC CN606347763 proposes to operate CHTX Club, LLC Wastewater Treatment Facility RN112130869, a domestic on site treatment plant. The facility is located at 15641 County Road P, in Childress, Childress County, Texas 79201. CHTX Club, LLC will receive domestic wastewater from Childress Golf Village Childress, Texas for treatment and disposal. This permit will not authorize a discharge of pollutants into water in the state. << For TLAP applications include the following sentence, otherwise delete:>>

Discharges from the facility are expected to contain domestic wastewater pollutants. The proposed output (flow) will be 0.0099 MGD. Watewater will be treated by an activated sludge package plant that operates in a single state nitrification mode The package plant process unit will include preliminary screening, flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester.

		Subsurface Area Drip Dispersa	l System (SADDS	S)	
d.	Che	eck the box next to the appropria	ate application t	yp	e
	$\boxtimes$	New			
		Major Amendment with Renewa	al E		Minor Amendment <u>with</u> Renewal
		Major Amendment without Ren	ewal [	]	Minor Amendment <u>without</u> Renewal
		Renewal without changes		]	Minor Modification of permit
e.	For	amendments or modifications, o	describe the pro	po	sed changes: Click to enter text.
f.	For	existing permits:			
	Peri	mit Number: WQ00 Click to ente	r text.		
		I.D. (TPDES only): TX Click to ea			
		iration Date: Click to enter text.			
	r				
Se	ctio	on 3. Facility Owner (A	pplicant) an	d	Co-Applicant Information
		(Instructions Page			
A.	The	e owner of the facility must app	oly for the perm	ut.	
	Wha	at is the Legal Name of the entity	v (applicant) app	olyi	ing for this permit?
	CH'	ΓΧ Club, LLC			
		e legal name must be spelled exa legal documents forming the ent		ı tk	ne Texas Secretary of State, County, or in
					, what is the Customer Number (CN)? http://www15.tceq.texas.gov/crpub/
	(	CN: Click to enter text.			
		at is the name and title of the pecutive official meeting signatory			pplication? The person must be an <i>O TAC § 305.44</i> .
	-	Prefix: Click to enter text.	Last Name, Fir	st ]	Name: <u>Greytok, Eric</u>
		Title: <u>Project Manager</u>	Credential: Cli	ck	to enter text.

**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?

#### Childress Hall, LLC

(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: <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>

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: <u>Gretytok, Eric</u>

Title: <u>Project Manager</u> Credential: Click to enter text.

Provide a brief description of the need for a co-permittee: <u>The two entities (Childress Hall, LLC and CHTX Club, LLC)</u> are both owned by CHTX Holdings, LLC. .

#### 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. A-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: Click to enter text. Last Name, First Name: Grevtok, Eric

Title: <u>Project Manager</u> Credential: Click to enter text.

Organization Name: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: 940.585.8902 E-mail Address: egreytok@childresshall.com

Check one or both:  $\square$  Administrative Contact  $\boxtimes$  Technical Contact

**B.** Prefix: Click to enter text. Last Name, First Name: Shadle, Che

Title: <u>P.E., President</u> Credential: Click to enter text.

Organization Name: OJD Engineering, LLC

Mailing Address: <u>2420 Lakeview Drive</u> City, State, Zip Code: <u>Amarillo, TX 79109</u>

Phone No.: 806.352.7117 E-mail Address: che.shadle@ojdengineering.com

Check one or both:

#### 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: Click to enter text. Last Name, First Name: Green, Clint

Title: Engineering Technician/Designer Credential: Click to enter text.

Organization Name: OJD Engineering, LLC

Mailing Address: 2420 Lakeview Drive City, State, Zip Code: Amarillo, TX 79109

Phone No.: 806.352.7117 E-mail Address: clint.green@ojdengineering.com

**B.** 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.

Attachment: A-2

#### 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: A-3

## 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** Click to enter text.

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

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

C.	Owner of treatment fac	cility	: Childres	ss Hall, L	<u>LC</u>		
	Ownership of Facility:		Public		Private	Both	Federal

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

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: Childress Hall, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: <u>940.585.8902</u> E-mail Address: <u>egreytok@childresshall.com</u>

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

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

Organization Name: Childress Hall, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: <u>940.585.8902</u> E-mail Address: <u>egreytok@childresshall.com</u>

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.

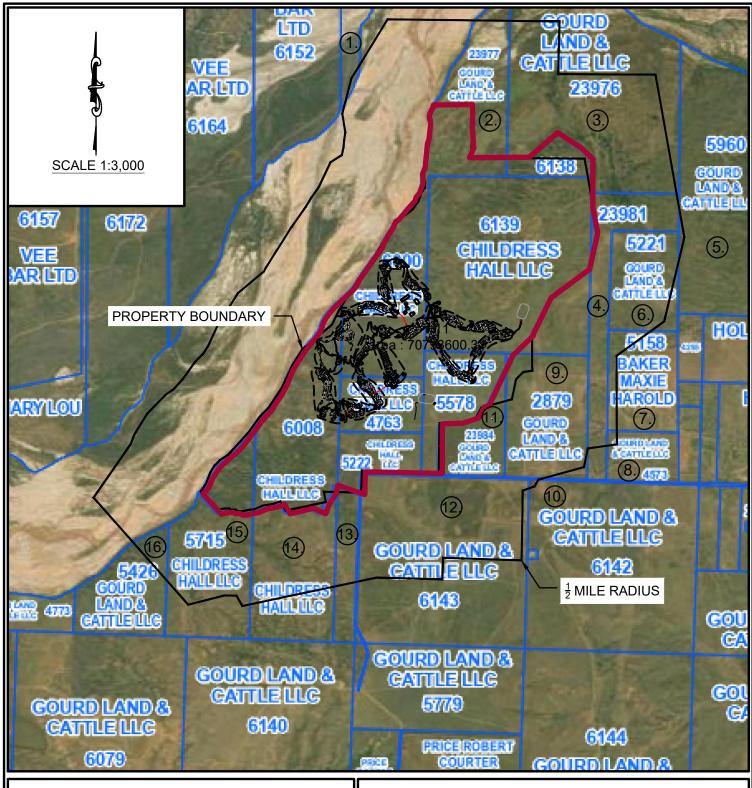
**F.** Owner sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant)::

Prefix: <u>N/A</u> Last Name, First Name: <u>N/A</u>

Title: N/A Credential: N/A

Mailing Address: N/A City, State, Zip Code: N/A Phone No.: N/A E-mail Address: N/A 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: N/A Section 10. TPDES Discharge Information (Instructions Page 31) **A.** Is the wastewater treatment facility location in the existing permit accurate? Yes If **no**, **or a new permit application**, please give an accurate description: Click to enter text. **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: Click to enter text. City nearest the outfall(s): Childress County in which the outfalls(s) is/are located: Childress 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?  $\boxtimes$ 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 If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

Organization Name: N/A



Adjacent Landowner Map



OJD Engineering, LLC

The Benchmark

F-4393

Amarillo | Wolfforth www.OJDEngineering.com





#### ADJACENT LANDOWNERS

- Vee Bar LTD
   PO Box 1179
   Kermit, TX 79745
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- 7. Maxie and Harlod Baker PO Box 144 Wildorado, TX 79098
- 8. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201

Wolfforth | Amarillo



- 10. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- 11. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- 12. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- 13. Childress Hall LLC PO Box 298 Childress, TX 79201
- 14. Childress Hall LLC PO Box 298 Childress, TX 79201
- 15. Childress Hall LLC PO Box 298 Childress, TX 79201
- 16. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201

VEE BAR LTD	GOURD LAND & CATTLE LLC	GOURD LAND & CATTLE LLC
PO BOX 1179	1547 CR 8	1547 CR 8
KERMIT, TX 79745	CHILDRESS, TX 79201	CHILDRESS, TX 79201
GOURD LAND & CATTLE LLC	GOURD LAND & CATTLE LLC	GOURD LAND & CATTLE LLC
1547 CR 8	1547 CR 8	1547 CR 8
CHILDRESS, TX 79201	CHILDRESS, TX 79201	CHILDRESS, TX 79201
MAXIE AND HAROLD BAKER	GOURD LAND & CATTLE LLC	GOURD LAND & CATTLE LLC
PO BOX 144	1547 CR 8	1547 CR 8
WILDORADO, TX 79098	CHILDRESS, TX 79201	CHILDRESS, TX 79201
GOURD LAND & CATTLE LLC	GOURD LAND & CATTLE LLC	GOURD LAND & CATTLE LLC
1547 CR 8	1547 CR 8	1547 CR 8
CHILDRESS, TX 79201	CHILDRESS, TX 79201	CHILDRESS, TX 79201
CHILDRESS HALL LLC	CHILDRESS HALL LLC	CHILDRESS HALL LLC
PO BOX 298	PO BOX 298	PO BOX 298
CHILDRESS, TX 79201	CHILDRESS, TX 79201	CHILDRESS, TX 79201

GOURD LAND & CATTLE LLC 1547 CR 8 CHILDRESS, TX 79201

# THE TOWN STORY OF THE PROPERTY OF THE PROPERTY

#### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

#### Complete and submit this checklist with the application.

APPLICANT	NAMF.	CHTX	Club	IIC
AFFLICANI	INAME.	$C\Pi I\Lambda$	Ciub,	LLC

PERMIT NUMBER (If new, leave blank): WQ00Click to enter text.

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

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

For TCEQ Use Only	
	County
Expiration Date	Kegion
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 <b>,</b> 250.00 □	\$1,215.00
$\geq$ 0.50 but <1.0 MGD	\$1 <b>,</b> 650.00 □	\$1,615.00
≥1.0 MGD	\$2,050.00 <b>□</b>	\$2,015.00

Minor Amendment (for any flow) \$150.00 □

Payment Information	n
---------------------	---

Mailed Check/Money Order Number: 1025 Check/Money Order Amount: \$350.00 Name Printed on Check: CHTX Club, LLC **EPAY** Voucher Number: Click to enter text.

Yes 🗆 Copy of Payment Voucher enclosed?

#### Section 2. Type of Application (Instructions Page 26)

a.	Che	ck the box next to the appropriate authorization type.
		Publicly Owned Domestic Wastewater
	$\boxtimes$	Privately-Owned Domestic Wastewater
		Conventional Water Treatment
b.	Check the box next to the appropriate facility statu	
		Active 🗵 Inactive
c.	Check the box next to the appropriate permit type.	
		TPDES Permit
	$\boxtimes$	TLAP
		TPDES Permit with TLAP component

		Subsurface Area Drip Dispersal	System (SADD)	S)	
d.	Che	eck the box next to the appropria	te application t	yp	e
	$\boxtimes$	New			
		Major Amendment with Renewa	ıl		Minor Amendment with Renewal
		Major Amendment <u>without</u> Ren	ewal [		Minor Amendment <u>without</u> Renewal
		Renewal without changes			Minor Modification of permit
e.	For	amendments or modifications, o	lescribe the pro	po	sed changes: Click to enter text.
f.	For	existing permits:			
	Per	mit Number: WQ00 Click to enter	c text.		
	EPA	A I.D. (TPDES only): TX Click to en	iter text.		
	Exp	oiration Date: Click to enter text.			
Se	ectio			d	Co-Applicant Information
		(Instructions Page	26)		
A.	The	e owner of the facility must app	ly for the perm	nit.	
	Wha	at is the Legal Name of the entity	(applicant) app	olyi	ing for this permit?
	CH'	TX Club, LLC			
		e legal name must be spelled exa- legal documents forming the ent		h tł	ne Texas Secretary of State, County, or in
					, what is the Customer Number (CN)? http://www15.tceq.texas.gov/crpub/
		CN: Click to enter text.			
		at is the name and title of the pecutive official meeting signatory			pplication? The person must be an <i>0 TAC § 305.44</i> .
		Prefix: Click to enter text.	Last Name, Fir	st	Name: <u>Greytok, Eric</u>
		Title: <u>Project Manager</u>	Credential: Cli	ck	to enter text.
_	_				

**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: <a href="http://www15.tceq.texas.gov/crpub/">http://www15.tceq.texas.gov/crpub/</a>

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. <u>A-1</u>

### 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: Click to enter text. Last Name, First Name: <u>Greytok, Eric</u>

Title: <u>Project Manager</u> Credential: Click to enter text.

Organization Name: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: 940.585.8902 E-mail Address: egreytok@childresshall.com

Check one or both: ☐ Administrative Contact ☐ Technical Contact

**B.** Prefix: Click to enter text. Last Name, First Name: Shadle, Che

Title: P.E., President Credential: Click to enter text.

Organization Name: OJD Engineering, LLC

Mailing Address: <u>2420 Lakeview Drive</u> City, State, Zip Code: <u>Amarillo, TX 79109</u>

Phone No.: 806.352.7117 E-mail Address: che.shadle@ojdengineering.com

Check one or both:  $\square$  Administrative Contact  $\square$  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: Click to enter text. Last Name, First Name: Green, Clint

Title: Engineering Technician/Designer Credential: Click to enter text.

Organization Name: OJD Engineering, LLC

Mailing Address: <u>2420 Lakeview Drive</u> City, State, Zip Code: <u>Amarillo, TX 79109</u>

Phone No.: 806.352.7117 E-mail Address: clint.green@ojdengineering.com

**B.** 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.

### 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: Click to enter text. Last Name, First Name: Grevtok, Eric

Title: <u>Project Manager</u> Credential: Click to enter text.

Organization Name: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: <u>940.585.8902</u> E-mail Address: <u>egreytok@childresshall.com</u>

### 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: Click to enter text. Last Name, First Name: Grevtok, Eric

Title: <u>Project Manager</u> Credential: Click to enter text.

Organization Name: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: 940.585.8902 E-mail Address: egreytok@childresshall.com

### Section 8. Public Notice Information (Instructions Page 27)

### A. Individual Publishing the Notices

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

Title: <u>Project Manager</u> Credential: Click to enter text.

Organization Name: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: 940.585.8902 E-mail Address: egreytok@childresshall.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: Click to enter text. Last Name, First Name: Greytok, Eric

Title: Project Manager Credential: Click to enter text.

Organization Name: CHTX Club, LLC Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201 E-mail Address: egreytok@childresshall.com Phone No.: 940.585.8902 **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: CHTX Club, LLC Location within the building: Front Desk Physical Address of Building: 15641 County Road P City: Childress County: Childress Contact (Last Name, First Name): Grevtok, Eric Phone No.: 940.585.8902 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  $\boxtimes$ No 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)? No Yes 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. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972),

also known as the plain language summary or PLS, and include as an attachment.

Attachment: A-2

### 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: A-3

## 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** Click to enter text.

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

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

C.	Owner of treatment fac	cility	: CHTX C	lub, LLC				
	Ownership of Facility:		Public	$\boxtimes$	Private	Both	Fed	era

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

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: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: <u>940.585.8902</u> E-mail Address: <u>egreytok@childresshall.com</u>

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

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

Organization Name: CHTX Club, LLC

Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201

Phone No.: <u>940.585.8902</u> E-mail Address: <u>egrevtok@childresshall.com</u>

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: <u>Greytok, Eric</u>

Title: <u>Project Manager</u> Credential: Click to enter text.

Organization Name: CHTX Club, LLC Mailing Address: PO Box 298 City, State, Zip Code: Childress, TX 79201 Phone No.: 940.585.8902 E-mail Address: egreytok@childresshall.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. Section 10. TPDES Discharge Information (Instructions Page 31) **A.** Is the wastewater treatment facility location in the existing permit accurate? Yes If **no**, **or a new permit application**, please give an accurate description: Click to enter text. **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: Click to enter text. City nearest the outfall(s): Childress County in which the outfalls(s) is/are located: Childress 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?  $\boxtimes$ 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 If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

15641 County Road P Childress, TX 79201, Disposal will occur through watering of golf course. **B.** City nearest the disposal site: Childress **C.** County in which the disposal site is located: Childress **D.** For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site: Waste water for the facility will be collected then go through a preliminary screening, then flow equalization/hydraulic retention, then to an aeration basin, then secondary clarifier, then to chlorine contact chamber/chemical disinfection, then to aerobic digester, and ultimately to outfall, irrigation pond, and golf course. E. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Grassy Creek-Prairie Dog Town Fork Red River Section 12. Miscellaneous Information (Instructions Page 32) A. Is the facility located on or does the treated effluent cross American Indian Land?  $\boxtimes$ 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?  $\boxtimes$ □ 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. Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin. Sludge will be disposed in City Landfill. 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 TCEO 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  $\boxtimes$ No If **ves**, 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.

# 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: CHTX Club, 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): Eric Greytok

Signatory title: Project Manager

Signature:

(Use blue ink)

Subscribed and Sworn to before me by the said Lyic

on this

day of

TCEQ-10053 (10/17/2024) Domestic Wastewater Permit Application Administrative Report

My commission expires on the

[SEAL]

County, Texas

## DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

following information, as applicable:

### Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the

	$\boxtimes$	The applicant's property boundaries
	$\boxtimes$	The facility site boundaries within the applicant's property boundaries
	$\boxtimes$	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
	$\boxtimes$	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
	$\boxtimes$	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
	$\boxtimes$	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
В.	⊠ add	Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided.
C.		Indicate by a check mark that the landowners list has also been provided as mailing ls in electronic format (Avery 5160).
D.	Prov <u>Dist</u>	ride the source of the landowners' names and mailing addresses: <u>Childress County Appraisa</u> rict
Ε.		equired by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by application?

No

□ Yes

	If <b>yes</b> land(	s, provide the location and foreseeable impacts and effects this application has on the s):
	Clicl	k to enter text.
Se	ction	n 2. Original Photographs (Instructions Page 38)
		original ground level photographs. Indicate with checkmarks that the following ion is provided.
		At least one original photograph of the new or expanded treatment unit location
		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.
		At least one photograph of the existing/proposed effluent disposal site
		A plot plan or map showing the location and direction of each photograph
Se	ction	1 3. Buffer Zone Map (Instructions Page 38)
A.	infor	r zone map. Provide a buffer zone map on $8.5 \times 11$ -inch paper with all of the following mation. The applicant's property line and the buffer zone line may be distinguished by 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.
В.		r zone compliance method. Indicate how the buffer zone requirements will be met. k all that apply.
		Ownership
		Restrictive easement
		Nuisance odor control
		Variance
C.		itable site characteristics. Does the facility comply with the requirements regarding itable site characteristic found in 30 TAC § 309.13(a) through (d)?
		Yes   No

# 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: A-7

### **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) (Required for all application types. Must be completed in its entirety a Note: Form may be signed by applicant representative.)	igned.		Yes	
Correct and Current Industrial Wastewater Permit Application Forms (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or late				Yes
Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for	· mai	ling add	⊠ dress.	Yes .)
7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments)			$\boxtimes$	Yes
Current/Non-Expired, Executed Lease Agreement or Easement	$\boxtimes$	N/A		Yes
Landowners Map (See instructions for landowner requirements)		N/A	$\boxtimes$	Yes
<ul> <li>Things to Know:</li> <li>All the items shown on the map must be labeled.</li> <li>The applicant's complete property boundaries must be de boundaries of contiguous property owned by the applican</li> <li>The applicant cannot be its own adjacent landowner. You landowners immediately adjacent to their property, regard from the actual facility.</li> <li>If the applicant's property is adjacent to a road, creek, or son the opposite side must be identified. Although the propapplicant's property boundary, they are considered potent if the adjacent road is a divided highway as identified on the map, the applicant does not have to identify the landowner the highway.</li> </ul>	t. must dless strea perti- tially the U	t idention of how the sare reasonable affects	fy the far the landon and landon	e they are owners ljacent to downers. aphic
Landowners Labels and Cross Reference List (See instructions for landowner requirements)		N/A		Yes
Electronic Application Submittal (See application submittal requirements on page 23 of the instruction	ıs.)		$\boxtimes$	Yes
Original signature per 30 TAC § 305.44 – Blue Ink Preferred (If signature page is not signed by an elected official or principle exec a copy of signature authority/delegation letter must be attached)	rutive	e officer	$\boxtimes$	Yes

Summary of Application (in Plain Language)

Yes

# Attachment: ADMINISTRATIVE REPORT 1.0 – 4.a. A-1. CORE DATA FORM (TCEQ FORM 10400)

TCEQ	Use	Only
		~,



## **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	Submiss	ion (If other is checked	please describe	in space pr	ovided.	)					
New Pern	nit, Registr	ation or Authorization	(Core Data Form	should be	submitt	ed wit	h the prog	ram application.)			
Renewal (Core Data Form should be submitted with the renewal form)							Other				
2. Customer	Reference	e Number (if issued)		ollow this l			3. Reg	gulated Entity Re	ference	Number (if	issued)
CN for CN or RN num Central Registr							RN				67
SECTION	u TT.	Customer	Inform	ation	,						
JECITOI	4 441	Custonici	ZIII OI III	acion	4.8						
4. General Cu	ıstomer lı	nformation	5. Effective D	ate for Cu	ustome	er Info	ormation	Updates (mm/dd/	уууу)		T
New Custor	mer	□ U	pdate to Custom	ner Informa	tion		☐ Chan	nge in Regulated Ent	ity Own	ership	
☐Change in Le	egal Name	(Verifiable with the Tex	as Secretary of S	State or Tex	as Com	ptrolle	er of Public	: Accounts)			
The Custome	r Name s	ubmitted here may l	be updated au	tomatical	ly base	ed on	what is c	urrent and active	with th	ne Texas Sec	retary of State
(SOS) or Texa	s Comptr	oller of Public Accou	nts (CPA).								
6. Customer	Legal Nar	ne (If an individual, pri	nt last name firs	t: eg: Doe, J	lohn)			If new Customer,	enter pre	evious Custon	ner below:
CHTX Club, LLC			£ £	7/							
7. TX SOS/CP	A Filing N	lumber	8. TX State Ta	ax <b>ID</b> (11 d	igits)			9. Federal Tax ID 10. DUNS Number (			
0805130095			32090624514					(9 digits) applicable)			
								92-3581316			
11. Type of C	ustomer:	Corporat	ion				☐ Individ	l lual	Partne	ership: 🔲 Gei	neral Limited
Government:	City 🔲	County 🔲 Federal 🔲	Local  State [	Other			Sole P	roprietorship	⊠ Ot	her: LLC	
12. Number o	of Employ	/ees	Ultraga vive en					13. Independer	ntly Ow	ned and Op	erated?
0-20 🗆 2	21-100	101-250 251-	500 🔲 501 a	nd higher				☐ Yes	☐ No		
14. Customer	r Role (Pro	pposed or Actual) – as i	t relates to the R	egulated Er	ntity list	ted on	this form.	Please check one of	the follo	owing	
Owner		Operator		er & Opera				Other:			
Occupation	al Licensee	Responsible Par	rty 🔲 Vo	CP/BSA App	olicant			☐ Other.			
15. Mailing	PO Box 2	298		5							
Address:											
Address.	City	Childress		State	TX		ZIP	79201		ZIP + 4	
16. Country N	Mailing In	formation (if outside	USA)		1	17.	E-Mail Ad	ddress (if applicable	e)		
						egreytok@childresshall.com					

( 940 ) 585-8902						( )	-		
SECTION III:	Regula	ated Ent	ity Inform	nation	1				
21. General Regulated En	tity Informa	tion (If 'New Reg	gulated Entity" is selec	ted, a new p	ermit applic	ation is als	o required.)		
New Regulated Entity     ■	Update to	Regulated Entity	Name	o Regulated	Entity Infor	mation			
The Regulated Entity Nar as Inc, LP, or LLC).	ne submitte	d may be upda	ted, in order to mee	et TCEQ Co	re Data Sto	andards (r	removal of or	ganization	al endings such
22. Regulated Entity Nam	ne (Enter nam	e of the site wher	e the regulated action	is taking plo	ace.)				
CHTX Club, LLC									
23. Street Address of the Regulated Entity:	15641 Cour	ty Rd 7							
(No PO Boxes)	City	Childress	State	TX	ZIP	79201	T	ZIP + 4	T
24. County	City	Ginuress	State	1		, , , , ,			
24. County									
		If no Stre	et Address is provid	led, fields 2	25-28 are r	equired.			
25. Description to			iles West of Childress						
Physical Location:	Road 10 and	l travel 2.5 miles	West on County Road	P to the enti	rance of the	Childress 6	Golf Village, Chi	ldress Coun	ty, Texas.
26. Nearest City						State		Nea	rest ZIP Code
Childress						TX		7920	)1
Latitude/Longitude are re used to supply coordinate					Data Stand	lards. (Ge	ocoding of th	e Physical	Address may be
27. Latitude (N) In Decim	al:	34.531751°		28. L	ongitude (	W) In Dec	cimal:	-100.304	113°
Degrees	Minutes		Seconds	Degre	ees		Minutes		Seconds
34		31	54.30		100		18		14.81
29. Primary SIC Code		Secondary SIC	Code	31. Prima (5 or 6 digi	ry NAICS C	code	<b>32. Seco</b> (5 or 6 dig	ndary NAI	CS Code
(4 digits)	(4 a	igits)	*	713910			(5 or o dig		
7997	undinger of t	hin autiku:2 (a	- not remont the 010		eintine 1				
33. What is the Primary B	usiness of t	nis entity? (De	o not repeat the SIC or	NAICS desci	πρτιοn.)				
Golf/Recreation									
34. Mailing	PO Box 298	В							
Address:		1		1			т		
	City	Childress	State	тх	ZIP	79201		ZIP + 4	
35. E-Mail Address:	egre	ytok@childressh	all.com						
36. Telephone Number	<del></del>		37. Extension or 0	Code	38.	Fax Numb	oer (if applicab	le)	
( 940 ) 585-8902					(	) -			

19. Extension or Code

20. Fax Number (if applicable)

18. Telephone Number

☐ Dam Safety		Districts	Edwards Aquifer	TF	Emissions Ir	ventory Air	Industrial Hazardous Waste	
		Districts					- Industrial Huzardous Waste	
		New Source						
Municipal Soli	d Waste	Review Air	OSSF	L	Petroleum S	torage Tank	PWS	
Sludge		Storm Water	☐ Title V Air		Tires		Used Oil	
							- Cosca on	
☐ Voluntary Clea	nup	<b>⊠</b> Wastewater	☐ Wastewater Agriculture		☐ Water Rights		Other:	
ECTION	IV: Pr	eparer Inf	ormation	•				
<b>10. Name:</b> C	int Green			41. Title: Engineerin		g Technician/Designer		
12. Telephone Nu	ımber	43. Ext./Code	44. Fax Number	45. E-Mail Address				
806 ) 352-7117			( 806 ) 352-7188 clint.green@ojdengii			ing.com		
ECTION	V: Au	thorized S	<u>Signature</u>					
			owledge, that the information				e, and that I have signature authority entified in field 39.	
Company:	CHTX Club	o, LLC		Job Title: Project M		1anager		
Name (In Print):	Eric Greyt	ok				Phone:	( 940 ) 585- <b>8902</b>	
Signature:	6	27	A			Date:	1/22/2025	
		W						

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

# Attachment: ADMINISTRATIVE REPORT 1.0 – 9.f. A-2. PLAIN LANGUAGE TEMPLATE (TCEQ FORM 20972)



### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

# SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

# Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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.

CHTX Club, LLC (2. Enter Customer Number here (i.e., CN6#######)) proposes to operate CHTX Club, LLC Wastewater Treatment Facility (5. Enter Regulated Entity Number here (i.e., RN1#######)), a domestic on site treatment plant. The facility is located at 15641 County Road P, in Childress, Childress County, Texas 79201. CHTX Club, LLC will receive domestic wastewater from Childress Golf Village Childress, Texas for treatment and disposal. This permit will not authorize a discharge of pollutants into water in the state. << For TLAP applications include the following sentence, otherwise delete:>>

Discharges from the facility are expected to contain domestic wastewater pollutants. Watewater will be treated by an activated sludge package plant that operates in a single state nitrification mode The package plant process unit will include preliminary screening, flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester.

## 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.

# Attachment: ADMINSTRATIVE REPORT 1.0 – 9.g. A-3. PUBLIC INVOLVEMENT PLAN (PIP) (TCEQ FORM 20960)

### 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.

TCEQ-20960 (02-09-2023)

### 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

D ' 1	1 1		C 1 1	
Provide 3	hrigt d	accrintion	of planned	activation
I I OVIUE a	титет и	CSCLIDUOL	от планиси	activities.

### 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.

language notice is n	ecessary. Please pro	ovide the following info	ormation.	
(City)				
(County)				
(Census Tract) Please indicate which City	of these three is the County	e level used for gatherin Census Tract	ng the following informat	tion.
(a) Percent of people	over 25 years of age	e who at least graduated	from high school	
- -		the specified location	race within the specified	location
(d) Percent of Linguis	stically Isolated Hous	seholds by language wit	hin the specified locatior	1
(e) Languages commo	only spoken in area l	by percentage		
(f) Community and/o	or Stakeholder Group	os		
(g) Historic public int	terest or involvemen	t		

### 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?

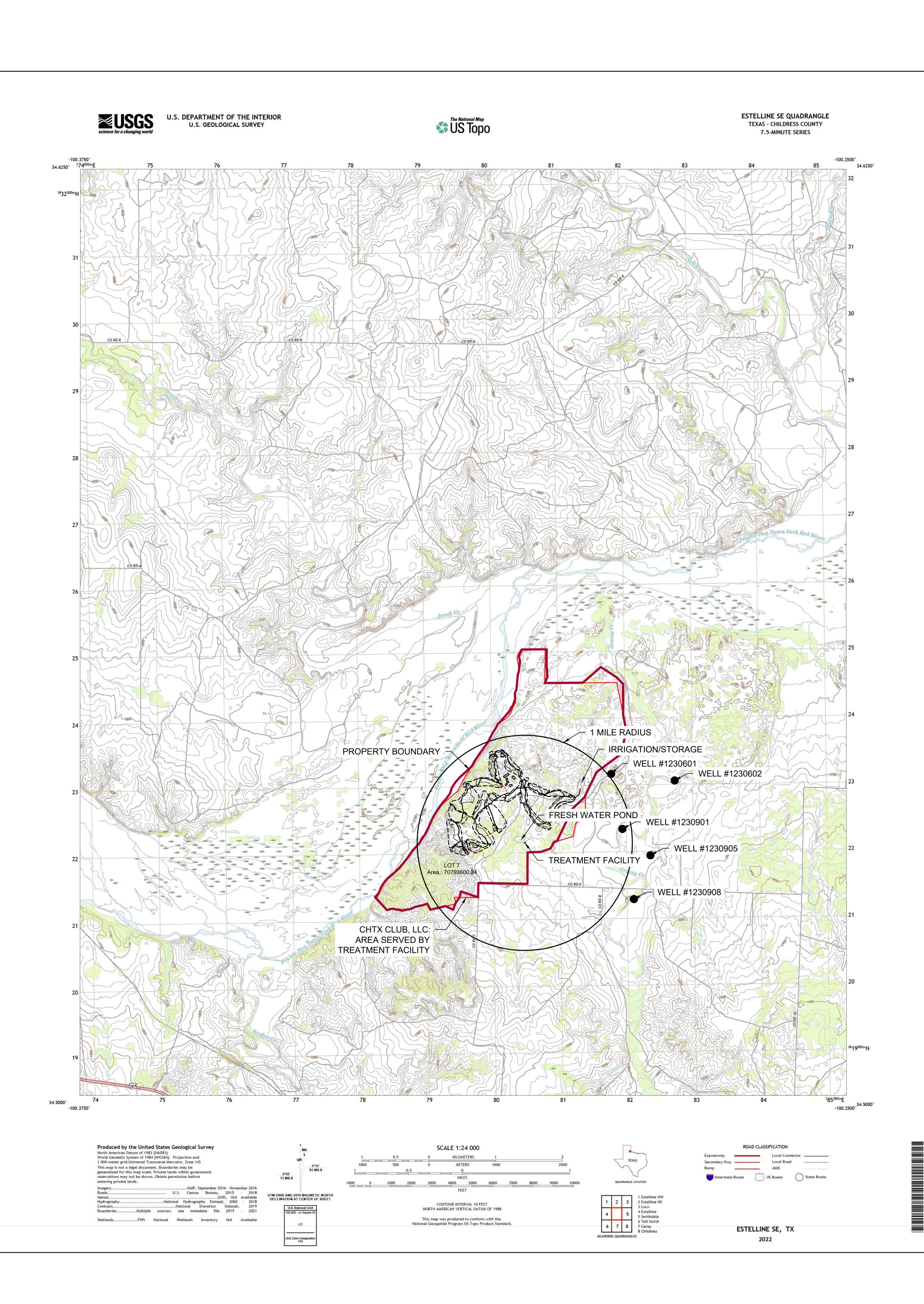
Publish in alternative language newspaper

Posted on Commissioner's Integrated Database Website

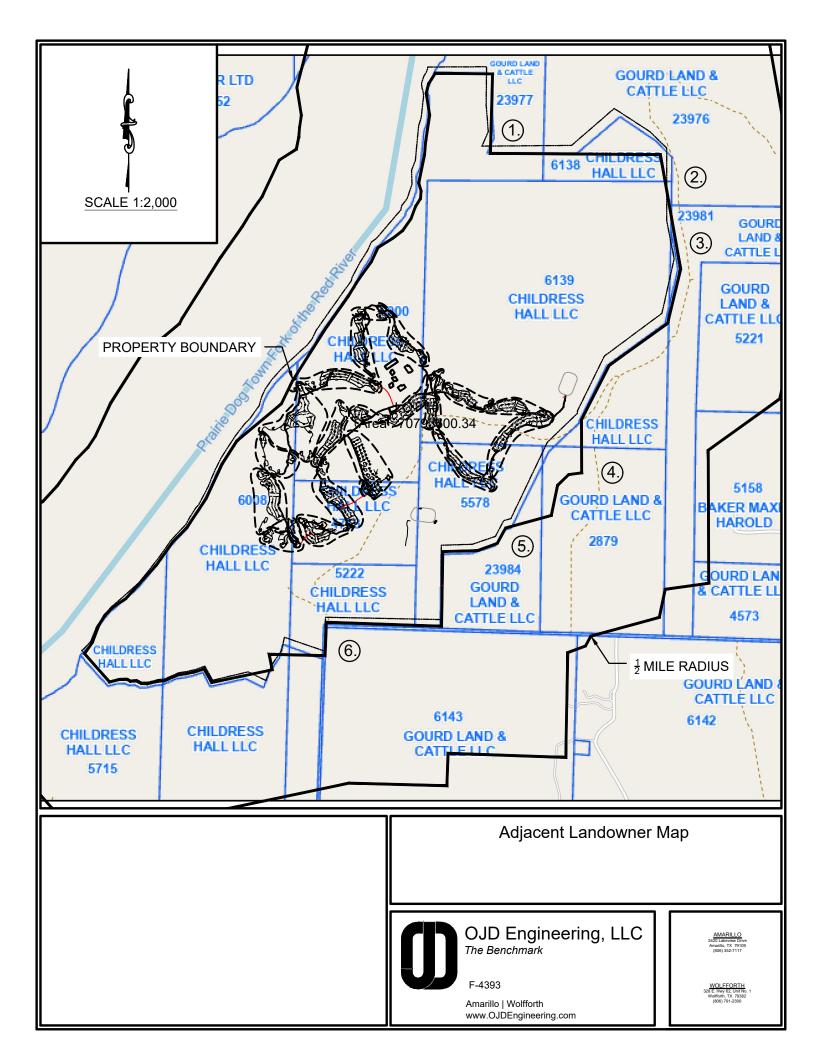
Mailed by TCEQ's Office of the Chief Clerk

Other (specify)

## Attachment: ADMINSTRATIVE REPORT 1.0 – 11.b. A-4. USGS TOPO MAP



## Attachment: ADMINSTRATIVE REPORT 1.1 - ITEM 1 A-5. LANDOWNERS MAP

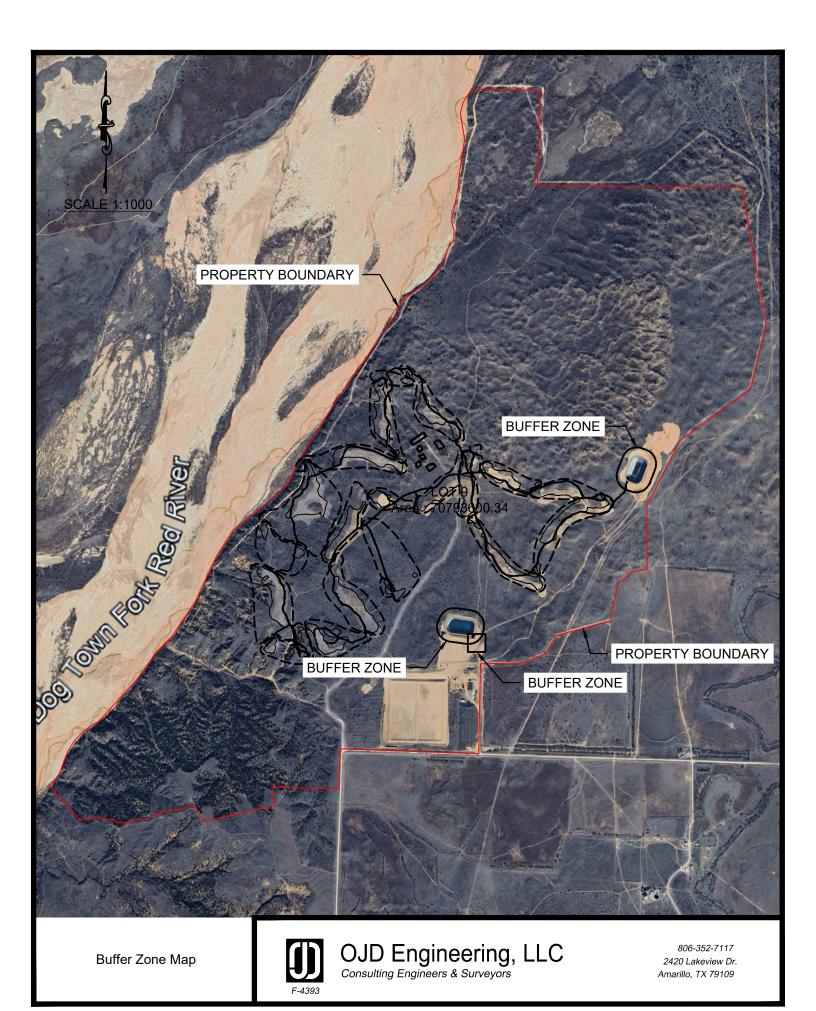




### ADJACENT LANDOWNERS

- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- 2. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- 4. Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201
- Gourd Land and Cattle LLC 1547 CR 8 Childress, TX 79201

# Attachment: ADMINSTRATIVE REPORT A-6. BUFFER ZONE MAP



### **Attachment: ADMINSTRATIVE REPORT**

## A-7. SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF) (TCEQ FORM 20971)

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

## FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

THOUGH AND
TCEQ USE ONLY:
Application type:RenewalMajor AmendmentMinor AmendmentNew
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 <a href="mailto:wQ-ARPTeam@tceq.texas.gov">wQ-ARPTeam@tceq.texas.gov</a> or by phone at (512) 239-4671.
The following applies to all applications:
1. Permittee: <u>CHTX Club LLC</u>
Permit No. WQ00
Address of the project (or a location description that includes street/highway, city/vicinity, and county):
15641 County Road P Childress, Texas 79201, Childress County

		e the name, address, phone and fax number of an individual that can be contacted to r specific questions about the property.
	Prefix	(Mr., Ms., Miss): <u>Mr.</u>
		nd Last Name: <u>Eric Greytok</u>
	Crede	ntial (P.E, P.G., Ph.D., etc.):
	Title: <u>I</u>	Project Manager
	Mailin	g Address: <u>PO Box 298</u>
	City, S	tate, Zip Code: <u>Childress, Texas 79201</u>
	Phone	No.: (940) 585-8902 Ext.: The first of the f
	E-mail	Address: egreytok@childresshall.com
2.	List th	e county in which the facility is located: <u>Childress</u>
3.	If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.	
	D 11	
	Provid	e a description of the effluent discharge route. The discharge route must follow the flow
4.	of effludischar	ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
4.	of effludischar	ent from the point of discharge to the nearest major watercourse (from the point of
4.	of effludischar	ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
4.	of effludischar	ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
4.	of effludischar	ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
4.	of effludischar	ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
	of effludischathe clathe clather the clath	ent from the point of discharge to the nearest major watercourse (from the point of rge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify
	of effludischarthe cla  Please plotted route frequire	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is
	of effludischathe cla  Please plotted route frequire  Provide	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).
	of effludischathe cla  Please plotted route frequire  Provide	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).
	Please plotted require Provide Does y	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).
	of effludischarthe cla  Please plotted route frequire  Provide Does y	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ad in addition to the map in the administrative report).  The original photographs of any structures 50 years or older on the property.  Proposed access roads, utility lines, construction easements
	of effludischarthe classes the classes plotted route for required Provided Does y	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ad in addition to the map in the administrative report).  The original photographs of any structures 50 years or older on the property.  The proposed access roads, utility lines, construction easements  Visual effects that could damage or detract from a historic property's integrity
	of effludischarthe cla  Please plotted route frequire  Provide Does y	provide a separate 7.5-minute USGS quadrangle map with the project boundaries and a general location map showing the project area. Please highlight the discharge rom the point of discharge for a distance of one mile downstream. (This map is ed in addition to the map in the administrative report).  The original photographs of any structures 50 years or older on the property.  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

	Disturbance of vegetation or wetlands
of cave	oposed construction impact (surface acres to be impacted, depth of excavation, sealing es, or other karst features): tion pond excavation – 30' deep
Descril	be existing disturbances, vegetation, and land use:
Distur	rbance of land where irrigation pond and wastewater plant are to be constructed
1ENDME	OWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR ENTS TO TPDES PERMITS  Instruction dates of all buildings and structures on the property:
	*
Provide	e a brief history of the property, and name of the architect/builder, if known.
	List prof cave Irriga  Describ Distur  E FOLLO MENDME List cor

# STATE ON MENTAL OUT

#### 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 42)

#### A. Existing/Interim I Phase

Design Flow (MGD): <u>0.0099</u> 2-Hr Peak Flow (MGD): <u>0.0199</u>

Estimated construction start date: 7/1/2025

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: <u>Click to enter text.</u> Estimated waste disposal start date: <u>Click to enter text.</u>

#### C. Final Phase

Design Flow (MGD): <u>0.0099</u> 2-Hr Peak Flow (MGD): <u>0.0199</u>

Estimated construction start date: <u>Click to enter text.</u> Estimated waste disposal start date: <u>Click to enter text.</u>

#### D. Current Operating Phase

Provide the startup date of the facility: <u>Click to enter text.</u>

### Section 2. Treatment Process (Instructions Page 42)

#### 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**.

The proposed WWTP will be designed as an activated sludge package plant that operates in the extended aeration mode with nitrification, with the ability to treat a design flow of 9,999 gpd average daily flow and an unattenuated peak flow rate of 28 gpm; an influent flow equalization basin will provide sufficient retention time to reduce the peak factor to 2Q, or a peak flow of 14 gpm and which will serve as the peak flow rate for hydraulically-sensitive processes and piping. The package plant process units will include preliminary screening, (1) flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester. A chlorine feed system will be provided for chemical disinfection. The flow equalization basin will be sized to provide 8 hours of hydraulic retention time at the average daily flow rate. The aeration basins and digesters will be sized to provide the treatment volume required to treat the organic loadings at the design flow. The secondary clarifier and the chlorine contact basin will be designed to handle the peak flow rate. Effluent of 150 GPD freshwater applied to 250 acres of golf course.

#### **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)
Aeration	1	12'-0" x 12'-0" x 10.50'
Digester	1	4'-0" x 12'-0" x 10.67'
Clarifier	1	9'-0" x 5'-0" x 6.75'
Disinfection	1	5'-0" x 3'-0" x 4'
EQ Basin	1	6'-0" x 12'-0" x 10.67'

#### C. Process Flow Diagram

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

Attachment: T-1

# Section 3. Site Information and Drawing (Instructions Page 43)

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

• Latitude: Click to enter text.

• Longitude: Click to enter text.

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

• Latitude: <u>34.531751°</u>

• Longitude: <u>-100.304113°</u>

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

<ul> <li>If sludge disposal is a disposal site.</li> </ul>	uthorized in the po	ermit, the boundaries of	the land application or
<b>Attachment</b> : <u>T-2</u> Provide the name <b>and</b> a desc	cription of the area	served by the treatment	t facility.
Childress Hall golf course is the hotel, restaurants, and resort a		rved by the treatment facil	ity. This includes
Collection System Information can be collected to a collection system in collection systems. See a collection systems. See a collection system information collection system information collection system information collection system in collection systems.	tion system, existir <b>Please see the inst</b>	ng and new, served by th	is facility, including
Collection System Name	Owner Name	Owner Type	Population Served
- Concetton System Hume	o wher runne	Choose an item.	T opulation serves
		Choose an item.	
		Choose an item.	
		Choose an item.	
Is the application for a renew Yes No  If yes, does the existing permyears of being authorized by	- mit contain a phase	_	-
□ Yes □ No			
If yes, provide a detailed dis Failure to provide sufficien recommending denial of th	t justification may	result in the Executive	the unbuilt phase. Director
Click to enter text.			

ponds; and

Section 5. Closure Plans (Instructions Page 44)
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 44)
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 <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. <b>Provide a copy of</b> 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.

	A	l buffer zones are contained within owners' property.
C.	Ot	her actions required by the current permit
	sul	es the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require omission of any other information or other required actions? Examples include tification of Completion, progress reports, soil monitoring data, etc.
		□ Yes ⊠ No
		ves, provide information below on the status of any actions taken to meet the additions of an Other Requirement or Special Provision.
	C	ick to enter text.
D.	Gr	it and grease treatment
		Acceptance of grit and grease waste
	1.	
		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.
	<i>2.</i>	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
		<b>If No</b> , 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.
Е.	Sto	ormwater management
Е.		ormwater management  Applicability
Е.		Applicability
Е.		Applicability  Does the facility have a design flow of 1.0 MGD or greater in any phase?
Е.		Applicability  Does the facility have a design flow of 1.0 MGD or greater in any phase? $\square$ Yes $\boxtimes$ No
E.		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?
E.		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
E.	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.
E.	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.  MSGP coverage
E.	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.
E.	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.  MSGP coverage  Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal
E.	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.  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?
E.	1.	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.  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
E.	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.  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:

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
	<b>If yes</b> , 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.
<b>5.</b>	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
0.	Request for coverage in marviaum permit

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

TCEQ-10054 (10/17/2024) Domestic Wastewater Permit Application Technical Report

		□ 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.	Dis	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
		ves, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text.
G.	Otl	her 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 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 BOD5 concentration of the sludge, and the design BOD5 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.
	<i>2.</i>	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 BOD₅ 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.
<ol><li>Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)</li></ol>
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 49)
Is the facility in operation?
□ Yes ⊠ No
If no, this section is not applicable. Proceed to Section 8.
<b>If yes</b> , provide effluent analysis data for the listed pollutants. <i>Wastewater treatment</i>

facilities complete Table 1.0(2). Water 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.

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , 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 <sub>3</sub> )*, mg/l					

<sup>\*</sup>TPDES permits only †TLAP permits only

Table 1.0(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 <sub>3</sub> ), mg/l					

# Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: To be determined

Facility Operator's License Classification and Level: Click to enter text.

Facility Operator's License Number: Click to enter text.

# Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A.	WW	TP's Sewage Sludge or Biosolids Management Facility Type
	Che	ck 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.	ww	ΓP's Sewage Sludge or Biosolids Treatment Process
	Che	ck 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. Sewage Sludge or Biosolids Management

Provide information on the *intended* sewage sludge or biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all sewage sludge or 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
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.	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): Click to enter text.

#### D. Disposal site

Disposal site name: Childress Landfill

TCEQ permit or registration number: 2263

County where disposal site is located: Childress

#### E. Transportation method

Method of	transportation (	truck.	train.	pipe.	other):	Click to	enter text	t.
-----------	------------------	--------	--------	-------	---------	----------	------------	----

Name of the hauler: Click to enter text.

Hauler registration number: Click to enter text.

Sludge is transported as a:

Liquid  $\square$  semi-liquid  $\square$  semi-solid  $\square$  solid  $\square$ 

# Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

#### A. Beneficial use authorization

Does the e	xisting <sub>j</sub>	permit inclu	de auth	orization	for land	application	of bioso	lids f	or
beneficial	use?								

□ Yes ⊠ No

**If yes**, are you requesting to continue this authorization to land apply biosolids 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 Biosolids		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 authorization, is the completed Domestic Waste Technical Report (TCEQ Form No. 10056) attack	water	r Permi	t App	lication: Sewage Sludge
□ Yes □ No				
Section 11. Sewage Sludge Lagoons (Ins	stru	ctions	Pag	e 53)
Does this facility include sewage sludge lagoons?				
□ Yes ⊠ No				
If yes, complete the remainder of this section. If no,	proce	eed to S	ectior	n 12.
A. Location information				
The following maps are required to be submitted provide the Attachment Number.	l as p	art of tl	ne app	olication. For each map,
<ul> <li>Original General Highway (County) Map:</li> </ul>				
Attachment: Click to enter text.				
<ul> <li>USDA Natural Resources Conservation Ser</li> </ul>	vice S	Soil Map	<b>)</b> :	
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 e apply.	xist w	i <b>thin</b> th	ie lago	oon area. Check all that
☐ Overlap a designated 100-year frequency	7 flood	d plain		
$\square$ Soils with flooding classification				
<ul><li>Overlap an unstable area</li></ul>				
□ Wetlands				
☐ Located less than 60 meters from a fault				
☐ None of the above				
Attachment: Click to enter text.				
	100	0		

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.
Temporary storage information
Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in <i>Section 7 of Technical Report 1.0.</i>
Nitrate Nitrogen, mg/kg: Click to enter text.
Total Kjeldahl Nitrogen, mg/kg: <u>Click to enter text.</u>
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: <u>Click to enter text.</u>
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.
Liner information
Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?
□ Yes □ No

B.

C.

	If yes	, describe the liner below. Please note that a liner is required.
	Click	to enter text.
D	Sito d	evelopment plan
D.		le a detailed description of the methods used to deposit sludge in the lagoon(s):
		to enter text.
	CHCK	to enter text.
	Attacl	n the following documents to the application.
	Attaci	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.
	•	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.	Grour	ndwater monitoring
	groun	undwater monitoring currently conducted at this site, or are any wells available for dwater monitoring, or are groundwater monitoring data otherwise available for the lagoon(s)?
		Yes □ No
	types	andwater monitoring data are available, provide a copy. Provide a profile of soil encountered down to the groundwater table and the depth to the shallowest dwater as a separate attachment.
	_	tachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions

### **Page 54)**

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
<b>If yes</b> 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 55)

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
  - o located in another state and is accredited or inspected by that state; or
  - o performing work for another company with a unit located in the same site; or
  - o 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:

Date: \_\_\_\_\_

I certify that all laboratory tests submitted with this application meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

Title:	<u>Project Manager</u>
Signature:	

Printed Name: Eric Greytok

# 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 56)

#### 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.

CHTX Club, LLC is a golf facility that is proposing a WWTP to be designed as an activated sludge package plant that operates in the extended aeration mode with nitrification, with the ability to treat a design flow of 9,999 gpd average daily flow and an unattenuated peak flow rate of 28 gpm; an influent flow equalization basin will provide sufficient retention time to reduce the peak factor to 2Q, or a peak flow of 14 gpm and which will serve as the peak flow rate for hydraulically-sensitive processes and piping. The package plant process units will include preliminary screening, (1) flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester. A chlorine feed system will be provided for chemical disinfection. The flow equalization basin will be sized to provide 8 hours of hydraulic retention time at the average daily flow rate. The aeration basins and digesters will be sized to provide the treatment volume required to treat the organic loadings at the design flow. The secondary clarifier and the chlorine contact basin will be designed to handle the peak flow rate.

#### B. Regionalization of facilities

For additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> Treatment<sup>1</sup>.

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

#### 1. Municipally incorporated areas

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?  $\square$  Yes  $\boxtimes$  No  $\square$  Not Applicable

**If yes,** within the city limits of: <u>Click to enter text.</u>

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.

<sup>&</sup>lt;sup>1</sup> https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

#### 2. Utility CCN areas

Is any portion of the proposed service area located inside another utility's CCN area?

□ Yes ⊠ No

**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 58)

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<sub>5</sub> Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): <u>Click to enter text.</u>

Provide the source of the average organic strength or BOD<sub>5</sub> 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		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD₅ from all sources		

# Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

### A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 10

Total Suspended Solids, mg/l: 15

Ammonia Nitrogen, mg/l: 3

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text. Other: Click to enter text. 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: 10 Total Suspended Solids, mg/l: 15 Ammonia Nitrogen, mg/l: 3 Total Phosphorus, mg/l: Click to enter text. Dissolved Oxygen, mg/l: Click to enter text. Other: Click to enter text. D. Disinfection Method Identify the proposed method of disinfection. Chlorine: Click to enter text. mg/l after 20 minutes detention time at peak flow Dechlorination process: Click to enter text. Ultraviolet Light: Click to enter text. seconds contact time at peak flow Other: Click to enter text.

## Section 4. Design Calculations (Instructions Page 58)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: T-3

#### **Facility Site (Instructions Page 59)** Section 5.

#### 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.
Area unmapped by FEMA, but is over 60 feet above river bed.
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: $N/A$
<b>If no,</b> provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.
Wind rose
Attach a wind rose: <u>T-4</u>
ection 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)
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

B.

Α.

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 60)

Attach a solids management plan to the application.

#### Attachment: T-5

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 63)
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 <b>no</b> , proceed it Section 2. <b>If yes</b> , provide the following:
Owner of the drinking water supply: <u>Click to enter text.</u>
Distance and direction to the intake: <u>Click to enter text.</u>
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 63)
Does the facility discharge into tidally affected waters?
□ Yes □ No
If <b>no</b> , proceed to Section 3. <b>If yes</b> , 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.

	CUOII	5. Classified Segments (instructions rage 05)
Is t	he disc	harge directly into (or within 300 feet of) a classified segment?
	□ Ye	s 🗆 No
If y	es, this	s Worksheet is complete.
If n	o, com	plete Sections 4 and 5 of this Worksheet.
Sec	ction	4. Description of Immediate Receiving Waters (Instructions
		Page 63)
Nar	ne of tl	he immediate receiving waters: Click to enter text.
A.	Receiv	ing water type
	Identif	y 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: <u>Click to enter text.</u>
		Man-made Channel or Ditch
		Open Bay
		Tidal Stream, Bayou, or Marsh
		Other, specify: <u>Click to enter text.</u>
B.	Flow c	haracteristics
	existin	eam, man-made channel or ditch was checked above, provide the following. For g discharges, check one of the following that best characterizes the area <i>upstream</i> discharge. For new discharges, characterize the area <i>downstream</i> of the discharge one).
		Intermittent - dry for at least one week during most years
	□ mai	Intermittent with Perennial Pools - enduring pools with sufficient habitat to intain significant aquatic life uses
		Perennial - normally flowing
	Check discha	the method used to characterize the area upstream (or downstream for new rgers).
		USGS flow records
		Historical observation by adjacent landowners
		Personal observation
		Other, specify: Click to enter text.

		ames of all perennial streams tha am of the discharge point.	t joii	n the receiving water within three miles						
	Click to	enter text.								
D.	Downstre	eam characteristics								
Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?										
		es 🗆 No								
		scuss how.								
	Click to	enter text.								
Ε.	Normal d	lry weather characteristics								
			body	during normal dry weather conditions.						
	Click to	enter text.								
	Date and	time of observation: Click to ente	er tex	t.						
	Was the v	vater body influenced by stormwa	ater 1	runoff during observations?						
		es 🗆 No								
Se	ection 5.	General Characteristics Page 65)	s of	the Waterbody (Instructions						
A.	Upstream	ı influences								
		nediate receiving water upstream d by any of the following? Check		ne discharge or proposed discharge site nat apply.						
		il field activities		Urban runoff						
		pstream discharges		Agricultural runoff						
	□ Se	eptic tanks		Other(s), specify: Click to enter text.						

C. Downstream perennial confluences

B.	Waterb	oody uses								
	Observ	ed or evidences of the following use	es. Cl	neck all that apply.						
		Livestock watering		Contact recreation						
		Irrigation withdrawal		Non-contact recreation						
		Fishing		Navigation						
		☐ Domestic water supply		Industrial water supply						
		Park activities		Other(s), specify: <u>Click to enter text.</u>						
C.	Waterb	oody aesthetics								
		one of the following that best descri rounding area.	ibes	the aesthetics of the receiving water and						
		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 dumping areas; water discolored	e aes	thetics; cluttered; highly developed;						

# 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 65)								
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).								
$\square$ Perennial $\square$ Intermittent with perennial pools								
Section 2. Data Collection (Instructions Page 65)								
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	Transect location	Water surface	Stream depths (ft) at 4 to 10 points along each			
Select riffle, run, glide, or pool. See Instructions, Definitions section.		width (ft)	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 65)

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: <u>Click to enter text.</u>

Average stream depth, in feet: <u>Click to enter text.</u>

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.): <u>Click to enter text.</u>

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 67)

Identif	y the method of land disposal:							
	Surface application		Subsurface application					
$\boxtimes$	Irrigation		Subsurface soils absorption					
	Drip irrigation system		Subsurface area drip dispersal system					
	Evaporation		Evapotranspiration beds					
	Other (describe in detail): Click	to er	nter 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: <u>Click to enter text.</u>

# Section 2. Land Application Site(s) (Instructions Page 67)

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
Bermuda Grass - Golf Course	250	9,999	Y

# Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

#### Table 3.0(2) - Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	3.4	42.9	300 x 500 x 30	Synthetic

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.  Attachment: <u>T-6</u>								
Section 4.	Flood and R	unoff Protectio	n (Instructions P	age 67)				
Is the land appli	cation site <u>withi</u>	<u>n</u> the 100-year freq	uency flood level?					
□ Yes ⊠	No							
If yes, describe	how the site will	be protected from	inundation.					
Click to enter to	ext.							
Provide the sour	rea used to deter	mine the 100-year	frequency flood level:					
		ver 60 feet above rive						
Area unmapped	by FEMA, but is o	ver oo feet above five	er bed.					
Provide a descripapplication site.	ption of tailwate	r controls and rain	fall run-on controls us	ed for the land				
The site is water	ed w/ golf course i	rrigation equipment.	Control equipment is us	sed to control				
irrigation, so run	off does not occur	:						

# Section 5. Annual Cropping Plan (Instructions Page 67)

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**: <u>T-7</u>

- 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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: <u>A-4</u>

- 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
1230601	Stock	Unknown	Open	
1230901	Unused	No	Open	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

Attachment: T-8

# Section 7. Groundwater Quality (Instructions Page 68)

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**: T-9

Are groundwater n	nonit	oring v	wells av	ailable	e onsite?	· □	Yes	$\boxtimes$	N	0	
Do you plan to instapplication site?				nonito No	ring wel	lls or l	lysime	eters aı	counc	d the land	
application site:		103		0.1			11	, .			

**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 69)

#### A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

Attachment: T-10

#### 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: T-7

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
Hardeman fine sandy loam - EfB		N/A	N/A	39
Hillgrave very gravelly sandy loam - Gr		N/A	N/A	39
Grandfield fine sandy loam - MfC		N/A	N/A	39
Yomont silt loam - No		N/A	N/A	39
Riverwash - RW		N/A	N/A	39
Devol loamy sand - SfB		N/A	N/A	39
Devol and Nobsoot soils - Sn3		N/A	N/A	39
Likes fine sand – Tv		N/A	N/A	39

# Section 9. Effluent Monitoring Data (Instructions Page 70)

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	pН	Chlorine Residual mg/l	Acres irrigated

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 71)

Complete the item that applies for the method of disposal being used.

#### A. Irrigation

Area under irrigation, in acres: 250

Design application frequency:

hours/day 5 And days/week 7

Land grade (slope):

average percent (%): 1%

maximum percent (%): 10%

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: <u>To be determined</u>. <u>Info provided as part of special conditions in the permit after plant is operational</u>.

Soil conductivity (mmhos/cm): 0.13

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: T-11

#### **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: <u>Click to enter text.</u> Depth of bed(s), in feet: <u>Click to enter text.</u>

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

Design application rate, in gpm/foot of slope width: Click to enter text.
Slope length, in feet: <u>Click to enter text.</u>
Design BOD <sub>5</sub> loading rate, in lbs BOD <sub>5</sub> /acre/day: <u>Click to enter text.</u>
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 72)
Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?
□ Yes □ No
If <b>yes</b> , is the facility located on the Edwards Aquifer Recharge Zone?
□ Yes □ No
If yes, attach a geological report addressing potential recharge features.

Area used for application, in acres: Click to enter text.

Attachment: Click to enter text.

Slopes for application area, percent (%): 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 73)

<u> </u>
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: <u>Click to enter text.</u>
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: <u>Click to enter text.</u>
Area of bed(s), in square feet: Click to enter text.
Soil Classification: <u>Click to enter text.</u>
Attach a separate engineering report with the information required in $30\ TAC\ S\ 309.20$ , excluding the requirements of $S\ 309.20\ b(3)(A)$ 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 73)
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
<b>If yes to either question</b> , the subsurface system may be prohibited by <i>30 TAC §213.8</i> . 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*.

Se	ction 1. Administrative Information (Instructions Page 74)
Α.	Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:
В.	<u>Click to enter text.</u> Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?
	□ Yes □ No
	If <b>no</b> , 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: <u>Click to enter text.</u>
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 <b>no</b> , 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.
Е.	Owner of the land where the subsurface area drip dispersal system is located: <u>Click to enter text.</u>
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 <b>no</b> , 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

#### 74)

A. Type of system
-------------------

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

□ Other, specify: <u>Click to enter text.</u>

#### **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 <b>yes</b> , 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.
Se	ection 3. Required Plans (Instructions Page 74)
A.	Recharge feature plan  Attach a Recharge Feature Plan with all information required in 30 TAC §222.79.  Attachment: Click to enter text.
В.	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 <i>30 TAC §222.157</i> .  Attachment: Click to enter text.
Se	ection 4. Floodway Designation (Instructions Page 75)
	Site location  Is the existing/proposed land application site within a designated floodway?  □ Yes □ No
В.	Flood map Attach either the FEMA flood map or alternate information used to determine the floodway.  Attachment: Click to enter text.
Se	ection 5. Surface Waters in the State (Instructions Page 75)
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.

If yes, then attach the additional information required in 30 TAC § 222.81(c).

Attachment: Click to enter text.

Section 6.	Edwards Aq	juifer (Instr	uctions Pa	ige 75)

A.	Is the	SADDS	S loca	ated over the Edwards Aquifer Recharge Zone as mapped by TCEQ?
		Yes		No
B.	Is the	SADDS	S loca	ated over the Edwards Aquifer Transition Zone as mapped by TCEQ?
		Yes		No
If y	yes to	either	ques	stion, then the SADDS may be prohibited by 30 TAC §213.8. Please call
the	Muni	cipal Pe	ermit	ts 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 76)

For pollutant	ts identified in '	Table $4.0(1)$ ,	indicate the	type of s	ample.
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
Endosulfan II (beta)				0.02

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Endosulfan Sulfate				0.1
Endrin				0.02
Epichlorohydrin				
Ethylbenzene				10
Ethylene Glycol				
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				0.05
(Lindane)				
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
4,4'-Isopropylidenediphenol				1
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Methyl tert-butyl ether				
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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Pentachlorophenol				5
Phenanthrene				10
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

<sup>(\*1)</sup> Determined by subtracting hexavalent Cr from total Cr.

<sup>(\*2)</sup> Cyanide, amenable to chlorination or weak-acid dissociable.

<sup>(\*3)</sup> The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

# **Section 2. Priority Pollutants**

For pollutant	s identified in Tables 4.0(2)A-E, indicate type of sample.
Grab □	Composite □
Date and tim	e sample(s) collected: <u>Click to enter text.</u>

#### 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

<sup>(\*1)</sup> Determined by subtracting hexavalent Cr from total Cr.

<sup>(\*2)</sup> 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				10
[1,3-Dichloropropene]				
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 Azobenzene)				20
Fluoranthene				10
Fluorene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
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

<sup>\*</sup> 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.

В.	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 <b>or</b> 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: <u>Click to enter text.</u>

#### Table 4.0(2)F - Dioxin/Furan Compounds

Compound	Toxic Equivalenc y 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 Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

#### **Section 1. Required Tests**

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: <u>Click to enter text.</u>
48-hour Acute: <u>Click to enter text.</u>

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			
$\textbf{If yes}, \ describe \ the \ progress \ to \ date, \ if \ applicable, \ in \ identifying \ and \ confirming \ the \ toxicant.$			
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 87)

#### A. Industrial users (IUs)

B.

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.

#### C. Treatment plant pass through

□ Yes □ No
<b>If yes</b> , 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.
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 yes, complete section 2.c. and 2.u. omy, and skip section 3.
If no to oither question above skin Section 2 and complete Section 3 for each significant
<b>If no to either question above</b> , skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.
industrial user and categorical industrial user.  ection 2. POTWs with Approved Programs or Those Required to
industrial user and categorical industrial user.  ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)
industrial user and categorical industrial user.  ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  Substantial modifications  Have there been any substantial modifications to the approved pretreatment program
industrial user and categorical industrial user.  Ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  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?
industrial user and categorical industrial user.  Ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  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
industrial user and categorical industrial user.  Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  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.
industrial user and categorical industrial user.  Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  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.
industrial user and categorical industrial user.  Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  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.
industrial user and categorical industrial user.  Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87)  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.

B. Non-substantial modifications

	i any <b>non-substantiai</b> ave not been submitte			
□ Yes □	No			
	all non-substantial mo urpose of the modifica		ave not been s	submitted to TCEQ,
Click to enter t	text.			
C. Effluent param	eters above the MAL			
	list all parameters me			
_	ing the last three year	S. Subiiiit aii attac	птени и несе	essary.
Table 6.0(1) - Parar Pollutant	Concentration	MAL	Units	Data
<b>201141111</b>	Concentration	MAL	Umits	Date
			<u> </u>	
<u> </u>	+	+		
D. Industrial user	-	or contributed to	ony problome	· (avaluding
	U, or other IU caused or pass throughs) at yo			
□ Yes □	No			
			luding dates,	duration, description
	s, and probable pollut	ants.		
Click to enter t	ext.			

### Categorical Industrial User (CIU) (Instructions Page 88)

# 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:

Batch

Intermittent

#### E. Pretreatment standards

Discharge, in gallons/day: Click to enter text.

Discharge Type: □ Continuous

Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions?
☐ Yes ☐ No  In the SILL or CILL subject to cotogorical protreatment standards found in 40 CER Parts 405
Is the SIU or CIU subject to categorical pretreatment standards found in 40 CFR Parts 405-471?
□ Yes □ No
<b>If subject to categorical pretreatment standards</b> , 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: <u>Click to enter text.</u>
Category: Click to enter text.
Subcategories: <u>Click to enter text.</u>
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
<b>If yes</b> , identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.
Click to enter text.

F.

# **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 90)

1.	TCEQ Prog	gram Area
----	-----------	-----------

Program Area (PST, VCP, IHW, etc.): Click to enter text.

Program ID: <u>Click to enter text.</u>

Contact Name: <u>Click to enter text.</u>

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: <u>Click to enter text.</u>					
	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: <u>Click to enter text.</u>					
	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: <u>Click to enter text.</u> System(s) Construction: Click to enter text.

Section 4.	Site Hydrogeo	logical and Ir	niection Zone	Data
	Dite II, di ogeo.	Concar arrestr	TICCITOTI LIGHT	. Data

- 1. Name of Contaminated Aguifer: 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: <u>Click to enter text.</u>
- **6.** Injection Zone Depth: <u>Click to enter text.</u>
- 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): <u>Click to enter text.</u>
- 15. Injection wells within 1/4 mile radius (attach map as Attachment J): <u>Click to enter text.</u>
- 16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): <u>Click to enter text.</u>
- 17. Sampling frequency: Click to enter text.
- **18.** Known hazardous components in injection fluid: <u>Click to enter text.</u>

#### Section 5. Site History

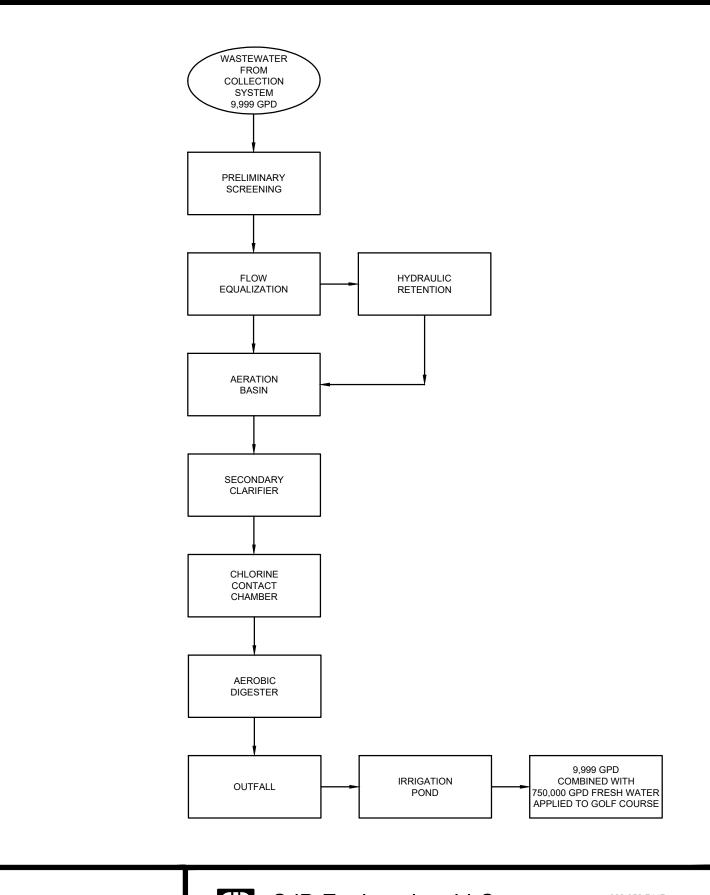
- **1.** Type of Facility: <u>Click to enter text.</u>
- 2. Contamination Dates: <u>Click to enter text.</u>
- 3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): <u>Click to enter text.</u>
- **4.** Previous Remediation (attach results of any previous remediation 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.

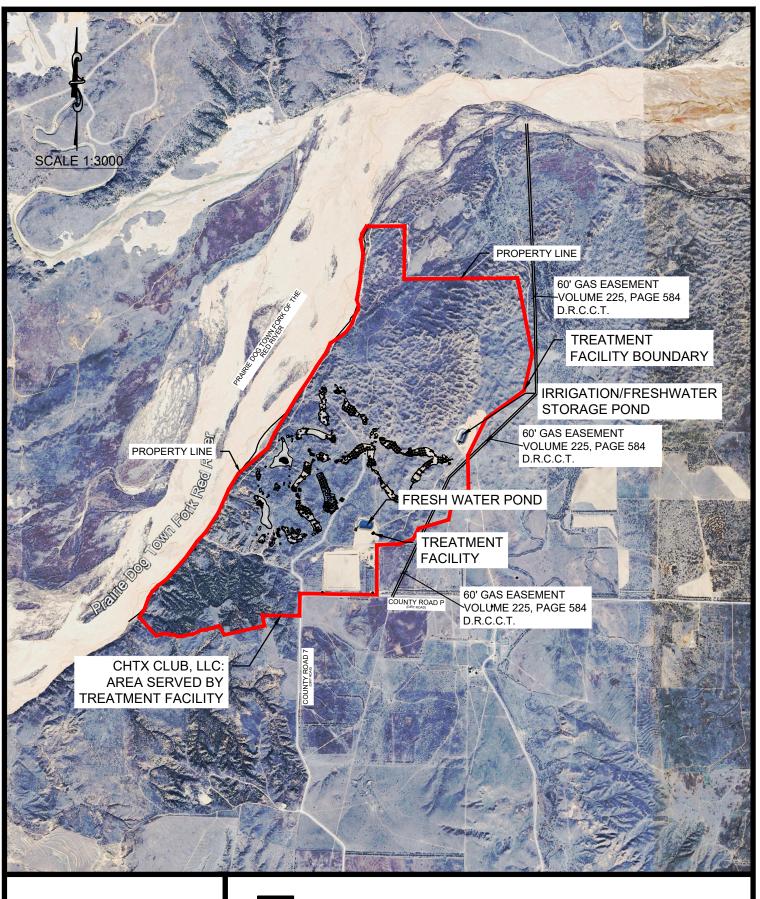
#### Class V Injection Well Designations

- 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 Aguifer 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: TECHNICAL REPORT T-1. FLOW DIAGRAM



# **Attachment: TECHNICAL REPORT T-2. SITE DRAWINGS**







### **Attachment: TECHNICAL REPORT T-3. DESIGN CALCULATIONS**

Project: Childress WWTP
Job Number: W0000
Design By: HES

Design By: HES
Checked By: HES
Date: 1/17/2025

Description: Process Calculations Phase I - 9,999 GPD

### Final Process Calculations (Based on TCEQ Criteria Only)

#### **Design Parameters**

Influent Flow Characteristics - The hydraulic design of the facility must ensure that the plant will operate under the most extreme conditions anticipated. The plant process and hydraulic design for this facility are as follows:

0.009999 MGD Influent BOD<sub>5</sub> 300 mg/l Average Design Flow **Peaking Factor** 2 Post EQ Basin 25 lbs / day Peak Flow 0.019998 MGD Influent TSS 300 mg/L 14 gpm 25 lbs / day **Effluent Characteristics** Influent NH3-N 40 mg/L BOD<sub>5</sub> S<sub>e</sub> 10 mg/L 3 lbs / day Influent TKN mg/L TSS 15 mg/L Influent Phosphorus TSS<sub>e</sub> mg/L NH<sub>3</sub>-N N<sub>e</sub> 3 mg/L Reactor temp 20 °C mq/L Flevation 1900 feet ASL

Process Design - In order to achieve the required removal efficiencies, activated sludge process operated in the extended aeration mode with nitrification has been chosen.

#### **Aeration Basin**

 Value
 Regulation

 TCEQ Maximum Organic Loading
 15 lbs BOD / day / 1000 cu. ft.
 217.154(b)(Table F.1)

 Aeration Volume Required
 1,668 cu. ft.

 MLSS
 3,000 mg/L

 MLVSS/MLSS
 0.7

 MLVSS
 2,100 mg/L

<u>Tanks</u> Length

 Length
 12 ft

 Width
 12 ft

 Height
 12.17

 SWD
 10.50 ft

 # Tanks
 1

 Volume
 1,512 cu. ft.

Capacity 0.009 MGD Average Flow

Total Volume 1,512 cu. ft.

Volume greater than required NO

Organic Loading 16.55 lbs BOD5/day

Hydraulic Retention time, τ 27.15 hours Solids Retention Time, SRT 15.1 days

f:m 0.13 lbs BOD5/lbs MLVSS/day

Project: Childress WWTP
Job Number: W0000
Design By: HES

Design By: HES
Checked By: HES
Date: 1/17/2025

Description: Process Calculations Phase I - 9,999 GPD

Date.	1/17/2025		
	ocess Calculations (Based	on TCEQ Criteria Or	nly)
Clarifier			
TCEQ Maximum surface Loading (Qpk) TCEQ Minimum detention time (Qpk) TCEQ Maximum weir Loading (Qpk) TCEQ Minimum Side Water Depth (SWD) TCEQ Maximum Stilling Well Velocity	Value  800 gal / day / so 2.2 hours at pea 20,000 gal/day/ft 8 feet 0.15 feet/second		Regulation 217.154(c)(Table F.2) 217.154(c)(Table F.2) 217.152(c)(4) 217.152(g)(2)(A)/(B) 217.152(a)(4)
Surface area required Volume required	25 sq. ft. 245 cu. ft.	5.6 ft. min. dia. 4.0 ft. min. dia.	for one clarifier for two clarifiers
Stilling Well Diameter Stilling Well Velocity at Qpk	3.5 feet 0.01 fps	Typ. value is 15-20% Meets Requirement	% of total tank diameter (M&E, p.40°? YES
Clarifier(s) Provided:  Length 9 ft  Height 12.17 ft  Static WL 11.75 ft  SWD 6.75 ft  Surface area 45 sq. ft.  Volume 304 cu. ft.  Capacity 0.012 MGD Average  0.02479 MGD Peak Fig.	Flow	5 ft	
Total Surface Area Total Volume	45 sq. ft. 304 cu. ft.	Greater than require Greater than require	
Clarifier Surface Loading Clarifier Detention Time Solids Loading Rate	<u>Qaverage</u> 222 GPD/SF 5.45 Hours 0.65 lb/ft²/hr		Qpeak 444 GPD/SF 2.73 Hours 0.88 lb/ft <sup>2</sup> /hr
Clarifier Wall to Weir Length 12 Weir Length 22.0 Ft. Weir Loading 909 GPD/LF	? inches		
RAS/WAS Pumping & Piping			
TCEQ Minimum Sludge Pipe Diameter	Value 4 inches		Regulation 217.152(e)(2), 217.158(e)(3)
Clarifier Surface Area	45 sq. ft.		
TCEQ Min. RAS Pumping Capacity @200 TCEQ Max. RAS Pumping Capacity @ 40		Qr/Q = 0.90 Qr/Q = 1.80	217.152(j)(3) 217.152(j)(3)
RAS/WAS Pipe Diameter Velocity in RAS/WAS Pipe @ Min. Rate	4 inches 0.16 fps		

Number of WAS Cycles Per Day	1
Duration of WAS Cycles	1 minutes
MAC Floor Data Daniero Facili Consta	OFO mana

Velocity in RAS/WAS Pipe @ Max. Rate

WAS Flow Rate During Each Cycle
WAS Pipe Diameter
Velocity in WAS Pipe
253 gpm
6 inches
2.862 fps

#### **Scum Flow Rate**

WAS Volume to Digester

Launder Width6 inchesScum Flow Rate7.14 gpmScum Collector Pipe Diameter4 inchesScum Airlift Diameter4 inchesWater Height in Launder0.72 inches

0.32 fps

253 gpd

Project: Childress WWTP Description: **Process Calculations** Job Number: W0000 Phase I - 9,999 GPD

Design By: HES Checked By: **HES** 1/17/2025 Date:

### Final Process Calculations (Based on TCEQ Criteria Only)

Digesters			
	Value		Regulation
TCEQ Minimum Sludge Retention Time TCEQ Min. Volatile Solids Loading Rate TCEQ Max. Volatile Solids Loading Rate	100	days lb / day / 1,000 cu. ft. lb / day / 1,000 cu. ft.	217.249(t)(4)(B)(Table J.2) 217.249(t)(7)(D) 217.249(t)(7)(D)

Influent BOD<sub>5</sub> 25 lb/ day Effluent BOD<sub>5</sub> 1 lb/ day BOD<sub>5</sub> to Digester 24 lb/ day

Volume Required from Metcalf and Eddy, "Wastewater Engineering," 4th Edition

### Hydraulic Detention Time of the Aeration Basins

$$\theta \left( Gal \right) = \left( \frac{\text{Volume of Aeration Basins in Gallons}}{\text{Average Influent Flow in Gallons / Day}} \right) * 24 \frac{\text{hrs}}{\text{day}}$$

$$BOD_5utilized$$
 (lbs  $BOD_5$ /day) =  $Q*(S_i - S_e)$ 

### NH<sub>3</sub>-N Utilized

$$\frac{NH_3-N \ Unitzea}{NH_3 \ utilized} \left( \frac{lbs \ NH_3}{day} \right) = Q * (N_i - N_e)$$

Hydraulic Detention Time of Aeration Basin 27.15 Hours BOD<sub>5</sub> utilized 24 lb BOD<sub>5</sub> / day

NH<sub>3</sub> utilized 3 lb NH<sub>3</sub>-N / day

S	BOD <sub>5</sub> Concentration
N	NH <sub>3</sub> -N Concentration
į	Influent (subscript)
е	Effluent (subscript)
Q	Average Design Flow
$\sim$	D 1 E1

	0 0		
$Q_{\text{design}}$	Peak Flow		
$Q_W$	Waste Sludge Flow to Digester		
$X_W$	Waste Sludge Concentration	8,500	mg/L
Υ	Yield Coefficient	0.6	VSS/lb BOD <sub>5</sub>
$Y_{n}$	Yield Coefficient (nitrification)	0.15	VSS/lb NH <sub>3</sub> -N
$\mathbf{k}_{d}$	Endogenous Decay Coefficent	0.06	/day
$\mathbf{k}_{dn}$	Endogenous Decay Coeff. (nitrifica	0.30	/day
$P_{n}$	Volatile Fraction of X	0.70	
	MLVSS/MLSS Ratio	0.70	
$S_{sl}$	Specific Gravity of Sludge	1.005	
Χ	Sludge Concentration in Digester	15,000	mg/L
$P_s$	Percent Solids in Digester	1.5	%

Typical Values					
Variable	Rai	nge	Source		
X <sub>w</sub>	0.8	2.5	M&E, 4th ed., pg. 1457		
Υ	0.4	0.8	M&E, 4th ed., pg. 585		
Y <sub>n</sub>	0.04	0.29	WEF MoP 8, Vol I, p. 53		
k <sub>d</sub>	0.06	0.15	M&E, 4th ed., pg. 585		
k <sub>dn</sub>	0.3	3.0	WEF MoP 8, Vol I, p. 53		
P <sub>n</sub>	0.59	0.88	M&E, 4th ed., pg. 1454		
S <sub>sl</sub>	1.005	1.005	M&E, 4th ed., pg. 1456		
Х	15,000	40,000	M&E, 4th ed., pg. 1457		
Ps	1.5	4	M&E, 4th ed., pg. 1457		

% of TSS that is inert Specific Weight of Water

TSS<sub>%</sub>

50 %

8.34 lbs / gallon

Project: Childress WWTP Description: **Process Calculations** Job Number: W0000 Phase I - 9,999 GPD

Design By: HES Checked By: **HES** Date: 1/17/2025

### Final Process Calculations (Based on TCEQ Criteria Only)

Carbonaceous Yield Coefficient Observed

M&E, 4th ed. Pg. 595

$$Y_{c,obs} = \left(\frac{Y}{1 + k_d * \theta}\right)$$

 $Y_{n,obs} = \left(\frac{Y_n}{1 + k_{dn} * \theta}\right)$ 

Carbonaceous Sludge Production (MLVSS) M&E Pg. 681 Nitrogenous Sludge Production (MLVSS)

$$P_{x,c}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{c,obs} * Q*(S_i - S_e) = Y_{c,obs} * BOD_5 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * NH_3 utilized & P_{x,n}\left(\begin{matrix} lb \\ day \end{matrix}\right) = Y_{n,obs} * Q*(N_i - N_e) = Y_{n,obs} * Q*(N_i - N_$$

Inert Sludge Production M&E, 4th ed. Pg. 681

$$P_{x,i} \left( \frac{lb}{day} \right) = Q_{design} *TSS_{\%} * (TSS_i - TSS_e) *8.34$$

<u>Total Sludge Production</u> M&E, 4th ed. Pg. 682

$$P_{x}\left(\frac{lb}{day}\right) = P_{x,c} + P_{x,n} + P_{x,i}$$

Waste Sludge Flow to Dige: M&E, 4th ed. Pg. 1458

$$Q_{w} = \frac{\text{Total Sludge Production, Dry Solids}}{\rho_{w} S_{sl} P_{s}}$$

Required Volume

Nitrogenous Yield Coefficient M&E, 4th ed. Pg. 595

$$V(Gal) = \left(\frac{Q_{w}}{X}\right) \left(\frac{(X_{w} + Y * S_{i})}{k_{d} * P_{n} + \frac{1}{SRT}}\right)$$

 $Y_{c.obs}$ Carbonaceous Yield Coefficient 0.56

 $P_{x.c}$ Carbonaceous Sludge Production 14 lb / day (MLVSS) 19 lb / day (MLSS)

 $Y_{n,obs}$ Nitrogenous Yield Coefficient

 $P_{\boldsymbol{x},\boldsymbol{n}}$ Nitrogenous Sludge Production 0.35 lb / day (MLVSS) 0.49 lb / day (MLSS)

Inert Sludge Production (TSS), Dry Solids 12 lb / day

Total Sudge Production, Volatile Solids

Volatile Solids Loading Rate

14 lb / day

27 lb / day / 1,000 cu. ft.

Total Sudge Production, Dry Solids

 $Q_{W}$ Waste Sludge Flow to Digester

32 lb / day

253 gallons / day

Digester Volume Required

2,184 gallons

292 cu. ft.

Tank Length Width 12 ft Height 12.17 ft 10.67 ft SWD # Tanks Volume 512 cu. ft.

Total Digester Vol. available Volume greater than required 512 cu. ft.

YES

Project: Childress WWTP Description: Process Calculations
Job Number: W0000 Phase I - 9,999 GPD

Design By: HES
Checked By: HES
Date: 1/17/2025

Final Process Calculations (Based on TCEQ Criteria Only)

**Chlorine Contact Chamber** 

 Value
 Regulation

 TCEQ Minimum detention time (Qpk)
 20 min
 217.281(b)(1)

Volume required 37 cu. ft.

Proposed Tank

 Length
 5.00 ft

 Width
 3.00 ft

 Height
 11.17 ft

 Static WL
 8.75 ft

 SWD
 4.00 ft

 # Tanks
 1

 Volume
 60 cu. ft.

Capacity 0.016 MGD Average Flow

Total Capacity 60 cu. ft.

Detention Time 32.32 Minutes Meets Capacity Volume greater than required YES

Project: Childress WWTP Description: Process Calculations
Job Number: W0000 Phase I - 9,999 GPD

Project: Childress WW
Job Number: W0000
Design By: HES
Checked By: HES
Date: 1/17/2025

Final Process Calculations (Based on TCEQ Criteria Only)

Project: Childress WWTP
Job Number: W0000
Design By: HES

Design By: HES
Checked By: HES
Date: 1/17/2025

Description: Process Calculations Phase I - 9,999 GPD

Final Process Calculations (Based on TCEQ Criteria Only)						
Air Requirements						
	Value	Regulation				
Air requirements for Aeration basins $1.2(BOD_5) + 4.3(NH_3 - N)$	1.77 lb oxygen per lb BOD	217.155(a)(3)(Equation F.2)				
Use $O_2R = \frac{BOD_5}{BOD_5}$	2.20 lb oxygen per lb BOI	)				
Air Requirements for Digesters	20 SCFM /1000 cu. ft.	217.249 (t)(7)(G)				
Use	30 SCFM /1000 cu. ft.					
Minimum Mixing Requirements for Aeration	20 SCFM / 1000 cu. ft.	217.155 (b)(3)(B)				
Diffuser Transfer Efficiency	6.6% (In wastewater)	217.155 (b)(2)(B)				
Design Submergence	9.00 feet					

Table F.5 Diffuser Submergence Correction Factors			
Diffuser Submergence Depth	Airflow Rate Correction Factor		
feet			
8	1.82		
10	1.56		
12	1		
15	0.91		
18	0.73		
20	0.64		

Diffuser Submergence Correction Factor 1.69 @ design flow depth 217.155 (b)(2)(D)(Table F.5)

Aeration Basins: Corrected Air Flowrate @ Design Subme 56 SCFM

= {(lb BOD)\*(lb Oxygen / lb BOD)} \* Correction Factor 217.155 (b)(2)(C) (T.E.) (lb Oxygen / lb air) (lb air / cu. ft.) (min / day)

Verify Mixing Requirements for Aeration Basins: 37 OK

Air Required for Digesters: 15 SCFM

Air Required for Post Aeration - Chlorine Basin 1 SCFM 20 scfm/1000cf
Air Required for Air Lifts 17 SCFM

Air for Initial Mixing 0 SCFM

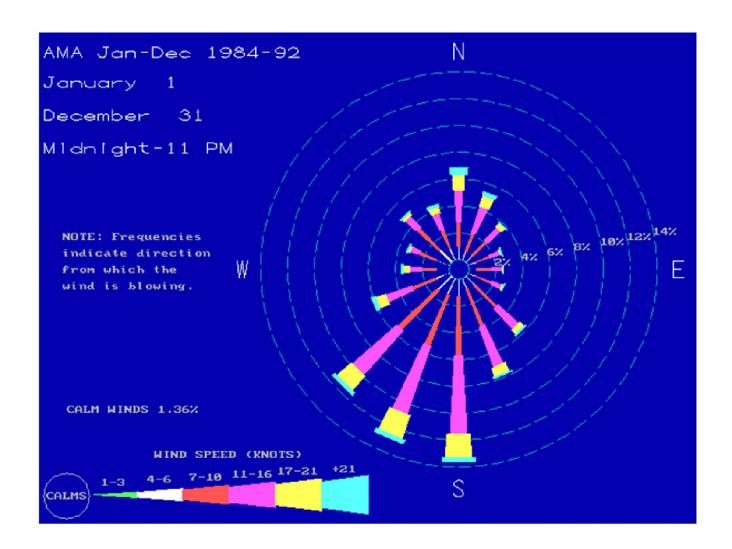
Total Air Required 90 SCFM

Maximum Water Depth Over Diffuser9.00 feetPressure Loss in Piping1.1 psi \*Pressure @ Blowers5.0 psi

Air Flow per Blower @ Required Pressure 95 SCFM Blowers Required w/o Standby 1.0

Total Blowers Required 2.0

## Attachment: TECHNICAL REPORT T-4. WIND ROSE



### Attachment: TECHNICAL REPORT T-5. SLUDGE MANAGEMENT



### CHILDRESS WWTP PHASE I - 9,999 GPD ADF

### Domestic Technical Report 1.1 - 7 Sewage Sludge Solids Management Plan

#### Planning Considerations

Influent Design Flow

Total Sludge Holding Tank Volume

Dimensions

Aeration Basin MLSS (mg/L)

0.009999 MGD

512 cubic feet

4' L x 12' W x 10.67' SWD

1,500 to 3,000 mg/l

 $\begin{array}{ccc} \mathsf{BOD}_5 \ \mathsf{Removal} & \mathsf{Influent} \ \mathsf{Concentration} = & 300 \ \mathsf{mg/l} \\ & \mathsf{Effluent} \ \mathsf{Concentration} = & 10 \ \mathsf{mg/l} \\ \end{array}$ 

Net Removal = 290 mg/l

Solids Generated	100% Flow	75% Flow	50% Flow	25% Flow
Pounds BOD <sub>5</sub> /day Removed	24	18	12	6
Pounds/Day of Dry Sludge Produced	8	6	4	2
Pounds/Day of Wet Sludge Produced	508	381	254	127
Gallons/Day of Wet Sludge Produced	61	46	30	15

Sludge will stay in the digester; clear liquor will be decanted off the digester and returned to the aeration basin. Sludge is wasted from the final clarifier to the aerobic digester. Some sludge from the clarifier is also returned to the aeration basin.

#### Removal Schedule

Days Between of Sludge Removal	63	84	126	252
--------------------------------	----	----	-----	-----

#### Assumptions

- (1) Assumed 0.315 pounds of dry sludge produced per pound of BOD5 removed
- (2) Assumed solids concentration in the tank 1.5%
- (3) Assumed stablized sludge density = water density 8.34 lb/gal

### Attachment: TECHNICAL REPORT T-6. LINER CERTIFICATION

### **Liner Certification:**

Childress Hall Storage Pond

Liner Type: Synthetic (See Attached Product Sheet)

### Certification:

The liner is a 60 mil synthetic liner as required by 30 TAC 217.203(d)(4). Has UV resistance to withstand constant sunlight. Due to the fact that the wastewater (9,999 GPD) will be combined with freshwater (500,000 GPD), a leachate collection system is not proposed to be installed due to the dilution of the water in the pond.

CHE SHADLE
87046
DENSE
SIONAL
1/25/2025

### Attachment: TECHNICAL REPORT T-7. CROPPING PLAN & SOIL ANALYSES



### **Cropping Plan**

A site map for this report is provided as Attachment USGS Map – A-4.

The soils Map is shown in Attachment – T-2.

The cropping plan for Childress Hall, for which effluent is applied to, is solely 250 acres, for an 18-hole golf course, of Bermuda grass. There is no harvest, it is simply grown in, maintained, fertilized and mowed. The golf course requires approximately 750,000 GPD of water. The permit requests effluent of 9,999 GPD to be include in this total application. Due to combining 740,000 of freshwater with the total effluent, nutrient availability from the effluent is minimal. The bermuda will need fertilizer supplementation. Attached to this cropping plan is the soils testing data that was used to determine the nutrient needs. An excerpt of this report is shown below, and it describes the fertilizer requirements:

### Suggested Fertility Inputs for Childress Hall Tom Doak fairways

Nitrogen:

Incorporate 3 pounds of nitrogen per thousand sq. ft. from a combination of an organic fertilizer, a controlled release nitrogen fertilizer and the starter fertilizer. Apply 1/20 to 1/16 pound of nitrogen per thousand sq. ft. every 7 to 10 days as needed for grow-in and maintenance. Potassium nitrate is suggested for most of the maintenance inputs.

Calcium/Magnesium: Apply and incorporate 1.5 tons of dolomitic lime (10% to 12% Mg content) per acre to raise the bulk soil magnesium level in fairways 1, 2,3, 8, 9, 14, and 15. Apply and incorporate 1 ton of dolomitic lime (10% to 12% Mg content) per acre to raise the bulk soil magnesium level in fairways 4, 5, 6, 10, 16, and 18.

Potassium:

Incorporate 4 pounds of potassium per thousand sq. ft. into fairways 1, 2, 3, 8, 9, 10, 14, and 15 pre-plant. Incorporate 2 pounds of potassium per thousand sq. ft. into fairways 4, 5, 12, 16, and

18 pre-plant. Sul-Po- Mag or K-Mag are suggested for the potassium source.

fax: 806.352.7188



Phosphorus: Incorporate 2 pounds of P<sub>2</sub>O<sub>5</sub> per thousand sq. ft pre-plant. Monammonium phosphate is recommended as the source for this input. Apply 1/20 pound of P<sub>2</sub>O<sub>5</sub> per thousand sq. ft. every other week to the fairways for grow-in and when needed to promote root initiation on the turf.

Iron/Micronutrients: Apply a granular product such as Andersons Hi-Mag Trace Elements (STEP HI MAG) at

100 pounds of product per acre. Apply a soluble micronutrient formulation at label rates every other week to monthly for maintenance.

Salt Tolerances (NA): Tolerance is 24 dsm<sup>-1</sup>. Testing shows that the existing levels are low, and no amendments are needed.

fax: 806.352.7188



May 4, 2023



Mr. Eric Greytok 253 Zion Canyon CT Chico, CA 95973

Dear Eric:

Enclosed are the suggested grow-in fertility inputs for the fairway samples from Childress Hall.

### **Key Findings Soil Test Results/Fairways: F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18**

SOIL pH:		Alkaline	7.7 - 8.1
Calculated C	CECs	Cation Exchange Capacities	8.79 - 17.72
Exchangeabl	e Calcium, Ca	Very High*	F1, F2, F3, F4, F5, F6, F8, F9, F10, F14, F15, F16, F18
		High*	F12
Exchangeabl	le Magnesium, Mg	Adequate*	F12
C	υ, υ	Slightly Low*	F9
		Low*	F1, F2, F3, F4, F5, F6, F8, F10, F14, F15, F16,
			F18
Exchangeabl	le Potassium, K	Adequate*	F6, F12
		Slightly Low*	F2, F5, F16
		Low*	F1, F3, F4, F8, F9, F10, F14, F15, F18
Exchangeabl	le Sodium, Na	Acceptable Low Level*	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14,
			F15, F16, F18
Phosphorus,	P205	Adequate	F6
•		Slightly Low	F1, F2, F3, F5, F9, F12
		Low	F4, F8, F10, F14, F15, F16, F18
Sulfates, SO	4	Very Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Total Calubi	a Calta (mmhag/am)	A coentable I avy I aval	, ,
Total Soluble	e Sans (mmnos/cm)	Acceptable Low Level	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Micronutrier	nts: Boron, B	Adequate	F1, F3, F4, F5, F6, F8, F9, F12, F14, F15, F16
	,	Low	F2, F10, F18
	Copper, Cu	Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14,
			F15, F16, F18
	Zinc, Zn	Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14,
	- 7		F15, F16, F18
	Manganese, Mn	Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14,
			F15, F16, F18
	Iron, Fe	Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14,
			F15, F16, F18
			- 10, - 10, 1 10

<sup>\*</sup>Refers to the base saturation % at the calculated CEC

### <u>Key Findings</u> Water Soluble Soil Nutrient Results/Fairways: F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18

Water Extract pH:	Alkaline to Very Alkaline	7.9 - 8.3
Calcium, Ca	Slightly Low	F8
	Low	F1, F2, F3, F4, F5, F6, F9, F10, F12, F14, F15, F16, F18
Magnesium, Mg	Low	F2, F3, F5, F6, F8, F9, F12, F15, F16
	Very Low	F1, F4, F10, F14, F18
Potassium, K	Low	F6
	Very Low	F1, F2, F3, F4, F5, F8, F9, F10, F12, F14, F15, F16, F18
Sodium, Na	Acceptable Low Level	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Ammonium-Nitrogen, NH4-N	Adequate	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Bicarbonates, HCO3	High	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Sulfates, SO4	Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Chlorides, Cl	Acceptable	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18
Nitrate-Nitrogen, NO3-N	Slightly High	F5, F8
	Adequate	F1, F3
	Low	F2, F4, F6, F9, F10, F12, F14, F15, F16, F18
Phosphate-Phosphorus, PO4-P	Low	F1, F2, F3, F4, F5, F6, F8, F9, F10, F12, F14, F15, F16, F18

**COMMENTS**: Future inputs of Sul-Po- Mag or K-Mag will be used to address the potassium and magnesium inputs if and when needed. Don't be concerned about the dolomitic lime raising pH. It is needed to increase the magnesium level in almost all of the fairways.

### Suggested Fertility Inputs for Childress Hall Tom Doak fairways 5/4/23

Nitrogen:

Incorporate 3 pounds of nitrogen per thousand sq. ft. from a combination of an organic fertilizer, a controlled release nitrogen fertilizer and the starter fertilizer. Apply 1/20 to 1/16 pound of nitrogen per thousand sq. ft. every 7 to 10 days as needed for grow-in and maintenance. Potassium nitrate is suggested for most of the maintenance inputs.

Calcium/Magnesium: Apply and incorporate 1.5 tons of dolomitic lime (10% to 12% Mg content) per acre to raise the bulk soil magnesium level in fairways 1, 2,3, 8, 9, 14, and 15. Apply and incorporate 1 ton of dolomitic lime (10% to 12% Mg content) per acre to raise the bulk soil magnesium level

in fairways 4, 5, 6, 10, 16, and 18.

Potassium: Incorporate 4 pounds of potassium per thousand sq. ft. into fairways 1, 2, 3, 8, 9, 10, 14, and 15

pre-plant. Incorporate 2 pounds of potassium per thousand sq. ft. into fairways 4, 5, 12, 16, and

18 pre-plant. Sul-Po- Mag or K-Mag are suggested for the potassium source.

Phosphorus: Incorporate 2 pounds of P<sub>2</sub>O<sub>5</sub> per thousand sq. ft pre-plant. Mon-ammonium phosphate is

recommended as the source for this input. Apply 1/20 pound of P<sub>2</sub>O<sub>5</sub> per thousand sq. ft. every other week to the fairways for grow-in and when needed to promote root initiation on the turf.

Iron/Micronutrients: Apply a granular product such as Andersons Hi-Mag Trace Elements (STEP HI MAG) at 100 pounds of product per acre. Apply a soluble micronutrient formulation at label rates every other week to monthly for maintenance.

If you have any questions about these results, please feel free to call me at (724) 898-2329.

Sincerely,

David W. York, Ph.D. Tournament Turf Laboratories, Inc.

Email: <a href="mailto:dryork@tournamentturf.com">dryork@tournamentturf.com</a>

www.tournamentturf.com

## Attachment: TECHNICAL REPORT T-8. WELL LOGS





### **GWDB** Reports and Downloads

#### **Well Basic Details**

#### **Scanned Documents**

State Well Number	1230601
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.544167
Latitude (degrees minutes seconds)	34° 32' 39" N
Longitude (decimal degrees)	-100.285834
Longitude (degrees minutes seconds)	100° 17' 09" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1735
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	103
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	4/0/1949
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Historical
Water Quality Available	No
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	Howard Head City well
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	9/13/2001
Last Update Date	10/9/2001

**Remarks** City # 13. Yield 138 gpm with 31 ft drawdown when drilled. Water levels taken on 3/30/49 were taken as part of a pump test prior to well completion.

Casing									
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)			
16	Blank	Steel			0	40			
8	Blank	Steel			40	69			
8	Screen	Steel			69	99			
8	Blank	Steel			99	103			

Well Tests - No Data

Lithology - No Data

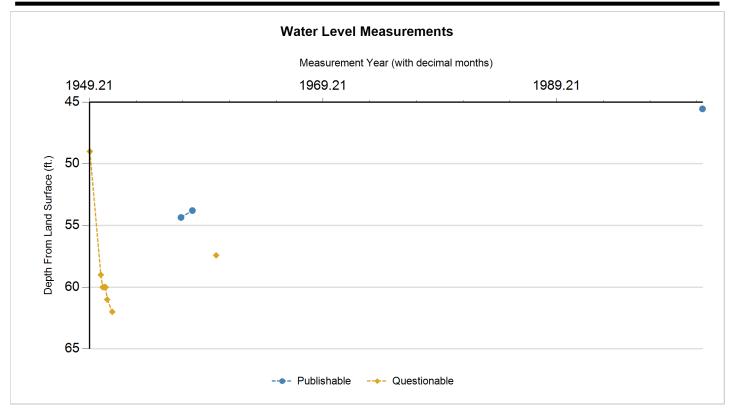
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	3/30/1949		49	Î	1686	1	Registered Water Well Driller	Unknown	17	
Q	3/30/1949		80	31.00	1655	2	Registered Water Well Driller	Unknown	17	
Q	3/30/1949		51	(29.00)	1684	3	Registered Water Well Driller	Unknown	17	
Q	3/8/1950		59	8.00	1676	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/4/1950		60	1.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/23/1950		60	0.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/24/1950		60	0.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		60	0.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		61	1.00	1674	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		62	1.00	1673	1	Other or Source of Measurement Unknown	Unknown	2	
Р	1/18/1957		54.35	(7.65)	1680.65	1	Texas Water Development Board	Steel Tape		
Р	1/8/1958		53.79	(0.56)	1681.21	1	Texas Water Development Board	Steel Tape		
Q	1/21/1960		57.42	3.63	1677.58	1	Texas Water Development Board	Steel Tape	2	
Р	9/13/2001		45.55	(11.87)	1689.45	1	Texas Water Development Board	Steel Tape		





### **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable

Remark ID	Remark Description
2	Pumping-level measurement
17	Measurement before well completion





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

### TEXAS PARTMENT OF WATER RESOUPES

### WELL SCHEDULE

	Aquifer(s) Quarta MAAY	Project No		State We	11 No <i>I_</i> 1	30 -	601
		Field No./Owner's Well No	·_ <i>E-13</i>	County	CHILD	RESS	
١.	Location:	,Block_ <b></b> ,Survey_		_,Longite	ude <u>/00-17-09</u>	Latitude <u>3</u>	4-32-40 (rea
2.	Owner: City OF CHILD	<b>RCS</b> <u>#</u> /3Addre					
	Tenant (other):						
	Driller: LAYNE . TEXA						
3.	Land Surface Elevation: 1715						
	Drilled:						
5.	Depth: Rept ft. Meas	<b>/03</b> ft.			SING, BLANK (	PIPE & WELL	SCREEN ft.
6.	Borehole Completion: Open Hole, Str	aight Wall, Underreamed, G	ravel Packed	Diam.	Туре	Setting	
7.	<u>Pump</u> : Mfr	Type_ <b><i>T</i></b>		(in.)		from_	to
	No. Stages , Bowls Diam	in., Setting	ft.		STERL	•	40
	Column Diamin., L	ength Tailpipe	ft.		STEEL	40	69
8.	Motor: Mfr.	Fue!	HP	870	Scarred Scarred	69	99
9.	Yield: Flowgpm, Pump	gpm, Meas., Rept., Est.	Date	8%	BLANK	99	103
٥.	Performance Test: Date 3-30-49 Le	ingth of Test <b>&amp;</b> Made	y Layare - Tex.	_			
	Static Level_ 49 ft. Pumping L	.evel_ <b>_80</b> _ft. Drawdown	<b>1</b> 1_ft.	ļ			
	Production <b>[3_&amp;</b> _gpm Sp	ecific Capacity	gpm/ft.	ļ		<del></del>	
1.	Quality: (Remarks on taste, odor, co	lor, etc.)		<u> </u>			<del></del>
	Analyses						
	DateLaboratory_		Cond				
	DateLaboratory_	TDS\$	o Cond				
2.	Other data available as circled: Pum		_				
	ogs Formation Samples, Geophysical	Log(s)		. L			<u> </u>
2	Water Level(s): 47.00 ft. rept.	(type)	LSD	which	is <b>Ø</b> ft.	<b>⊕</b> ove Land	l Surface
٠.	meas rept.	above		which	is ft.	above Land	Surface
ı.	Use: Dom., Stock, Public Supply, Inc					Delow	
	Recorded by: C. CORNELIS					K-12-7	 o
				<u> </u>	. – – –	= - 1- 1	
J.	Remarks:						
		<b></b>					
7.	Location or Sketch:			 MP -	TOP 0	 K BAC	~
			,				
					+ 2.00		





### **GWDB** Reports and Downloads

### **Well Basic Details**

#### **Scanned Documents**

State Well Number	1230901
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.538056
Latitude (degrees minutes seconds)	34° 32' 17" N
Longitude (decimal degrees)	-100.284167
Longitude (degrees minutes seconds)	100° 17' 03" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1740
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	123
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	5/0/1949
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
, , , , , , , , , , , , , , , , , , ,	Thursday or Trails
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Childress No. 12
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	2/13/1951
Last Update Date	5/20/2003

Remarks City # 12. Yield 112 gpm with 44 ft drawdown when drilled.

	SI	
va		

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	60
8	Blank	Steel			60	83
8	Screen	Steel			83	113
8	Blank	Steel			113	123

Well Tests - No Data

Lithology - No Data

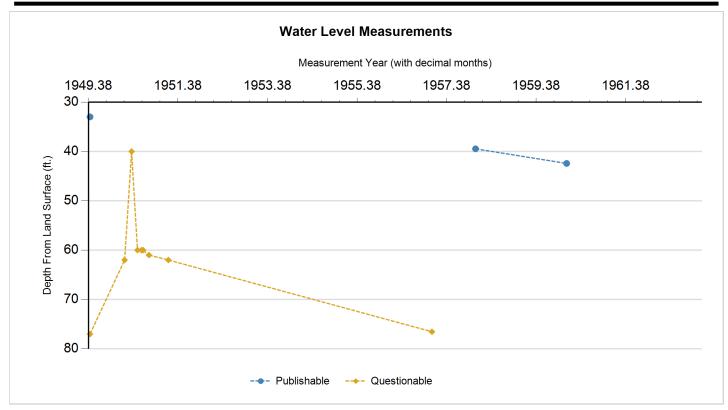
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)		Measuring Agency	Method	Remark ID	Comments
Р	5/30/1949		33		1707	1	Other or Source of Measurement Unknown	Unknown	1	
Q	5/30/1949		77	44.00	1663	2	Other or Source of Measurement Unknown	Unknown	2	
Q	3/7/1950		62	(15.00)	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/4/1950		40	(22.00)	1700	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/22/1950		60	20.00	1680	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/25/1950		60	0.00	1680	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		60	0.00	1680	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		61	1.00	1679	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		62	1.00	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/18/1957		76.53	14.53	1663.47	1	Texas Water Development Board	Steel Tape	2	
Р	1/8/1958		39.47	(37.06)	1700.53	1	Texas Water Development Board	Steel Tape		
Р	1/21/1960		42.43	2.96	1697.57	1	Texas Water Development Board	Steel Tape		
Χ	1/16/1963					1	Texas Water Development Board		32	





### **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable
Χ	No Measurement

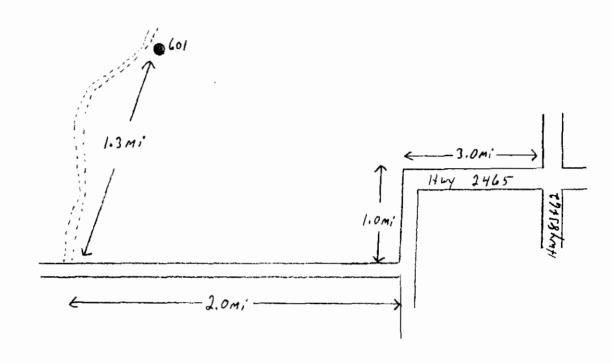
Remark ID	Remark Description
1	Accurately reflects water level conditions
2	Pumping-level measurement
32	Well temporarily inaccessible due to winterization or debris





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





### Loc:

0-11 SANDY SOIL

11-11 SANDY RED CLAY

11-41 COARSE SAND & SOME GRAVEL

41-99 SAND & GRAVEL

99-103 RED BEDS

	P.L.	GPM
3-8-50	59	58
5-4-50	60	54
6-27-50	60	58
7-14-50	60	54
8-8-50	60	56
9-16-50	<b>6</b> I	54
1 51	61	56

### TEXAS WATER DEVELOPMENT BOARD

WELL/ SCHEDULE

Ageifer Scientific Scient Scie
2. Owner:
2. Owner:
2. Owner: Life Children Address: Tenant:  Address: Addres
Tenant:    Address:
Driller:    Address:
18. Elevation of Atlanta is Mark shore mal, determined by Topo 19.  19. 19. 19. 19. 19. 19. 19. 19. 19. 19.
3. Elevation of Around is
Li. Drilled:  5. Bepth: Rept. [9] ft. Mess. ft.  6. Completion: Open Hole, Streight Wall, Underreamed, Oravel Facked
Competion: Open Hole, Straight Wall, Underreamed, Gravel Facked  Competion: Open Hole, Straight Wall, Underreamed, Gravel Facked  No. Stages , Bowle Diam in., Setting ft.  Column Diam in., Length Tellpipe ft.  Make & Model HF.  Make & Model HF.  Young gpm, Pump gpm, Mass., Rept., Est.  No. Performance Test: Date Length of Test Made by  Static Level ft. Pumping Level ft. Drawidom ft.  Froduction gpm Specific Cespecity gpm/ft.  Nater Level: ft. rept. 19 showe which is ft. shows surface. below ft. rept. 19 showe which is ft. shows surface. below thich is ft. shows surface. below which is ft. shows surface. below which is ft. shows surface. below which is ft. shows surface. below thich is ft. shows surface. below thick surface. The shows surface. below thick surface. below thick surface. bel
6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Facked  7. Pump: Mfgr.  No. Stages , Bowls Diam. in., Setting ft.  Column Diam. in., Length Teilpipe ft.  8. Motor: Yuel
No. Stages
Column Diam. in., Length Teilpipe ft.  8. Motor: Fuel Make & Model HP.  9. Yield: Flow gpm, Pump gpm, Mass., Rept., Est. "  10. Performance Test: Date Length of Test Made by 99 /08  Static Level ft. Pumping Level ft. Drawdown ft. Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. Pumping Level ft. Drawdown ft.  12. Water Level: pt. 19 showe which is ft. showe surface.  13. Guelity: Researks on teste, odor, color, etc.)  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Date (In.)  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date Sampled for Analysis Laboratory Screen Openings  Temp. 'F, Date Sampled for Analysis Laboratory Screen Openings  Temp. 'F, Date Sampled for Analysis Laboratory Screen Openings  Temp. 'F, Date Sampled for Analysis Laboratory Screen Openings  Temp. 'F, Date Sampled for Analysis Laboratory Screen Openings  Temp. 'F, Date Sampled for Analysis Laboratory Screen Openings  Temp. 'F, Date
8. Motor: Fuel
8. Motor: Fuel Make & Model HF. 9. Yield: Flow gpm, Pump gpm, Meas., Rept., Eet. 10. Performance Test: Date Length of Test Made by  Stetic Level ft. Pumping Level ft. Drawdown ft.  Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. rept.  meas.  tt. rept.  meas.  below  tt. rept.  meas.  below  which is ft. shove surface.  below  which is ft. shove surface.  below  which is ft. shove surface.  below  surface.  Temp.  Temp. Fp. Date sampled for analysis Leboratory  Temp. Pp. Date sampled for analysis Leboratory  Soreen Openings  Diam. Type Setting, ft.  (in.)  from to  10. Other data available as circled: Driffer's Log, Radioactivity Log, Electric Log,  Pormation Samples, Pumping Test,  Source of Data L- T Weet Sever C-cc/T  16. Remarks:
10. Performance Test: Date Length of Test Made by  Static Level ft. Pumping Level ft. Drawdown ft.  Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. rept. 19 above meas. 19 below which is ft. above surface. below ft. generally ft. Generates on taste, odor, color, etc.)  Temp. 'F, Date sampled for analysis Laboratory Screen Openings  Temp. 'F, Date sampled for analysis Laboratory Dism. Type Setting, ft. from to  1h. Other data available as circled: Driffer's Log, Radioactivity Log, Electric Log, Formation Samples, Pumping Test, Date 2-13 195/2 Source of Data L. T. Werkeyer Leath
Static Level ft. Pumping Level ft. Drawdown ft.  Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. rept. 19 above below ft. rept. 19 above below ft. rept. 19 above follow ft. rept. 19 above follow ft. rept. 19 above follow ft. rept. 19 above ft. rept. 19 above follow ft. rept. 19 above follow ft. rept. 19 above follow ft. rept. 19 above ft.
Production gpm Specific Cepacity gpm/ft.  11. Water Level: ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below which is ft. shove below ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below which is ft. shove surface. below ft. rept. 19 shove below surface. below surface. below ft. rept. 19 shove below surface. below ft. rept. 19 shove ft. shove ft. rept. 19
11. Water Level:  ft. rept.  ness.  ness.  ft. rept.  ness.  ft. rept.  ness.  ft. rept.  ness.  ness.  ft. rept.  ness.  nes
respections of the search of t
respections of the search of t
ft. rept. 19 shove below ft. rept. 19 show hich is the shove below ft. rept. 19 show hich is the shove below ft. rept. 19 show hich is the
rept. 19 above below below surface.  12. Use: Dom., Stock, Public Supply Ind., Irr., Waterflooding, Observation, Not Used,  13. Quality: (Remarks on taste, odor, color, etc.)  Temp. °F, Date sampled for analysis Laboratory  Ih. Other data available as circled: Driffer's Log, Radioactivity Log, Electric Log,  Formation Samples, Pumping Test,  Date 2 - 13 195/  Source of Date L - T Weekevet Geek  16. Remarks:
12. Use: Dom., Stock, Public Supply, Ind., Irr., Waterflooding, Observation, Not Used,  13. Quality: (Remarks on taste, odor, color, etc.)  Temp °F, Date sampled for analysis Laboratory Screen Openings  Temp °F, Date sampled for analysis Laboratory Diam. Type Setting, ft.  Temp °F, Date sampled for analysis Laboratory Diam. Type Setting, ft.  14. Other data available as circled: Drifler's Log, Radioactivity Log, Electric Log,  Formation Samples, Pumping Test, Date 2 - 13 _ 1951 Source of Data _L - 7 _ Werkever _ Leckt Laboratory Date
Temp. °F, Date sampled for analysis Laboratory  Diam. Type Setting, ft. (in.)  1h. Other data available as circled: Driffer's Log, Radioactivity Log, Electric Log,  Formation Samples, Pumping Test,  Date 2 - 13 195/  Source of Data L - T Werkover Geaft  16. Remarks:
Temp. °F, Date sampled for analysis Laboratory Diam. Type Setting, ft.  Temp. °F, Date sampled for analysis Laboratory (in.) Type from to  1h. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,  Formation Samples, Pumping Test,  15. Record by: CR Fellet Date 2-13 195/  Source of Data 4-7 Werkever beach
Temp. °F, Date sampled for analysis Laboratory Diam. Type Setting, ft.  1h. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,  Formation Samples, Pumping Test,  15. Record by: CR Fellet Date 2-13 195/  Source of Data 4-7 Werkever beach
Temp °F, Date sampled for analysis Laboratory (in.) from to  14. Other data available as circled: Driffer's Log, Radioactivity Log, Electric Log,  Formation Samples, Pumping Test,  15. Record by: CR Fellet Date 2-13 195/  Source of Data L-7 Werkever beat
Formation Samples, Pumping Test,  15. Record by: CR FelleT Date 2-13 1957  Source of Date L-T Werkever beat
15. Record by: CR FelleT Date 2-13 1957  Source of Data L-7 Werkever Gealt  16. Remarks:
Source of Data L-T Werkever beak  16. Remarks:
16. Remarks:
Mer-Michis 2t test bela 20c
22 andy sed lay
42 Cs. soult some gravel by 99 1646
Ga Sand + grantle 1146
1010
103 Red bede
103 Red bede
06. Well  LAT 34.3 2-40  LAT 34.3 1-40  LANGE 100-17-08

### TEXAS WATER DEVELOPMENT BOARD

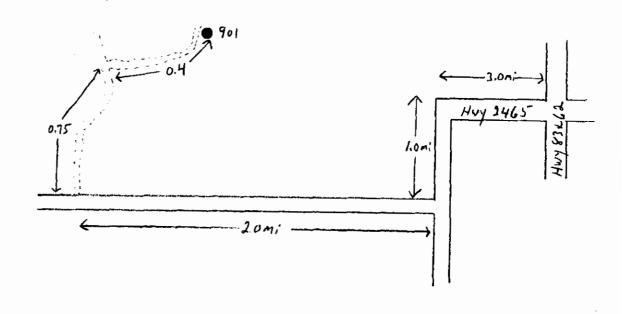
WELL SCHEDULE

Aquifer Seymerut -05 Field No. P-12 State Well No. 12-30-901				•
Owner's Well No. #12		Childre		
·				
1. Location: 1/4, 1/h Sec. , Block Survey				
2. Owner: City of Childress Address:				T-T
Tenant: Address:				
Driller:Address:			<del>-</del> -	1-4
3. Elevation ofieft. above msl, determined b				1
4. Drilled: May 19 1/9; Dug, Cable Tool, Rotary,		CASING & BLAN		
5. Depth: Rept. /23 ft. Meas. ft.	Cemented 1		k PIPE . to	ft.
6. Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed	Diam. (in.)	Туре	Settir from	ng, ft.
7. Pump: Mfgr. Type				T
No. Stages, Bowls Diam,in., Settingft.	16	_	0	60
Column Diamin., Length Tailpipeft.				]
8. Motor: Fuel Make & Model HP.	8 5/8		60	E 3
9. Yield: Flow gpm, Pump gpm, Meas., Rept., Est.	6 5			
10. Performance Test: DateLength of TestMade by	8/6	<b></b>	11.3	123
Static Levelft. Pumping Levelft. Drawdownft.				
Productiongpm Specific Capacitygpm/ft.				
11. Water Level: ft. rept. 19 above below		which is	It. at	ove surface.
ft. rept. 19 above meas below		which is	ft. ab	oove surface.
ft. rept. 19 above neas below		which is	ft. ab	oove surface.
ft. rept. 19 above		which is	ft. eb	ove surface.
12. Use: Dom., Stock Public Supply Ind., Irr., Waterflooding, Observation, Not Used,				
13. Quality: (Remarks on taste, odor, color, etc.)		<b></b>		<del></del>
Temp °F, Date sampled for analysis Laboratory		WELL SCRI	erv -	
Temp. °F, Date sampled for analysisLaboratory	Screen Openings			
Temp °F, Date sampled for analysis Laboratory	Diam. (in.)	Type	Settin from	ig, ft.
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,	A 5°			
Formation Samples, Pumping Test,	8 %		<u>ک</u> ے عے	113
15. Record by:				
Source of Date _ L - T woik over back			ļ <u> </u>	- <b></b>
16. Remarks: At test bole 32 C				;
				· <del> </del>
			·	
		<del></del> -	. <b>- </b>	

### WELL SCHEDULE

Aquifer(s) QUATER NABY Project No.				
Field No./Owner's Well No <u> </u>	_ County	<u>C∦ı</u>	T D K G Z Z	
Location:				-
		<b>-</b> - <b>-</b>		
Owner: CITY OF CHILDAESS #/2 Address:				
Tenant (other): Address: Address:				= -
Driller: Layne - TEXASAddress:				
Land Surface Elevation:				
Drilled:MAY_19_42_; Dug, Cable Tool, Rotary, Air,	-			
Depth: Reptft. Measft.		ING, BLANK ed From	PIPE & WEL	L SCREEN ft.
Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed	Diam. (in.)	Туре	Setting from	(feet)
Pump: MfrType	16	STEEL	0	60
No. Stages, Bowls Diamin., Settingft.		STEEL	60	83
Column Diamin., Length Tailpipeft.	1 1	SLOTTED		113
Motor: MfrHPFuel	057	BLANK	113	115-
Yield: Flowgpm, Pumpgpm, Meas., Rept., EstDate		JEHAN		
Performance Test: Date 5-30-49 Length of Test 8 HASMade by LAYNE-TO	FUL			<del>                                     </del>
Static Level 33 ft. Pumping Level 77 ft. Drawdown 44 ft.			<del> </del>	<del>                                     </del>
Production <b>//1</b> gpm Specific Capacity <b>1.55</b> gpm/ft.				<del> </del>
Quality: (Remarks on taste, odor, color, etc.)	-			<del> </del>
Analyses			· .	
DateSp Cond	l i			<del>                                     </del>
Date	_ [ [			†
Other data available as circled Pumping test Power & Yield Test, Orillers	)			
Logs Formation Samples, Geophysical Log(s)(type)	· <b>-</b>			
Water Level(s): 33.00 ft. rept. 5-30 1949 above LSD	which i	s <b>_0</b> ft.	below Lar	d Surface
ft. rept. above meas 19below	which i	sft .	above Lan	d Surface
Use: Dom., Stock, Public Supply Ind., Irr., Observation, Other (Test Hole,	Oil Test, et	.c.)		<b>-</b>
Recorded by: C. CORNELISSource of data: OLD SCHED	V L LE	Date:	_5-12:	:7 <b>&amp;</b>
Remarks:		<b>-</b> -	<b></b>	
	_ <b></b>		<b></b>	
	<b></b> _			<b></b>
Location or Sketch:	= Tor	m = 111		
	- / //			ien Pipe
		+1.9	90	

W/L Obs. Well \_\_\_\_\_ W/Q Obs. Well \_\_\_\_ State Well No. \_\_\_\_\_\_ 12-30-90/\_\_\_\_





## Loc:

0-10 LOOSE SAND
10-18 SANDY CLAY
18-113 VERY LOOSE SAND WITH
FEW GRAVEL LAYERS
113-115 RED BED

	P.L.	GPM
3-7-50	61	72
5-4-50	40	66
6-21-50	60	68
7-15-50	60	66
8-8-50	40	64
9-16-50	61	60
1 51	61	64

# Attachment: TECHNICAL REPORT T-9. GROUNDWATER QUALITY TECHNICAL REPORT



## **Groundwater Technical Report**

A site map for this report is provided as Attachment USGS Map – A4.

A site drawing for this report is provided as Attachment Facility Map – T2.

Childress Hall is located in Childress County, Texas. Groundwater in this area is located within the Seymour and Blaine aquifers. The information presented below regarding the aquifers was obtained by the Mesquite Groundwater Conservation District.:

The **Seymour Aquifer** is a major aquifer in Texas and consists of isolated areas of alluvium that are erosional remnants of a larger area. As defined by TWDB, it is composed of remnants of the Seymour Formation, the Lingos Formation, and younger alluvial deposits, all of Quaternary age. The aquifer is found in parts of many north-central and Panhandle counties of Texas, and in the District is present in four distinct and separate areas referred to as "Pods".

It consists of discontinuous beds of poorly sorted gravel, conglomerate, sand, and silty clay deposited during the Quaternary Period by eastward-flowing streams. Saturated thickness is typically between five and eighty feet. Aquifer thickness may exceed 250 feet in isolated spots in the western portion of Collingsworth County. The thickness in the eastern portion of the county is generally too thin to support irrigation. The aquifer is also generally thinner in Hall County but does support irrigation. This aquifer is under water-table conditions in most of its extent, but artesian conditions may occur where the water-bearing zone is overlain by clay. The lower, more permeable part of the aquifer produces the greatest amount of groundwater.

Water quality is generally fresh to slightly saline, but some high saline problems occur. Nitrate concentrations in excess of drinking water standards are common. The Seymour Aquifer comprises about twenty-three percent of the District area and provides about seventy seven percent of the irrigation water in the District. Yields of wells range from five gallons per minute to as much as 1,000 gallons per minute depending upon saturated thickness, with yields averaging about 300 gallons per minute.



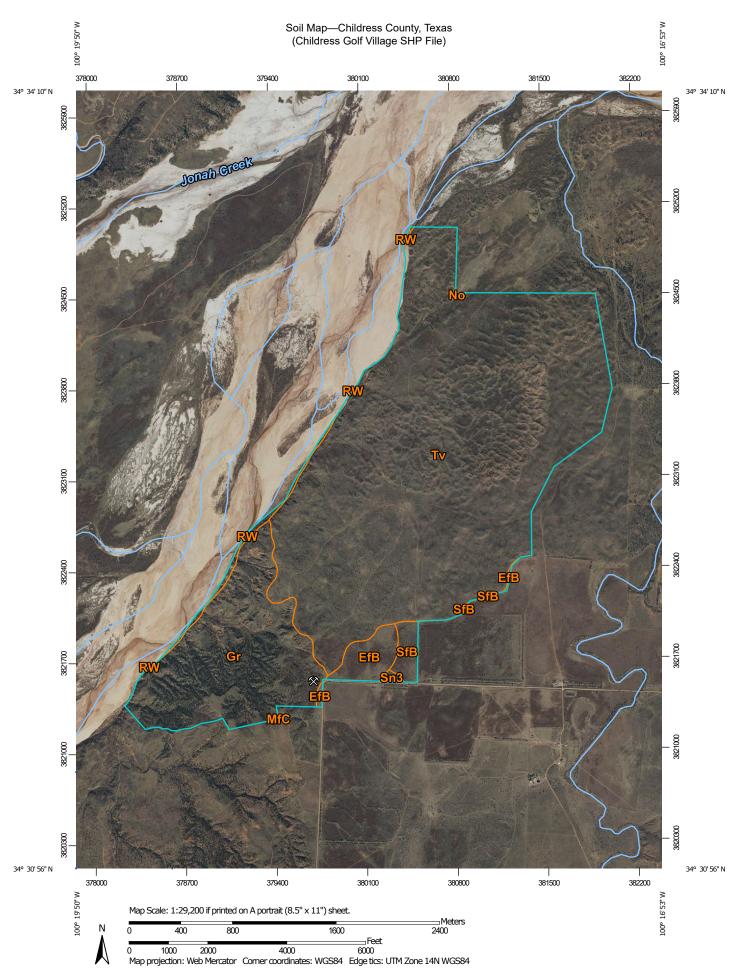
The **Blaine Aquifer** is composed of anhydrite and gypsum with interbedded dolomite and clay and is an important source of groundwater in the District. The Blaine Formation crops out in a band from Wheeler County south through Collingsworth and Childress Counties to Fisher County and extends westward in the subsurface to adjacent counties. In Collingsworth County the Blaine is found along the Salt Fork of Red River north to Wheeler County and east to the Oklahoma state line. The Blaine is also found South and East of Wellington, extending east to the Oklahoma state line and south to the Prairie Dog Town Fork of the Red River. There are also small areas in the northeast and southeast corners of Hall County. Recharge occurs fairly rapidly and travels primarily in the numerous solution channels of the Blaine under water-table conditions.

Overall water quality is poor and salinity may be high, limiting the use of water for human and livestock consumption. Depth to water ranges from a few feet to greater than 200 feet. Well depths range up to 300 feet below ground surface. Well yields vary from a few gallons per minute up to 1,000 gallons per minute. Although water in storage is generally under water-table conditions, larger yields are often associated with those areas of the aquifer that are confined by relatively impervious beds. Dry holes or wells of low yield are commonly found adjacent to wells of moderate to high yields because of the uneven nature in confining beds and the occurrence of the water in solution zones. Groundwater not intercepted by wells tends to discharge naturally in areas of lower topography through seeps and springs. The Blaine Aquifer comprises about twenty four percent of the District area and provides about nineteen percent of the irrigation water pumped in the District.

The golf course will be irrigated using 750,000 GPD from the Blaine aquifer combined with the 9,999 GPD of treated wastewater as presented in this permit application. Due to the dilution of the wastewater, nutrients will mostly come from the freshwater within the Blaine Aquifer and supplemental fertilization practices. (See Cropping Plan).

Depth to Static Water levels is greater than 50 feet. At this depth, and the fact that 99% of the irrigation water is, in fact, water from the aquifer, there is no threat of contamination.

## Attachment: TECHNICAL REPORT T-10. SOIL MAP



#### MAP LEGEND

â

0

Δ

**Water Features** 

Transportation

---

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

**US Routes** 

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

#### Area of Interest (AOI)

Area of Interest (AOI)

#### Soils

Soil Map Unit Polygons



Soil Map Unit Points

#### Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Childress County, Texas Survey Area Data: Version 21, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 23, 2021—Dec 5, 2021

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
EfB	Hardeman fine sandy loam, dry, 1 to 3 percent slopes	38.2	2.4%
Gr	Hilgrave very gravelly sandy loam, 3 to 30 percent slopes	307.9	19.0%
MfC	Grandfield fine sandy loam, 3 to 5 percent slopes	0.0	0.0%
No	Yomont silt loam	0.9	0.1%
RW	Riverwash	12.9	0.8%
SfB	Devol loamy sand, 0 to 3 percent slopes	19.6	1.2%
Sn3	Devol and Nobscot soils, severely eroded	2.5	0.2%
Tv	Likes fine sand	1,235.4	76.4%
Totals for Area of Interest	,	1,617.4	100.0%

## Attachment: TECHNICAL REPORT T-11. WATER BALANCE

#### **CHILDRESS HALL WATER BALANCE**

(INCHES/ACRE IRRIGATED)

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
AVG	AVG	AVG	EVAPO-	REQD	TOTAL	EFFL	EVAP	EFFL	CONSUMP
PRECIP	RUNOFF	INFILT	TRANS	LEACH	WATER	NEEDED	FROM	TO	FROM
		RAIN			NEEDS	ROOT	PONDS	LAND	PONDS
						ZONE	SURFACE		
0.76	0.42	0.33	2.41	0.30	2.71	2.38	0.03	3	2.67
0.80	0.41	0.40	2.75	0.34	3.09	2.69	0.03	2.99	3.02
1.56	0.18	1.38	4.54	0.45	4.99	3.61	0.05	4.01	4.06
1.83	0.12	1.71	5.88	0.60	6.48	4.77	0.05	5.30	5.35
3.29	0.00	3.29	6.86	0.51	7.37	4.08	0.06	4.53	4.59
3.27	0.00	3.27	7.65	0.63	8.28	5.00	0.08	5.56	5.63
1.98	0.09	1.89	8.69	0.97	9.66	7.77	0.09	8.64	8.72
2.33	0.04	2.29	7.94	0.81	8.75	6.46	0.08	7.17	7.25
2.18	0.06	2.12	5.96	0.55	6.51	4.39	0.06	4.87	4.94
2.09	0.07	2.02	4.81	0.40	5.21	3.19	0.05	0.00	0.05
1.00	0.34	0.67	3.03	0.34	3.37	2.70	0.04	3.00	3.04
0.89	0.37	0.51	2.39	0.27	2.66	2.14	0.03	2.38	2.41
21.98	2.10	19.88	62.91	6.15	69.06	49.18	0.65	51.10	51.74

Basis:

Runoff: SCS method CN = 39 (Group A Soil\_Grass Cover > 75%)

Watershed Storage (S) in. = 15.64

Leaching: Electrical Conductivity Effluent (Ce) = 2.5 millimhos/cm

Maximum Allowable Conductivity Soil Solution = 4 millimhos/cm

Monthly Average

Irrigation efficiency:
Irrigated acreage:
Effluent Supplied:
9999 gal/day

Analysis:

	Jai	Monthly Average					
In/Ac	MG	In/Ac	MG				
51.7	351.2	4.3	29.3				
0.54	3.6	0.045	0.3				
51.2	347 6	4.3	29.0				

Effluent required (irrig + evap):
Effluent supplied MGD
Effluent defecit:

- (1) Average Rainfall (Texas Water Development Board, Quad 6 see Attached Data)
- (2) Runoff determined using Soil Conservation Service method.
- (3) Average infiltration (1) (2)
- (4) Weighted Average Evapotranspiration (See Attached Data)
- (5) Required Leaching represents a weighted average leaching fraction modified from Rhoades (1974) as described by Ayers and Westott (1985).
- (6) Total Water Needs = (4) + (5)
- (7) Effluent Needed at Rood Zone = (6)-(3).
- (8) Evaporation from Ponds Surfaces = Net Evaporation (TWDB, Quad 6, 25Yr Avg.)\*Pond Surface Area/Irrigated Acreage.
- (9) Effluent to Land = (7)/Irrigation Efficiency
- (10) Consumption from Pond = (8)+(9)

#### CHILDRESS HALL STORAGE REQUIREMENTS

(INCHES/ACRE IRRIGATED)

_	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
	REC'D	PRECIP	RUNOFF	INFILT	AVAILABLE	EVAP	WATER	FRESH WTR	EFFLUENT	STORAGE	ACCUM	APPL
	FOR	25 YR	25 YR	RAIN	WATER	25 YR	NEEDS	IRRIGATION	APPLIED		STORAGE	RATE
	APPL	WORST	WORST			WORST		ADD TO STORAGE				
JAN	0.04	1.12	0.30	0.83	0.87	0.03	2.71	0.90	0.73	0.19	0.72	.02
FEB	0.04	1.19	0.27	0.92	0.97	0.03	3.09	0.90	0.73	0.19	0.91	.02
MAR	0.04	2.31	0.04	2.27	2.31	0.04	4.99	0.90	0.73	0.17	1.08	.00
APR	0.04	2.71	0.01	2.70	2.75	0.05	6.48	0.90	0.73	0.17	1.25	.00
MAY	0.04	4.89	0.18	4.71	4.75	0.05	7.37	0.90	0.73	0.16	1.41	01
JUN	0.04	4.86	0.17	4.69	4.73	0.07	8.28	0.90	0.73	0.15	1.56	02
JUL	0.04	2.94	0.00	2.94	2.98	0.08	9.66	0.90	0.73	0.14	1.70	03
AUG	0.04	3.46	0.01	3.46	3.50	0.07	8.75	0.90	0.73	0.14	1.84	03
SEP	0.04	3.24	0.00	3.24	3.29	0.06	6.51	0.90	0.73	0.16	2.00	01
OCT	0.04	3.10	0.00	3.10	3.15	0.05	5.21	0.90	0.73	0.17	0.17	.00
NOV	0.04	1.49	0.19	1.29	1.34	0.04	3.37	0.90	0.73	0.18	0.35	.01
DEC	0.04	1.32	0.24	1.08	1.13	0.03	2.66	0.90	0.73	0.19	0.53	.02
•	0.54	32.64	1.41	31.23	31.76	0.57	69.06	10.80	8.76	•	13.52	0.00
												(ac-ft/ac/yr)

Basis:

Received for application: Average effluent flow to wastewater treatment plant

Acres irrigated: 250 Irrigation efficiency: 0.90

#### Analysis:

Maximum storage required = 2.00 in/irrig ac 41.7 acre-feet/yr 13,586,152.59 Gallons

Total available storage at full capacity of irrigation pond = 14,000,000 Gallons

- (11) Effluent Received for Applicatoin after passing through the treatment system.
- (12) Max 25 Year Rainfall Distributed throughout the year on a weighted basis. (TWDB, Quad 6, See Attached Data).
- (13) 25 Year Worst Runoff determined using Soil Conservation Service method.
- (14) 25 Year Worst Infiltration (12)-(13).
- (15) Available Water = (11)+(14)
- (16) 25 Year Least Evaporation from Ponds Surfaces = Net Evaporation (TWDB, Quad 6,)\*Pond Surface Area/Irrigated Acreage.
- (17) See(6)
- (18) Fresh water amount from surrounding wells that is applied to the crops.
- (19) Actual Effluent applied to the crops to control Nitorgen at 420 lbs/acre/year.
- (20) Storage Required = (11)+(18)-(16)-(19).
- (21) Accumulated Storage = Storage + Previous Month Storage.

## CHILDRESS HALL CROP WATER BALANCE DATA EVAPOTRANSPIRATION

CROP Bermuda Grass

MAY		JUN		JUL		AUG		SEP		OCT	
AC	IN										
250	6.9	250	7.7	250	8.7	250	7.9	250	6.0	250	4.8
	6.9		7.7		8.7		7.9		6.0		4.8

CROP Bermuda

AVERAGE

	NOV		DEC		JAN		FEB		MAR	!	APR	
	AC	IN										
	250	3.0	250	2.4	250	2.4	250	2.8	250	4.5	250	5.9
Г												
Г												
		3.0		2.4		2.4		2.8		4.5		5.9

AVERAGE
Source:

Mean Crop Consumptive Use and Free-Water Evaporation for Texas Borrelli, Fedler, and Gregory (Bermuda Grass)

## CHILDRESS HALL WATER BALANCE RAINFALL DATA

		' <u>-</u>					_		_				_	
Quad	Year	Jan.	Feb.	March	-	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
307	1998	0.46	2.69	3.39	0.4	1.35	0.37	0.69	0.96	0.43	3.98	1.38	0.14	16.24
307	1999	1.74	0.07	2.3	3.62	5.88	3.05	0.67	1.81	1.85	0.85	0	0.64	22.47
307	2000	0.15	0.37	4.94	3.42	1.19	7.87	0.96	0.09	0.07	3.63	1.56	0.75	25
307	2001	1.34	1.44	1.63	0.11	6.7	0.62	0.41	3.61	2.33	0.02	2.97	0.05	21.23
307	2002	0.91	0.73	0.95	1.8	1.09	3.45	3.77	1.73	1.76	4.86	0.41	1.59	23.06
307	2003	0	0.21	0.78	1.72	1.94	6.61	0.11	1.56	1.5	0.57	0.56	0.01	15.57
307	2004	1.87	2.19	3.25	3.17	0.02	6.9	1.83	2.94	0.98	2.4	6.63	0.46	32.64
307	2005	1.78	0.71	0.86	1.07	2.38	1.4	1.62	2.54	1.49	1.37	0	0.07	15.29
307	2006	0.06	0.19	2.18	1.09	2.8	0.69	1.03	3.89	3.13	4.56	0.4	3.11	23.13
307	2007	1.17	0.29	5.05	1.5	4.68	3.91	2.13	2.58	2.45	0.26	0.01	1.61	25.64
307	2008	0.01	0.74	0.68	1.44	2.9	2.85	1.32	3.87	5.95	4.12	0.08	0	23.96
307	2009	0.06	0.4	0.58	2.97	1.41	3.34	3.32	2.32	3.35	1.54	0.23	0.69	20.2
307	2010	1.44	1.65	0.96	6.4	2.04	3.48	5.27	1.03	2.31	2.47	0.76	0.02	27.82
307	2011	0.08	0.42	0.05	0.03	0.59	0.35	1.2	0.24	1.04	3	1.79	1.43	10.23
307	2012	0.14	0.79	1.92	1.23	1.99	3.65	0.71	2.2	3.35	0.15	0.05	0.46	16.64
307	2013	1.53	2.23	0.14	0.63	0.81	3.9	2.67	2.64	2.7	1.64	0.81	0.98	20.68
307	2014	0	0.36	0.34	0.7	3.72	4.05	3.2	2.27	2.34	0.49	1.3	0.37	19.14
307	2015	1.02	0.47	0.53	4.46	12.06	3.58	4.32	1.98	0.5	3.05	2.43	1.6	36
307	2016	0.43	0.56	0.43	2.18	6.57	3.16	2.51	4.71	2.44	0.57	1.43	1.17	26.16
307	2017	2.02	2.02	2.37	2.46	0.88	2.08	2.28	4.85	4.36	1.64	0.06	0.06	25.08
307	2018	0.01	0.51	0.76	0.36	3.99	3.42	1.36	2.28	4.26	5.68	0.55	0.89	24.07
307	2019	0.19	0.07	1.47	3.98	4.53	2.29	1.95	1.81	3.98	0.56	1.03	0.87	22.73
307	2020	1.25	0.84	2.39	0.44	2.25	2.37	1.63	2.28	1.15	1.39	0.35	0.68	17.02
307	2021	0.92	0.37	2.06	0.69	4.35	4.42	3.35	1.82	0.58	1.47	0.05	0.04	20.12
307	2022	0.26	0.24	0.26	0.21	2.69	3.98	0.72	3.85	0.31	2.18	1.03	0.58	16.31
307	2023	8.0	0.36	0.23	1.41	6.74	3.33	2.43	0.79	2.16	1.91	0.14	4.83	25.13
		0.755	0.805	1.558	1.827	3.29	3.274	1.979	2.333	2.183	2.091	1	0.888	21.98
		0.034	0.037	0.071	0.083	0.15	0.149	0.09	0.106	0.099	0.095	0.046	0.04	
		1.122	1.195	2.313	2.712	4.885	4.861	2.939	3.464	3.242	3.104	1.485	1.319	32.64

## CHILDRESS HALL WATER BALANCE EVAPORATION DATA

Quad	Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Yearly
307	1998	2.93	2	5.51	6.16	6.49	10.86	11.12	8.08	7.59	6.27	2.6	2.01	71.62
307	1999	5.39	4.06	3.73	7.36	7.13	8.13	9.38	8.73	6.03	6.2	5.39	4.54	76.31
307	2000	7.1	3.59	3.94	4.47	4.8	5.4	6.78	7.51	7.16	3.6	3.73	2.18	60.28
307	2001	1.13	1.71	2.94	5.45	5.61	8.56	10.97	8.2	6.02	6.11	3.99	2.72	63.41
307	2002	3.18	3.22	5.17	5.13	6.11	8.33	7.92	9.14	6.61	3.87	3.31	3.14	65.13
307	2003	2.77	2.25	4.45	6.06	6.27	6.39	10.22	8.9	5.84	5.16	4.28	2.99	65.58
307	2004	2.06	3.86	4.88	4.9	6.87	7.12	8.01	7.2	6.77	3.81	2.89	3.04	61.41
307	2005	2.65	2.16	4.75	5.87	4.83	7.96	8.8	6.98	7.23	4.69	5.09	4.04	65.05
307	2006	5.88	4.19	5.22	6.47	6.86	9.07	9.98	8.51	6.1	5.64	4.72	2.2	74.84
307	2007	2.37	3.8	3.92	4.5	3.6	5.2	7	8.13	6.1	7	4.21	4.04	59.87
307	2008	1.76	3.49	5.79	5.85	5.94	9.13	9.12	7.57	5.42	5.13	4.54	3.51	67.25
307	2009	2.83	4.62	6.07	6.21	5.82	7.77	8.7	8.67	5.2	3.7	4.93	2.22	66.74
307	2010	1.96	3.08	5.27	6.63	5.87	8.45	6.56	7.81	6.44	5.98	5.95	3.92	67.92
307	2011	2.53	3.35	5.35	7.96	8.09	12.04	11.81	11.53	8.13	6.29	4.82	1.78	83.68
307	2012	3.25	3.27	5.69	5.99	6.79	7.94	9.25	8.4	6.92	5.64	5.16	3.4	72.07
307	2013	3	3.48	6.21	5.77	6.81	8.93	8.64	8.45	7.16	6	4.67	2.63	72.29
307	2014	4.18	2.36	5.65	6.71	7.09	7.27	8.04	8.71	5.88	5.84	3.62	1.99	68.12
307	2015	2.11	2.68	4.12	5.49	4.91	6.64	8.57	8.02	7.73	6.12	4.47	3.25	64.05
307	2016	2.66	4.28	5.72	5.43	5.36	6.45	8.89	7.41	4.95	6.08	4.56	3.23	65.13
307	2017	2.04	4.11	5.93	5.28	6.42	7.4	8.42	5.88	5.76	5.23	4.98	3.4	65.21
307	2018	4.33	4.57	4.9	5.66	7.94	9.02	9	7.98	4.57	3.31	3.52	2.93	68.99
307	2019	2.64	3.59	3.43	3.56	3.81	6.96	8.64	9.2	6.88	5.94	3.55	3.75	61.66
307	2020	2.98	2.77	4.52	3.42	6.32	8.98	9.32	9.32	5.41	5.61	4.52	2.74	66.32
307	2021	1.92	2.26	5.3	5.08	4.91	6.62	6.61	7.47	8.12	6.91	5.08	6.04	65.75
307	2022	2.88	2.47	7.37	6.08	5.38	9.24	10.92	9.03	7.73	6.26	4.19	3.61	75.16
307	2023	3.11	2.77	4.37	4.82	4.54	6.2	8.85	9.82	7.34	5.69	3.4	2.77	63.68
		3.063	3.23	5.008	5.627	5.945	7.925	8.905	8.333	6.503	5.465	4.314	3.157	67.48
		0.045	0.048	0.074	0.083	0.088	0.117	0.132	0.123	0.096	0.081	0.064	0.047	
		2.718	2.866	4.443	4.993	5.275	7.032	7.901	7.394	5.77	4.849	3.828	2.801	59.87

To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.



## Compliance History Report

Compliance History Report for CN606309342, RN112130869, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

Customer, Respondent,	CN606309342, Childress Hall,	LLC Classification: NOT APPLICABLE	Rating: N/A
or Owner/Operator:	onesses in a second	Cidssification: Not All Licable	Racing. N/A
Regulated Entity:	RN112130869, CHILDRESS HA	ALL Classification: NOT APPLICABLE	Rating: N/A
Complexity Points:	N/A	Repeat Violator: N/A	
CH Group:	08 - Sewage Treatment Facilit	ies	
Location:	N ON US HIGHWAY 287 ON C	OF CHILDRESS ON US HIGHWAY 287 AND APPROXIMAR 10 AND TRAVEL 2.5 MILES W ON CR P TO THE ENTRA HILDRESS, TX, CHILDRESS COUNTY	
TCEQ Region:	REGION 01 - AMARILLO		
ID Number(s): WASTEWATER PERMIT WQO	016717001		
Compliance History Peri	od: September 01, 2019 to A	ugust 31, 2024 Rating Year: 2024 Rating	g Date: 09/01/2024
Date Compliance History	/ Report Prepared: Marc	h 03, 2025	
Agency Decision Requiri	ng Compliance History:	Permit - Issuance, renewal, amendment, modification suspension, or revocation of a permit.	n, denial,
Component Period Selec	ted: January 30, 2020 to M	arch 03, 2025	
TCEO Staff Member to Co	ontact for Additional Info	ormation Regarding This Compliance History	<i>I</i> .

Phone: (512) 239-3581

#### Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period?

2) Has there been a (known) change in ownership/operator of the site during the compliance period? NO

### Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:

N/A

Name: PT

**B.** Criminal convictions:

N/A

C. Chronic excessive emissions events:

N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

N/A

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

F. Environmental audits:

N/A

Customer was not affiliated to Regulated Entity at time of Compliance History Rating.

	•
н.	Voluntary on-site compliance assessment dates: $\ensuremath{N/A}$
I.	Participation in a voluntary pollution reduction program: $\ensuremath{N/A}$
J.	Early compliance: N/A
Ci+	es Outside of Texas:

N/A

G. Type of environmental management systems (EMSs):

Compliance History Report for CN606309342, RN112130869, Rating Year 2024 which includes Compliance History (CH) components from January 30, 2020, through March 03, 2025.

To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.



## Compliance History Report

Compliance History Report for CN606347763, RN112130869, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

C D	CNCOC2477C2 CUTY Club III		D-11
Customer, Respondent, or Owner/Operator:	CN606347763, CHTX Club, LL	C Classification: NOT APPLICABLE	Rating: N/A
Regulated Entity:	RN112130869, CHILDRESS HA	Classification: NOT APPLICABLE	Rating: N/A
Complexity Points:	N/A	Repeat Violator: N/A	
CH Group:	08 - Sewage Treatment Facilit	ies	<del></del>
Location:	N ON US HIGHWAY 287 ON CI	OF CHILDRESS ON US HIGHWAY 287 AND APPROXIMAR 10 AND TRAVEL 2.5 MILES W ON CR P TO THE ENTRAILDRESS, TX, CHILDRESS COUNTY	
TCEQ Region:	REGION 01 - AMARILLO		
ID Number(s): WASTEWATER PERMIT WQ00	016717001		
Compliance History Peri	od: September 01, 2019 to A	ugust 31, 2024 Rating Year: 2024 Rating	<b>Date:</b> 09/01/2024
Date Compliance History	Report Prepared: Marc	n 03, 2025	
Agency Decision Requiri	ng Compliance History:	Permit - Issuance, renewal, amendment, modification suspension, or revocation of a permit.	, denial,
Component Period Selec	ted: January 30, 2020 to M	arch 03, 2025	
TCFO Staff Member to Co	ontact for Additional Info	ormation Regarding This Compliance History	1_

Phone: (512) 239-3581

#### Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period?

2) Has there been a (known) change in ownership/operator of the site during the compliance period?

### Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:

N/A

Name: PT

**B.** Criminal convictions:

N/A

C. Chronic excessive emissions events:

N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

N/A

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

F. Environmental audits:

N/A

Customer was not affiliated to Regulated Entity at time of Compliance History Rating.

	·
н.	Voluntary on-site compliance assessment dates: $\ensuremath{N/A}$
I.	Participation in a voluntary pollution reduction program: $\ensuremath{N/A}$
J.	Early compliance: N/A
Si+	es Outside of Texas:

N/A

G. Type of environmental management systems (EMSs):

Compliance History Report for CN606347763, RN112130869, Rating Year 2024 which includes Compliance History (CH) components from January 30, 2020, through March 03, 2025.

Senate Bill 709 (84th Legislative Session, 2015) amended the Texas Water Code by adding new Section 5.5553, which requires the Texas Commission on Environmental Quality (TCEQ) to provide written notice to you at least thirty (30) days prior to the TCEQ's issuance of draft permits for applications that are located in your district.

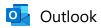
CHTX Club, LLC and Childress Hall, LLC, P.O. Box 298, Childress, Texas 79201, have applied to the TCEQ for proposed Texas Land Application Permit No. WQ0016717001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 9,999 gallons per day via irrigation of 250 acres of public access land. The domestic wastewater treatment facility and disposal area will be located at 15641 County Road P, near the city of Childress, in Childress County, Texas 79201. TCEQ received this application on January 30, 2025. The permit application will be available for viewing and copying at Childress City Hall, 315 Commerce Street, Childress, in Childress County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. <a href="https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.3041,34.531751&level=18">https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.3041,34.531751&level=18</a>

TCEQ is preparing the initial draft permit. At the time the draft permit is issued, the applicant will be required to publish notice in a newspaper of general circulation, and the TCEQ will provide a copy of the notice of draft permit to persons who have requested to be on a mailing list.

Questions regarding this application may be direct	ted to Mr. Deba Dutta, P.I	E., by calling
512-239-4608.		

Issuance Date:



## CHTX Club, LLC., Permit No. WQ0016717001 Application for a New Permit

From Che Shadle < Che. Shadle@ojdengineering.com>

Date Wed 3/5/2025 8:30 AM

To Andrew Gorton < Andrew.Gorton@Tceq.Texas.Gov>

#### Andrew

I am requesting an extension to get you the information requested in our email shown below. We are waiting on soils samples, and have had some bad weather up here that has slowed us down. Let me know.

#### **Thanks**

## Che Shadle, P.E.

President

## OJD Engineering, LLC



2420 Lakeview Drive Amarillo, TX 79109

ph: 808.352.7117 fax: 808.352.7188

cell: 808.681.0108

che.shadle@ojdengineering.com

www.ojdengineering.com

Engineering: F-4393 Surveying: F-10090900

From: Andrew Gorton < Andrew.Gorton@tceq.texas.gov >

Date: February 19, 2025 at 11:32:01 AM CST

To: egreytok@childresshall.com

Cc: Sara Holmes < Sara. Holmes@tceq.texas.gov >

Subject: CHTX Club, LLC., Permit No. WQ0016717001 Application for a New Permit

Good afternoon Mr. Greytok,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

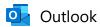
An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Please send updated technically complete and accurate information within **14 days** (March 5<sup>th</sup>) of the date of this email.

Any revisions can be sent electronically to myself or Sara Holmes (cc'd on this email). Please let me know if you have any questions.

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585
Andrew.Gorton@tceq.texas.gov



### RE: CHTX, LLC, WQ0016717001

From Che Shadle < Che. Shadle@ojdengineering.com >

Date Wed 3/5/2025 4:06 PM

**To** Andrew Gorton < Andrew.Gorton@Tceq.Texas.Gov>

Cc Sara Holmes <Sara.Holmes@tceq.texas.gov>; Clint Green <Clint.Green@ojdengineering.com>

Andrew

Received. Thank you.

## Che Shadle, P.E.

President

## OJD Engineering, LLC



2420 Lakeview Drive Amarillo, TX 79109

ph: 808.352.7117 fax: 808.352.7188

cell: 808.681.0108

che.shadle@ojdengineering.com

www.ojdengineering.com

Engineering: F-4393 Surveying: F-10090900

From: Andrew Gorton < Andrew. Gorton@Tceq. Texas. Gov>

Sent: Wednesday, March 5, 2025 4:05 PM

**To:** Che Shadle < Che.Shadle@ojdengineering.com> **Cc:** Sara Holmes < Sara.Holmes@tceq.texas.gov>

Subject: CHTX, LLC, WQ0016717001

Good afternoon Che.

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Therefore, you must send updated technically complete and accurate information by **March 19, 2025**.

Please let us know if you have any questions.

Thank you,

-Andy

Andrew Gorton, P.G.

Texas Commission on Environmental Quality

MC-150

PO Box 13087

Austin, TX 78711-3087

512.239.4585

Andrew.Gorton@tceq.texas.gov



March 12, 2025

Andrew Gorton, P.G. TCEQ – MC148 P.O. Box 13087 Austin, Texas 78711-3087

Re: CHTX Club, LLC - Permit No. WQ00167170021

Mr. Gorton:

Below are the reponses to the items that you requested in the Technical Completeness Review that you sent on Thursday, February 27, 2025

#### GEOLOGY and GROUNDWATER

1. This reviewer identified approximately 20 water wells within one mile of the proposed facility, including the irrigation areas, using the Texas Water Development Board Water Data Interactive website. These wells include several additional wells in the "123900"-series, and also 65344, 241006, 630794, 665199, 665200, 665201, 687993, 687992, and 688000. Please include these wells on the USGDS topographic map in the application, and for each well within one-half mile of the proposed facility, including the irrigation areas, please complete Table 3.0(3) in Worksheet 3.0 and provide well logs for these wells.

Please see the attached revised Table 3.0(3) in Worksheet 3.0 and the well log (Attachment 1) for each listed well. A revised USGS topographic map (Attachmetnt 2) with each well within one-half mile of the proposed facility, including irrigation areas is provided.

2. Attachment T-6, Liner Certification: Note that a wastewater pond with a synthetic liner is required to include an underdrain with a leachate detection and collection system per 30 TAC §217.203. Please contact the Water Quality Division Plans and Specs Team at (512) 239-4444 to discuss the proposal to exclude the underdrain and leachate detection and collection system presented in the application.

A variance is being requested for the use of synthetic liner without a leak detection/collection system. (Attachement 3, Summary Transmittal Letter)

3. Attachment T-9, Groundwater Quality Technical Report: Please include information on the wastewater pond liner in the Report.

Groundwater Quatlity Technical Report (Attachment 4) has been revised to include information on the wastewater pond liner.

Wolfforth | Amarillo

fax: 806 352.7188

ph: 806 352.7117



### **AGRONOMY and SOILS**

ph: 806 352.7117

1. Domestic Technical Report 1.0, Sections 1 and 2. Treatment Process – The proposed flow in the application lists 9,999 GPD, but the treatment process description lists 150 GPD. Please clarify what the correct proposed flow rate is (this comment also applies to Technical Report 1.1).

Domestic Technical Report 1.0, Sections 1 and 2. Treatment Process have been revised to remove the treatment process description lists 150 GPD and state 9,999 GPD of treated effluent and 750,000 GPD freshwater applied to 250 acres of golf course. Please see attached revised TCEO-10054 Page 2 of 66 and Page 19 of 66 (Attachment 5).

2. Domestic Worksheet 3.0, Section 2. Land Application Site(s) – Please include a cool season crop if year-round irrigation is anticipated.

Bermuda Grass is the cool season crop for this permit. As shown in (Attachment 6), Bermuda has ET taken place during cool seasons. Irrigation, weather permitting, is applied daily year round with the effluent being mixed with 750,000 gpd nutrient uptake from the effluent is negligible.

3. Domestic Worksheet 3.0, Section 5. Annual Cropping Plan – Please include a cool season crop if year-round irrigation is anticipated.

Bermuda Grass is the cool season crop for this permit. As shown in (Attachment 6), Bermuda has ET taken place during cool seasons. Irrigation, weather permitting, is applied daily year round with the effluent being mixed with 750,000 gpd nutrient uptake from the effluent is negligible.

4. Domestic Worksheet 3.0, Section 8. Soil Map and Soil Analyses - Please submit Soil Analyses for the land application areas.

Provide analyses of the soil in the land application site(s) for pH [2:1 (v/v) water/soil mixture]; electrical conductivity [2:1 (v/v) water/soil mixture]; sodium adsorption ratio (SAR) from a water saturated paste and its constituent parameters (water-soluble Na, Ca and Mg reported in mg/L); total Kjeldahl nitrogen (TKN); total nitrogen (organic-nitrogen + nitrate-nitrogen + ammonium-nitrogen); nitrate-nitrogen (from a 1 N KCl soil extract); potassium, phosphorous; calcium; magnesium; sulfur; and sodium. The nutrient parameters should be analyzed on a plant-available basis. Phosphorus shall be analyzed according to the Mehlich III procedure with inductively coupled plasma and potassium, calcium, magnesium, sodium, and sulfur may also be analyzed in the Mehlich III soil extract. Plant-available phosphorus, potassium, calcium, magnesium, sodium and sulfur shall be reported on a dry weight basis in mg/kg; electrical conductivity, in mmho/cm [same as deciSiemens/meter (dS/m)]; and pH, in standard units. When reporting the results, include all information concerning fertilizer recommendations. Provide a copy of this plan to the analytical laboratory prior to sample analysis.

Composite or benchmark sampling techniques should be used when sampling the soils of the wastewater application area. Individual soil types, as defined by the USDA Soil Conservation Service Soil Survey, should be sampled individually at zones 0-6, 6-18, and 18-

Wolfforth | Amarillo



30 inches. Each composite sample must represent no more than 80 acres with no less than 15 subsamples representing each composite sample. Each benchmark sample must represent no more than 80 acres with at least 7 subsamples for each benchmark composite sample. Subsamples must be composited by individual site, zone, and soil type for analysis and reporting.

Attached are the soil analyses (Attachment 7) results of the sampled areas.

5. Domestic Worksheet 3.1, Surface Land Disposal of Effluent – Please fill out Section 1 in its entirety, including design application rate and method of application. Please also fill out Section 2 of the worksheet.

Please see attached Domestic Worksheet 3.1 with completed Sections 1 and 2 (Attachment 8).

Thank you,

Che Shadle, P.E. President OJD Engineering, LLC F-4393

fax: 806 352.7188



## **ATTACHMENT 1**



fax: 806 352.7188

Engineering Firm # 4393 - Surveying Firm # 10090900

## Section 5. Annual Cropping Plan (Instructions Page 67)

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**: <u>T-7</u>

- 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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: A-4

- 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
1230601	1230601 Stock Unknown		Cased	
1230602 Unused N		Cased		
1230901	1230901 Unused N		Cased	
65344	Irrigation	Unknown	Cased	
See Attachment	For Additional			

TCEQ-10054 (10/17/2024) Domestic Wastewater Permit Application Technical Report

Table 3.0(3) - Water Well Data

g?Y/N		Open, cased, capped, or plugged?	Proposed Best Management Practice	
241006	Stock	Y	Cased	
630794	Irrigation	Y	Cased	
665199	Test Well	N	Plugged	
665200	Test Well	N	Plugged	
665201	Test Well	N	Plugged	
687992	Domestic	Y	Cased	
687993	Domestic	Y	Cased	
688000	Domestic	Y	Cased	
1230902	Unused	N	Cased	
1230903	Unused	N	Cased	
1230905	Unused	N	Cased	
1230906	Stock	Y	No Data	
1230907	Unused	N	Cased	
1230920	Domestic	Y	Cased	
630794	Irrigation	Y	Cased	





## **GWDB** Reports and Downloads

### **Well Basic Details**

### **Scanned Documents**

State Well Number	1230601
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.544167
Latitude (degrees minutes seconds)	34° 32' 39" N
Longitude (decimal degrees)	-100.285834
Longitude (degrees minutes seconds)	100° 17' 09" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1735
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	103
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	4/0/1949
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Historical
Water Quality Available	No
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	Howard Head City well
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	9/13/2001
Last Update Date	10/9/2001

**Remarks** City # 13. Yield 138 gpm with 31 ft drawdown when drilled. Water levels taken on 3/30/49 were taken as part of a pump test prior to well completion.

Casing							
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)	
16	Blank	Steel			0	40	
8	Blank	Steel			40	69	
8	Screen	Steel			69	99	
8	Blank	Steel			99	103	

Well Tests - No Data

Lithology - No Data

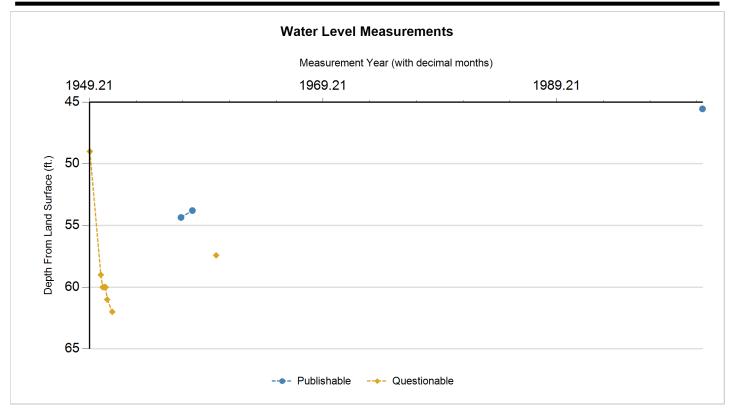
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	3/30/1949		49	Î	1686	1	Registered Water Well Driller	Unknown	17	
Q	3/30/1949		80	31.00	1655	2	Registered Water Well Driller	Unknown	17	
Q	3/30/1949		51	(29.00)	1684	3	Registered Water Well Driller	Unknown	17	
Q	3/8/1950		59	8.00	1676	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/4/1950		60	1.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/23/1950		60	0.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/24/1950		60	0.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		60	0.00	1675	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		61	1.00	1674	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		62	1.00	1673	1	Other or Source of Measurement Unknown	Unknown	2	
Р	1/18/1957		54.35	(7.65)	1680.65	1	Texas Water Development Board	Steel Tape		
Р	1/8/1958		53.79	(0.56)	1681.21	1	Texas Water Development Board	Steel Tape		
Q	1/21/1960		57.42	3.63	1677.58	1	Texas Water Development Board	Steel Tape	2	
Р	9/13/2001		45.55	(11.87)	1689.45	1	Texas Water Development Board	Steel Tape		





## **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable

Remark ID	Remark Description			
2	Pumping-level measurement			
17 Measurement before well completion				





### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





## **GWDB** Reports and Downloads

### **Well Basic Details**

### **Scanned Documents**

State Well Number	1230602
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.543334
Latitude (degrees minutes seconds)	34° 32' 36" N
Longitude (decimal degrees)	-100.277222
Longitude (degrees minutes seconds)	100° 16' 38" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1722
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	110
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	4/0/1949
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	Turbine
	Electric Motor
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Childress No. 14
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	2/13/1951
Last Update Date	

Remarks City # 14. Yield 310 gpm with 27 ft drawdown when drilled.

SI	

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	40
8	Blank	Steel			40	56
8	Screen	Steel			56	86
8	Blank	Steel			86	96

Well Tests - No Data

Lithology - No Data

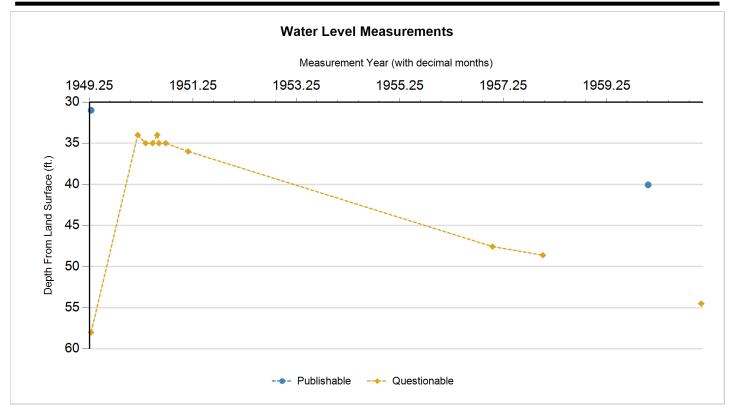
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	4/14/1949		31		1691	1	Other or Source of Measurement Unknown	Unknown	1	
Q	4/14/1949		58	27.00	1664	2	Other or Source of Measurement Unknown	Unknown	2	
Q	3/8/1950		34	(24.00)	1688	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/4/1950		35	1.00	1687	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/23/1950		35	0.00	1687	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/26/1950		34	(1.00)	1688	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		35	1.00	1687	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		35	0.00	1687	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		36	1.00	1686	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/18/1957		47.57	11.57	1674.43	1	Texas Water Development Board	Steel Tape	2	
Q	1/8/1958		48.61	1.04	1673.39	1	Texas Water Development Board	Steel Tape	2	
Р	1/21/1960		40.06	(8.55)	1681.94	1	Texas Water Development Board	Steel Tape		
Q	2/1/1961		54.5	14.44	1667.5	1	Texas Water Development Board	Steel Tape	2	





## **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable

Remark ID	Remark Description	
1	Accurately reflects water level conditions	
2	Pumping-level measurement	





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





## **GWDB** Reports and Downloads

#### **Well Basic Details**

### **Scanned Documents**

State Well Number	1230901
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.538056
Latitude (degrees minutes seconds)	34° 32' 17" N
Longitude (decimal degrees)	-100.284167
Longitude (degrees minutes seconds)	100° 17' 03" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1740
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	123
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	5/0/1949
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
, , , , , , , , , , , , , , , , , , ,	Thursday or Trails
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Childress No. 12
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	2/13/1951
Last Update Date	5/20/2003

Remarks City # 12. Yield 112 gpm with 44 ft drawdown when drilled.

	SI	
va		

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	60
8	Blank	Steel			60	83
8	Screen	Steel			83	113
8	Blank	Steel			113	123

Well Tests - No Data

Lithology - No Data

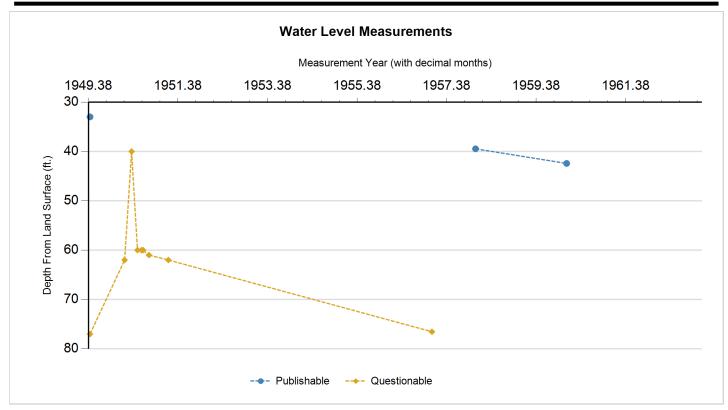
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)		Measuring Agency	Method	Remark ID	Comments
Р	5/30/1949		33		1707	1	Other or Source of Measurement Unknown	Unknown	1	
Q	5/30/1949		77	44.00	1663	2	Other or Source of Measurement Unknown	Unknown	2	
Q	3/7/1950		62	(15.00)	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/4/1950		40	(22.00)	1700	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/22/1950		60	20.00	1680	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/25/1950		60	0.00	1680	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		60	0.00	1680	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		61	1.00	1679	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		62	1.00	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/18/1957		76.53	14.53	1663.47	1	Texas Water Development Board	Steel Tape	2	
Р	1/8/1958		39.47	(37.06)	1700.53	1	Texas Water Development Board	Steel Tape		
Р	1/21/1960		42.43	2.96	1697.57	1	Texas Water Development Board	Steel Tape		
Χ	1/16/1963					1	Texas Water Development Board		32	





## **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable
Χ	No Measurement

Remark ID	Remark Description
1	Accurately reflects water level conditions
2	Pumping-level measurement
32	Well temporarily inaccessible due to winterization or debris





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Owner: Rick Husband Owner Well #: No Data

Address: **16100 CR S** Grid #: **12-30-5** 

Childress, TX 79201

Well Location: No Data

Latitude: 34° 33' 26" N

Longitude: 100° 19' 09" W

Well County: Hall Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 7/11/2005 Drilling End Date: 7/12/2005

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 20
 0
 105

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size

Filter Pack Intervals: 10 105 Gravel 5/8

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

10

Seal Method: water Distance to Property Line (ft.): No Data

Sealed By: **Pete Neufeld** Distance to Septic Field or other

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Slab Installed

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

No Data

Water Type

No Data

Chemical Analysis Made: Unknown

Did the driller knowingly penetrate any strata which

contained injurious constituents?: Unknown

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Monte Moore Drilling

1313 N. Hwy. 137 Lamesa, TX 79331

Driller Name: Monte Moore License Number: 3289

Apprentice Name: Pete Neufeld Apprentice Number: 0000393

Comments: No Data

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	7	topsoil
7	21	sandy clay
21	70	sand
70	87	sand/gravel
87	93	clay
93	102	sand
102	105	red clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
12 3/4"	New Steel	Blank(	0-45) Screen(45-105) .125

#### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: Howard Head Owner Well #:

Address: 1547 CR 8 Grid #: 12-30-9

Childress, TX 79201

Well Location: CR 10 & CR P

Childress, TX 79201 Longitude: 100° 16' 44" W

Latitude:

34° 31' 39" N

Well County: Childress Elevation: 1758 ft. above sea level

Type of Work: New Well Proposed Use: Stock

Drilling Start Date: 12/9/2010 Drilling End Date: 12/9/2010

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 8.5
 0
 100

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size

Filter Pack Intervals: 10 100 Gravel 1/4"

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

6

Seal Method: Slurry Mix Distance to Property Line (ft.): 100+

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): 100+

Distance to Septic Tank (ft.): No Data

Method of Verification: Sight

Surface Completion: Surface Sleeve Installed

Water Level: 50 ft. below land surface on 2010-12-09 Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 80

Well Tests: Pump Yield: 10 GPM with 0 ft. drawdown after 1 hours

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: Unknown

Did the driller knowingly penetrate any strata which

contained injurious constituents?: Unknown

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: WP Drilling

**PO Box 29** 

Quanah, TX 79252

Driller Name: Gary Walther License Number: 58106

Comments: No Data

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	63	Sand
63	66	Gravel
66	75	Sand
75	90	Gravel
90	100	Sand

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5" New	Plastic 0/	100 0.0	35

#### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: HOWARD HEAD Owner Well #: APWR-1

Address: **1547 COUNT ROAD 9** Grid #: **12-30-9** 

CHILDRESS, TX 79201

Well Location: 1547 COUNT ROAD 9

CHILDRESS, TX 79201 Longitude: 100° 17' 28.46" W

Well County: Childress Elevation: 1783 ft. above sea level

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 7/19/2022 Drilling End Date: 12/15/2022

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 18.75
 0
 175

 13.5
 175
 258

Drilling Method: Air Rotary; Mud (Hydraulic) Rotary

Borehole Completion: FROM -165 TO 258 WITH 3/8

Annular Seal Data: No Data

Seal Method: **PUMPED WITH TRIMMIE** Distance to Property Line (ft.): **MILES** 

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): NONE

Distance to Septic Tank (ft.): No Data

Method of Verification: GPS

Surface Completion: Surface Sleeve Installed Surface Completion by Driller

Water Level: 79.7 ft. below land surface on 2022-12-19

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 275

Well Tests: Jetted Yield: 500 GPM with 130 ft. drawdown after 12 hours

Water Quality: Strata Depth (ft.) Water Type

180 - 258 FRESH

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: WEST TEXAS WATER WELL SERVICE

3410 MANKINS AVE ODESSA, TX 79764

Driller Name: RUSSELL SOUTHERLAND License Number: 2713

Comments: DRILLED 300FT AND THERE IS SLOUGH IN BOREHOLE FROM 258' TO 300 FT

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	30	SANDY RED TOP, SOIL W/ STREAKS OF SMALL GRAVEL
30	62	FINE TAN SAND
62	107	SAND GRAVEL
107	132	RED CLAY
132	137	YELLOW SHALE
137	140	BLUE SHALE
140	180	RED, BLUE SHALE
180	258	SANDSTONE W/ SAND TAN

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
14.5	HSLA	New Steel	0.25	2	175
10.75	Blank	New Stainless Steel	0.25	3	198
10.75	Screen	New Stainless Steel	0.050	198	258

## IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: CHTX Club LLC Owner Well #: No Data

Address: 1599 CR7 Grid #: 12-30-8

Childress, TX 79201

Well Location: .25 Miles North of Road P and Road 7

In Country, TX

Latitude:

34° 32' 00.89" N

Longitude: 100°

100° 18' 26.06" W

Well County: Childress Elevation: No Data

Type of Work: New Well Proposed Use: Test Well

Drilling Start Date: 4/18/2024 Drilling End Date: 4/18/2024

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 7.5
 0
 100

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Plugged

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Concrete 3 Bags/Sacks

15

100

Bentonite 18 Bags/Sacks

Seal Method: **Poured** Distance to Property Line (ft.): >500

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): >1000

Distance to Septic Tank (ft.): >1000

Method of Verification: GPS

Surface Completion: Plugged Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Carter Drilling Co., Inc

3301 56th St

Lubbock, TX 79413

Driller Name: Bruce Carter License Number: 2320

Apprentice Name: Mark Rhoads Apprentice Number: 60646

Comments: No Data

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top Soil
3	17	Sand
17	30	Sandy Clay
30	96	Sand & Gravel
96	100	Red Bed

Dia. (in.) New/Used	Туре	Setting From/To (ft.)
No Data		

### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: CHTX Club LLC Owner Well #: No Data

Address: 1599 CR7 Grid #: 12-30-8

Childress, TX 79201

Well Location: .25 Miles North of Road P and Road 7

In Country, TX Longitude:

Well County: Childress Elevation: No Data

Type of Work: New Well Proposed Use: Test Well

Drilling Start Date: 4/18/2024 Drilling End Date: 4/18/2024

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 7.5
 0
 130

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Plugged

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Concrete 3 Bags/Sacks

15

130

Bentonite 22 Bags/Sacks

Seal Method: **Poured** Distance to Property Line (ft.): >500

Sealed By: **Driller**Distance to Septic Field or other

concentrated contamination (ft.): >1000

Distance to Septic Tank (ft.): >1000

Method of Verification: GPS

34° 31' 55.74" N

100° 18' 19.12" W

Surface Completion: Plugged Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality: No Data

Strata Depth (ft.) Water Type

No Data

No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which

contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Carter Drilling Co., Inc

3301 56th St

Lubbock, TX 79413

Driller Name: Bruce Carter License Number: 2320

Apprentice Name: Mark Rhoads Apprentice Number: 60646

Comments: No Data

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top Soil
3	12	Sand
12	34	Sandy Clay
34	125	Sand & Gravel
125	130	Red Bed

Dia. (in.) New/Used	Туре	Setting From/To (ft.)
No Data		

### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: CHTX Club LLC Owner Well #: No Data

Address: 1599 CR7 Grid #: 12-30-8

Childress, TX 79201

Well Location: .25 Miles North of Road P and Road 7

In Country, TX

Latitude:

Longitude: 100° 18' 08.6" W

34° 31' 49.55" N

Well County: Childress Elevation: No Data

Type of Work: New Well Proposed Use: Test Well

Drilling Start Date: 4/18/2024 Drilling End Date: 4/18/2024

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 7.5
 0
 130

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Plugged

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Concrete 3 Bags/Sacks

15

135

Bentonite 22 Bags/Sacks

Seal Method: **Poured** Distance to Property Line (ft.): >500

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): >1000

Distance to Septic Tank (ft.): >1000

Method of Verification: GPS

Surface Completion: Plugged Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Carter Drilling Co., Inc

3301 56th St

Lubbock, TX 79413

Driller Name: Bruce Carter License Number: 2320

Apprentice Name: Mark Rhoads Apprentice Number: 60646

Comments: No Data

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top Soil
3	18	Sand
18	48	Sandy Clay
48	133	Sand & Gravel
133	135	Red Bed

Dia. (in.) New/Used	Type	Setting From/To (ft.)
No Data		

### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: CHTX Club LLC Owner Well #: No Data

Address: 1599 CR7 Grid #: 12-30-8

Childress, TX 79201

Well Location: .25 Miles North of Road P and Road 7

In Country, TX Longitude:

Well County: Childress Elevation: No Data

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 12/16/2024 Drilling End Date: 12/17/2024

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 21
 0
 151

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Perforated or Slotted

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Cement 73 Bags/Sacks

Seal Method: Positive Displacement Distance to Property Line (ft.): >500

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): >1000

Distance to Septic Tank (ft.): >1000

Method of Verification: GPS

34° 31' 49.55" N

100° 18' 08.6" W

Surface Completion: Pitless Adapter Used Surface Completion by Driller

Water Level: 80 ft. below land surface on 2024-12-17 Measurement Method: Electric Line

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 148

Well Tests: Pump Yield: 34 GPM with 50 ft. drawdown after 36 hours

Water Quality:

No Data

Water Type

No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Carter Drilling Co., Inc

3301 56th St

Lubbock, TX 79413

Driller Name: Bruce Carter License Number: 2320

Apprentice Name: Mark Rhoads Apprentice Number: 60646

Comments: No Data

Report Amended on 2/3/2025 by Request #44292

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top Soil
3	18	Sand
18	30	Sandy Clay
30	147	Sand & Gravel
147	151	Red Bed

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
12.25	Blank	New Plastic (PVC)	SDR 21	0	31
12.25	Perforated or Slotted	New Plastic (PVC)	SDR 21 0.035	31	151

## IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner Well #: Owner: No Data **CHTX Club LLC** 

Address: 1599 CR7 Grid #: 12-30-8

Childress, TX 79201

Latitude: 34° 31' 55.74" N .25 Miles North of Road P and Road 7 Well Location:

In Country, TX

Longitude: 100° 18' 19.12" W

Well County: **Childress** Elevation: No Data

Type of Work: **New Well** Proposed Use: **Domestic** 

Drilling Start Date: 12/17/2024 Drilling End Date: 12/18/2024

Diameter (in.) Top Depth (ft.) Bottom Depth (ft.) Borehole: 21 143 0

Mud (Hydraulic) Rotary **Drilling Method:** 

Borehole Completion: Perforated or Slotted

Top Depth (ft.) Bottom Depth (ft.) Description (number of sacks & material) Annular Seal Data: 23 Cement 54 Bags/Sacks

Seal Method: Positive Displacement Distance to Property Line (ft.): >500

Sealed By: Driller Distance to Septic Field or other

concentrated contamination (ft.): >1000

Distance to Septic Tank (ft.): >1000

Method of Verification: GPS

Surface Completion: **Pitless Adapter Used Surface Completion by Driller** 

Water Level: 67 ft. below land surface on 2024-12-19 Measurement Method: Electric Line

Packers: No Data

Type of Pump: **Submersible** Pump Depth (ft.): 142

Well Tests: **Pump** Yield: 52 GPM with 55 ft. drawdown after 36 hours Water Quality:

No Data

Water Type

No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Carter Drilling Co., Inc

3301 56th St

Lubbock, TX 79413

Driller Name: Bruce Carter License Number: 2320

Apprentice Name: Mark Rhoads Apprentice Number: 60646

Comments: No Data

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description				
0	3	Top Soil				
3	12	Sand				
12	34	Sandy Clay				
34	140	Sand & Gravel				
140	143	Red Bed				

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
12.25	Blank	New Plastic (PVC)	SDR 21	0	23
12.25	Perforated or Slotted	New Plastic (PVC)	SDR 21 0.035	23	143

#### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Owner: CHTX Club LLC Owner Well #: No Data

Address: 1599 CR7 Grid #: 12-30-8

Childress, TX 79201

Well Location: .25 Miles North of Road P and Road 7

In Country, TX

Latitude: 34° 31' 49.55" N

Longitude: 100° 18' 08.6" W

Well County: Childress Elevation: No Data

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 12/19/2024 Drilling End Date: 12/20/2024

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 21
 0
 175

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Perforated or Slotted

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Cement 77 Bags/Sacks

Seal Method: Positive Displacement Distance to Property Line (ft.): >500

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): >1000

Distance to Septic Tank (ft.): >1000

Method of Verification: GPS

Surface Completion: Pitless Adapter Used Surface Completion by Driller

Water Level: 99 ft. below land surface on 2024-12-23 Measurement Method: Electric Line

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 174

Well Tests: Pump Yield: 260 GPM with 78 ft. drawdown after 36 hours

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: Carter Drilling Co., Inc

3301 56th St

Lubbock, TX 79413

Driller Name: Bruce Carter License Number: 2320

Apprentice Name: Mark Rhoads Apprentice Number: 60646

Comments: No Data

Report Amended on 2/19/2025 by Request #44424

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top Soil
3	18	Sand
18	48	Sandy Clay
48	133	Sand & Gravel
133	135	Red Bed
135	170	Sand
170	175	Red Bed

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
12.25	Blank	New Plastic (PVC)	SDR 21	0	95
12.25	Perforated or Slotted	New Plastic (PVC)	SDR 21 0.035	95	175

### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.





### **GWDB** Reports and Downloads

### **Well Basic Details**

#### **Scanned Documents**

State Well Number	1230902
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.537222
Latitude (degrees minutes seconds)	34° 32' 14" N
Longitude (decimal degrees)	-100.276389
Longitude (degrees minutes seconds)	100° 16' 35" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1745
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	87
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	1/0/1947
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Childress No. 9
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	2/13/1951
Last Update Date	

**Remarks** City # 9. Yield 350 gpm with 20 ft drawdown when drilled.

	SI	
va		

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	42
8	Blank	Steel			42	58
8	Screen	Steel			58	87

Well Tests - No Data

Lithology - No Data

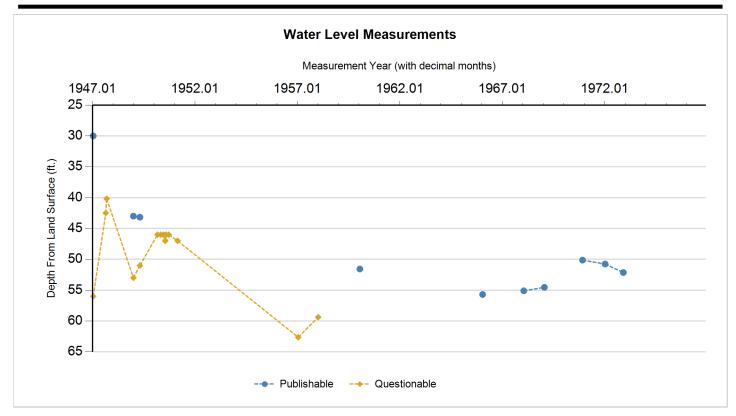
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)		Measuring Agency	Method	Remark ID	Comments
Р	1/16/1947		30		1715	1	Other or Source of Measurement Unknown	Unknown	1	
Q	1/16/1947		56	26.00	1689	2	Other or Source of Measurement Unknown	Unknown	2	
Q	8/30/1947		42.5	(13.50)	1702.5	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/16/1947		40.17	(2.33)	1704.83	1	Other or Source of Measurement Unknown	Unknown	2	
Р	1/2/1949		43	2.83	1702	1	Other or Source of Measurement Unknown	Unknown	1	
Q	1/2/1949		53	10.00	1692	2	Other or Source of Measurement Unknown	Unknown	2	
Р	4/28/1949		43.17	(9.83)	1701.83	1	Other or Source of Measurement Unknown	Unknown	1	
Q	4/28/1949		51	7.83	1694	2	Other or Source of Measurement Unknown	Unknown	2	
Q	3/6/1950		46	(5.00)	1699	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/3/1950		46	0.00	1699	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/21/1950		46	0.00	1699	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/24/1950		47	1.00	1698	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		46	(1.00)	1699	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		46	0.00	1699	1	Other or Source of Measurement Unknown	Unknown	2	





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	1/0/1951		47	1.00	1698	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/18/1957		62.63	15.63	1682.37	1	Texas Water Development Board	Steel Tape	2	
Q	1/8/1958		59.38	(3.25)	1685.62	1	Texas Water Development Board	Steel Tape	2	
Р	1/21/1960		51.57	(7.81)	1693.43	1	Texas Water Development Board	Steel Tape		
Χ	1/16/1963					1	Texas Water Development Board		19	
Χ	1/14/1964					1	Texas Water Development Board		19	
Χ	1/13/1965					1	Texas Water Development Board		19	
Р	1/17/1966		55.7		1689.3	1	Texas Water Development Board	Steel Tape		
Χ	1/23/1967					1	Texas Water Development Board		19	
Р	1/21/1968		55.1		1689.9	1	Texas Water Development Board	Steel Tape		
Р	1/23/1969		54.54	(0.56)	1690.46	1	Texas Water Development Board	Steel Tape		
X	1/15/1970					1	Texas Water Development Board		30	
Р	12/8/1970		50.13		1694.87	1	Texas Water Development Board	Steel Tape		
Р	1/10/1972		50.76	0.63	1694.24	1	Texas Water Development Board	Steel Tape		
Р	12/5/1972		52.14	1.38	1692.86	1	Texas Water Development Board	Steel Tape		
Χ	12/2/1974					1	Texas Water Development Board		30	
Χ	12/9/1975					1	Texas Water Development Board		30	
X	12/2/1976					1	Texas Water Development Board		30	

## **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable
Χ	No Measurement

Remark ID	Remark Description
1	Accurately reflects water level conditions
2	Pumping-level measurement
19	Well pumping
30	Well temporarily inaccessible due to impassable roads, locked gate, etc.





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





## **GWDB** Reports and Downloads

#### **Well Basic Details**

### **Scanned Documents**

State Well Number	1230903
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.539445
Latitude (degrees minutes seconds)	34° 32' 22" N
Longitude (decimal degrees)	-100.271944
Longitude (degrees minutes seconds)	100° 16' 19" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1758
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	132
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	3/12/1947
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Childress No. 10
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	2/13/1951
Last Update Date	

Remarks City # 10. Yield 180 gpm with 28 ft drawdown when drilled.

	SI	
va		

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank				0	44
8	Blank				44	74
8	Screen				74	115

Well Tests - No Data

Lithology - No Data

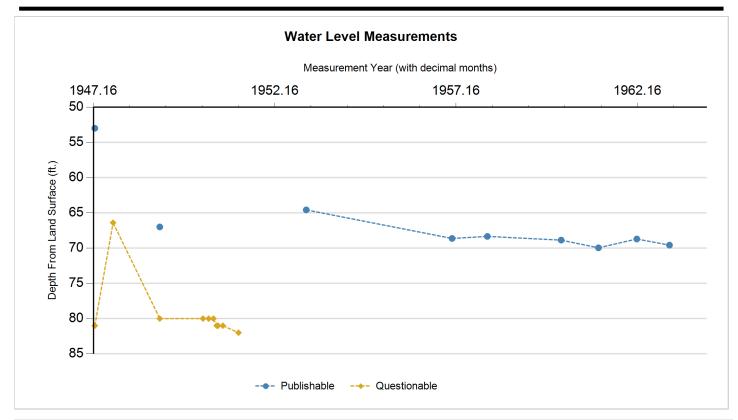
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	3/12/1947		53		1705	1	Other or Source of Measurement Unknown	Unknown	1	
Q	3/12/1947		81	28.00	1677	2	Other or Source of Measurement Unknown	Unknown	2	
Q	9/16/1947		66.4	(14.60)	1691.6	1	Other or Source of Measurement Unknown	Unknown	2	
Q	12/31/1948		80	13.60	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Р	12/31/1948		67	(13.00)	1691	2	Other or Source of Measurement Unknown	Unknown	1	
Q	3/6/1950		80	13.00	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/3/1950		80	0.00	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/21/1950		80	0.00	1678	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/24/1950		81	1.00	1677	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		81	0.00	1677	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		81	0.00	1677	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		82	1.00	1676	1	Other or Source of Measurement Unknown	Unknown	2	
Р	1/10/1953		64.58	(17.42)	1693.42	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/18/1957		68.63	4.05	1689.37	1	Texas Water Development Board	Steel Tape		





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)		Measuring Agency	Method	Remark ID	Comments
Р	1/8/1958		68.34	(0.29)	1689.66	1	Texas Water Development Board	Steel Tape		
Р	1/21/1960		68.87	0.53	1689.13	1	Texas Water Development Board	Steel Tape		
Р	2/1/1961		69.96	1.09	1688.04	1	Texas Water Development Board	Steel Tape		
Р	2/22/1962		68.71	(1.25)	1689.29	1	Texas Water Development Board	Steel Tape		
Р	1/16/1963		69.58	0.87	1688.42	1	Texas Water Development Board	Steel Tape		
X	1/14/1964					1	Texas Water Development Board		32	

## **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
1	Accurately reflects water level conditions
2	Pumping-level measurement
32	Well temporarily inaccessible due to winterization or debris





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





## **GWDB** Reports and Downloads

## **Well Basic Details**

#### **Scanned Documents**

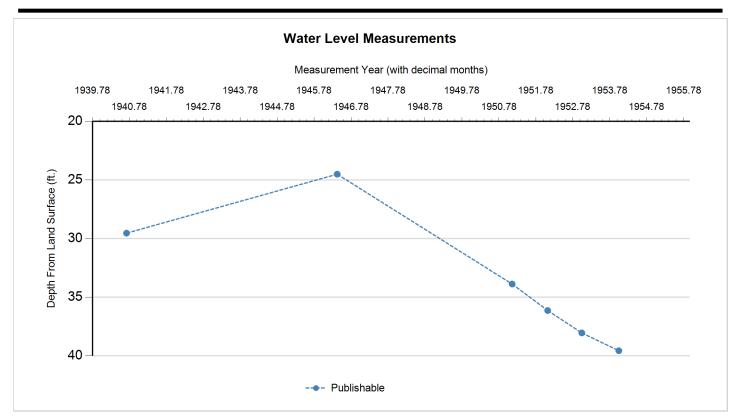
State Well Number	1230905
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.535
Latitude (degrees minutes seconds)	34° 32' 06" N
Longitude (decimal degrees)	-100.280555
Longitude (degrees minutes seconds)	100° 16' 50" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1742
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	45
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Mrs. R. Greer
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	
Last Update Date	

Casing							
Diameter (in.)	Casing Type	Casing Material	Sched	ule Gauge	e To	op Depth (ft.)	Bottom Depth (ft.)
6	Blank					0	
Well Tests -	No Data						
Lithology -	No Data						
Annular Sea	al Range - No D	)ata					
Borehole - No Data				Plugged Back	- No Data		
Filter Pack - No Data					Packers - N	lo Data	







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	9/18/1940		29.53		1712.47	1	Other or Source of Measurement Unknown	Unknown	1	
Р	4/0/1946		24.5	(5.03)	1717.5	1	Other or Source of Measurement Unknown	Unknown	1	
Р	2/22/1951		33.87	9.37	1708.13	1	Other or Source of Measurement Unknown	Unknown	1	
Р	2/8/1952		36.13	2.26	1705.87	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/10/1953		38.04	1.91	1703.96	1	Other or Source of Measurement Unknown	Unknown	1	
Р	1/11/1954		39.56	1.52	1702.44	1	Other or Source of Measurement Unknown	Unknown	1	
Χ	1/10/1955					1	Texas Water Development Board	Steel Tape	24	

## **Code Descriptions**

Status Code	Status Description
Р	Publishable
X	No Measurement

Remark ID	Remark Description			
1	Accurately reflects water level conditions			
24	Well apparently dry, well depth reached without water level			





#### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





## **GWDB** Reports and Downloads

## **Well Basic Details**

#### **Scanned Documents**

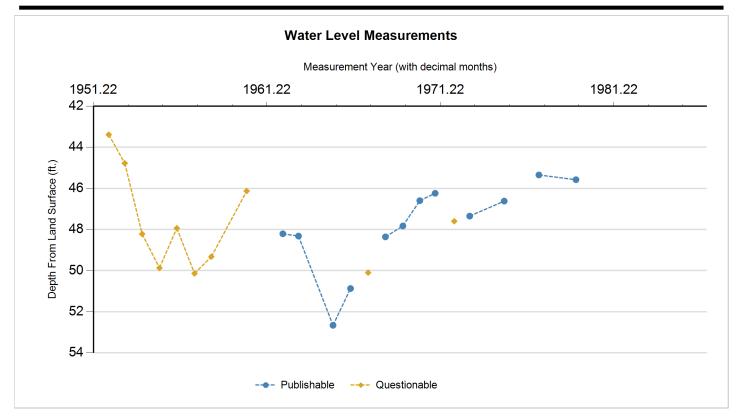
State Well Number	1230906		
County	Childress		
River Basin	Red		
Groundwater Management Area	6		
Regional Water Planning Area	A - Panhandle		
Groundwater Conservation District	Gateway GCD		
Latitude (decimal degrees)	34.533334		
Latitude (degrees minutes seconds)	34° 32' 00" N		
Longitude (decimal degrees)	-100.280833		
Longitude (degrees minutes seconds)	100° 16' 51" W		
Coordinate Source	+/- 10 Seconds		
Aquifer Code	UNKNOWN - Aquifer Not Able to be Determined		
Aquifer	Seymour		
Aquifer Pick Method			
Land Surface Elevation (feet above sea level)	1745		
Land Surface Elevation Method	Interpolated From Topo Map		
Well Depth (feet below land surface)			
Well Depth Source			
Drilling Start Date			
Drilling End Date			
Drilling Method			
Borehole Completion			

Well Type Well Use Stock Water Level Observation Water Quality Available Pump Piston Pump Depth (feet below land surface) Power Type Windmill Annular Seal Method Surface Completion Owner Howard Head Driller Other Data Available Well Report Tracking Number Plugging Report Tracking Number U.S. Geological Survey Site Number Texas Commission on Environmental Quality Source Id Groundwater Conservation District Well Number Owner Well Number Previous State Well Number Reporting Agency Texas Water Development Board Created Date Last Update Date		
Water Level Observation Historical  Water Quality Available Yes  Pump Piston  Pump Depth (feet below land surface)  Power Type Windmill  Annular Seal Method  Surface Completion  Owner Howard Head  Driller  Other Data Available  Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Previous State Well Number  Reporting Agency Texas Water Development Board  Created Date	Well Type	Withdrawal of Water
Water Quality Available Pump Piston Pump Depth (feet below land surface) Power Type Windmill Annular Seal Method Surface Completion Owner Howard Head Driller Other Data Available Well Report Tracking Number Plugging Report Tracking Number U.S. Geological Survey Site Number Texas Commission on Environmental Quality Source Id Groundwater Conservation District Well Number Other Well Number Previous State Well Number Reporting Agency Texas Water Development Board Created Date	Well Use	Stock
Pump Depth (feet below land surface) Power Type Windmill Annular Seal Method Surface Completion Owner Howard Head Driller Other Data Available Well Report Tracking Number Plugging Report Tracking Number U.S. Geological Survey Site Number Texas Commission on Environmental Quality Source Id Groundwater Conservation District Well Number Other Well Number Previous State Well Number Reporting Agency Texas Water Development Board Created Date  Piston Windmill  Windmill  Howard Head  Howard Head  Floward Hea	Water Level Observation	Historical
Pump Depth (feet below land surface)  Power Type  Annular Seal Method  Surface Completion  Owner  Howard Head  Driller  Other Data Available  Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date	Water Quality Available	Yes
Power Type  Annular Seal Method  Surface Completion  Owner  Howard Head  Driller  Other Data Available  Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date	Pump	Piston
Annular Seal Method  Surface Completion  Owner Howard Head  Driller  Other Data Available  Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency Texas Water Development Board  Created Date  Annual Seal Method  Howard Head  Howard Head  Howard Head  Howard Head  Howard Head  Found Head  Howard Head  Howard Head  Found Head  Found Head  Texas Commission  Texas Water Development Board  Created Date	Pump Depth (feet below land surface)	
Surface Completion  Owner  Howard Head  Driller  Other Data Available  Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date	Power Type	Windmill
Owner Howard Head  Driller Other Data Available Well Report Tracking Number Plugging Report Tracking Number U.S. Geological Survey Site Number Texas Commission on Environmental Quality Source Id Groundwater Conservation District Well Number Owner Well Number Other Well Number Previous State Well Number Reporting Agency Texas Water Development Board Created Date  Howard Head Howard Head  Howard Head  Howard Head  Howard Head  Howard Head  Howard Head	Annular Seal Method	
Driller Other Data Available Well Report Tracking Number Plugging Report Tracking Number U.S. Geological Survey Site Number Texas Commission on Environmental Quality Source Id Groundwater Conservation District Well Number Owner Well Number Other Well Number Previous State Well Number Reporting Agency Texas Water Development Board Created Date  Other Well State Well Number Texas Water Development Board	Surface Completion	
Other Data Available  Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date	Owner	Howard Head
Well Report Tracking Number  Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date	Driller	
Plugging Report Tracking Number  U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date  3/15/1994	Other Data Available	
U.S. Geological Survey Site Number  Texas Commission on Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Texas Water Development Board  Created Date  3/15/1994	Well Report Tracking Number	
Number Texas Commission on Environmental Quality Source Id Groundwater Conservation District Well Number Owner Well Number Other Well Number Previous State Well Number Reporting Agency Texas Water Development Board Created Date 3/15/1994	Plugging Report Tracking Number	
Environmental Quality Source Id  Groundwater Conservation District Well Number  Owner Well Number  Other Well Number  Previous State Well Number  Reporting Agency  Created Date  Texas Water Development Board  3/15/1994		
District Well Number Owner Well Number Other Well Number Previous State Well Number Reporting Agency Created Date 3/15/1994		
Other Well Number  Previous State Well Number  Reporting Agency  Created Date  3/15/1994		
Previous State Well Number  Reporting Agency Texas Water Development Board  Created Date 3/15/1994	Owner Well Number	
Reporting Agency Texas Water Development Board Created Date 3/15/1994	Other Well Number	
Created Date 3/15/1994	Previous State Well Number	
	Reporting Agency	Texas Water Development Board
Last Update Date	Created Date	3/15/1994
	Last Update Date	

Remarks	City # T-5.			
Casing -	No Data			
Well Tes	ts - No Data			
Litholog	y - No Data			
Annular	Seal Range - No Data			
Borehole	e - No Data	Plugged Back -	No Data	
Filter Pa	ck - No Data	F	Packers - No Data	







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	2/8/1952		43.39		1701.61	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/10/1953		44.78	1.39	1700.22	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/11/1954		48.22	3.44	1696.78	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/10/1955		49.87	1.65	1695.13	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/11/1956		47.94	(1.93)	1697.06	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/18/1957		50.14	2.20	1694.86	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/8/1958		49.32	(0.82)	1695.68	1	Other or Source of Measurement Unknown	Unknown	3	
Q	1/21/1960		46.13	(3.19)	1698.87	1	Other or Source of Measurement Unknown	Unknown	3	
Р	2/22/1962		48.21	2.08	1696.79	1	Texas Water Development Board	Steel Tape		
Р	1/16/1963		48.32	0.11	1696.68	1	Texas Water Development Board	Steel Tape		
Р	1/13/1965		52.66	4.34	1692.34	1	Texas Water Development Board	Steel Tape		
Р	1/17/1966		50.87	(1.79)	1694.13	1	Texas Water Development Board	Steel Tape		
Q	1/23/1967		50.1	(0.77)	1694.9	1	Texas Water Development Board	Steel Tape	3	
Р	1/21/1968		48.36	(1.74)	1696.64	1	Texas Water Development Board	Steel Tape		
Р	1/23/1969		47.83	(0.53)	1697.17	1	Texas Water Development Board	Steel Tape		
Р	1/15/1970		46.6	(1.23)	1698.4	1	Texas Water Development Board	Steel Tape		
Р	12/8/1970		46.24	(0.36)	1698.76	1	Texas Water Development Board	Steel Tape		





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	1/10/1972		47.6	1.36	1697.4	1	Texas Water Development Board	Steel Tape	12	
Р	12/5/1972		47.35	(0.25)	1697.65	1	Texas Water Development Board	Steel Tape		
Р	12/2/1974		46.62	(0.73)	1698.38	1	Texas Water Development Board	Steel Tape		
Χ	12/9/1975					1	Texas Water Development Board		30	
Р	12/2/1976		45.35		1699.65	1	Texas Water Development Board	Steel Tape		
Р	1/17/1979		45.58	0.23	1699.42	1	Texas Water Development Board	Steel Tape		
Χ	10/17/1981					1	Texas Water Development Board		30	
Χ	10/7/1982					1	Texas Water Development Board		30	
X	10/3/1984					1	Texas Water Development Board		30	
X	9/21/1985					1	Texas Water Development Board		30	

### **Code Descriptions**

Status Code	Status Description
Р	Publishable
Q	Questionable
Χ	No Measurement

Remark ID	Remark Description
3	Well or wells pumping nearby
12	Uncertain of reason for questionable measurement
30	Well temporarily inaccessible due to impassable roads, locked gate, etc.





### **Water Quality Analysis**

Sample Date: 3/15/1994 Sample Time: 1000 Sample Number: 1 Collection Entity: Texas Water Development Board

Sampled Aquifer: Aquifer Not Able to be Determined

Analyzed Lab: Texas Department of Health Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		214.2	mg/L as CACO 3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		224	mg/L as CACO 3	
01503	ALPHA, DISSOLVED (PC/L)		3	PC/L	2.2
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	20	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)		2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		63.2	ug/L	
03503	BETA, DISSOLVED (PC/L)	<	5	PC/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		273.36	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	2	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		86	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		22	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	10	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	10	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.36	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		326	mg/L as CACO 3	
01046	IRON, DISSOLVED (UG/L AS FE)		18.1	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	5	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		27	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	2	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.13	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	20	ug/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		10.8	mg/L as N	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		47.81	mg/L as NO3	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)		0.01	mg/L as N	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.01	mg/L as N	





Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.2	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		37.1	MV	
00400	PH (STANDARD UNITS), FIELD		7.5	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		3.4	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		18	mg/L as SIO2	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	10	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.18		
00932	SODIUM, CALCULATED, PERCENT		24	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		49	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		640	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		530	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		91	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		18.8	С	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		479	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)	<	20	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		47.6	ug/L	

<sup>\*</sup> Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





### **GWDB** Reports and Downloads

### **Well Basic Details**

### **Scanned Documents**

State Well Number	1230907
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.533334
Latitude (degrees minutes seconds)	34° 32' 00" N
Longitude (decimal degrees)	-100.28
Longitude (degrees minutes seconds)	100° 16' 48" W
Coordinate Source	+/- 1 Second
Aquifer Code	110ALVM - Quaternary Alluvium
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1745
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	92
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	11/8/1946
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Historical
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Childress No. 7
Driller	Layne Texas Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	2/13/1951
Last Update Date	

**Remarks** City # 7. Yield 214 gpm with 35 ft drawdown when drilled.

Ca		

•						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	45
8	Blank	Steel			45	53
8	Screen	Steel			53	92

Well Tests - No Data

Lithology - No Data

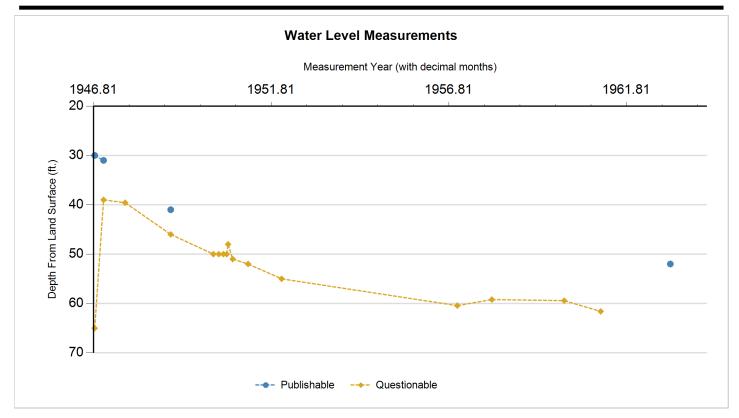
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Р	11/8/1946		30		1715	1	Other or Source of Measurement Unknown	Unknown	1	
Q	11/8/1946		65	35.00	1680	2	Other or Source of Measurement Unknown	Unknown	2	
Р	2/4/1947		31	(34.00)	1714	1	Other or Source of Measurement Unknown	Unknown	1	
Q	2/4/1947		39	8.00	1706	2	Other or Source of Measurement Unknown	Unknown	2	
Q	9/16/1947		39.58	0.58	1705.42	1	Other or Source of Measurement Unknown	Unknown	2	
Q	12/29/1948		46	6.42	1699	1	Other or Source of Measurement Unknown	Unknown	2	
Р	12/29/1948		41	(5.00)	1704	2	Other or Source of Measurement Unknown	Unknown	1	
Q	3/7/1950		50	9.00	1695	1	Other or Source of Measurement Unknown	Unknown	2	
Q	5/3/1950		50	0.00	1695	1	Other or Source of Measurement Unknown	Unknown	2	
Q	6/20/1950		50	0.00	1695	1	Other or Source of Measurement Unknown	Unknown	2	
Q	7/25/1950		50	0.00	1695	1	Other or Source of Measurement Unknown	Unknown	2	
Q	8/8/1950		48	(2.00)	1697	1	Other or Source of Measurement Unknown	Unknown	2	
Q	9/26/1950		51	3.00	1694	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/0/1951		52	1.00	1693	1	Other or Source of Measurement Unknown	Unknown	2	





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	2/8/1952		55	3.00	1690	1	Other or Source of Measurement Unknown	Unknown	2	
Q	1/18/1957		60.43	5.43	1684.57	1	Texas Water Development Board	Steel Tape	2	
Q	1/8/1958		59.2	(1.23)	1685.8	1	Texas Water Development Board	Steel Tape	2	
Q	1/21/1960		59.42	0.22	1685.58	1	Texas Water Development Board	Steel Tape	2	
Q	2/1/1961		61.6	2.18	1683.4	1	Texas Water Development Board	Steel Tape	2	
Р	1/16/1963		51.99	(9.61)	1693.01	1	Texas Water Development Board	Steel Tape		
Χ	1/14/1964					1	Texas Water Development Board		36	

### **Code Descriptions**

Status Code	Status Description		
Р	Publishable		
Q	Questionable		
X	No Measurement		

Remark ID	Remark Description		
1	Accurately reflects water level conditions		
2	Pumping-level measurement		
36	Well removed from Water Level Program		





### Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





### **GWDB** Reports and Downloads

### **Well Basic Details**

### **Scanned Documents**

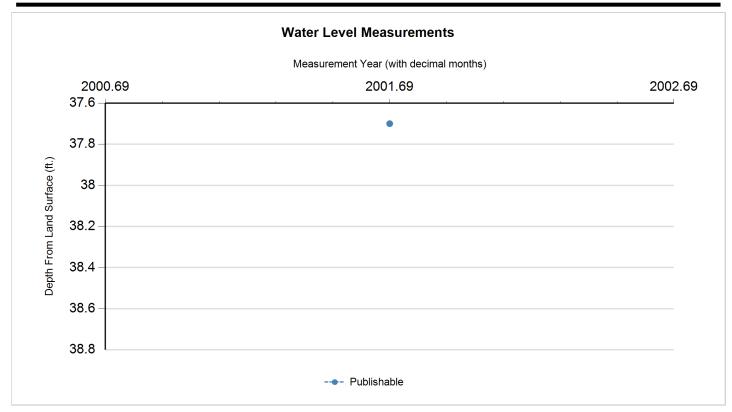
a	1.00000
State Well Number	1230920
County	Childress
River Basin	Red
Groundwater Management Area	6
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Gateway GCD
Latitude (decimal degrees)	34.522222
Latitude (degrees minutes seconds)	34° 31' 20" N
Longitude (decimal degrees)	-100.288889
Longitude (degrees minutes seconds)	100° 17' 20" W
Coordinate Source	+/- 1 Second
Aquifer Code	UNKNOWN - Aquifer Not Able to be Determined
Aquifer	Seymour
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1755
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Howard Head House well
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	9/13/2001
Last Update Date	10/8/2001

### Remarks Casing Diameter (in.) Bottom Depth (ft.) Casing Type **Casing Material** Schedule Gauge Top Depth (ft.) 18 Blank Steel Well Tests - No Data Lithology - No Data Annular Seal Range - No Data Plugged Back - No Data Borehole - No Data Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	indicates vies	Water Elevation (ft. above sea level)	#	Measuring Agency	Method	Remark ID	Comments
Р	9/13/2001		37.7		1717.3	1	Texas Water Development Board	Steel Tape		

### **Code Descriptions**

Status Code	Status Description		
Р	Publishable		





### **Water Quality Analysis**

Sample Date: 9/13/2001 Sample Time: 0930 Sample Number: 1 Collection Entity: Texas Water Development Board

Sampled Aquifer: Aquifer Not Able to be Determined

Analyzed Lab: LCRA - Lower Colorado River Authority Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		268	mg/L as CACO 3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		261	mg/L as CACO 3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	4	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)		2.17	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		27.4	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		318.51	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		112	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.102	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		111	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		50.5	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		2.23	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.07	mg/L	
04241	GROSS ALPHA RADIATION,TOTAL, PRODUCED WATER(pCi/L)		5.7	pCi/L	2.2
04242	GROSS BETA RADIATION, TOTAL, PRODUCED WATER(pCi/L)		8.5	pCi/L	2.2
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		434	mg/L as CACO 3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	51	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		11.3	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		38.2	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)		1.28	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		2.37	ug/L	





Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.97	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.67	mg/L as N	
00400	PH (STANDARD UNITS), FIELD		7.34	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		4.58	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		24.5	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.08		
00932	SODIUM, CALCULATED, PERCENT		20	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		51.7	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1140	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		764	ug/L	
SULFATE, DISSOLVED (MG/L AS SO4)			264	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23.2	С	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		704	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		4.99	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		9.19	ug/L	





### **Water Quality Analysis**

Sample Date: 9/13/2001 Sample Time: Sample Number: 1 Collection Entity: Texas Commission on Environmental

Quality

Sampled Aquifer: Aquifer Not Able to be Determined

Analyzed Lab: Immunoassay at TCEQ Reliability: Sampled using TWDB protocols, but NOT filtered

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39033	ATRAZINE, TOTAL, UG/L	<	0.05	ug/L	
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE, UG/L	<	0.05	ug/L	

<sup>\*</sup> Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

### STATE OF TEXAS WELL REPORT for Tracking #630794

Owner: HOWARD HEAD Owner Well #: APWR-1

Address: 1547 COUNT ROAD 9 Grid #: 12-30-9

CHILDRESS, TX 79201

Well Location: 1547 COUNT ROAD 9

CHILDRESS, TX 79201 Longitude: 100° 17' 28.46" W

Well County: Childress Elevation: 1783 ft. above sea level

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 7/19/2022 Drilling End Date: 12/15/2022

 Diameter (in.)
 Top Depth (ft.)
 Bottom Depth (ft.)

 Borehole:
 18.75
 0
 175

 13.5
 175
 258

Drilling Method: Air Rotary; Mud (Hydraulic) Rotary

Borehole Completion: FROM -165 TO 258 WITH 3/8

Annular Seal Data: No Data

Seal Method: **PUMPED WITH TRIMMIE** Distance to Property Line (ft.): **MILES** 

Sealed By: **Driller** Distance to Septic Field or other

concentrated contamination (ft.): NONE

Distance to Septic Tank (ft.): No Data

Method of Verification: GPS

Surface Completion: Surface Sleeve Installed Surface Completion by Driller

Water Level: 79.7 ft. below land surface on 2022-12-19

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 275

Well Tests: Jetted Yield: 500 GPM with 130 ft. drawdown after 12 hours

Water Quality: Strata Depth (ft.) Water Type

180 - 258 FRESH

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No** 

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the

driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in

the report(s) being returned for completion and resubmittal.

Company Information: WEST TEXAS WATER WELL SERVICE

3410 MANKINS AVE ODESSA, TX 79764

Driller Name: RUSSELL SOUTHERLAND License Number: 2713

Comments: DRILLED 300FT AND THERE IS SLOUGH IN BOREHOLE FROM 258' TO 300 FT

## Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

## Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description	
0	30	SANDY RED TOP, SOIL W/ STREAKS OF SMALL GRAVEL	
30	62	FINE TAN SAND	
62	107	SAND GRAVEL	
107	132	RED CLAY	
132	137	YELLOW SHALE	
137	140	BLUE SHALE	
140	180	RED, BLUE SHALE	
180	258	SANDSTONE W/ SAND TAN	

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
14.5	HSLA	New Steel	0.25	2	175
10.75	Blank	New Stainless Steel	0.25	3	198
10.75	Screen	New Stainless Steel	0.050	198	258

### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

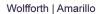
TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

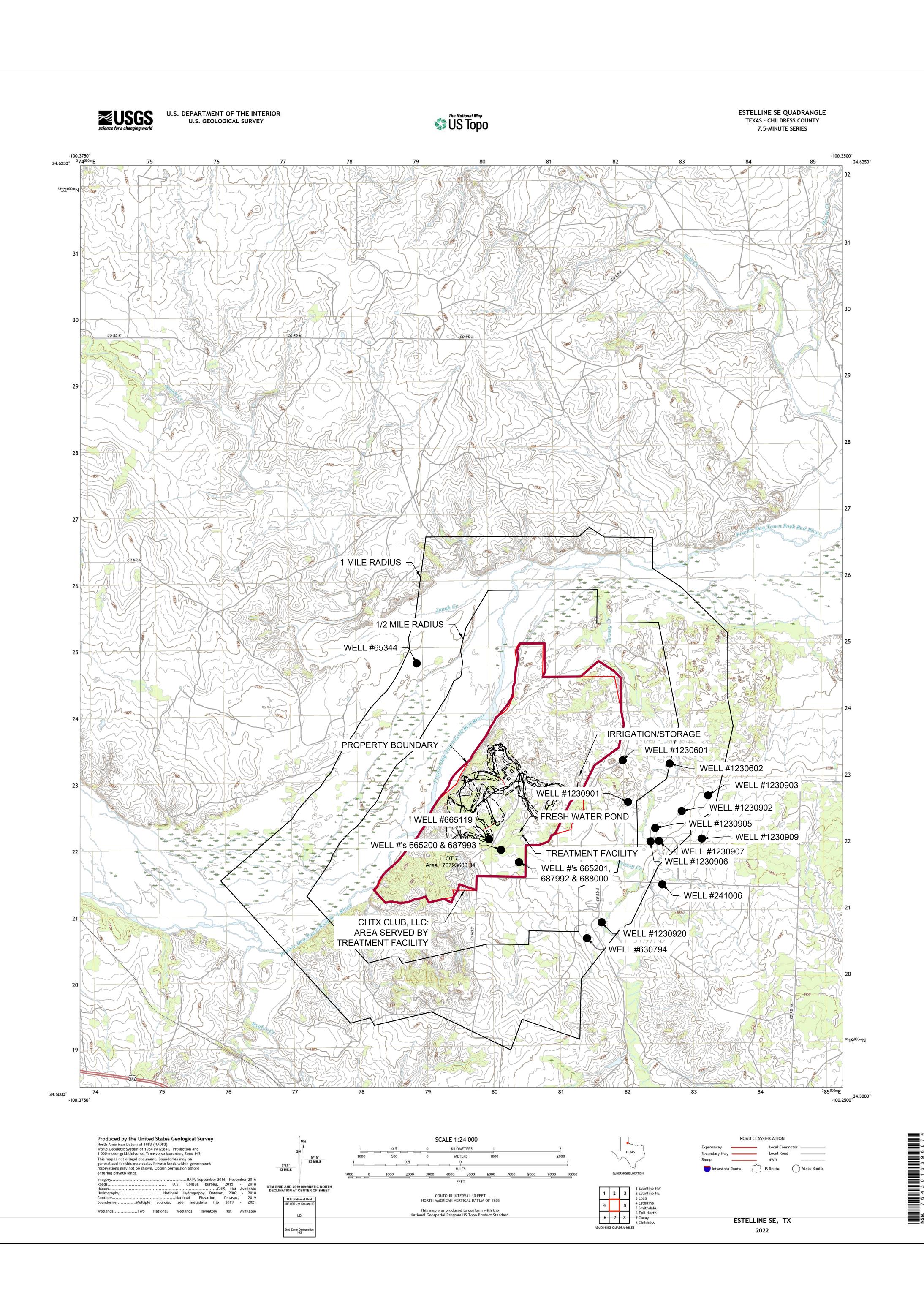
Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540



### **ATTACHMENT 2**

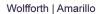


fax: 806 352.7188





### **ATTACHMENT 3**



fax: 806 352.7188

Engineering Firm # 4393 - Surveying Firm # 10090900



March 12, 2025

Tong Li TCEQ – MC148 P.O. Box 13087 Austin, Texas 78711-3087

Re: Chapter 217.6 Summary Transmittal Letter

Permittee: CHTX Club, LLC

Permit Number: WQ00167170021

Project Name: Childress Hall

**County: Childress** 

Ms. Li:

The purpose of this letter is to provide the Texas Commission on Environmental Quality (TCEQ) with the information necessary to comply with the requirements of 217.6(d) of the TCEQ's rules entitled "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS." The necessary information includes:

- 1. OJD Engineering, LLC F-4393
- 2. Che Shadle 806.352.7117 806.352.7188 <a href="mailto:che.shadle@ojdengineering.com">che.shadle@ojdengineering.com</a>
- 3. Childress County
- 4. CHTX Club, LLC Wastewater Treatment
- 5. CHTX Club, LLC and Childress Hall, LLC
- 6. OJD Engineering, LLC certifies that the plans and specifications are in substantial compliance with all the requirements of Chapter 217, with the exception of the variance being requested for the use of a synthetic liner without a leak detection/collection system.
- 7. OJD Engineering, LLC certifies that the requested variance will not threaten public

Wolfforth | Amarillo



health or the environment, based on my judgement.

8. a. CHTX Club, LLC is a glov facility that is proposing a WWTP to be designed as an activated sludge package plant that operates in the extended aeration mode with nitrification, with the ability to treat a desing flow of 9,999 gpd average daily flow and an unattenuated peak flow rate of 28 gpm; an influent flow equilization basin will provide sufficient retention time to reduce the peak factor to 2Q, or a peak flow reat for hydraulic

b.

υ.		
Treatment Unit Type	<b>Number of Units</b>	Dimensions (L x W x D)
Aeration	1	12'-0" x 12'-0" x 10.50'
Digester	1	4'-0" x 12'-0" x 10.67'
Clarifier	1	9'-0" x 5'-0" x 6.75'
Disinfection	1	5'-0" x 3'-0" x 4'
EQ Basin	1	6'-0" x 12'-0" x 10.67'
EQ Basin	1	0 -0 X12 -0 X1

- c. See attached map.
- d. A variance is being requested for the use of synthetic liner without a leak detection/collection system.
- e. The pond is existing and is lined per TCEQ Rules 30 TAC §217.203. 9,999 gpd effluent entering the pond is mixed with 750,000 gpd of fresh water. Due to the dilution rate we request this variance in accordance with 217.4.

9.

Che Shadle, P.E. President OJD Engineering, LLC F-4393

Cc: Amarillo TCEQ Region Office - Gregory Nagel



Wolfforth | Amarillo



### **ATTACHMENT 4**



fax: 806 352.7188



### **Groundwater Technical Report**

A site map for this report is provided as Attachment USGS Map – A4.

A site drawing for this report is provided as Attachment Facility Map – T2.

Childress Hall is located in Childress County, Texas. Groundwater in this area is located within the Seymour and Blaine aquifers. The information presented below regarding the aquifers was obtained by the Mesquite Groundwater Conservation District.:

The **Seymour Aquifer** is a major aquifer in Texas and consists of isolated areas of alluvium that are erosional remnants of a larger area. As defined by TWDB, it is composed of remnants of the Seymour Formation, the Lingos Formation, and younger alluvial deposits, all of Quaternary age. The aquifer is found in parts of many north-central and Panhandle counties of Texas, and in the District is present in four distinct and separate areas referred to as "Pods".

It consists of discontinuous beds of poorly sorted gravel, conglomerate, sand, and silty clay deposited during the Quaternary Period by eastward-flowing streams. Saturated thickness is typically between five and eighty feet. Aquifer thickness may exceed 250 feet in isolated spots in the western portion of Collingsworth County. The thickness in the eastern portion of the county is generally too thin to support irrigation. The aquifer is also generally thinner in Hall County but does support irrigation. This aquifer is under water-table conditions in most of its extent, but artesian conditions may occur where the water-bearing zone is overlain by clay. The lower, more permeable part of the aquifer produces the greatest amount of groundwater.

Water quality is generally fresh to slightly saline, but some high saline problems occur. Nitrate concentrations in excess of drinking water standards are common. The Seymour Aquifer comprises about twenty-three percent of the District area and provides about seventy seven percent of the irrigation water in the District. Yields of wells range from five gallons per minute to as much as 1,000 gallons per minute depending upon saturated thickness, with yields averaging about 300 gallons per minute.

fax: 806.352.7188



The **Blaine Aquifer** is composed of anhydrite and gypsum with interbedded dolomite and clay and is an important source of groundwater in the District. The Blaine Formation crops out in a band from Wheeler County south through Collingsworth and Childress Counties to Fisher County and extends westward in the subsurface to adjacent counties. In Collingsworth County the Blaine is found along the Salt Fork of Red River north to Wheeler County and east to the Oklahoma state line. The Blaine is also found South and East of Wellington, extending east to the Oklahoma state line and south to the Prairie Dog Town Fork of the Red River. There are also small areas in the northeast and southeast corners of Hall County. Recharge occurs fairly rapidly and travels primarily in the numerous solution channels of the Blaine under water-table conditions.

Overall water quality is poor and salinity may be high, limiting the use of water for human and livestock consumption. Depth to water ranges from a few feet to greater than 200 feet. Well depths range up to 300 feet below ground surface. Well yields vary from a few gallons per minute up to 1,000 gallons per minute. Although water in storage is generally under water-table conditions, larger yields are often associated with those areas of the aquifer that are confined by relatively impervious beds. Dry holes or wells of low yield are commonly found adjacent to wells of moderate to high yields because of the uneven nature in confining beds and the occurrence of the water in solution zones. Groundwater not intercepted by wells tends to discharge naturally in areas of lower topography through seeps and springs. The Blaine Aquifer comprises about twenty four percent of the District area and provides about nineteen percent of the irrigation water pumped in the District.

The golf course will be irrigated using 750,000 GPD from the Blaine aquifer combined with the 9,999 GPD of treated wastewater as presented in this permit application. Due to the dilution of the wastewater, nutrients will mostly come from the freshwater within the Blaine Aquifer and supplemental fertilization practices. (See Cropping Plan).

Depth to Static Water levels is greater than 50 feet. At this depth, and the fact that 99% of the irrigation water is, in fact, water from the aquifer, there is no threat of contamination.

The liner is a 60 mil synthetic liner as required by 30 TAC 217.203(d)(4). Has UV resistance to withstand constant sunlight. Due to the fact that the wastewater (9,999 GPD) will be combined with freshwater (500,000 GPD), a leachate collection system is not proposed to be installed due to the dilution of the water in the pond.



### **ATTACHMENT 5**



fax: 806 352.7188

Engineering Firm # 4393 - Surveying Firm # 10090900

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.

The proposed WWTP will be designed as an activated sludge package plant that operates in the extended aeration mode with nitrification, with the ability to treat a design flow of 9,999 gpd average daily flow and an unattenuated peak flow rate of 28 gpm; an influent flow equalization basin will provide sufficient retention time to reduce the peak factor to 2Q, or a peak flow of 14 gpm and which will serve as the peak flow rate for hydraulically-sensitive processes and piping. The package plant process units will include preliminary screening, (1) flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester. A chlorine feed system will be provided for chemical disinfection. The flow equalization basin will be sized to provide 8 hours of hydraulic retention time at the average daily flow rate. The aeration basins and digesters will be sized to provide the treatment volume required to treat the organic loadings at the design flow. The secondary clarifier and the chlorine contact basin will be designed to handle the peak flow rate. 9,999 GPD of treated effluent and 750,000 GPD freshwater applied to 250 acres of golf course.

### **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)
Aeration	1	12'-0" x 12'-0" x 10.50'
Digester	1	4'-0" x 12'-0" x 10.67'
Clarifier	1	9'-0" x 5'-0" x 6.75'
Disinfection	1	5'-0" x 3'-0" x 4'
EQ Basin	1	6'-0" x 12'-0" x 10.67'

### C. Process Flow Diagram

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

Attachment: T-1

### Section 3. Site Information and Drawing (Instructions Page 43)

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

• Latitude: Click to enter text.

• Longitude: Click to enter text.

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

• Latitude: 34.531751°

Longitude: -100.304113°

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;

TCEQ-10054 (10/17/2024) Domestic Wastewater Permit Application Technical Report

### 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 56)

### 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.

CHTX Club, LLC is a golf facility that is proposing a WWTP to be designed as an activated sludge package plant that operates in the extended aeration mode with nitrification, with the ability to treat a design flow of 9,999 gpd average daily flow and an unattenuated peak flow rate of 28 gpm; an influent flow equalization basin will provide sufficient retention time to reduce the peak factor to 2Q, or a peak flow of 14 gpm and which will serve as the peak flow rate for hydraulically-sensitive processes and piping. The package plant process units will include preliminary screening, (1) flow equalization, (1) aeration basin, (1) secondary clarifier, (1) chlorine contact basin, (1) aerobic digester. A chlorine feed system will be provided for chemical disinfection. The flow equalization basin will be sized to provide 8 hours of hydraulic retention time at the average daily flow rate. The aeration basins and digesters will be sized to provide the treatment volume required to treat the organic loadings at the design flow. The secondary clarifier and the chlorine contact basin will be designed to handle the peak flow rate. 9,999 GPD of treated effluent and 750,000 GPD freshwater applied to 250 acres of golf course.

### B. Regionalization of facilities

For additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> Treatment<sup>1</sup>.

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

### 1. Municipally incorporated areas

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.

<sup>&</sup>lt;sup>1</sup> https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater



### **ATTACHMENT 6**



fax: 806 352.7188

### **NITROGEN APPLICATION RATE**

L = N/2.7C

### where

L = Maximum annual liquid loading (ac-ft/ac/yr) based on nitrogen uptake

C = Effluent nitrogen concentration

N = Annual crop nitrogen requirement + 20% volatilization (lb/acre)

### Irrigation from Storage Pond:

C = 5.7 mg/l (Assuming 20 mg/l wastewater @ 9,999 gpd mixed with 5.5 mg/l fresh water @ 750,000 gpd)

 $N = 130 \text{ lb/acre} \times 1.2 = 156 \text{ lb/acre} \text{ (bermuda)}$ 

L = Allowable application rate= 10.1 ac-ft/ac/yr Actual Application Rate (wastewater and fresh water mix) = 3.4 ac-ft/ac/yr



### **ATTACHMENT 7**



# **SOIL ANALYSIS REPORT**

OJD ENGINEERING 58588 CLIENT:

2420 LAKEVIEW DR AMARILLO, TX 79109



6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329

INVOICE NO: LAB NO:

02/28/2025

DATE REPORTED:

42201 - 42203 03/06/2025 174853 DATE RECEIVED:

SOIL	SOIL ANALYSIS RESULTS FOR:	RESUL'	TS FOR	.;;											Ц	IELD II	FIELD ID: LOC 1	1			
MET	METHOD USED:		1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction	ıction			Σ	Mehlich 3 ICP		100						
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess	% Organic Matter	Nitrate-Nitrogen ppm lb. N/A		Phosphorus ppm P	Potassium ppm K	Sulfur ppm lb	fur Ib. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
42201		9-0	6.8		0.07	2	0.2	1.4	т	28	149	o	16	2550	177	4					
42202		6 - 18	7.8		0.07	2	8.0	3.0	11	46	208	7	25	1980	237	2					
42203		18 - 30	7.9		60.0	o	1.1	3.5	13	51	251	11	40	2310	266	22					
METH	METHOD USED:		KCI Extr	Extr.	Calculated	JKN			Sat, Paste	aste											
Lab Number	Sample ID	Sample Depth	Ammoniur ppm	Ammonium Nitrogen ppm lb. /A	Total N ppm	TKN ppm	Saturation % Sat	Electrical Conductivity mmho/cm	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Sodium Adsorption Ratio									
42201		9-0	<b> </b>	2	465	464	27	0.27	20	6	7	0.2									
42202		6 - 18	٧	4	699	999	59	0.42	64	13	14	4.0									
42203		18 - 30	_	4	948	944	32	0.47	85	16	7	0.2									
FERT	FERTILIZER RECOMMENDATIONS:	OMME	NDATIC	SNC:							POUNE	JS ACT	UAL NI	JTRIEN	POUNDS ACTUAL NUTRIENT PER ACRE	ACRE			Cation	Cation Exchange	Jge

-ap	Sample	Crop To	Yield	LIIIIe, ECC	Lime, ECC 1908/A to raise pri to:	ilse pri to:	:	
Number	2	be Grown	Goal	0.9	6.5	7.0	z	2
42201								
42202								
42203								
SPE	CIAL COMME	SPECIAL COMMENTS AND SUGGESTIONS:	NS:					

16 15

80 80

4 12

87

0 0 0

Capacity

%H %K %Ca

CEC 12

 $\overline{0}$ 

Ca

MgO

C

M

Zn

820

Lab Number(s): 42201

Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):42201, 42202, 42203

Nutrient analyses determined using the Mehlich 3 extraction.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis Amy Meier

Approved By: Reviewed and

Data Review Coordinator

Explanations of soil analysis terms are available upon request Page 1 of 1 Juny Meier

03/06/2025 2:13 pm The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com.

# **SOIL ANALYSIS REPORT**



6921 S. Bell

CLIENT:	<u>35</u>	OJD ENGINEERING	NEERI	NG G					,				6921 S. Bell Amarillo, TX 79109	3ell , TX 791		LAB NO:	::		42204	42204 - 42206	
58588		AMARILLO, TX 79109	), TX 7	.9109				servi	-=				800.557.7509	7509		INVOICE NO:	E NO:		174853	က္က	
								tech		1	4		Fax 806.677.0329	677.032		ATE R	DATE RECEIVED:	ED:	02/28/	02/28/2025	
							1		<b>M M M</b>	www.servirecii.com	1000					ATE R	DATE REPORTED:	LED:	03/06/2025	/2025	
SOIL ANALYSIS RESULTS FOR:	LYSIS R	ESULT	S FOR													ELD ID	FIELD ID: LOC 2				
METHOD USED:	USED:		1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction	ction			M	Mehlich 3 ICP								
Lab	Sample ID	Sample Depth	Soil Hd	Buffer pH	Sol. Salts mmho/cm	Excess	% Organic Matter	Nitrate-Nitrogen ppm lb. N/A		Phosphorus ppm P	Potassium ppm K	Sulfur ppm lb	S/A	Calcium N	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
42204		9-0	8.3		0.07	2	0.2	4.1	т	59	198	o	16	2550	176	m					
42205		6 - 18	7.7		0.07	2	9.0	2.4	თ	49	215	7	25	2130	225	က					
42206		18 - 30	7.8		0.07	P	0.8	2.8	10	51	207	7	25	2120	230	8					
			27	+	Defer intend	TIVAL			100	open											
METHOD USED:	USED:		KCI EXII.	extr.	Calculated	N.			Sat. Paste	aste											
Lab Number	Sample ID	Sample Depth	Ammonium Nitrogen ppm lb. /A	Nitrogen Ib. /A	Total N ppm	TKN	Saturation % Sat	Electrical Conductivity mmho/cm	Calcium N mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Sodium Adsorption Ratio									
42204		9-0	٧	2	400	399	25	0.33	46	ω	10	9.4									
42205		6 - 18	₹	4	582	580	27	0.37	55	10	8	0.3									
42206		18 - 30	٧	4	662	629	27	0.39	61	11	9	0.2									

SPECIAL COMMENTS AND SUGGESTIONS:

42206

42204 42205

Lab

Cation Exchange

CEC | %H | %K | %Ca | %Mg

 $\overline{0}$ 

Ca

MgO

C

Ā

Zn

K20

P<sub>2</sub>O<sub>5</sub>

7.0

6.5

6.0

Yield

Crop To Be Grown

FERTILIZER RECOMMENDATIONS:

Lime, ECC Tons/A to raise pH to:

POUNDS ACTUAL NUTRIENT PER ACRE

12 13 73

Capacity

12

81 4

4 81 87

Lab Number(s):42204

Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 42204, 42205, 42206

Nutrient analyses determined using the Mehlich 3 extraction.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis Amy Meier Reviewed and Approved By:

(Novy Maie)

Data Review Coordinator

Explanations of soil analysis terms are available upon request

03/06/2025 2:13 pm

The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com.

# **SOIL ANALYSIS REPORT**

OJD ENGINEERING 58588 CLIENT:

2420 LAKEVIEW DR AMARILLO, TX 79109



6921 S. Bell Amarillo, TX 79109 800.557.7509 806.677.0093 Fax 806.677.0329

DATE RECEIVED: INVOICE NO: LAB NO:

02/28/2025 174853

42207 - 42209 03/06/2025 DATE REPORTED:

SOIL A	SOIL ANALYSIS RESULTS FOR:	ESULT	S FOR													FIELD ID: LOC 3	D: LOC	m		l lan		
METH	METHOD USED:		1:2 Soil-Water		1:2 Soil-Water	(i) XSF(i)	(J)	Cd Reduction	uction			2	Mehlich 3 ICP									Г
Lab Number	Sample ID	Sample Depth	Soil	Buffer pH	Sol. Salts mmho/cm	Excess	% Organic Matter	Nitrate-Nitrogen ppm lb. N/A		Phosphorus ppm P	Potassium ppm K	Sulfur ppm lb	fur Ib. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	r Boron u ppm B	P G
42207		9-0	8.1		0.07	Ξ	0.3	1.6	3	25	161	თ	16	2820	162	ю						
42208		6 - 18	7.6		0.07	2	7.0	1.9	7	45	155	7	25	1990	203	ю						
42209		18 - 30	7.8		60.0	Po	1.2	3.8	14	51	278	10	36	1970	267	4		5			-	
METH(	METHOD USED:		KCI Extr.	Extr.	Calculated	TKN			Sat. Paste	aste												$\  \ $
Lab Number	Sample ID	Sample Depth	Ammonium Nitrogen ppm lb. /A	n Nitrogen Ib. /A	Total N ppm	TKN	Saturation % Sat	Electrical Conductivity mmho/cm	Calcium mg/L Ca	Magnesium mg/L Mg	Sodium mg/L Na	Sodium Adsorption Batio										
42207		9-0	۲	2	396	394	26	0.34	51	8	ω	0.3										
42208		6 - 18	۲	4	675	673	27	0.34	61	10	7	0.2										Γ
42209		18 - 30	2	7	1052	1048	33	0.57	91	19	8	0.2										
FERTI	FERTILIZER RECOMMENDATIONS:	OMMEN	IDATIC	NS:							POUN	POUNDS ACTUAL NUTRIENT PER ACRE	UAL N	UTRIE	IT PER	ACRE			Catio	Cation Exchange	hange	
Lab	Sample		Crop To		¥ (	Yield Lir	Lime, ECC Tons/	s/A to raise pH to:			H			H					O	Capacity	ر د	
Name of the second	2		se Grow	Ę	5	Dal	9 0.9	6.5 7.0	z	202	25	5	so o	Ma Ma	O MBO	m	g G	<u>.</u>	CEC %H	%K %Ca	%Mg	%Na
42207																			16 0	8	6 68	0
42208																			12 0	m m	83 14	0
42209																			13 0	9	77 17	0
SPEC	SPECIAL COMMENTS AND SUGGESTIONS:	ENTS A	ND SU	GGEST	TONS:													1				

Lab Number(s): 42207

Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 42207

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s):42207, 42208, 42209

Nutrient analyses determined using the Mehlich 3 extraction.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis Reviewed and

Data Review Coordinator

Approved By:

(Novey Maier

Explanations of soil analysis terms are available upon request

03/06/2025 2:13 pm

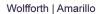
The reported analytical results apply only to the sample as it was supplied. The report may not be reproduced, except in full, without permission of ServiTech.

Your opinion is valuable to us. Please let us know what you think about our services! Send an email to feedback@servitech.com.









fax: 806 352.7188

## 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 71)

Complete the item that applies for the method of disposal being used.

### A. Irrigation

Area under irrigation, in acres: 250

Design application frequency:

hours/day 5 And days/week 7

Land grade (slope):

average percent (%): 1%

maximum percent (%): 10%

Design application rate in acre-feet/acre/year: 0.04

Design total nitrogen loading rate, in lbs N/acre/year: 52.74

Soil conductivity (mmhos/cm): 0.4

Method of application: Golf course irrigation sprinkler

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: T-11

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: <u>Click to enter text.</u>
Depth of bed(s), in feet: <u>Click to enter text.</u>

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

TCEQ-10054 (10/17/2024) Domestic Wastewater Permit Application Technical Report

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 BOD5 loading rate, in Ibs BOD5/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 72)

Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?

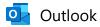
□ Yes ⊠ No

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.



#### Re: WQ0016717001

From Clint Green <Clint.Green@ojdengineering.com>

Date Mon 3/17/2025 9:54 AM

To Andrew Gorton < Andrew.Gorton@Tceq.Texas.Gov>

Cc Sara Holmes <Sara.Holmes@tceq.texas.gov>; Che Shadle <Che.Shadle@ojdengineering.com>

2 attachments (67 KB)

10054\_Land Disposal of Effluent - Revised\_3-13-25.pdf; Table 3 - Additional Wells - Revised\_3-13-25.pdf;

Hello Andy,

Attached are the responses to the items that you requested.

Please let me know if you have any questions.

Thank you,

# Clint Green, Engineering Technician/Designer OJD Engineering, LLC

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell

From: Andrew Gorton

Sent: Thursday, March 13, 2025 1:34 PM

To: Clint Green

**Cc:** Sara Holmes; Che Shadle **Subject:** Re: WQ0016717001

Thanks Clint - just one more thing I need for the Geology items - please include the Proposed Best Management

Practices in Table 3.0(3) Water Well Data - for the 9 wells withing ½ mile of the proposed facility based on your topographic well map (wells 665119, 665200, 687993, 1230901, 665201, 687992, 688000, 1230601, and 1230602). Best management practices would be to either plug the well, maintain 150-foot buffer distance for domestic wells, or 500-foot buffer distance for public supply wells.

Thank you,

-Andy

Andrew Gorton, P.G.

Texas Commission on Environmental Quality MC-150 PO Box 13087 Austin, TX 78711-3087 512.239.4585 Andrew.Gorton@tceq.texas.gov

From: Clint Green <Clint.Green@ojdengineering.com>

Sent: Wednesday, March 12, 2025 4:54 PM

**To:** Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>; Louis Herrin <louis.herrin@tceq.texas.gov> **Cc:** Sara Holmes <Sara.Holmes@tceq.texas.gov>; Che Shadle <Che.Shadle@ojdengineering.com>

**Subject:** Re: WQ0016717001

Good afternoon Andy,

Attached are the responses to the items that you requested for the Technical Completeness Review.

Please feel free to contact me if you have any questions.

Thank you,

# Clint Green, Engineering Technician/Designer OJD Engineering, LLC

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell

From: Andrew Gorton < Andrew.Gorton@Tceq.Texas.Gov>

Sent: Thursday, February 27, 2025 1:49 PM

To: Clint Green <Clint.Green@ojdengineering.com>; Louis Herrin <louis.herrin@tceq.texas.gov>

Cc: Sara Holmes <Sara.Holmes@tceq.texas.gov>

**Subject:** Re: WQ0016717001

Thank you for taking my call Clint. Sorry I wasted your time b/c after I re-read my comment, I see that I just asked for pond liner information in the Groundwater Tech Report. The rest of the Report "checked all the boxes" that needed to be "checked." I must have confused your application with another. BUT, please reach out to our Plans and Specs engineers ASAP (specifically Louis Herrin at 512-239-4552) about your proposal to use a synthetic liner without a leak detection/collection system. We just got the application for a full review yesterday, and I cannot complete the processing without either an approval or denial of your proposal from Louis. I have 'cc'd' Louis on this email.

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585

#### Andrew.Gorton@tceq.texas.gov

From: Clint Green < Clint.Green@ojdengineering.com>

**Sent:** Wednesday, February 26, 2025 4:58 PM **To:** Sara Holmes <Sara.Holmes@tceq.texas.gov>

Cc: Andrew Gorton < Andrew. Gorton@Tceq. Texas. Gov>

**Subject:** WQ0016717001

Good afternoon Sara,

We are currently working on the responses requested in the attached Technical Completeness Review. I will have all of the answers to the questions to you by the requested date of March 5, 2025, with exception of the soil analyses for the land application areas. The samples are to be taken this week, but we will have to wait util the lab provides the results before we are able to provide them to you.

Please let me know if you have any questions.

Thank you,

Clint Green, Engineering Technician/Designer OJD Engineering, LLC

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell

## Section 5. Annual Cropping Plan (Instructions Page 67)

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**: <u>T-7</u>

- 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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: A-4

- 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
1230601	Stock	Unknown	Cased	150-foot buffer
1230602	Unused	N	Cased	500-foot buffer
1230901	Unused	N	Cased	500-foot buffer
65344	Irrigation	Unknown	Cased	
See Attachment	For Additional			

Table 3.0(3) - Water Well Data

Well ID	Well Use	Producin g?Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
241006	Stock	Y	Cased	
630794	Irrigation	Y	Cased	
665199	Test Well	N	Plugged	Plugged
665200	Test Well	N	Plugged	Plugged
665201	Test Well	N	Plugged	Plugged
687992	Domestic	Y	Cased	150-foot buffer
687993	Domestic	Y	Cased	150-foot buffer
688000	Domestic	Y	Cased	150-foot buffer
1230902	Unused	N	Cased	
1230903	Unused	N	Cased	
1230905	Unused	N	Cased	
1230906	Stock	Y	No Data	
1230907	Unused	N	Cased	
1230920	Domestic	Y	Cased	
630794	Irrigation	Y	Cased	

#### **TCEQ Interoffice Memorandum**

**To:** Deba Dutta, Team Leader, Municipal Permits Team

From: Andrew Gorton, P.G., Water Quality Assessment (WQA) Team

**Date:** March 4, 2025

Subject: Geology Recommendations, CHTX Club, LLC., Wastewater Treatment Facility,

Application for a New Permit, Permit No. WQ0016717-001, Childress County

Based upon the review of the permit application and an evaluation of geology and groundwater information, the WQA Team reviewing geologist recommends the following as special provisions (this document does not include Agronomy recommendations).

#### **Recommendations:**

The WQA Team geologist recommends the inclusion of current standard special provisions for municipal TLAP facilities using spray irrigation.

- 1. A wastewater treatment plant unit may not be located in wetlands per 30 TAC §309.13(b).
- 2. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a minimum horizontal distance of 250 feet from a private well and a minimum horizontal distance of 500 feet from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.
- 3. The permittee shall comply with the buffer zone requirements of 30 TAC §309.13(c), specifically regarding water wells and waters in the state. The permittee must locate the wastewater irrigation fields a minimum horizontal distance of 500 feet from public water wells, springs, or other similar sources of public drinking water; 150 feet from private water wells; and 100 feet from surface waters in the state.
- 4. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203. New or modified wastewater ponds shall not be put into service until the permittee demonstrates that the pond liners meet the requirements of 30 TAC §217.203. The permittee shall demonstrate that the number, location, and test results of samples collected for geotechnical testing are in accordance with 30 TAC §217.203(d) and (e), and that the liner has a minimum thickness of 3 feet in accordance with 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. The report providing this demonstration shall be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC-Region 1) for review and approval prior to use of the wastewater ponds. If a synthetic liner is to be used, the liner thickness shall be a minimum of 40 mils and be constructed with an underground leak detection system with appropriate sampling points.
- 5. The permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC-Region 1), and the TCEQ Compliance Monitoring Section (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texas-licensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203.

#### **TCEQ Interoffice Memorandum**

- 6. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the permittee shall inspect the sides and bottom (if visible) of the wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed.
- 7. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ personnel for inspection and review.

**Special Note to the Permit Writer:** The Applicant submitted an alternate liner request for the wastewater pond as part of this application. The proposal is to use a wastewater pond with a synthetic liner but without the required underdrain/leak detection/collection system (30 TAC §217.203). This reviewer referred the Applicant to the Plans and Specs Team on February 27, 2025 for approval or denial of this request.

This reviewer is recommending the standard wastewater pond liner language to the draft permit unless directed otherwise by the Plans and Specs Team.

# CHTX CLUB, LLC PERMIT NO. WQ0016717001 APPLICATION FOR A NEW PERMIT Technical Completeness Review

Please address the following items:

#### **GEOLOGY and GROUNDWATER**

- 1. This reviewer identified approximately 20 water wells within one mile of the proposed facility, including the irrigation areas, using the Texas Water Development Board Water Data Interactive website. These wells include several additional wells in the "123900"-series, and also 65344, 241006, 630794, 665199, 665200, 665201, 687993, 687992, and 688000. Please include these wells on the USGDS topographic map in the application, and for each well within one-half mile of the proposed facility, including the irrigation areas, please complete Table 3.0(3) in Worksheet 3.0 and provide well logs for these wells.
- 2. Attachment T-6, Liner Certification: Note that a wastewater pond with a synthetic liner is required to include an underdrain with a leachate detection and collection system per 30 TAC §217.203. Please contact the Water Quality Division Plans and Specs Team at (512) 239-4444 to discuss the proposal to exclude the underdrain and leachate detection and collection system presented in the application.
- 3. Attachment T-9, Groundwater Quality Technical Report: Please include information on the wastewater pond liner in the Report.

#### AGRONOMY and SOILS

- 1. Domestic Technical Report 1.0, Sections 1 and 2. Treatment Process The proposed flow in the application lists 9,999 GPD, but the treatment process description lists 150 GPD. Please clarify what the correct proposed flow rate is (this comment also applies to Technical Report 1.1).
- 2. Domestic Worksheet 3.0, Section 2. Land Application Site(s) Please include a cool season crop if year-round irrigation is anticipated.
- 3. Domestic Worksheet 3.0, Section 5. Annual Cropping Plan Please include a cool season crop if year-round irrigation is anticipated.
- 4. Domestic Worksheet 3.0, Section 8. Soil Map and Soil Analyses Please submit Soil Analyses for the land application areas.

Provide analyses of the soil in the land application site(s) for pH [2:1 (v/v) water/soil mixture]; electrical conductivity [2:1 (v/v) water/soil mixture]; sodium adsorption ratio (SAR) from a water saturated paste and its constituent parameters (water-soluble Na, Ca and Mg reported in mg/L); total Kjeldahl nitrogen (TKN); total nitrogen (organic-nitrogen + nitrate-nitrogen + ammonium-nitrogen); nitrate-nitrogen (from a 1 N KCl soil extract); potassium, phosphorous; calcium; magnesium; sulfur; and sodium. The nutrient parameters should be analyzed on a plant-available basis. Phosphorus shall be analyzed according to the Mehlich III procedure with inductively coupled plasma and potassium, calcium, magnesium, sodium, and sulfur may also be analyzed in the Mehlich III soil extract. Plant-available phosphorus, potassium, calcium, magnesium, sodium and sulfur shall be reported on a dry weight basis in mg/kg; electrical conductivity, in mmho/cm [same as deciSiemens/meter (dS/m)]; and pH, in standard units. When reporting the results, include all information concerning fertilizer recommendations. Provide a copy of this plan to the analytical laboratory prior to sample analysis.

Composite or benchmark sampling techniques should be used when sampling the soils of the wastewater application area. Individual soil types, as defined by the USDA Soil Conservation Service Soil Survey, should be sampled individually at zones 0-6, 6-18, and 18-30 inches. Each composite sample must represent no more than 80 acres with no less than 15 subsamples representing each composite sample. Each benchmark sample must represent no more than 80 acres with at least 7 subsamples for each benchmark composite sample. Subsamples must be composited by individual site, zone, and soil type for analysis and reporting.

5. Domestic Worksheet 3.1, Surface Land Disposal of Effluent – Please fill out Section 1 in its entirety, including design application rate and method of application. Please also fill out Section 2 of the worksheet.

Please feel free to contact Andrew Gorton, P.G. for geology/groundwater questions via email at Andrew.Gorton@tceq.texas.gov (preferred), or at (512) 239-4585. For agronomy questions, please feel free to contact Sara Holmes via email at Sara.Holmes@tceq.texas.gov (preferred), or at 512-239-4534.

### **TCEQ Interoffice Memorandum**

**To:** Deba Dutta, P.E., Team Leader

Municipal Permits Team

From: Sara Holmes, Agronomist

Water Quality Assessment Team

**Date:** April 3, 2025

**Subject:** Agronomy Recommendations, CHTX Club, LLC, New Permit, No. WQ0016717001,

Childress County

# Based upon review of the permit application and an evaluation of soils and agronomy information, the WQA Team reviewing agronomist recommends the following:

- 1. The irrigated crops include Bermuda grass (warm season and cool season). Application rates to the irrigated land shall not exceed 0.04 acre-feet/acre/year. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. The records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.
- 2. The permittee shall use cultural practices to promote and maintain the health and propagation of the Bermuda grass crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least once during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.
- 3. The permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply for any area where treated effluent is stored or where there exist hose bibs or faucets. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
- 4. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. Crops or other ground cover shall be established and well maintained in the irrigation area throughout the year for effluent and nutrient uptake by the crop and to prevent pathways for effluent surfacing. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
- 5. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
- 6. The permittee shall construct and maintain earthen berms to prevent runoff from leaving the irrigation site.
- 7. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.

- 8. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 9. Irrigation to treated effluent on land with a slope of 10% or greater is prohibited. Irrigation of treated shall be limited to those tracts designated on Attachment A of this permit only after proper grading has been accomplished.
- 10. The permittee shall obtain representative soil samples from the root zones of the land application area. Composite sampling techniques shall be used. Each composite sample shall represent no more than 80 acres with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

Samples shall be analyzed annually according to the following table:

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
рН	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	2:1 (v/v) water to soil mixture	0.01	dS/m (same as mmho/cm)
Nitrate-nitrogen	From a 1 N KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN plus Nitrate-nitrogen		mg/kg (dry weight basis)
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (K)	May be determined in the same Mehlich	5 (K)	mg/kg (dry weight basis)

	III extract with inductively coupled plasma	
Amendment addition, e.g., gypsum		Report in short tons/acre in the year effected

A copy of this soil testing plan shall be provided to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 1), the Water Quality Assessment Team (MC 150), and the Compliance Monitoring Team (MC 224) of the Enforcement Division, no later than the end of September of each sampling year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land irrigation site(s) during that year.

From: Che Shadle

 To:
 Sara Holmes; Clint Green

 Cc:
 Andrew Gorton

 Subject:
 RE: WQ0016717001

**Date:** Tuesday, March 25, 2025 3:58:45 PM

#### Sara

The golf course has already been built, and the areas of irrigation are located in the fairways, greens and tees. These areas are built for walking, and excessive slopes are not permitted.

## Che Shadle, P.E.

#### President

## OJD Engineering, LLC



2420 Lakeview Drive Amarillo, TX 79109

ph: 806.352.7117 fax: 806.352.7188

cell: 806.681.0106

che.shadle@ojdengineering.com

www.ojdengineering.com

Engineering: F-4393 Surveying: F-10090900

From: Sara Holmes <Sara.Holmes@tceq.texas.gov>

**Sent:** Tuesday, March 25, 2025 3:11 PM

**To:** Clint Green < Clint.Green@ojdengineering.com>

**Cc:** Che Shadle < Che. Shadle @ojdengineering.com>; Andrew Gorton

<Andrew.Gorton@Tceq.Texas.Gov>

**Subject:** RE: WQ0016717001

#### Hi Clint,

I am wrapping up my review, but I just have a couple follow-up questions about the site. I noticed this site has pretty significant slopes. Slopes greater than 10% are prohibited due to high potential for runoff and erosion. Can you provide some additional details on what management practices will be used to minimize the risk of runoff and erosion? Will there be grading on the site anywhere? When looking at the site map, I see that the property is outlined in red and has black polygons in the middle. Are those the areas where the golf course will be located?

Thank you, Sara Holmes From: Sara Holmes

**Sent:** Friday, March 21, 2025 11:23 AM

**To:** Clint Green < <u>Clint.Green@ojdengineering.com</u>>

**Cc:** Che Shadle < <u>Che.Shadle@oidengineering.com</u>>; Andrew Gorton

<a href="mailto:</a><a href="mailto:Andrew.Gorton@Tceq.Texas.Gov">
<a hr

**Subject:** RE: WQ0016717001

Thank you for the call earlier. Looks like I did miss this the first time, so I will review this and let you know if I need additional info.

Thank you and have a good weekend, Sara Holmes

**From:** Sara Holmes

**Sent:** Friday, March 21, 2025 8:39 AM

**To:** Clint Green < <u>Clint.Green@ojdengineering.com</u>>

**Cc:** Che Shadle < <u>Che.Shadle@oidengineering.com</u>>; Andrew Gorton

<a href="mailto:</a> <a href="mailto:Andrew.Gorton@Tceq.Texas.Gov">
<a h

**Subject:** RE: WQ0016717001

Good morning, Clint,

I have a follow-up comment regarding the agronomy side of things. Worksheet 3.1 requires an engineering report with a water balance and storage calculations for new applications. If you could get this back to me by sometime next week, that would be great. Please let me know if you have any questions.

Sincerely,

Sara Holmes
Natural Resource Specialist II
Water Quality Assessment Team
12100 Park 35 Circle
Austin, TX 78753
512-239-4534

**From:** Clint Green < <u>Clint.Green@ojdengineering.com</u>>

Sent: Wednesday, March 12, 2025 4:55 PM

**To:** Andrew Gorton <<u>Andrew.Gorton@Tceq.Texas.Gov</u>>; Louis Herrin <<u>louis.herrin@tceq.texas.gov</u>> **Cc:** Sara Holmes <<u>Sara.Holmes@tceq.texas.gov</u>>; Che Shadle <<u>Che.Shadle@ojdengineering.com</u>>

**Subject:** Re: WQ0016717001

Good afternoon Andy,

Attached are the responses to the items that you requested for the Technical Completeness Review.

Please feel free to contact me if you have any questions.

Thank you,

# Clint Green, Engineering Technician/Designer OJD Engineering, LLC

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell

From: Andrew Gorton <Andrew.Gorton@Tcea.Texas.Gov>

Sent: Thursday, February 27, 2025 1:49 PM

To: Clint Green <<u>Clint.Green@ojdengineering.com</u>>; Louis Herrin <<u>louis.herrin@tceq.texas.gov</u>>

**Cc:** Sara Holmes <<u>Sara.Holmes@tceq.texas.gov</u>>

**Subject:** Re: WQ0016717001

Thank you for taking my call Clint. Sorry I wasted your time b/c after I re-read my comment, I see that I just asked for pond liner information in the Groundwater Tech Report. The rest of the Report "checked all the boxes" that needed to be "checked." I must have confused your application with another. BUT, please reach out to our Plans and Specs engineers ASAP (specifically Louis Herrin at 512-239-4552) about your proposal to use a synthetic liner without a leak detection/collection system. We just got the application for a full review yesterday, and I cannot complete the processing without either an approval or denial of your proposal from Louis. I have 'cc'd' Louis on this email.

Thank	you,
-------	------

-Andy

Andrew Gorton, P.G.

Texas Commission on Environmental Quality

MC-150

PO Box 13087

Austin, TX 78711-3087

512.239.4585

#### Andrew.Gorton@tceq.texas.gov

**From:** Clint Green < <u>Clint.Green@ojdengineering.com</u>>

**Sent:** Wednesday, February 26, 2025 4:58 PM **To:** Sara Holmes <<u>Sara.Holmes@tceq.texas.gov</u>>

**Cc:** Andrew Gorton < Andrew.Gorton@Tceq.Texas.Gov>

**Subject:** WQ0016717001

Good afternoon Sara,

We are currently working on the responses requested in the attached Technical Completeness Review. I will have all of the answers to the questions to you by the requested date of March 5, 2025, with exception of the soil analyses for the land application areas. The samples are to be taken this week, but we will have to wait util the lab provides the results before we are able to provide them to you.

Please let me know if you have any questions.

Thank you,

Clint Green, Engineering Technician/Designer OJD Engineering, LLC

2420 Lakeview Drive Amarillo, Texas 79109 806.352.7117. ext. 105 806.352.7188 Fax 806.433.1138 Cell