Administrative Package Cover Page

This file contains the following documents:

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

Plain Language Summary Template for Texas Land Application (TLAP) Permit Applications

City of Wickett (CN600670004) operates City of Wickett WWTP RN101918027. a Wastewater Treatment Plant. The facility is located approximately 1 mile northwest of the intersection of Farm-to-Market Road 1219 and Interstate Highway 20, in Wickett, Ward County, Texas 79788.

This application is for a renewal to dispose a daily average flow not to exceed 91,000 gallons per day of treated domestic wastewater via irrigation of 18 acres of non public access agricultural land. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD5). Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010622001

APPLICATION. City of Wickett, P.O. Box 185, Wickett, Texas 79788, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010622001 to authorize the disposal of treated wastewater at a daily average flow at a volume not to exceed 91,000 gallons per day via surface irrigation of 18 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1 mile northwest of the intersection of Farm-to-Market Road 1219 and Interstate Highway 20, in Ward County, Texas 79788. TCEQ received this application on June 13, 2024. The permit application will be available for viewing and copying at Wickett City Hall, 103 3rd Street, Wickett, in Ward 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=-103.008611,31.561944&level=18

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

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

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

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

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

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

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

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Wickett at the address stated above or by calling Ms. Lorinda Gibson, City Secretary, at 432-943-6765.

Issuance Date: July 2, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: CITY OF WICKETT

PERMIT NUMBER (If new, leave blank): WQ00 10622001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: 16386

Check/Money Order Amount: 515.00

Name Printed on Check: City of Wickett

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

- ☐ TPDES Permit
- ☒ TLAP
- ☐ TPDES Permit with TLAP component
- ☐ Subsurface Area Drip Dispersal System (SADDS)

d. Check the box next to the appropriate application type

- ☐ New
- ☐ Major Amendment *with* Renewal
- ☐ Major Amendment *without* Renewal
- ☒ Renewal without changes
- ☐ Minor Amendment *with* Renewal
- ☐ Minor Amendment *without* Renewal
- ☐ Minor Modification of permit

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

f. For existing permits:

Permit Number: WQ00 10622001

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

Expiration Date: 09/01/2024

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

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

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

City of Wickett

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

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

CN: 600670004

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

Prefix: Mr.

Last Name, First Name: Estrada, Xavier

Title: Mayor

Credential: Click 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: http://www15.tceq.texas.gov/crpub/

CN: Click to enter text.

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

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

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

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

C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. #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: Mrs. Last Name, First Name: Gibson, Lorinda

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Wickett

Mailing Address: PO BOX 185 City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 E-mail Address: cityofwickett@gmail.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mrs. Last Name, First Name: Fernandez, Sarah

Title: Environmental Coordinator Credential: Click to enter text.

Organization Name: Jacob Martin

Mailing Address: 3465 Curry Lane City, State, Zip Code: Abilene, TX 79606

Phone No.: 325-695-1070 E-mail Address: sfernandez@jacobmartin.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mrs. Last Name, First Name: Gibson, Lorinda

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Wickett

Mailing Address: PO BOX 185 City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 E-mail Address: cityofwickett@gmail.com

B. Prefix: Mrs. Last Name, First Name: Fernandez, Sarah

Title: Environmental Coordinator Credential: Click to enter text.

Organization Name: Jacob Martin

Mailing Address: 3465 Curry Lane City, State, Zip Code: Abilene, TX 79606

Phone No.: 325-695-1070 E-mail Address: sfernandez@jacobmartin.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mrs. Last Name, First Name: Gibson, Lorinda

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Wickett

Mailing Address: PO BOX 185 City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 E-mail Address: cityofwickett@gmail.com

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

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

Prefix: Mrs. Last Name, First Name: Gibson, Lorinda

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Wickett

Mailing Address: PO BOX 185 City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 E-mail Address: cityofwickett@gmail.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mrs. Last Name, First Name: Fernandez, Sarah

Title: Environmental Coordinator Credential: Click to enter text.

Organization Name: Jacob Martin

Mailing Address: 3465 Curry Lane City, State, Zip Code: Abilene, TX 79606

Phone No.: 325-695-1070 E-mail Address: sfernandez@jacobmartin.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: Mrs. Last Name, First Name: Gibson, Lorinda

Title: City Secretary Credential: Click to enter text.

Organization Name: City of Wickett

Mailing Address: PO BOX 185 City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 E-mail Address: cityofwickett@gmail.com

D. Public Viewing Information

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

Public building name: Wickett City Hall

Location within the building: Main Office

Physical Address of Building: 103 3rd St

City: Wickett County: Ward

Contact (Last Name, First Name): Gibson, Lorinda

Phone No.: 432-943-6765 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☐ Yes ☒ No

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

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

F. Plain Language Summary Template

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

Attachment: #1

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: Click to enter text.

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** 101918027

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

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

CITY OF WICKETT WASTEWATER TREATEMENT PLANT

C. Owner of treatment facility: CITY OF WICKETT

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: CITY OF WICKETT

Mailing Address: PO BOX 185 City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 E-mail Address: cityofwickett@gmail.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

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): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: Wickett

C. County in which the disposal site is located: Ward

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

Click to enter text.

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☐ Not Applicable

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

Click to enter text.

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

☒ Yes ☐ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Charles Kieth and David Hudson

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010622001

Applicant: City of Wickett

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): Xavier Estrada

Signatory title: Mayor

Signature: _____ Date: 4/9/24

(Use blue ink)

Subscribed and Sworn to before me by the said J. Xavier Estrada

on this 4th day of May, 2024.

My commission expires on the 9th day of February, 2025.

Notary Public

LORINDA GIBSON
My Notary ID # 130970001
Expires February 9, 2025
(SEAL)

Ward

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

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

☐ USB Drive ☐ Four sets of labels

D. Provide the source of the landowners' names and mailing addresses: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

- ☐ At least one original photograph of the new or expanded treatment unit location
- ☐ 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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☐ No

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: #2

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0010622001

1. Check or Money Order Number: 16386
2. Check or Money Order Amount: 515.00
3. Date of Check or Money Order: 4/23/24
4. Name on Check or Money Order: City of Wickett
5. APPLICATION INFORMATION

   Name of Project or Site: CITY OF WICKETT WWTP

   Physical Address of Project or Site: approx. 200 ft S of US HWY 80, 0.5 mi W of intersection of FM 1219 and US HWY 80 in Ward Co TX 79788.

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

[redacted]

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.091

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

D. Current Operating Phase

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

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Wickett Wastewater Treatment Facility consists of a pond system includes four oxidation ponds for storage of treated effluent prior to irrigation.

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)
Pond 1	1	**Approx 139 ft x 126 ft x 15 ft**
Pond 2	1	Approx. 46 ft x 237 ft x 15 ft
Pond 3	1	Approx 81 ft x 256 ft x 5 ft
Pond 4	1	Approx 110 ft x 237 ft x 5ft

C. Process Flow Diagram

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

Attachment: #3

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

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

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

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

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

Click to enter text.

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 4/7/2015

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Click to enter text.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. ***Grease and decanted liquid disposal***

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

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

Click to enter text.

E. Stormwater management

1. ***Applicability***

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. ***MSGP coverage***

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

3. ***Conditional exclusion***

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

☐ Yes ☐ No

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

Click to enter text.

4. ***Existing coverage in individual permit***

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

☐ Yes ☐ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☐ No

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

Click to enter text.

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

6. ***Request for coverage in individual permit***

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

☐ Yes ☐ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. *Acceptance of sludge from other WWTPs*

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

If yes, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). ***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.

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	10.8	-	1	Grab	4/15/24 09:00
Total Suspended Solids, mg/l	28.7	-	1	Grab	4/15/24 09:00

Ammonia Nitrogen, mg/l	9.16	-	1	Grab	4/15/24 09:00
Nitrate Nitrogen, mg/l	<0.2000	-	1	Grab	4/15/24 09:00
Total Kjeldahl Nitrogen, mg/l	17.7	-	1	Grab	4/15/24 09:00
Sulfate, mg/l	170	-	1	Grab	4/15/24 09:00
Chloride, mg/l	561	-	1	Grab	4/15/24 09:00
Total Phosphorus, mg/l	2.87	-	1	Grab	4/15/24 09:00
pH, standard units	<2	-	1	Grab	4/15/24 09:00
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater	28.8		1		4/15/24 09:00
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	1647		1		4/15/24 09:00
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: KEVIN LUCKIE

Facility Operator's License Classification and Level: WASTEWATER TREATMENT OPERATOR D

Facility Operator's License Number: WW0011623

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☐ Design flow>= 1 MGD
- ☐ Serves >= 10,000 people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user - land application (onsite)
- ☐ Biosolids end user - surface disposal (onsite)
- ☐ Biosolids end user - incinerator (onsite)

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (>= 2 years)
- ☐ Methane or Biogas Recovery

☐ Other Treatment Process: Click to enter text.

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
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: No sludge disposed yet

TCEQ permit or registration number: Click to enter text.

County where disposal site is located: Click to enter text.

E. Transportation method

Method of transportation (truck, train, pipe, other): truck

Name of the hauler: TBD

Hauler registration number: Click to enter text.

Sludge is transported as a:

Liquid ☐ semi-liquid ☐ semi-solid ☐ solid ☐

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If yes, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	☐ Yes	☒ No
Marketing and Distribution of sludge	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

If yes to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:

  Attachment: Click to enter text.
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: Click to enter text.
- Federal Emergency Management Map:

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0.*

Nitrate Nitrogen, mg/kg: Click to enter text.

Total Kjeldahl Nitrogen, mg/kg: Click to enter text.

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

Volume and frequency of sludge to the lagoon(s): Click to enter text.

Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.

Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.

Click to enter text.

D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)

  Attachment: Click to enter text.
- Copy of the closure plan

  Attachment: Click to enter text.
- Copy of deed recordation for the site

  Attachment: Click to enter text.
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment: Click to enter text.
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment: Click to enter text.
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: Click to enter text.

E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 55)

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Click to enter text.

Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

B. Remediation activity wastewater

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

C. Details about wastes received

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

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

Printed Name: Xavier Estrada

Title: Mayor

Signature: _____

Date: 4/4/24

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

The following information is required for new and amendment major applications.

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

Click to enter text.

B. Regionalization of facilities

For additional guidance, please review TCEQ's Regionalization Policy for Wastewater Treatment[1].

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

1. Municipally incorporated areas

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☐ No

[1] https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

3. ***Nearby WWTPs or collection systems***

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

Attachment: Click to enter text.

If yes, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

Attachment: Click to enter text.

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

If no, proceed to Item B, Proposed Organic Loading.

If yes, provide organic loading information in Item A, Current Organic Loading

A. Current organic loading

Facility Design Flow (flow being requested in application): Click to enter text.

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click to enter text.

B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
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 BOD_5 from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

A. Existing/Interim I Phase Design Effluent Quality

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

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: 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.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

☐ Yes ☐ No

If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

Click to enter text.

Provide the source(s) used to determine 100-year frequency flood plain.

Click to enter text.

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If yes, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If yes, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451):** Click to enter text.

B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

If any of the above, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056):** Click to enter text.

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: Click to enter text.

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☐ No

If **no**, proceed it Section 2. **If yes**, provide the following:

Owner of the drinking water supply: Click to enter text.

Distance and direction to the intake: Click to enter text.

Attach a USGS map that identifies the location of the intake.

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from outfall(s).

Click to enter text.

C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If yes, provide the distance and direction from the outfall(s).

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☐ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

Average depth of the entire water body, in feet: Click to enter text.

Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

Click to enter text.

D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☐ Urban runoff
☐ Agricultural runoff
☐ Other(s), specify: Click to enter text.

B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

Section 1. General Information (Instructions Page 66)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

Click to enter text.

Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

Table 2.1(1) - Stream Transect Records

Stream type at transect Select riffle, run, glide, or pool. See Instructions, Definitions section.	**Transect location**	**Water surface width (ft)**	**Stream depths (ft)** at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			
Choose an item.			

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: Click to enter text.

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): Click to enter text.

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): Click to enter text.

Size of pools (large, small, moderate, none): Click to enter text.

Maximum pool depth, in feet: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☒ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click to enter text.

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Oats, rye, and hay	5.2	78202	N

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
Pond 1	0.47	3.17	**Approx 139 ft x 126 ft x 15 ft**	Clay
Pond 2	0.47	3.17	Approx. 46 ft x 237 ft x 15 ft	Clay
Pond 3	0.47	3.17	Approx 81 ft x 256 ft x 5 ft	Clay
Pond 4	0.47	3.17	Approx 110 ft x 237 ft x 5ft	Clay

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

Attachment: Click to enter text.

Section 4. Flood and Runoff Protection (Instructions Page 68)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☒ No

If yes, describe how the site will be protected from inundation.

Click to enter text.

Provide the source used to determine the 100-year frequency flood level:

FEMA and USGS contour map

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment:** #7

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment:** #2

- 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
4632619	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632621	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632604	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
202733	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632616	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
4632630	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632603	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632626	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632627	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632602	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632628	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4632631	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4525402	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4525401	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
206450	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS
4525409	Unused	N	OPEN	150 ft buffer from Domestic Well or 500 ft from PWS

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

Attachment: #2

Section 7. Groundwater Quality (Instructions Page 69)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

Attachment: #2

Are groundwater monitoring wells available onsite? ☒ Yes ☐ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☒ No

If yes, provide the proposed location of the monitoring wells or lysimeters on a site map.

Attachment: Click to enter text.

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

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

Attachment: #7

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: NA

List all USDA designated soil series on the proposed land application site. Attach additional pages as necessary.

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
4-1-22	0.0379	63.3		7.77		18
5-6-22	0.0379	60.5		6.49		18
6-3-22	0.0375	64.8		6.51		18
7-1-22	0.0352	42.4		6.47		18
8-5-22	0.0358	32.3		6.47		18
9-2-22	0.0340	21.3		6.91		18
10-7-22	0.0377	31.7		6.53		18
11-4-22	0.0376	30.9		6.43		18

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
12-2-22	0.0360	47.4		7.01		18
1-5-23	0.0407	78.0		8.02		18
2-2-23	0.0322	36.5		8.65		18
3-2-23	0.0294	57.4		8.91		18
4-6-23	0.0287	81.1		8.78		18
5-4-23	0.0313	59.2		8.85		18
6-8-23	0.0330	60.6		8.94		18
7-6-23	0.0340	51.6		8.02		18
8-3-23	0.0356	38.6		8.99		18
9-7-23	0.0338	38.7		8.99		18
10-5-23	0.0389	46.3		8.33		18
11-2-23	0.0298	28.7		8.66		18
12-7-23	0.0332	29.8		8.05		18
1-4-24	0.0392	66.2		8.77		18
2-1-24	0.0296	34.4		8.89		18
3-7-24	0.0283	36.2		8.60		18

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: Click to enter text.

Design application frequency:

hours/day Click to enter text. **And** days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

Soil conductivity (mmhos/cm): Click to enter text.

Method of application: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations.

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: Click to enter text.

Depth of bed(s), in feet: Click to enter text.

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

Attachment: Click to enter text.

D. Overland flow

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

Slopes for application area, percent (%): Click to enter text.

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

hours/day: Click to enter text. **And** days/week: Click to enter text.

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217.*

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If yes, attach a geological report addressing potential recharge features.

Attachment: Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: Click to enter text.

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

Area of bed(s), in square feet: Click to enter text.

Soil Classification: Click to enter text.

Attach a separate engineering report with the information required in *30 TAC § 309.20,* excluding the requirements of § 309.20 b(3)(A) and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, the subsurface system may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System.*

Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

Average slope of the application area, percent (%): Click to enter text.

Maximum slope of the application area, percent (%): Click to enter text.

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79.*

Attachment: Click to enter text.

B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73.*

Attachment: Click to enter text.

C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75.*

Attachment: Click to enter text.

D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157.*

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

Attachment: Click to enter text.

B. Buffer variance request

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If yes to either question, then the SADDS may be prohibited by *30 TAC §213.8.* Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) **(*1)**				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide **(*2)**				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

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

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) **(*1)**				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide **(*2)**				10
Phenols, Total				10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

- ☐ 2,4,5-trichlorophenoxy acetic acid
  Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid
  Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate
  Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate
  Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol
  Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene
  Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☐ No

If **yes**, provide a brief description of the conditions for its presence.

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☐ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Click to enter text.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: NA

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Click to enter text.

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ
IUC Permits Team
Radioactive Materials Division
MC-233
PO Box 13087
Austin, Texas 78711-3087
512-239-6466

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 92)

1. **TCEQ Program Area**

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

   Program ID: Click to enter text.

   Contact Name: Click to enter text.

   Phone Number: Click to enter text.

2. **Agent/Consultant Contact Information**

   Contact Name: Click to enter text.

   Address: Click to enter text.

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

   Phone Number: Click to enter text.

3. **Owner/Operator Contact Information**

   ☐ Owner ☐ Operator

   Owner/Operator Name: Click to enter text.

   Contact Name: Click to enter text.

   Address: Click to enter text.

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

   Phone Number: Click to enter text.

4. **Facility Contact Information**

   Facility Name: Click to enter text.

   Address: Click to enter text.

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

   Location description (if no address is available): Click to enter text.

   Facility Contact Person: Click to enter text.

   Phone Number: Click to enter text.

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: Click to enter text.

Longitude: Click to enter text.

Method of determination (GPS, TOPO, etc.): Click to enter text.

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: Click to enter text.

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: Click to enter text.

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

Table 7.0(1) – Down Hole Design Table

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.
2. Receiving Formation Name of Injection Zone: Click to enter text.
3. Well/Trench Total Depth: Click to enter text.
4. Surface Elevation: Click to enter text.
5. Depth to Ground Water: Click to enter text.
6. Injection Zone Depth: Click to enter text.
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

   Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

   Name: Click to enter text.

   Thickness: Click to enter text.
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

   Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume

   Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

    Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection

    Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.
13. Maximum injection Rate/Volume/Pressure: Click to enter text.
14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.
17. Sampling frequency: Click to enter text.
18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.

Class V Injection Well Designations

5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
5D02 Storm Water Drainage (IW designed for the disposal of rain water)
5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
5F01 Agricultural Drainage (IW that receive agricultural runoff)
5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
5W09 Untreated Sewage
5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
5W12 WTTP disposal
5W20 Industrial Process Waste Disposal Wells
5W31 Septic System (Well Disposal method)
5W32 Septic System Drainfield Disposal
5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
5X27 Other Wells
5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
5X29 Abandoned Drinking Water Wells (waste disposal)

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #1

TCEQ Core Data Form, Application Fee Check, Plain Language Summary

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*

CN 600670004

Follow this link to search for CN or RN numbers in Central Registry**

3. Regulated Entity Reference Number *(if issued)*

RN 101918027

SECTION II: Customer Information

4. General Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy)

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

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

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

If new Customer, enter previous Customer below:

CITY OF WICKETT

7. TX SOS/CPA Filing Number

8. TX State Tax ID (11 digits)

9. Federal Tax ID (9 digits)

10. DUNS Number *(if applicable)*

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

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

12. Number of Employees

☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?

☒ Yes ☐ No

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

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

15. Mailing Address:

PO BOX 185

City	WICKETT	State	TX	ZIP	79788	ZIP + 4	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*

cityofwickett@gmail.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(432) 943-6765		( ) -

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.)*

CITY OF WICKETT WASTEWATER TREATEMENT PLANT

23. Street Address of the Regulated Entity: *(No PO Boxes)*							
	City		**State**		**ZIP**		**ZIP + 4**
24. County							

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

25. Description to Physical Location:	1 MILE WEST NORTHWEST OF THE INTERSECTION OF IH-20 and FM 1219 WICKETT		
26. Nearest City		**State**	**Nearest ZIP Code**
Wickett		TX	79788

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

27. Latitude (N) In Decimal:	31.561787,		**28. Longitude (W) In Decimal:**	-103.0082		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	

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

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

WASTEWATER TREATEMENT PLANT

34. Mailing Address:	**PO BOX 185**						
	City	**WICKETT**	**State**	**TX**	**ZIP**	**79788**	**ZIP + 4**
35. E-Mail Address:	**cityofwickett@gmail.com**						

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(432) 943-6765		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Sarah Fernandez	**41. Title:**	Environmental Coordinator

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(325) 695-1070		( ) -	sfernandez@jacobmartin.com

SECTION V: Authorized Signature

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

Company:	City of Wickett	**Job Title:**	Mayor
Name *(In Print)*:	Xavier Estrada	**Phone:**	(432) 943- 6765
Signature:		**Date:**	4/12/24

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0010622001

1. Check or Money Order Number: 16386
2. Check or Money Order Amount: 515.00
3. Date of Check or Money Order: 4/23/24
4. Name on Check or Money Order: City of Wickett
5. APPLICATION INFORMATION

   Name of Project or Site: CITY OF WICKETT WWTP

   Physical Address of Project or Site: approx. 200 ft S of US HWY 80, 0.5 mi W of intersection of FM 1219 and US HWY 80 in Ward Co TX 79788.

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

[redacted]

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #2

USGS Topographic Map/ SPIFF Form With location of wells, and boundaries of application area

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: CITY OF WICKETT

   Permit No. WQ00 10622001 ___ EPA ID No. TX

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

   1 MILE WEST NORTHWEST OF THE INTERSECTION OF IH-20 and FM 1219 WICKETT

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

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

First and Last Name: Lorinda, Gibson

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: City Secretary

Mailing Address: PO BOX 185

City, State, Zip Code: WICKETT, TX 79788

Phone No.: 432-943-6765 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: cityofwickett@gmail.com

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

N/A

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

The disposal site is located site is in the drainage basin of Upper Pecos River in Segment No. 2311 of the Rio Grande Basin. Disposal site is located approx.. 200 ft S of US HWY 80,0.5 mi W of the intersection of FM 1219 and US HGWY in Ward Co TX 79788.

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

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

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

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

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

N/A

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

N/A

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

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

Click here to enter text.

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

Click here to enter text.

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

The National Map
US Topo

PYOTE EAST QUADRANGLE
TEXAS - WARD COUNTY
7.5-MINUTE SERIES

Produced by the United States Geological Survey

SCALE 1:24 000

ROAD CLASSIFICATION

PYOTE EAST, TX
2022

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

US Topo

MONAHANS QUADRANGLE
TEXAS - WARD COUNTY
7.5-MINUTE SERIES

Produced by the United States Geological Survey

SCALE 1:24 000

MONAHANS, TX
2021

Groundwater Technical Report

See attachment Water Well Map

TWDB well information is attached and correlated with well numbers.

No monitoring wells are installed.

The wastewater plant is located between the Union Pacific railroad tracks and Interstate 20 in Wickett, TX in Ward County. Ward County is the site of prolific oil and gas exploration and production. The active and abandoned wells in this area are set on a close grid of a few hundred feet of separation.

There are no known karst features at the site.

A southward trending structural high, the Central Basin Platform, divides the Permian Basin of west Texas into two smaller basins-the Delaware basin on the west and Midland basin on the east. The eastern third of Ward County overlies the Central Basin Platform, and the rest of the county overlies the Delaware basin.

Found in the area is the Major Aquifer of the Pecos Valley and the Minor Aquifers of the Dockum and Capitan Reef Complex.

Ward County is in the Pecos Valley section of the Great Plains physiographic province (Fenneman, 1931) an the Trans Pecos ecoregion. More than three-fourths of the surface of the county is rolling uplands. The uplands, which are mantled by caliche and thin sandy soils, are sparsely vegetated with semi desert shrubs and grasses and are devoted largely to ranching. Vegetation in the county is drought resistant. Sparse grasses; desert shrubs such as ocotillo, lechuguilla, sotol, acacias, tarbrush, and creosote bush; some mesquite; and cactus are the dominant plants outside of the heavily farmed areas.

The uplands slope toward the Pecos River and merge with the terraces or lowlands that border the river. The terraces are mantled by fine- to medium textured gypsiferous soils that are extensively cultivated in the Barstow and Grandfalls areas. The slope of the terraces, which is to the southeast nearly parallel to the river, ranges from 6 to 8 feet per mile. A belt of sand dunes, which covers about 50 square miles in northeastern Ward County, is one of the more prominent topographic features of the uplands.

In the Monahans Sandhills State Park, near the northeastern corner of the county 10 miles from Wickett, the high migrating dunes rise as much as 50 feet above the surrounding land surface. The belt of dunes is a regional feature that extends southeastward from the southeastern corner of New Mexico through parts of Andrews, Winkler, Ward, Ector, Crane, and Upton Counties.

Because of the lack of vegetation and the high permeability of the sand, the dunes are an important site of recharge of the underlying ground-water reservoir. The most prominent feature in Western Ward County is the southwest-facing Quito Escarpment that rises 100 to 300 feet above the lowlands bordering the Pecos River to the southwest. The rim of the escarpment forms a topographic divide that extends southeastward from Loving County through Ward County, terminating about 10 miles south of Pyote. Locally, resistant beds of ledge-forming sandstone are exposed in the face of the escarpment

below the divide. In other areas, the divide is completely mantled with alluvium and is not easily recognized.

All of Ward County is in the drainage basin of the Pecos River which flows southeastward along the western and southern borders of the county. Surface drainage in the county is largely closed. After periods of heavy precipitation, runoff collects in the swales, sinks, and playas on the upland surface where most of the water is subsequently lost to evapotranspiration. Runoff to the Pecos River by way of the ephemeral streams or draws is small or negligible.

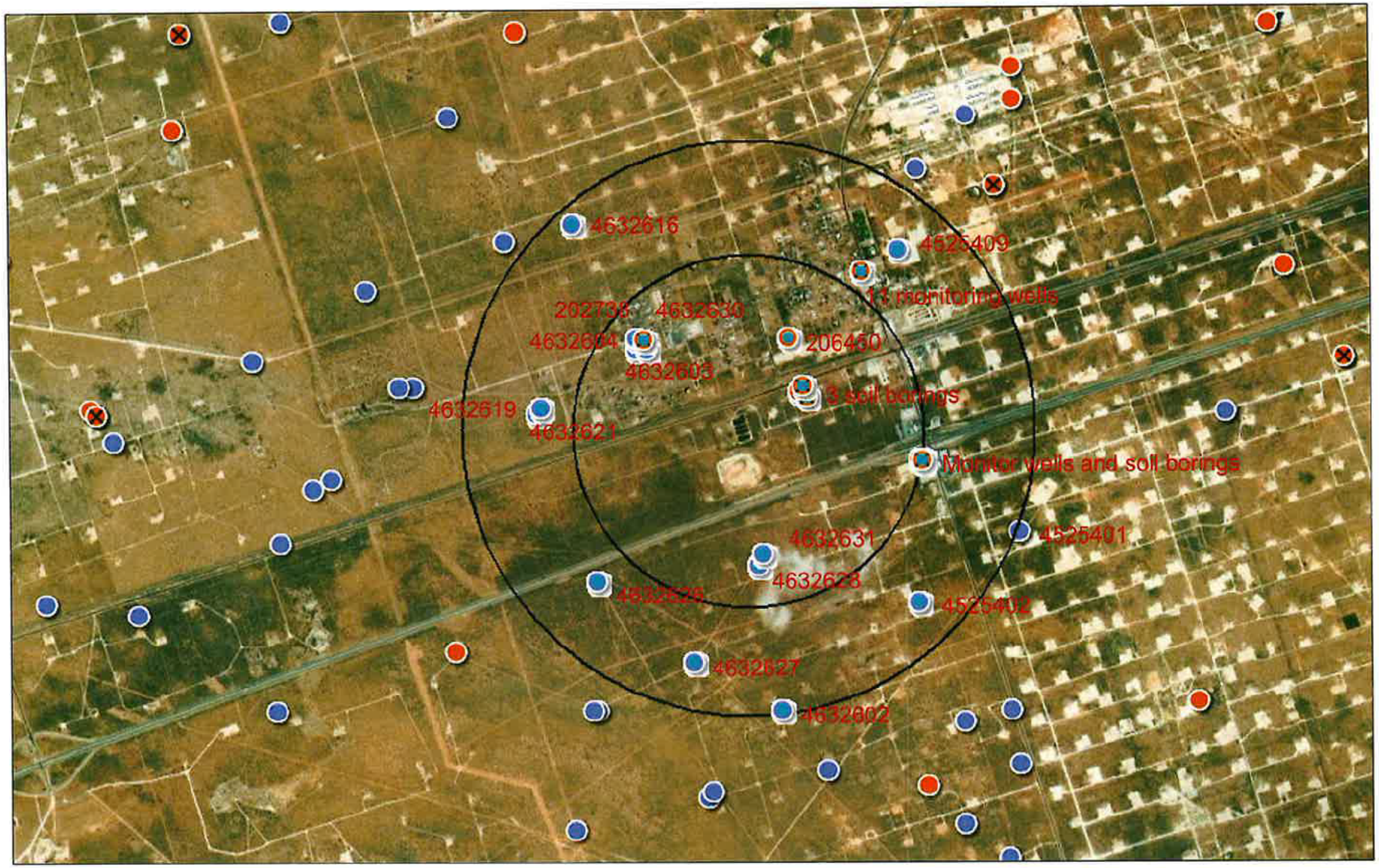
The average rainfall in the area is in the 9" to 10" per year limiting runoff and limiting recharge to groundwater sources and dependent on areas with scant soil and drainage features to funnel recharge.

The pond system has a certified clay liner system so that any leaching from the ponds will be very minimal to none. From the pond system the treated effluent will be pumped to an irrigation point and irrigated over 18 acres at a rate of 5.2 acre ft/acre/year. The irrigated field primarily consists of Pyote soils, undulating and Wickett and Sharvana fine sandy loams, gently sloping. Higher recharge generally occurs where soils are thin and soil hydraulic conductivity and bedrock hydraulic conductivity are highest.

There are 7 wells within a half mile of the site. While Ward County and the associated aquifers are known to have historically numerous wells, pumping has been significant with water quality affected by high total dissolved solids.

With the pond system having a certified clay liner, and the limited rainfall there will be very minimal to no changes in groundwater quality due to the wastewater plant.

Groundwater Data, Texas



Texas Water Development Board

April 25, 2024

Plugging Reports
Well Reports
TWDB Groundwater

0 0.3 0.6 1.2 mi
0 0.5 1 2 km
1:36,112

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

STATE OF TEXAS PLUGGING REPORT for Tracking #34063

Owner:	**UT Lands**	Owner Well #:	**MW1**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	2	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34064

Owner:	**UT Lands**	Owner Well #:	**SVE-A**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Latitude:	**31° 34' 11" N**
		Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34065

Owner:	**UT Lands**	Owner Well #:	**MW2-SVE2**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34066

Owner:	**UT Lands**	Owner Well #:	**SVE3**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Latitude:	**31° 34' 11" N**
		Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34067

Owner:	**UT Lands**	Owner Well #:	**MW4**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**4**		**63**

Plugging Information

Date Plugged: **9/14/2006** Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	**0**	**63**

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	**4**	**1 Cement**
4	**63**	**7 Bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name:	**John E. Talbot**	License Number:	**3180**
Apprentice Name:	**Martin Casarez**	Apprentice Number:	**1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34069

Owner:	**UT Lands**	Owner Well #:	**MW6**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Latitude:	**31° 34' 11" N**
		Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Driller: **No Data**

Date Drilled: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**4**		**63**

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	**0**	**63**

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	**4**	**1 Cement**
4	**63**	**7 Bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34068

Owner:	**UT Lands**	Owner Well #:	**MW5**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34070

Owner:	**UT Lands**	Owner Well #:	**MW7**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34071

Owner:	**UT Lands**	Owner Well #:	**SVE8**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**4**		**63**

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	**0**	**63**

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	**4**	**1 Cement**
4	**63**	**7 Bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34072

Owner:	**UT Lands**	Owner Well #:	**MW9**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Latitude:	**31° 34' 11" N**
		Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #34073

Owner:	**UT Lands**	Owner Well #:	**MW10**
Address:	**101 S. Obrien Street Wickett, TX 79788**	Grid #:	**46-32-6**
		Latitude:	**31° 34' 11" N**
Well Location:	**101 S. Obrien Street Wickett, TX 79788**	Longitude:	**103° 00' 04" W**
Well County:	**Ward**	Elevation:	**No Data**

Well Type: **Monitor**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **No Data**

License Number: **No Data**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		63

Plugging Information

Date Plugged: **9/14/2006**

Plugger: **John E. Talbot**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	0	63

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	4	1 Cement
4	63	7 Bentonite

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Vortex Drilling Inc.**

4412 Bluemel Road
San Antonio, TX 78240

Driller Name: **John E. Talbot**

License Number: **3180**

Apprentice Name: **Martin Casarez**

Apprentice Number: **1638**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #177104

Owner:	**TCEQ**	Owner Well #:	**MW-2**
Address:	**P.O. Box 13087 Austin, TX 78711**	Grid #:	**45-25-4**
Well Location:	**Southwest Corner of RR 1219 & IH-20 Wickett, TX**	Latitude:	**31° 33' 36.06" N**
		Longitude:	**102° 59' 51.07" W**
Well County:	**Ward**	Elevation:	**No Data**
Well Type:	**Monitor**		

Drilling Information

Company: **Peterson Drilling & Testing, Inc.** Date Drilled: **1/16/2018**

Driller: **Lee Peterson** License Number: **3045**

Well Report Tracking #470993

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	**8.5**	**0**	**185**

Plugging Information

Date Plugged: **4/24/2018** Plugger: **Lee Peterson**

Plug Method: **Tremmie pipe bentonite from bottom to 2 feet from surface, cement top 2 feet**

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	**0**	**185**

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	**2**	**Cement 1 Bags/Sacks**
2	**185**	**Bentonite 23.17 Bags/Sacks**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Peterson Drilling & Testing, Inc.**

P.O. Box 30699
Amarillo, TX 79120

Driller Name: **Lee Peterson** License Number: **3045**

Comments: **No Data**

Plugging Re	Well Type	County	Well Owner	Well Street	Well City	Well Zip Co	Latitude (D	Longitude (	Date of Wel	Borehole D	Well Report	Known Location Error
34063	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34064	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34065	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34066	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34067	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34068	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34069	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34070	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34071	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34072	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
34073	Monitor	Ward	UT Lands	101 S. Obri	Wickett	79788	31.56972	-103.001	14-Sep-06	63		
112841	Environmer	Ward	Neighbors \	1 mile west	Wickett		31.56361	-103.005	27-Oct-05	20	71169	
112842	Environmer	Ward	Neighbors \	1 mile west	Wickett		31.56361	-103.005	27-Oct-05	30	71170	
113113	Environmer	Ward	Nabors Wel	1 mile west	Wickett		31.56333	-103.004	13-Dec-05	100	74659	
113116	Environmer	Ward	Nabors Wel	1/2 mile we	Wickett		31.56389	-103.005	18-Jan-06	83	74701	
169675	Environmer	Ward	TCEQ	Former	Wickett		31.56014	-102.998	30-May-17	8	455209	
169677	Environmer	Ward	TCEQ	Former	Wickett	79788	31.56014	-102.998	30-May-17	8	455210	
169676	Environmer	Ward	TCEQ	Former	Wickett	79788	31.55994	-102.998	30-May-17	16.3	455211	
169674	Environmer	Ward	TCEQ	Former	Wickett	79788	31.56013	-102.997	30-May-17	20.3	455213	
177104	Monitor	Ward	TCEQ	Southwest	Wickett		31.56002	-102.998	24-Apr-18	185	470993	
177103	Monitor	Ward	TCEQ	Southwest	Wickett		31.56002	-102.998	24-Apr-18	75	458714	
202738	Public Supp	Ward	City of Wick	From Wicke	Wickett		31.56629	-103.014	16-Sep-20	284		

Well Report	Well Type	Proposed U	County	Well Owner	Well Street	Well City	Well Zip Co	Latitude (D	Longitude (	Date of Wel	Borehole D	Injurious W	Plugging Re	Known Location Error
71169	New Well	Environmer	Ward	Neighbors \	1 mile west	Wickett		31.56361	-103.005	27-Oct-05	20	no	112841	
71170	New Well	Environmer	Ward	Neighbors \	1 mile west	Wickett		31.56361	-103.005	27-Oct-05	30	no	112842	
74659	New Well	Environmer	Ward	Nabors Wel	1 mile west	Wickett		31.56333	-103.004	13-Dec-05	100	no	113113	
74701	New Well	Environmer	Ward	Nabors Wel	1/2 mile we	Wickett		31.56389	-103.005	18-Jan-06	83	no	113116	
206450	New Well	Public Supp	Ward	City of Wick	S.E. Corner	Wickett		31.56639	-103.006	13-Jan-10	400	no		
455209	New Well	Environmer	Ward	TCEQ	Former	Wickett		31.56014	-102.998	30-May-17	8	no	169675	
455210	New Well	Environmer	Ward	TCEQ	Former	Wickett	79788	31.56014	-102.998	30-May-17	8	no	169677	
455211	New Well	Environmer	Ward	TCEQ	Former	Wickett	79788	31.55994	-102.998	30-May-17	16.3	no	169676	
455213	New Well	Environmer	Ward	TCEQ	Former	Wickett	79788	31.56013	-102.997	30-May-17	20.3	no	169674	
458714	New Well	Monitor	Ward	TCEQ	Southwest	Wickett		31.56002	-102.998	17-Aug-17	75	no	177103	
470993	New Well	Monitor	Ward	TCEQ	Southwest	Wickett		31.56002	-102.998	16-Jan-18	185	no	177104	
554839	New Well	Public Supp	Ward	City of Wick	From Wicel	Wickett		31.56629	-103.014	10-Apr-20	400	no		

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #3

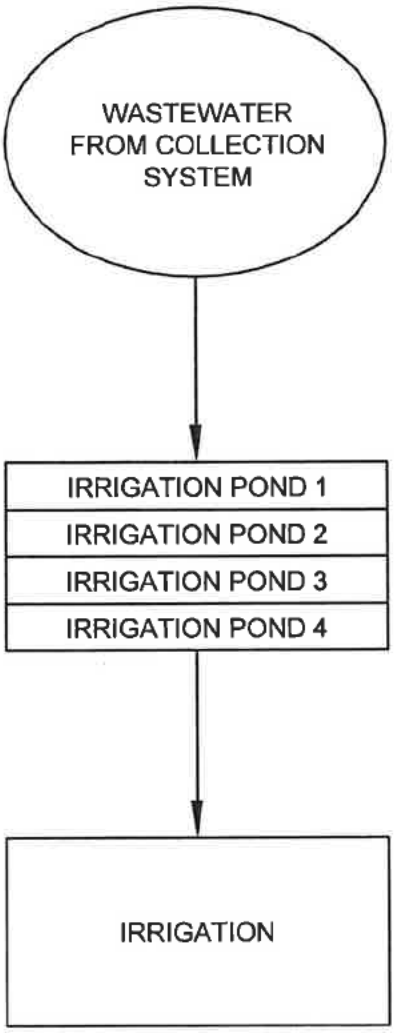
Flow Diagram

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086


WASTEWATER
FROM COLLECTION
SYSTEM
IRRIGATION POND 1
IRRIGATION POND 2
IRRIGATION POND 3
IRRIGATION POND 4
IRRIGATION

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #4

Site Drawings

Prepared By:

JACOB MARTIN

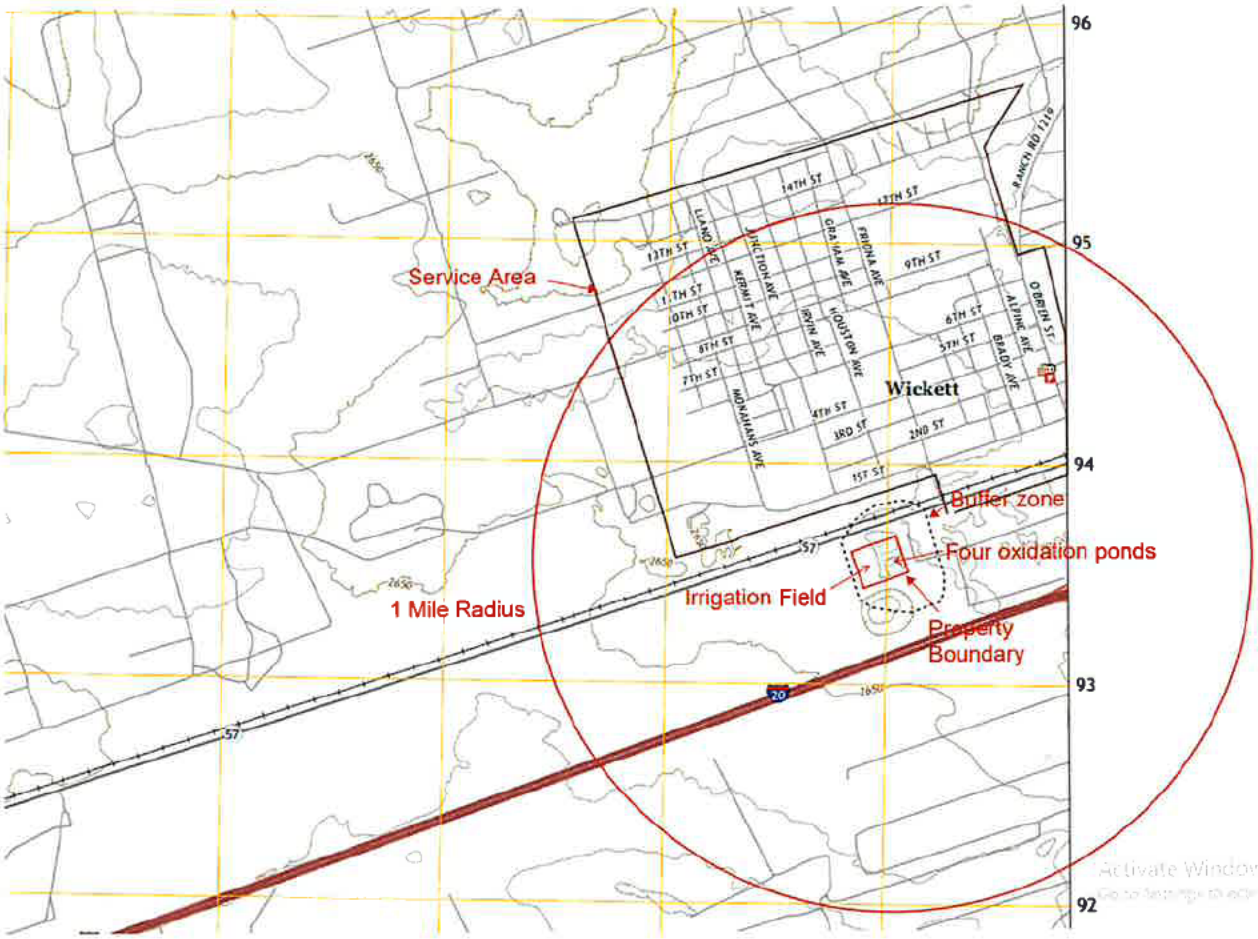
Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086


Service Area
1 Mile Radius
Buffer zone
Four oxidation ponds
Irrigation Field
Property Boundary
Wickett
96
95
94
93
92
14TH ST
13TH ST
11TH ST
10TH ST
9TH ST
8TH ST
7TH ST
6TH ST
5TH ST
4TH ST
3RD ST
2ND ST
1ST ST
LLANO AVE
JUNCTION AVE
KERMIT AVE
MONAHANS AVE
GRAHAM AVE
IRVIN AVE
HOUSTON AVE
FRIDNA AVE
ALPINE AVE
BEALY AVE
O'BRIEN ST
RANCH RD 1218
20
57

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #5

Pollutant Analysis

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

Project
1099954

ODES-W

City of Odessa
Jason Wells
817 West 42nd St.
Odessa, TX 79764

Printed 04/23/2024
16:00

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SAMPLE CROSS REFERENCE

Project
1099954

Printed 4/23/2024 Page 1 of 1

City of Odessa
Jason Wells
817 West 42nd St.
Odessa, TX 79764

Sample	Sample ID	Taken	Time	Received
2291531	*WW Pond #4*	04/15/2024	09:00:00	04/18/2024

Bottle 01 8 oz Plastic H2SO4 pH < 2
Bottle 02 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1115128) Volume: 20.00000 mL <== Derived from 01 (20 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 351.2 2	02	1115128	04/19/2024	1115723	04/23/2024

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

ODES-W

Project
1099954

City of Odessa
Jason Wells
817 West 42nd St.
Odessa, TX 79764

Printed: 04/23/2024

RESULTS

Sample Results

2291531 **WW Pond #4** Received: 04/18/2024

Non-Potable Water Collected by: Client City of Odessa PO: 22201773 - 01
Taken: 04/15/2024 09:00:00

EPA 351.2 2 Prepared: 1115128 04/19/2024 07:11:47 Analyzed 1115723 04/23/2024 11:09:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	**Total Kjeldahl Nitrogen**	**17.7**	**mg/L**	0.250		**7727-37-9**	02

Sample Preparation

2291531 **WW Pond #4** Received: 04/18/2024

22201773 - 01

04/15/2024

Prepared: 04/22/2024 10:11:31 Calculated 04/22/2024 10:11:31 CAL

z	**Environmental Fee (per Project)**	**Verified**	

EPA 351.2, Rev 2.0 Prepared: 1115128 04/19/2024 07:11:47 Analyzed 1115128 04/19/2024 07:11:47 MEG

NELAC	**TKN Block Digestion**	**20/20**	**ml**	01

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SPL
The Science of Sure

2

Project
1099954

ODES-W

City of Odessa
Jason Wells
817 West 42nd St.
Odessa, TX 79764

Printed: 04/23/2024

Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

SPL The Science of Sure

ODES-W

City of Odessa
Jason Wells
817 West 42nd St.
Odessa, TX 79764

Project 1099954

Printed 04/23/2024

Analytical Set 1115723

EPA 351.2 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1115128	ND	0.00712	0.050	mg/L	126250429

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	126250421
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	126250428
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	126250436
Total Kjeldahl Nitrogen	5.34	5.00	mg/L	107	90.0 - 110	126250445
Total Kjeldahl Nitrogen	5.36	5.00	mg/L	107	90.0 - 110	126250454
Total Kjeldahl Nitrogen	5.33	5.00	mg/L	107	90.0 - 110	126250456

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2289057	ND	ND	mg/L		20.0
Total Kjeldahl Nitrogen	2291447	ND	ND	mg/L		20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.03	5.00	mg/L	101	90.0 - 110	126250420

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1115128	5.46	5.46	5.00	90.0 - 110	109	109	mg/L	0	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File	
Total Kjeldahl Nitrogen	2289057	-0.299	ND	5.00	mg/L	0	80.0 - 120	126250427	*
Total Kjeldahl Nitrogen	2291447	-0.119	ND	5.00	mg/L	0	80.0 - 120	126250434	*

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); ICV - Initial Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.)

1099954 CoC Print Group 001 of 001

SPL

ANA-LAB CORP. THE COMPLETE SERVICE LAB

Shipping: 2600 Dudley Rd Kilgore, TX 75662 903.984.0551 www.ana-lab.com

Mailing: P O Box 9000 Kilgore, TX 75663 Fax: 903.984.5914 e-mail: corp@ana-lab.com

Chain of Custody

Panhandle 806.355.3556 | Oklahoma 405.590.2533 | North Texas 972.037.9412 | Central Texas 512.821.0045
Rio Grand Valley 956.831.6437 | Louisiana 318.219.9300 | Gulf Coast 281.333.9414

Report To: Jason Wells		Project Name/Location: City of Wickett Permit Renewal 2024					Analysis Requested
Company Name: City of Odessa		Billing Address (if different)					
Address: 817 W. 42nd St.							
City: Odessa	State: TX Zip: 79764	City	State		Zip		
Phone: 432-368-3536	e-mail: jwells@odessa-tx.gov	Phone		Fax			
Sampler Signature: Kevin Luckie	Printed Name: Kevin Luckie	Affiliation: City of Wickett			PO Number: 22400078		TKN

Lab Number Do Not Use	Field Identification	Date	Time	Matrix	# of Containers	Notes	TKN
229157	WW Pond #4	4-15-24	9:00	WW	1	250 mL, H_2SO_4	✓

Samples Contain? ☑ Wastewater ☐ Drinking Water ☐ SW846 ☐ HF ☐ CN ☐ S= ☐ other##

Date	Time	Relinquished by: Printed Name	Signature	Affiliation	Received by: Printed Name	Signature	Affiliation
4-15-24	09:58	Kevin Luckie	Kevin Luckie	City of Wickett	[illegible]	[illegible]	City of Odessa Lab
4-16-24	17:00	[illegible]	[illegible]	City of Odessa Lab	Jason Wells	Jason Wells	Odessa Lab
4/17/24	14:00	Jason Wells	Jason Wells	Odessa Lab	FEDEX		
4/18/24	1000	FEDEX			[illegible]	[illegible]	SPL

##comments

Samples Received on Ice? ☑ Yes ☐ No — Cooler/Sample Secure? ☑ Yes ☐ No

Method of Shipment ☐ Bus ☑ FedEx ☐ Lone Star ☐ UPS ☐ Hand Delivered ☐ Airborne ☐ Other

Tracking or Shipping Number ______ Requested TAT ☑ Routine ☐ 3 day ☐ 2 Day ☐ Next Day

Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

1099954 CoC Print Group 001 of 001

CITY OF ODESSA LABORATORY SERVICES
TEST RESULTS

Laboratory Address: 817 W. 42nd Street
Mailing Address: 817 W. 42nd Street
Odessa, TX 79764
Contact: Jason Wells
Phone: 432-368-3536
Email: jwells@odessa-tx.gov

Customer: City of Wickett
Address: P.O.Box 185
Wickett, TX 79788
Sample Location: WW Pond #4
Date of Collection: 4/15/2024
Time of Collection: 9:00 AM
Collected by: KL
Sample receipt date: 4/15/2024
Report Number: **042224REP09**

Laboratory ID Code	Parameter	Method Number	Date of Analysis	Time of Analysis	Analyst(s)	Results	Units	MQL/RL	Batch	Flag
041524351	$CBOD_5$	SM 5210 B	4/15/2024	12:57 PM	MH/MM:MM	10.8	mg/L	1.00	1	
041524351	TSS	SM 2540 D	4/15/2024	10:47 AM	GL	28.7	mg/L	0.500	1	
041524352	Ammonia	SM 4500-NH_3 D	4/17/2024	10:37 AM	CP	9.16	mg/L	0.200	1	
041524351	Nitrate	EPA 300.0	4/16/2024	5:19 PM	CP	< 0.200	mg/L	0.200	1	
041524351	Chloride	EPA 300.0	4/16/2024	5:19 PM	CP	561	mg/L	20.0	1	
041524352	t-Phosphorus	SM 4500-P E	4/18/2024	8:31 AM	CP	2.87	mg/L	0.100	1	
041524353	E. coli	Colilert SM 9223 B	4/15/2024	11:27 AM	LG:LG	28.8	MPN/100 mL	1	1	
041524351	TDS	SM 2540 C	4/15/2024	10:15 AM	GT	1647	mg/L	95.0	1	
041524351	Sulfate	EPA 300.0	4/16/2024	5:19 PM	CP	170	mg/L	2.00	1	

Notes:

1. The data for precision and accuracy are generated on a sample analyzed in the same batch as the customer's sample. These values may or may not have been based on the customer's sample.
2. A blank space indicates that it is either not applicable or not performed.
3. These results relate only to the samples listed.
4. This report cannot be reproduced except in full without written approval of the laboratory.
5. The results contained in this report meet all the requirements of the TNI standards for accreditation.
6. MQL = Minimum Quantitation Level, LCS = Laboratory Control Sample, MD = Matrix Duplicate, MS = Matrix Spike MSD = Matrix Spike Duplicate.
7. Samples will be disposed of at the end of the method holding time or 30 days from the date the report is mailed to the customer, whichever is shorter.
8. The Alkalinity reported as mg/L $CaCO_3$ to a pH of 4.5 equals the Alkalinity result(s) listed above.
9. Analysis performed by City of Odessa's Contract Lab.
10. Explanation of Flags used in this report:

Jason Wells
Laboratory Management

4/22/24
Date

Melissa Pipes
Quality Assurance Officer

4/26/24
Date

QUALITY CONTROL RESULTS

for Report No.
042224REP09

$CBOD_5$, mg/L

Batch: 1

Blank Limit: ≤ 0.20 mg/L		MD Precision Limit: ≤ %				LCS Accuracy Limit: 84.6 - 115.4%			
Blank	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
≤ 0.20 mg/L		3.64	3.57	2.13		213.6	198	107.9	

TSS, mg/L

Batch: 1

Blank Limit: < 0.500 mg/L		MD Precision Limit: < 50 mg/L ≤ % Limit: 50 - 500 mg/L ≤ % Limit: > 500 mg/L ≤ %			
Blank	Flag	Sample Reading	MD Reading	RPD	Flag
< 0.500		210	202	3.88	

LCS Accuracy Limit: %			
LCS Conc	Known Conc	% Recovery	Flag
9.90	10.0	99.0	

QUALITY CONTROL RESULTS

for Report No.
042224REP09

Ammonia, mg/L

Batch: 1

Blank MQL = 0.200			MD Precision Limit: ≤ 10.0%				LCS Accuracy Limit: 85-110%			
Reading	MDL	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
ND	0.060		12.2	12.3	0.82		25.0	25.0	100.0	

MSD Precision Limit: ≤ 10.0%				MS Accuracy Limit: 85-110%						
MS Reading	MSD Reading	RPD	Flag	MS Reading	MSD Reading	Sample Reading	MS Conc	MS % Recovery	MSD % Recovery	Flag
22.4	22.3	0.45		22.4	22.3	12.2	10.0	102.0	100.0	

Initial Verification Standard Accuracy Limit: 90 - 110%				Final Verification Standard Accuracy Limit: 90 - 110%			
Ver. Std Reading	Ver. Std Conc	% Recovery	Flag	Ver. Std Reading	Ver. Std Conc	% Recovery	Flag
9.92	10.0	99.2		10.1	10.0	101.0	

Nitrate, mg/L

Batch: 1

Blank MQL = 0.200			MD Precision Limit: ≤ 10.0%				LCS Accuracy Limit: 90 - 110%			
Reading	MDL	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
ND	0.005		< 0.200	< 0.200	NC		6.932	7.000	99.0	

MSD Precision Limit: ≤ 10.0%				MS Accuracy Limit: 90-110%						
MS Reading	MSD Reading	RPD	Flag	MS Reading	MSD Reading	Sample Reading	MS Conc	MS % Recovery	MSD % Recovery	Flag
4.899	4.891	0.16		4.899	4.891	0.160	5.00	94.8	94.6	

Initial Verification Standard Accuracy Limit: 90 - 110%				Final Verification Standard Accuracy Limit: 90 - 110%			
Ver. Std Reading	Ver. Std Conc	% Recovery	Flag	Ver. Std Reading	Ver. Std Conc	% Recovery	Flag
4.926	5.000	98.5		5.250	5.000	105.0	

QUALITY CONTROL RESULTS

for Report No.

042224REP09

Chloride, mg/L

Batch: 1

Blank MQL = 20.0			MD Precision Limit: ≤ 10.0%				LCS Accuracy Limit: 90 - 110%			
Reading	MDL	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
ND	0.181		548.95	550.42	0.27		84.860	85.0	99.8	

MSD Precision Limit: ≤ 10.0%				MS Accuracy Limit: 80-110%						
MS Reading	MSD Reading	RPD	Flag	MS Reading	MSD Reading	Sample Reading	MS Conc	MS % Recovery	MSD % Recovery	Flag
658.50	661.43	0.44		658.5	661.43	548.95	130.0	NC	NC	*

Initial Verification Standard Accuracy Limit: 90 - 110%				Final Verification Standard Accuracy Limit: 90 - 110%			
Ver. Std Reading	Ver. Std Conc	% Recovery	Flag	Ver. Std Reading	Ver. Std Conc	% Recovery	Flag
49.966	50.0	99.9		53.161	50.0	106.3	

* - Spike concentration is less than 25% of the matrix sample concentration, so spike recovery is not calculated.

Total Phosphate, mg/L

Batch: 1

Blank MQL = 0.100			MD Precision Limit: ≤ %				LCS Accuracy Limit: %			
Reading	MDL	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
ND	0.043		6.27	6.02	4.07		0.408	0.400	102.0	

MSD Precision Limit: ≤ %				MS Accuracy Limit: %						
MS Reading	MSD Reading	RPD	Flag	MS Reading	MSD Reading	Sample Reading	MS Conc	MS % Recovery	MSD % Recovery	Flag
0.458	0.452	1.32		0.458	0.452	0.376	0.100	82.0	76.0	**

Initial Verification Standard Accuracy Limit: 90 - 110%				Final Verification Standard Accuracy Limit: 90 - 110%			
Ver. Std Reading	Ver. Std Conc	% Recovery	Flag	Ver. Std Reading	Ver. Std Conc	% Recovery	Flag
0.247	0.250	98.8		0.247	0.250	98.8	

** - Only applies to the sample spiked. Your sample was not spiked.

QUALITY CONTROL RESULTS

for Report No.
042224REP09

E. coli, MPN/100 mL

Batch: 1

MD Precision			
Low Range (both counts <10) Range of Logs ≤ 0.1892		High Range (at least one count ≥10) Range of Logs ≤ 0.3688	
Sample Reading	MD Reading	Range of Logs	Flag
4.1	2.0	0.3118	*

* - Applies to the sample duplicated. Your sample was not duplicated.

Total Dissolved Solids, mg/L

Batch: 1

Blank Limit: ± 0.0004 g		MD Precision Limit: ≤ %				LCS Accuracy Limit: %			
Blank	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
± 0.0004 g		940	960	2.11		1533	1534	100.0	

Sulfate, mg/L

Batch: 1

Blank MQL = 2.00			MD Precision Limit: ≤ 10.0%				LCS Accuracy Limit: 90 - 110%			
Reading	MDL	Flag	Sample Reading	MD Reading	RPD	Flag	LCS Reading	LCS Conc	% Recovery	Flag
ND	0.078		197.95	198.37	0.21		44.752	45.0	99.4	

MSD Precision Limit: ≤ 10.0%				MS Accuracy Limit: 80-110%						
MS Reading	MSD Reading	RPD	Flag	MS Reading	MSD Reading	Sample Reading	MS Conc	MS % Recovery	MSD % Recovery	Flag
270.23	271.66	0.53		270.23	271.66	197.95	80.0	90.4	92.1	

Initial Verification Standard Accuracy Limit: 90 - 110%				Final Verification Standard Accuracy Limit: 90 - 110%			
Ver. Std Reading	Ver. Std Conc	% Recovery	Flag	Ver. Std Reading	Ver. Std Conc	% Recovery	Flag
29.868	30.0	99.6		32.009	30.0	106.7	

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #6

General Highway Map

Prepared By:

JACOB MARTIN

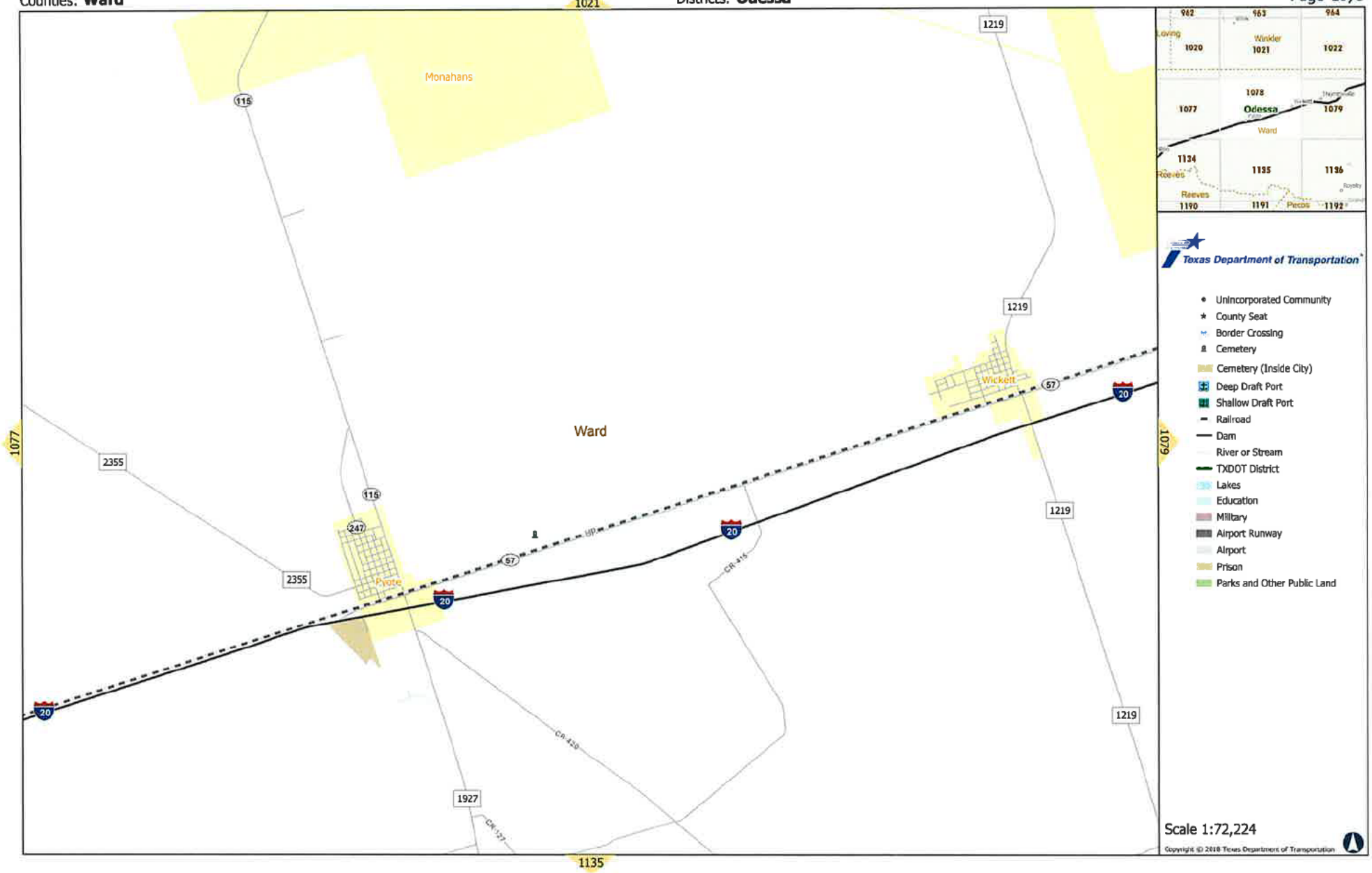
Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086


Monahans
Ward
Wickett
Pyote
1021
1219
1077
1079
1135
1927
2355
115
247
57
20
CR 315
CR 429
CR 127
962
963
964
Loving
Winkler
1020
1021
1022
1078
Odessa
1077
1079
Ward
1134
1135
1136
Reeves
1190
1191
Pecos
1192
Texas Department of Transportation
Unincorporated Community
County Seat
Border Crossing
Cemetery
Cemetery (Inside City)
Deep Draft Port
Shallow Draft Port
Railroad
Dam
River or Stream
TXDOT District
Lakes
Education
Military
Airport Runway
Airport
Prison
Parks and Other Public Land
Scale 1:72,224
Copyright © 2018 Texas Department of Transportation

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #7

USDA NRCS Soil Map

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086

Annual Cropping Plan

1. Soils Map

A soils map depicting the locations of the crops that will be grown is included with this attachment.

2. Crops

The following list identifies the crops to be grown, the corresponding acreage and the growing seasons:

Crop	Acreage	Growing Season
Oats	12.69	September to June
Rye	12.69	November June
Hay	12.69	March to November

3. Nutrient Requirements

Nutrient recommendations were taken from the USDA-NRCS Conservation Practice Standard Code 590 "Nutrient Management". Assuming grazing for cattle, Bermuda grass requires 60 lb/acre of nitrogen, 50 lb/acre of phosphate, and 90 lb/acre of potassium. Assuming grazing for cattle and a yield goal of 45-60 bu/acre, wheat requires 100 lb/acre of nitrogen, 40 lb/acre of phosphate and 40 lb/acre of potassium.

4. Supplemental Water Requirements

No supplemental watering will be required for this facility since the facility operates year round.

5. Salt Tolerances

The electrical conductivity of the salt tolerance for wheat ranges from 6.0 to 8.0 millimhos/cm at 25°C.
The electrical conductivity of the salt tolerance for Rye ranges from 4.0 to 8.0 millimhos/cm at 25°C.

6. Harvesting Method

The oats will be cut and harvested using a combine.
The rye and hay will be cut and baled.

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Ward County, Texas

April 25, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- 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
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Ward County, Texas
Survey Area Data: Version 22, Sep 5, 2023

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

Date(s) aerial images were photographed: Feb 10, 2022—Feb 13, 2022

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
PY	Pyote soils, undulating	6.1	70.0%
WT	Wickett and Sharvana fine sandy loams, gently sloping	2.6	30.0%
Totals for Area of Interest		**8.8**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Ward County, Texas

PY—Pyote soils, undulating

Map Unit Setting

National map unit symbol: 1zdx
Elevation: 2,000 to 3,250 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 57 to 66 degrees F
Frost-free period: 210 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy alluvium and/or sandy eolian deposits

Typical profile

H1 - 0 to 34 inches: loamy fine sand
H2 - 34 to 62 inches: fine sandy loam
H3 - 62 to 76 inches: fine sandy loam

Properties and qualities

Slope: 1 to 4 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R070BD251TX - Mescalero Sandplain Loamy Sand, Desert Grassland
Hydric soil rating: No

WT—Wickett and Sharvana fine sandy loams, gently sloping

Map Unit Setting

National map unit symbol: 1zf5
Elevation: 2,250 to 3,500 feet
Mean annual precipitation: 10 to 17 inches
Mean annual air temperature: 63 to 68 degrees F
Frost-free period: 210 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Wickett and similar soils: 75 percent
Sharvana and similar soils: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wickett

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy eolian deposits and/or sandy eolian deposits

Typical profile

H1 - 0 to 14 inches: fine sandy loam
H2 - 14 to 30 inches: fine sandy loam
H3 - 30 to 38 inches: cemented material
H4 - 38 to 60 inches: gravelly loam

Properties and qualities

Slope: 1 to 2 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 85 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R070BD256TX - Mescalero Sandplain Sandy Loam, Desert Grassland

Hydric soil rating: No

Description of Sharvana

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age

Typical profile

H1 - 0 to 4 inches: fine sandy loam
H2 - 4 to 10 inches: fine sandy loam
H3 - 10 to 26 inches: cemented material
H4 - 26 to 40 inches: variable

Properties and qualities

Slope: 1 to 2 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: R070BD257TX - Mescalero Sandplain Shallow Sandy Loam, Desert Grassland
Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #8

FEMA Flood Plain

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086

PIN
- Approximate location based on user input and does not represent an authoritative property location

MAP PANELS
- Selected FloodMap Boundary
- Digital Data Available
- No Digital Data Available
- Unmapped

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D
- Otherwise Protected Area
- Coastal Barrier Resource System Area

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth
- Regulatory Floodway Zone AE, AO, AH, VE, AR

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard. Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #9

Lease Agreement

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880
info@jacobmartin.com
www.jacobmartin.com
3465 Curry Lane
Abilene, TX 76906
1508 Santa Fe, Suite 203
Weatherford, TX 76086

Single Period/Prepaid

Revised 05/2016

THE UNIVERSITY OF TEXAS SYSTEM

COMMERCIAL LEASE NO. 9136

This COMMERCIAL LEASE NO. **9136** (this "Lease") is made and entered into effective as of **02/01/2020** (the "Effective Date") by and between **THE UNIVERSITY OF TEXAS SYSTEM BOARD OF REGENTS** ("Owner") and **CITY OF WICKETT.**

1. **Basic Lease Information**

Premises:	**22.25** acres of land, more or less, lying in Section **01** Block **16**, University Lands, **Ward** County, Texas, as more fully described on **Exhibit "A"** attached to the Lease and incorporated therein for location.
Lease Term:	The period commencing on the Effective Date and continuing for ten (10) years through **01/31/2030**. The term "Lease Term," as used herein, shall include all renewals or extensions hereof unless the context clearly indicates to the contrary.
Rental:	**$2,000.00** per year. Annual rental is due on **February 1st** of each year during the Lease Term.
Permitted Use:	Lessee shall continuously use and occupy the Premises for the purpose of a(n) **MUNICIPAL WATER TREATMENT PLANT** and for purposes incidental thereto, and for no other purpose. Lessee shall be entitled to, ingress and egress and to use any improvements, if any, now located on the Premises solely for the purposes herein intended. **If regulated fluids are present, including but not limited to hydrocarbons and produced water, they shall be stored or contained above-grade, not in below-grade sumps or tanks.**
Owner's Address:	***For Correspondence and Notices:***
	University Lands P.O. Box 553 Midland, Texas 79702 Attention: James R. Buice Telephone: (432) 684-4404 Fax: (432) 682-7456
	For the payment of Rental and other sums due to Owner:
	The University of Texas System P.O. Box 553 Midland, Texas 79702 Attention: Associate Director Accounting
Owner's Contact Person:	Mr. James R. Buice Telephone: (432) 684-4404 Fax: (432) 682-7456

or such other person as Owner may designate in writing.

Lessee's Address:	City of Wickett P. O. Box 185 Wickett, TX 79788 Telephone: (432) 943-6765
Lessee's Contact Person:	Lorinda Gibson Telephone: (432) 943-6765

or such other person as Lessee may designate in writing.

2. **Granting Clause**. Owner, for and in consideration of the rent and other charges to be paid hereunder and the other covenants and agreements to be performed by Lessee, hereby demises and leases the Premises to Lessee, and Lessee hereby leases the Premises from Owner on the terms and conditions set forth herein, commencing on the Effective Date and ending on the last day of the Lease Term unless sooner terminated as herein provided.

3. **Rental**. Lessee shall pay to Owner in advance, at Owner's Address or at such other address as Owner may designate by notice in writing to Lessee, Rental in the amount specified in the Basic Lease Information, without deduction or setoff, for the Lease Term. The Rental for the Lease Term is due and payable by Lessee to Owner on or before the Effective Date. Lessee shall have no rights under this Lease until payment of Rental is made in full to Owner.

4. **Late Payments**. If Lessee should fail to pay Owner any sum to be paid by Lessee to Owner hereunder within five (5) days after such payment is due, interest on the unpaid amount shall accrue at a rate of fifteen percent (15%) per annum or the maximum rate allowed by law, whichever is lesser, from the date payment was due until the date payment is made. Owner may also impose a late charge of Twenty-Five Dollars ($25.00) or five percent (5%) of the unpaid amount, whichever is greater, to defray Owner's administrative costs incurred as a result of Lessee's failure to timely make such payment, the amount of such costs not being readily ascertainable. Any such late charge shall be in addition to all other rights and remedies available to Owner hereunder or at law or in equity and shall not be construed as liquidated damages or limiting Owner's remedies in any manner. Failure to pay such interest or late charge within ten (10) days after demand shall be an event of default hereunder. Following the dishonor of any check presented for payment, Owner shall have the right, at Owner's option, to require all further payments to be made by certified check or money order.

5. **Renewal and Extension**. Should Lessee wish to renew this Lease or enter into a lease agreement with regard to the Premises following the expiration of the Lease Term, Lessee should advise Owner in writing of Lessee's desire not later than one hundred eighty (180) days prior to the expiration of this Lease. Owner and Lessee may then enter into negotiations with regard to the terms and conditions on which Lessee may lease the Premises for an additional term; provided, however, that Owner shall not be obligated to renew or extend the term of this Lease on any terms and conditions.

6. **Use of the Premises**.

a. Permitted Use Only. Lessee may use the Premises only for the Permitted Use specified in the Basic Lease Information (the "Project"), and for no other purpose or purposes without the prior written consent of Owner. Lessee shall operate its business in a reputable manner.

b. No Unlawful or Disreputable Use. Lessee shall observe, perform, and comply with all laws, statutes, ordinances, rules, and regulations promulgated by any governmental agency and applicable to Lessee's use of the Premises. Owner shall not occupy or use the Premises or permit any portion of the Premises to be occupied or used for any use or purpose which is unlawful, in part or in whole, or deemed by Owner to be disreputable in any manner or extra hazardous on account of fire.

7. **Repair, Maintenance, and Improvements**.

a. **DISCLAIMER OF WARRANTIES**. Lessee is fully familiar with the Premises, its condition, state of repair and everything connected therewith from Lessee's own investigation of same. Lessee acknowledges that OWNER HAS MADE NO EXPRESS WARRANTIES WITH REGARD TO THE PREMISES and TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, OWNER HEREBY DISCLAIMS, AND LESSEE WAIVES THE BENEFIT OF, ANY AND ALL IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTIES OF HABITABILITY, OR FITNESS OR SUITABILITY FOR LESSEE'S PURPOSE.

b. Maintenance of the Premises. Owner shall not be required to make any repairs to or improvements on the Premises during the Lease Term. Lessee shall, at Lessee's sole cost and expense, make all repairs and replacements necessary to keep and maintain the Premises, including improvements thereon, if any, in good condition. If any repairs required to be made by Lessee hereunder are not made within thirty (30) days after written notice delivered to Lessee by Owner, Owner may, at its option, make such repairs without liability to Lessee for any loss or damage which may result by reason of such repairs, and Lessee shall pay to Owner within seven (7) days after demand as additional rent hereunder the cost of such repairs plus ten percent (10%) of the amount thereof. At the expiration or other termination of this Lease, Lessee shall surrender the Premises in a condition at least as good as its condition and state of repair as of the Lessee's first possession of the premises, normal wear and tear and natural deterioration excepted. Lessee shall fill all excavations, level and restore the terrain to as nearly its original condition on the Effective Date of this Lease as is reasonably possible, and remove all debris, equipment, and personal property.

c. Installation of Improvements. Lessee shall not cause any improvements to be installed on the Premises, except for the installation of unattached, movable trade fixtures, without the prior written consent of Owner, which consent shall not be unreasonably withheld. At Owner's request, Lessee shall provide drawings and other information reasonably requested by Owner regarding any proposed improvements. All construction work done by Lessee on the Premises shall be performed in a good and workmanlike manner, and in compliance with all governmental requirements. Lessee agrees to indemnify Owner and hold Owner harmless against any loss, liability or damage resulting from any such construction work. All improvements installed by Lessee shall be and remain the property of Lessee until the termination or expiration of this Lease, as extended, renewed, or replaced, so long as Lessee remains in possession as a lessee of the Premises. At the end of the Lease, Lessee shall remove improvements, whether installed by Lessee or existing on the Premises at the inception of this Lease, if so directed by Owner. If Owner does not direct Lessee to remove installed improvements, such improvements shall become the property of Owner and such improvements shall remain on the Premises and shall be surrendered as part thereof upon the expiration or termination of this Lease without credit or compensation to Lessee.

d. Personal Property. Following termination of this Lease, Owner shall have the right to (i) remove from the Premises (without the necessity of obtaining a distress warrant, writ of sequestration or other legal process) all or any portion of Lessee's furniture, fixtures, equipment, and other personal property left on the Premises and place same in storage at any premises within the county in which the Premises is located; (ii) after sixty (60) days' notice to Lessee, sell in any manner deemed reasonable by Owner all or any portion of Lessee's furniture, fixtures, equipment, and other personal property left on the Premises and apply the proceeds first to amounts due and owing to Owner under this Lease and returning the remainder, if any, to Lessee; or (iii) after ten (10) days' notice to Lessee, dispose of all or any portion of Lessee's furniture, fixtures, equipment, and other personal property left on the Premises. In any such event Lessee shall be liable to Owner for costs incurred by Owner in connection with such action and shall indemnify and hold Owner harmless from all loss, damage, cost, expense and liability in connection with such action. Owner shall also have the right to relinquish possession of all or any portion of such furniture, fixtures, equipment, and other property to any person ("Claimant") claiming to be entitled to possession thereof who presents to Owner a copy of any instrument represented to Owner by Claimant to have been executed by Lessee (or any predecessor of Lessee) granting Claimant the right under various circumstances to take possession of such furniture, fixtures, equipment, or other property, without the necessity on the part of Owner to inquire into the authenticity of said instrument's copy of Lessee's or Lessee's predecessor's signature thereon and without the necessity of Owner making any nature of investigation or inquiry as to the validity of the factual or legal basis upon which Claimant purports to act; and Lessee agrees to indemnify and hold Owner harmless from all cost, expense, loss, damage and liability incidental to Owner's relinquishment of possession of all or any portion of such furniture, fixtures, equipment, or other property to Claimant. The rights of Owner herein stated shall be in addition to any and all other rights which Owner has or may hereafter have at law or in equity. Lessee stipulates and agrees that the rights herein granted Owner are commercially reasonable.

e. Fences. At the request of Owner, Lessee shall fence the Premises with a fence constructed in accordance with specifications to be determined by Owner. Such fence shall be completed within thirty (30) days after Owner's request and Lessee shall maintain the fence in good condition throughout the Lease Term.

f. Keeping the Premises Clean. Lessee shall take good care of the Premises and keep the same free from debris and waste at all times. Lessee shall keep the Premises neat and clean at all times, and shall remove all refuse, litter and debris from the Premises. Lessee shall not remove or damage any existing improvements on the Premises without the consent of Owner; commit or permit any waste; or allow any nuisance to exist on the Premises.

g. Locks. Lessee may, at Lessee's expense, replace any lock on any gate or building, if any, on the Premises; provided, however, that in such event Lessee shall immediately provide to Owner's Contact Person, a key to any lock installed by Lessee on or about the Premises.

h. Utilities. Lessee shall pay promptly before same is due, all electrical and other utility charges, if any, relating to the Premises, and any improvements thereon. Lessee shall cause all accounts for utilities, if any, to be placed in Lessee's name. Owner makes no representation with regard to utility services available to the Premises and shall not be liable for any interruption or failure in utility services arising from any cause whatsoever.

i. Vegetation. Lessee shall not remove or destroy any vegetation on the Premises, including trees of any variety, without the written consent of Owner or Owner's Contact Person, except as otherwise expressly permitted herein. Lessee shall comply with all ordinances of applicable governmental entities in connection with the removal of all such vegetation.

j. Fires. Lessee shall restrict any fires built on the Premises to areas that will not pose fire hazards and to take every reasonable precaution to ensure that Lessee will not cause grass fires or other mishaps.

k. Water Wells. Lessee shall not remove any casing or otherwise interfere with any water well or wells that may exist on the Premises without the prior written consent of Owner and any regulatory agency with jurisdiction. The water from any well or wells located on the Premises may only be used on the Premises and may not be used in any manner or for any purpose off the Premises without the prior written consent of the Owner.

8. Compliance with Environmental Laws. By its exercise of its rights hereunder, Lessee will not (i) cause or permit the Premises, any other property of Owner, or Owner to be in violation of Applicable Environmental Laws (as hereinafter defined); or (ii) do anything or permit anything to be done by Lessee, its contractors, subcontractors, agents or employees that will result in any contamination of soils, ground water, surface water, or natural resources on or adjacent to the Premises resulting from any cause, including but not limited to spills or leaks or oil, gasoline, hazardous materials, hazardous wastes, or other chemical compounds, or will subject the Premises, any other property of Owner, or Owner to any remedial obligations under applicable laws pertaining to health or the environment (such laws as they now exist or are hereafter enacted and/or amended are hereinafter sometimes collectively called "Applicable Environmental Laws"), including, without limitation, the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended by the Superfund Amendments and Reauthorization Act of 1986 (as amended, hereinafter called "CERCLA"), the Resource Conservation and Recovery Act of 1976, as amended by the Used Oil Recycling Act of 1980, the Solid Waste Disposal Act Amendments of 1980, and the Hazardous and Solid Waste Amendments of 1984 (as amended, hereinafter called "RCRA"), the Texas Water Code and the Texas Solid Waste Disposal Act, as each of said laws may be amended from time to time, assuming disclosure to the applicable governmental authorities of all relevant facts, conditions and circumstances, if any, pertaining to Lessee's exercise of its rights hereunder. Lessee agrees to obtain any permits, licenses or similar authorizations for the Project by reason of any Applicable Environmental Laws that concern or result from the use of the Premises. Lessee will promptly notify Owner in writing of any existing, pending or, to the best knowledge of Lessee, threatened, investigation or inquiry by any governmental authority in connection with any Applicable Environmental Laws concerning the Project and/or Lessee's use of the Premises. In connection with the Project, Lessee will not cause or permit the disposal or other release of any hazardous substance or solid waste on or to the Premises or any other property of Owner. In connection with the Project, Lessee covenants and agrees to keep or cause the Premises and any other property of Owner to be kept free of such hazardous substance or solid waste and to remove the same (or if removal is prohibited by law, to take whatever action is required by law) promptly upon discovery, at Lessee's sole cost and expense. If Lessee fails to comply with or perform any of the foregoing covenants and obligations, Owner may (without any obligation, express or implied) remove any hazardous substance or solid waste from the Premises or any other property of Owner (or if removal is prohibited by law, take whatever action is required by law) and the cost of the removal or such other action shall be reimbursed by Lessee to Owner. Lessee grants to Owner and its agents, employees, contractors and consultants access to the Premises and the license (which is coupled with an interest and irrevocable) to remove such hazardous substance or solid waste (or if removal is prohibited by law, to take whatever action is required by law) and agrees to reimburse Owner for and to hold Owner harmless from all costs and expenses involved therewith. The terms "hazardous substance" and "release" as used in this Leased have the meanings specified in CERCLA, and the terms "solid waste" and "disposal" (or "disposed") shall have the meanings specified in RCRA; provided, that if either CERCLA or RCRA is amended so as to broaden the meaning of any term defined thereby, such broader meaning shall apply hereunder subsequent to the effective date of such amendment and provided further, to the extent that any other federal or state law establishes

a meaning for "hazardous substance," "release," "solid waste," or "disposal" that is broader than that specified in either CERCLA or RCRA, such broader meaning shall apply.

9. Environmental Indemnity. **Lessee agrees to release Owner from, and to reimburse Owner with respect to, any and all claims, demands, losses, damages (including consequential damages claimed by a person or entity other than Owner), liabilities, causes of action, judgment, penalties, costs and expenses (including attorneys' fees and court costs) of any and every kind or character, known or unknown, fixed or contingent, imposed on, asserted against or incurred by Owner at any time and from time to time by reason of, in connection with or arising out of (a) the failure of Lessee to perform any obligation herein required to be performed by Lessee regarding Applicable Environmental Laws, (b) any violation of Applicable Environmental Laws by Lessee, its contractors, subcontractors, agents or employees occurring after Lessee's acquisition of the Lease, (c) the removal of hazardous substances or solid wastes that result from the use by Lessee, its contractors, subcontractors, agents or employees, from the Premises or any other property of Owner (or if removal is prohibited by law, the taking of whatever action is required by law), and (d) any act, omission or event occurring after Lessee's original occupancy/acquisition of this Lease (including, without limitation, the presence on the Premises or release from the Premises of hazardous substances or solid wastes disposed of or otherwise released after Lessee's original occupancy/acquisition of the Premises, resulting from or in connection with the Project), or otherwise, regardless of whether the act, omission, event or circumstance constituted a violation of any Applicable Environmental Law at the time of its existence or occurrence.** Any amount to be paid under this paragraph by Lessee to Owner shall be paid within thirty (30) days of Lessee's receipt of demand therefor from Owner. Nothing in this paragraph or elsewhere in this Lease shall limit or impair any rights or remedies of Owner against Lessee or any third party under Applicable Environmental Laws, including without limitation, any rights of contribution available thereunder.

10. **Access**. Owner and authorized representatives of Owner shall have the right to enter upon the Premises at any reasonable time to inspect same or make repairs or improvements as Owner may deem necessary, but without any obligation to do so. Owner shall have the right to enter upon the Premises at any time in the case of emergency or in the event immediate action should be taken to avert an emergency or damage to the Premises.

11. **Assignment and Subletting**. Lessee shall not sublet the Premises or any part thereof, or assign this Lease or any interest therein without the prior written consent of Owner and the payment of the required fee. Any such sublease or assignment attempted without Owner's written consent shall be void and of no force and effect, at the option of Owner.

12. **Holding Over**. In the event Lessee occupies the Premises or any part thereof after the expiration or earlier termination of this Lease, unless otherwise agreed in writing by Owner, Lessee shall hold the Premises as a tenant-at-will only at a daily rental equal to two (2) multiplied by the Rental calculated on a per diem basis. In no event shall such holding over constitute or be construed as a renewal or extension of this Lease and, upon the expiration of the Lease Term or the earlier termination of this Lease, Lessee shall immediately surrender the Premises to Owner on demand by Owner.

13. **Indemnity and Insurance**.

a. Tenant's Insurance. Lessee, at its sole expense, shall maintain in effect at all times insurance coverages with limits not less than those set forth below with financially responsible insurers licensed to do business in the State of Texas and acceptable to Owner and under forms of policies satisfactory to Owner. The requirements contained herein as to types, limits or Owner's approval of insurance coverage to be maintained by Lessee are not intended to and shall not in any manner limit, qualify or quantify the liabilities and obligations assumed by Lessee under this Lease or otherwise provided by law. The amounts of insurance required to be maintained by Lessee may be reasonably increased from time to time by Owner at its sole discretion:

Commercial General Liability

Coverage	Minimum Amounts and Limits
Bodily Injury/ Property Damage (Occurrence Basis)	$1,000,000.00 each occurrence, or equivalent, subject to a $1,000,000.00 aggregate

This policy shall be on a form acceptable to Owner, endorsed to include the Owner as additional insureds, not modify the separation of insured language in the policy, contain waiver of subrogation language in favor of the Owner, delete the exclusions for liability assumed under the Lease, and contain no modification that would make Lessee's policy excess over or contributory with Owner's liability insurance, and include the following coverages:

(1) Premises/Operations;
(2) Independent Contractors;
(3) Broad Form Contractual Liability specifically in support of, but not limited to, Lessee's indemnity obligations under this Lease;
(4) Broad Form Property Damage; and
(5) Personal Injury Liability with employee and contractual exclusions removed.

All of Lessee's insurance policies shall be endorsed to be primary, with the policies of all of the Owner being excess, secondary and noncontributing. Lessee shall deliver proof of the insurance coverage required to be maintained by Lessee under this Paragraph 13, represented by evidence of insurance issued by the insurance carrier(s), to Owner prior to Lessee taking possession of the Premises. The evidence of insurance shall specify the additional insured status mentioned above as well as the waiver of subrogation. Such evidence of insurance shall state that Owner will be notified in writing thirty (30) days prior to cancellation, material change, or non-renewal of insurance. Lessee shall provide to Owner a certified copy of any and all applicable insurance policies upon request of Owner. In addition, Lessee shall deliver evidence of insurance to Owner as the coverage renews and not less than ten (10) days before the expiration date of any policies.

b. Waiver of Subrogation. To the extent authorized by the laws and Constitution of the State of Texas, each of Owner and Lessee waives any and every claim in its favor against the other during the Lease Term for any and all loss of, or damage to, any of its property located within or on, or constituting a part of, the Premises, which loss or damage is covered by valid and collectible fire and extended coverage insurance policies. These mutual waivers are in addition to, and not in limitation or derogation of, any other waiver or release contained in this Lease with respect to any loss of, or damage to, property of Lessee. Each party shall immediately give to each insurance company that has issued to it policies of fire and extended coverage insurance, written notice of the terms of the waiver,

and shall cause those insurance policies to be properly endorsed, if necessary, to prevent the invalidation of insurance coverages by reason of the waiver.

c. Lessee's Failure to Maintain Insurance. If Lessee fails to comply with the foregoing insurance requirements, then Owner may (in addition to having available to it all other remedies provided herein on the occurrence of a default) obtain such insurance, and Lessee shall pay to Owner on demand, as additional rent hereunder, the premium cost thereof plus interest at the lesser of eighteen percent (18%) per annum or the highest lawful rate, from the date of payment by Owner until payment by Lessee.

d. INDEMNITY. LESSEE ACCEPTS THE PREMISES IN THEIR "AS IS" CONDITION ON THE DATE THE LEASE TERM BEGINS. OWNER SHALL NOT BE LIABLE TO LESSEE, OR TO LESSEE'S AGENTS, SERVANTS, EMPLOYEES, CUSTOMERS, CONTRACTORS, VISITORS, LICENSEES, SUBLESSEES, OR INVITEES, AND LESSEE SHALL INDEMNIFY, DEFEND, AND HOLD HARMLESS FROM AND AGAINST ANY AND ALL FINES, SUITS, CLAIMS, DEMANDS, LOSSES, LIABILITIES, ACTIONS, AND COSTS (INCLUDING COURT COSTS AND ATTORNEYS'FEES) ARISING FROM:

(i) ANY INJURY TO PERSON OR DAMAGE TO PROPERTY CAUSED BY ANY ACT, OMISSION, OR NEGLECT OF LESSEE, LESSEE'S AGENTS, SERVANTS, EMPLOYEES, CUSTOMERS, CONTRACTORS, VISITORS, LICENSEES, SUBLESSEES OR INVITEES,

(ii) LESSEE'S USE OF THE PREMISES OR THE CONDUCT OF LESSEE'S BUSINESS,

(iii) ANY ACTIVITY, WORK, OR THING DONE, PERMITTED, OR SUFFERED BY LESSEE IN OR ABOUT THE PROJECT, OR

(iv) ANY BREACH OR DEFAULT IN THE PERFORMANCE OF ANY OBLIGATION ON LESSEE'S PART TO BE PERFORMED UNDER THE TERMS OF THIS LEASE.

e. NON-LIABILITY FOR CERTAIN DAMAGES. OWNER AND OWNER'S AGENTS, CONTRACTORS AND EMPLOYEES SHALL NOT BE LIABLE TO LESSEE OR ANY OTHER PERSON OR ENTITY WHOMSOEVER FOR ANY INJURY TO PERSONS OR DAMAGE TO PROPERTY CAUSED BY THE PROJECT OR ANY PORTION THEREOF MALFUNCTIONING OR BEING OUT OF REPAIR, OR BY DEFECT IN OR FAILURE OF EQUIPMENT, PIPES, OR WIRING, OR BY BROKEN GLASS, OR BY THE BACKING UP OF DRAINS, OR BY GAS, WATER, STEAM, ELECTRICITY OR OIL LEAKING, ESCAPING, OR FLOWING INTO THE PROJECT OR ANY PORTION THEREOF, OR BY THEFT, ACT OF GOD, PUBLIC ENEMY, INJUNCTION, RIOT, STRIKE, INSURRECTION, WAR, COURT ORDER, REQUISITION OR ORDER OF A GOVERNMENTAL BODY OR AUTHORITY OR ANY SIMILAR MATTER.

f. CRIMINAL ACTIVITY. OWNER HAS NO OBLIGATION TO PROVIDE SECURITY GUARDS OR SECURITY SYSTEMS FOR THE PREMISES LESSEE, TO THE FULL EXTENT ALLOWED BY LAW, HEREBY WAIVES ANY DUTY OF OWNER TO PROTECT LESSEE FROM THE CRIMINAL ACTS OF THIRD PARTIES.

g. Reconstruction in the Event of Casualty. In the event of damage to or destruction of improvements on the Premises caused by fire or other casualty, Lessee shall restore the improvements

promptly. All insurance proceeds relating to such damage or destruction shall be used to restore the Premises to its condition prior to the casualty or, if for any reason the Premises will not be so restored, then such insurance proceeds will be the property of Owner.

h. Self Insurance. Lessee may satisfy its obligation to maintain general liability insurance under this paragraph 13 by means of self-insurance, provided that Lessee submits annually to Owner its published annual report and such report reflects that Lessee has a net worth of no less than FIFTY MILLION DOLLARS ($50,000,000).

14. **Condemnation.** In the event the Premises or any part thereof is taken for any public or quasi-public use under any law or by right of eminent domain, or by private purchase in lieu thereof, this Lease shall terminate, the rent shall abate during the unexpired portion of this Lease commencing on the date physical possession is taken by the condemning authority, and the entirety of the compensation award or payment in lieu thereof shall be the property of Owner.

15. **Taxes and Assessments**. Lessee shall pay all taxes, assessments and charges, general and specific, that may be levied or assessed by reason of Lessee's use of the Premises and improvements and equipment situated thereon, including, without limitation, any and all taxes, assessments, and charges of any nature levied or assessed against Lessee's leasehold interest hereunder or any improvements on the Premises constructed by or belonging to Lessee. Lessee shall provide Owner with evidence from the assessing authority of such payments within thirty (30) days after Lessee makes any such payment.

16. **Default and Remedies**.

a. Events of Default. The following events shall be deemed to be events of default by Lessee under this Lease:

i. Lessee shall fail to pay when due any rent or any other sum payable by Lessee under this Lease;

ii. Lessee shall fail to comply with any other term, provision or covenant of this Lease within thirty (30) days after notice from Owner to Lessee specifying wherein Lessee has failed to comply; provided, however, that if the nature of Lessee's obligation is of such a nature that it cannot reasonably be cured within such 30-day period, Lessee shall not be deemed to be in default so long as Lessee commences curing such failure within such 30-day period and diligently prosecutes same to completion;

iii. Lessee shall do or permit to be done anything that creates a lien upon the Premises and such lien is not removed or bonded around within thirty (30) days after written notice thereof from Owner to Lessee.

b. Remedies. Upon occurrence of any event of default by Lessee, Owner may enforce the provisions of this Lease in any manner provided by law or in equity, including, without limitation, any one or more of the following, in each case, without further notice or demand whatsoever:

i. Termination of the Lease. At Owner's option, Owner may terminate this Lease and re-enter upon the Premises and, in such event, Lessee shall immediately surrender the Premises to Owner. If Lessee fails to immediately surrender the Premises, Owner may enter upon and take possession of the Premises by any lawful means, and lock out, expel, or remove Lessee without being guilty of any manner of trespass, without liability for any damage or loss occasioned thereby, and without prejudice to any remedies available to Owner for possession of the Premises, collection of

amounts due, breach of contract, or otherwise. Lessee agrees to pay to Owner on demand the amount of all loss and damage which Owner may suffer by reason of such termination, whether through inability to relet the Premises on satisfactory terms or otherwise, including the following: any unpaid Rental and other sums payable under this Lease that accrued prior to the termination of the Lease; plus the worth at the time of the award (calculated based on the rate of interest set out in Paragraph 4) of the amount by which the unpaid Rental which would have been earned after termination exceeds the amount of such rental loss Lessee proves could have been avoided; plus all other damages suffered by Owner, including without limitation court costs, reasonable attorneys' fees and other costs incurred in connection with the termination of this Lease, expenses of repossession, and expenses of restoring the Premises to a good condition of repair, and interest on all such amounts at the rate set out in Paragraph 4. In no event shall Owner be obligated to reimburse Lessee for any prepaid Rental.

ii. Re-entry and Reletting. At Owner's option, Owner may, without terminating this Lease, enter upon and take possession of the Premises by any lawful means, and lock out, expel, or remove Lessee without being guilty of any manner of trespass, without liability for any damage or loss occasioned thereby, and without prejudice to any remedies available to Owner for possession of the Premises, collection of amounts due, breach of contract, or otherwise. If Owner so elects, Owner may relet all or any part of the Premises on such terms as Owner shall deem advisable and receive the rent therefor, and Lessee agrees to pay to Owner on demand any deficiency that may arise by reason of such reletting for the remainder of the Lease Term or extension thereof (if the event of default occurs during such extension term). Lessee shall be liable to Owner for all costs Owner incurs in repossessing and reletting the Premises. In no event shall Lessee be entitled to receive a refund of any prepaid Rental or any excess in the rents received by Owner following a reletting over the amounts owed by Lessee to Owner hereunder.

iii. Entry to Carry out Lessee's Obligations. At Owner's option, Owner may carry out Lessee's obligations under this Lease, including without limitation Lessee's obligations under Paragraph 7, and, if necessary, without terminating this Lease, enter upon the Premises by any lawful means, including by picking or changing locks if necessary, without being guilty of any manner of trespass and without liability for any damage or loss occasioned thereby, and without prejudice to any of Owner's remedies, to carry out such obligations. Lessee agrees to reimburse to Owner on demand amounts expended by Owner, including reasonable attorneys' fees, in effecting compliance with Lessee's obligations under this Lease.

With respect to any amounts due to Owner hereunder and collected by an attorney after default or through judicial, bankruptcy, or probate proceedings, Lessee shall pay all costs of collection, including reasonable attorneys' fees and all court costs.

No re-entry or taking possession of the Premises by Owner shall be construed as an election on Owner's part to terminate this Lease unless a written notice of such intention is given to Lessee. Pursuit of any of the foregoing remedies shall not preclude pursuit of any of the other remedies herein provided or any other remedy provided by law, nor shall pursuit of any remedy herein provided constitute a forfeiture or waiver of any Rental or other sums due to Owner hereunder or of any damages accruing to Owner by reason of the violation of any of the terms, provision, and covenants herein contained. Owner's acceptance of Rental following an event of default hereunder shall not be construed as Owner's waiver of such event of default. No waiver by Owner of any violation or breach of any of the terms, provisions, and covenants herein contained shall be deemed or construed to constitute a waiver of any other violation or default. No payment by Lessee or receipt by Owner of any amount less than the amounts due by Lessee hereunder shall be deemed to be other than on account of the amounts due by lessee, nor shall any endorsement or statement on any check or document accompanying any payment be deemed an accord and satisfaction.

17. **Landlord's Lien**. In consideration of the mutual benefits arising under this Lease, Lessee hereby grants to Owner a lien and security interest in all property of Lessee (including, but not limited, to all fixtures, machinery, equipment, furnishings, and other articles of personal property now or hereafter placed in or on the Premises by Lessee, together with the proceeds from the disposition of those items) (the "Collateral"), now or hereafter placed in or upon the Premises, as security for payment of all Rental and other sums agreed to be paid by Lessee herein. The provisions of this Paragraph constitute a security agreement under the Texas Uniform Commercial Code, and Owner has and may enforce a security interest in the Collateral. The Collateral shall not be removed without the consent of Owner until all arrearages in rent and other sums of money then due to Owner hereunder have been paid and discharged. On the request of Owner, Lessee shall execute, as debtor, any and all financing statements deemed necessary by Owner, to perfect this security interest pursuant to the Texas Uniform Commercial Code. Owner may at its election at any time file a copy of this Lease as financing statement. Owner, as secured party, has all of the rights and remedies afforded a secured party under the Texas Uniform Commercial Code in addition to and cumulative of the Owner's liens and rights provided by law or by the other terms and provisions of this Lease.

18. **Surface Lease Only**. This Lease covers only the surface of the Premises and does not include any part of the mineral estate. This Lease is subject to any and all existing or future pipeline, road or utility easements and oil, gas or mineral leases covering the Premises or any part thereof, and the rights of the parties thereunder. Lessee shall not be entitled to any monies from operations on the Premises related to the mineral estate.

19. **Mechanic's Liens**. Lessee shall not permit any mechanic's or materialman's lien or liens to be placed upon the Premises, or any portion thereof, caused by or resulting from any work performed, materials furnished or obligation incurred by or at the request of Lessee, and in the case of the filing of any such lien, Lessee will promptly pay, bond off or obtain the release of same to the satisfaction of Owner. If Lessee's failure to comply with the provisions of this subparagraph shall continue for thirty (30) days, Owner may, but shall not be obligated to, pay the same or any portion thereof without inquiry as to the validity thereof, and Lessee shall repay any amounts so paid, plus expenses to Owner immediately on demand.

20. **Notices**.

a. Payments. All Rental and other payments required to be made by Lessee to Owner hereunder shall be payable to Owner at the address set forth in the Basic Lease Information or at such other address as Owner may designate in writing.

b. Notices. All notices required by this Lease shall be delivered by hand or sent by United States mail, postage prepaid, certified or registered mail, addressed as set forth in the Basic Lease Information, or at such other address as any of said parties have theretofore specified by written notice delivered in accordance herewith. Any notice or document (excluding Rental and other payments) required to be delivered hereunder shall be deemed to be delivered upon receipt if personally delivered, and whether or not received, when deposited in the United States mail, postage prepaid, certified or registered mail (with or without return receipt requested), addressed as indicated above.

21. **Miscellaneous**.

a. Right to Mortgage Interest. Notwithstanding anything herein to the contrary, Lessee may mortgage, pledge or otherwise encumber Lessee's leasehold interest in the Premises and any improvements constructed on the Premises by Lessee; provided, however, that any such mortgage, pledge, or encumbrance shall in no event be construed to attach to or encumber in any manner Owner's interest in the Premises under this Lease or Owner's fee interest in the Premises.

b. Net Lease. Owner shall not be required to make any expenditure, incur any obligation, or incur any liability of any kind whatsoever in connection with this Lease or the financing, ownership, construction, reconstruction, maintenance, operation, or repair of the Premises or the improvements thereon.

c. Board Approval. This Lease is subject to the approval of the Board of Regents of The University of Texas System.

d. Compliance with Laws. Lessee shall, at Lessee's cost and expense, obtain any necessary licenses, permits or other necessary authorizations, and shall comply with all governmental laws, ordinances and regulations applicable to the Premises and Lessee's use thereof, including without limitation the following:

i. the Antiquities Code of Texas (Texas Natural Resources Code, Chapter 191) and applicable rules promulgated thereunder by the Antiquities Committee, or its successor. Lessee shall undertake its activities on the Premises in a manner consistent with public policy relating to the location and preservation of archeological sites and other cultural resources in, on, or under public lands, including University Lands. Lessee shall use the highest degree of care and all reasonable safeguards to prevent the taking, alteration, damage, destruction, salvage, or excavation of cultural resources and/or landmarks on University Lands. Upon discovery of an archeological site, Lessee shall immediately give written notice of such discovery to Owner and to the Texas Antiquities Committee, as set out in the Committee's rules. Lessee, its contractors and employees, shall have no right, title, or interest in or to any archaeological articles, objects, or artifacts, or other cultural resources located or discovered on University Lands.

ii. all federal, state, and local laws, regulations, and ordinances relating to Hazardous Materials and all other applicable environmental laws, regulations, and ordinances.

e. Applicable Law. This Lease shall be construed and interpreted in accordance with the laws of the State of Texas.

f. Severability. In case any one or more of the provisions contained in this Lease shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision hereof, and this Lease shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.

g. Entire Agreement. This Lease constitutes the sole and entire agreement between the parties and cannot be amended except by written instrument signed by both parties.

h. Binding Nature. This Lease shall be binding upon and shall inure to the benefit of Owner and Lessee, and their respective heirs, successors, assigns, and legal representatives. This provision does not constitute consent by Owner to any assignment or subletting by Lessee.

i. No Merger. If this Lease is a replacement or renewal between the parties, it is the intent of the parties that no merger take place, and that all obligations of the parties with respect to the previous lease will continue and not be affected by the execution of this Lease.

j. Relationship of the Parties. The relationship created hereby shall be the relationship of landlord and tenant and shall not be construed in any manner to constitute a partnership, joint venture, or principal-agent relationship between the parties hereto, and neither party shall have authority to bind the other, except as expressly provided herein.

k. Captions. The captions used herein are for convenience only and do not limit or amplify the provisions hereof.

l. Gender. Words of any gender used in this Lease shall be held and construed to include any other gender and words in the singular number shall be held to include the plural, unless the context otherwise requires.

22. **Exhibits**. All exhibits referred to in this Lease or in the Basic Lease Information are listed below and attached hereto and incorporated herein. If there are conflicts between any Exhibit and the body of this document, the document will control.

Exhibit A - Legal Description

IN WITNESS WHEREOF, the parties have executed this Lease to be effective as of the Effective Date shown in the Basic Lease Information.

OWNER:

THE UNIVERSITY OF TEXAS SYSTEM
BOARD OF REGENTS

Date: 10/29/19

By: _____
Richard Brantley
Senior Vice President, Operations
University Lands

Approved as to Content:

_____
James R. Buice
University Lands

LESSEE:

CITY OF WICKETT

Date: 10-16-19

By: _____

Name: _____

Title: Mayor

ACKNOWLEDGEMENTS

STATE OF TEXAS §
§
COUNTY OF MIDLAND §

This instrument was acknowledged before me on the 29th day of October, 2019, by Richard Brantley, Senior Vice President, Operations, University Lands, University Lands, The University of Texas System, on behalf of The University of Texas System Board of Regents.

KATHY J. WOODS
Notary ID # 129227634
My Commission Expires
December 5, 2020

Notary Without Bond

Kathy J. Woods
Notary Public, State of Texas

STATE OF TEXAS §
§
COUNTY OF Ward §

This instrument was acknowledged before me on the 16 day of October, 2019, by Xavier Estrada, Mayor on behalf of said company.

LORINDA G GIBSON
Notary Public State of Texas
My Commission# 130970001
My Comm. Exp. Feb. 09, 2021

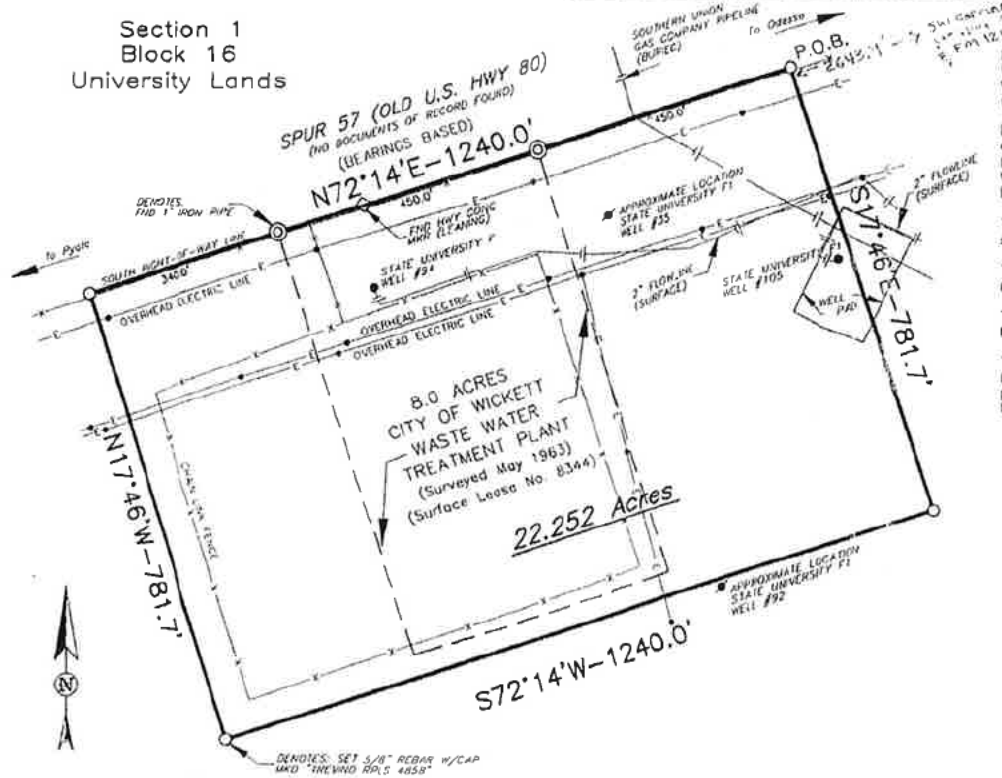
Lorinda G Gibson
Notary Public, State of Texas

EXHIBIT "A"

Description of the Premises

EXHIBIT "A" - #9136

WARD COUNTY, TEXAS



PROPERTY DESCRIPTION

FIELD NOTES DESCRIBING A 22.252 ACRE TRACT OF LAND IN SECTION 1, BLOCK 16, UNIVERSITY LANDS WARD COUNTY, TEXAS, SAID 22.252 ACRE TRACT IS ADJACENT TO AND INCLUDES CITY OF WICKETT WASTE WATER TREATMENT PLANT 8.0 ACRE TRACT, SURVEYED MAY 1963, SEE EXHIBIT "A" UNIVERSITY OF TEXAS SURFACE LEASE NO. 8344, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING at a 5/8 inch rebar with a cap marked "TREVINO RPLS 4858" set for the northeast corner of this tract, in the south right-of-way line of Spur 57 (old U.S. Hwy 80), no documents of record found for right-of-way, whence a one inch iron pipe found at the northeast corner of City of Wickett Waste Water Treatment Plant, surveyed May 1963, see Exhibit "A" University of Texas System Surface Lease No. 8344, bears South 72°14' West 450.0 feet;

THENCE South 17°46' East 781.7 feet to a 5/8 inch rebar with cap marked "TREVINO RPLS 4858" set for the southeast corner of this tract;

THENCE parallel to said right-of-way line, South 72°14' West 1240.0 feet to a 5/8 inch rebar with cap marked "TREVINO RPLS 4858" set for the southwest corner of this tract;

THENCE North 17°46' West 781.7 feet to a 5/8 inch rebar with cap marked "TREVINO RPLS 4858" set for the northwest corner of this tract, in said south right-of-way line;

THENCE with said south right-of-way line, North 72°14' East at 340.0 feet pass a one inch iron pipe found at the northwest corner of said 8.0 acre tract and at 790.0 feet pass said found one inch iron pipe at the northeast corner of the 8.0 acre tract, continuing for a total distance of 1240.0 feet to the "Point of Beginning" and containing 22.252 acres of land, more or less.

OTHER IMPROVEMENTS ON SUBJECT PROPERTY NOT SHOWN.

INDENTIFICATION OF RIGHT-OF-WAYS AND EASEMENTS NOT A PART OF THIS SURVEY.

CITY OF WICKETT WASTE WATER TREATMENT PLANT 8.0 ACRE TRACT SURVEYED MAY 1963. SEE EXHIBIT "A" UNIVERSITY OF TEXAS SYSTEM SURFACE LEASE NO. 8344.

UNDERGROUND UTILITIES NOT PHYSICALLY LOCATED, SHOWN AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

THE SURVEYOR HAS NOT ABSTRACTED THE PROPERTY. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A CURRENT ABSTRACT OF PROPERTY OR TITLE REPORT AND WOULD BE SUBJECT TO ANY CONDITIONS, EASEMENTS, RESTRICTIONS, ADDITIONS, OR EXCEPTIONS THAT A CURRENT TITLE OPINION MIGHT DISCLOSE.

Exhibit "A" - #9136

Treviño Land Surveyors
608 North Water Street - P.O. Box 876
Fort Stockton, Texas 79735 (915) 336-6431

PREPARED FOR: City of Wickett, Texas	
DRAWING NAME: WWTP.DWG	JOB NUMBER: 00-25
PREPARED BY: CT	DATE: 8-18-00
CHECKED BY: CT	DATE: 8-21-00
FB: 403	PAGES: 4-10

PLAT VALID ONLY WITH SURVEYORS RAISED SEAL AND ORIGINAL SIGNATURE.

Foregoing plat represents a survey made on the ground, completed August 17, 2000

Carlos Treviño
Registered Professional Land Surveyor
State of Texas #4858

SURVEY PLAT

of a 22.252 acre tract in Section 1,
Block 16, University Lands,
Ward County, Texas

REVISIONS	
DATE	DESCRIPTION

Sheet 1 of

Attachment Index

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086

JACOB MARTIN

INTEGRITY
EXCELLENCE
TRUST

July 1, 2024

April Hoh, P.G.
Water Quality Assessment Team/Water Quality Division (MC150)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Renewal of a Wastewater Treatment Plant Permit
City of Wickett
Permit No. WQ0010622001
RN101918027/ CN600670004
Technical Completeness Review Response

Dear TCEQ:
Enclosed is the response for the Technical Review portion for the application and related documents to renew Permit No. WQ0010622001.

As for the requested 4. Domestic Worksheet 3.0, Section 8, Soil Analyses – Please submit current soil lab analyses. Analyses are acceptable as long as the test date is less than one year prior to the submission of the application. And 5. Domestic Worksheet 3.0, Section 8, Table 3.0(4) – Soil Data: Please complete the table at its entirety.
We have attached the confirmation from Eurofins Lab for the requested analysis and as soon as we have the results the Domestic Worksheet 3.0 Section 8 Table 3.0 Soil Data will be completed and sent back for review.

If you have any questions, please feel free to contact me at our Abilene office (325) 695-1070 or email me at sfernandez@jacobmartin.com. Thank you for your assistance.

Sincerely,

Sarah Fernandez

JACOB | MARTIN

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Kevin Luckie	Bill to: (if different)	
Company Name:	City of Wickett	Company Name:	
Address:	P.O. Box 155	Address:	
City, State ZIP:	Wickett TX 79788	City, State ZIP:	
Phone:	432-943-6765	Email:	Cityofwickett@gmail.com

Project Name:	Annual Soil Samples	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Waste water ponds	Due Date:	
Sampler's Name:	Kevin Luckie	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.4	
Total Containers:	3	Corrected Temperature:	2.3	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Total Nitrogen as N	Total Kjeldahl Nitrogen	Available Phorus	Nitrate Nitrogen Extractable	pH Soil water	Plant Available potassium	conductivity Specific	Sulfur	Calcium	Magnesium	Sodium	Ammonium Nitrogen
Jar 1 0"-6" holes 1,2,3		6-25-24		0'-6"	✓	1	x	x	x	x	x	x	x	x	x	x	x	x
Jar 2 holes 1,2,3	S	6-25-24		6-18"	✓	1		x	x	x	x	x	x	x	x	x	x	x
Jar 3 holes 1,2,3	S	6-25-24		18"-24"	✓	1		x	x	x	x	x	x	x	x	x	x	x

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Kevin Luckie		6/25 1052	2		
			4		
			6		

CITY OF WICKETT
PERMIT NO. WQ0010622001
APPLICATION FOR A RENEWAL
Technical Completeness Review

Please address the following items:

GEOLOGY

1. Domestic Worksheet 3.0, Section 2: The flow is identified as being 78202 GPD. The current authorized flow is 91,000 GPD. Please clarify and revise the section, as needed to reflect the renewal.

AGRONOMY

1. Domestic Worksheet 3.0, Section 2: The irrigation area is identified as being 5.2 acres on Table 3.0(1). The current authorized acreage is 18 acres. A reduction in acreage is not authorized in a renewal. Additionally, it should be noted that the authorized application rate for the site is 5.2 ac-ft/ac/yr.
2. Domestic Worksheet 3.0, Section 5: The submitted Annual Cropping Plan identifies 12.69 acres of application area while the current permit authorizes 18 acres. Please fully answer all the bullet points for all the authorized crops (oats, rye, & hay)
3. Domestic Worksheet 3.0, Section 8, Soil Map: The attached USDA soil survey map displays 8.8 acres of which a significant portion are ponds. Please submit a map of the authorized 18-acre application field.
4. Domestic Worksheet 3.0, Section 8, Soil Analyses - Please submit current soil lab analyses. Analyses are acceptable as long as the test date is less than one year prior to the submission of the application.
5. Domestic Worksheet 3.0, Section 8, Table 3.0(4) - Soil Data: Please complete the table at its entirety.

For geology-related questions, please contact April Hoh, P.G. via email at April.Hoh@tceq.texas.gov (preferred) or at 512-239-3567. For agronomy-related questions, please contact Alan Barraza via email at Alan.Barraza@tceq.texas.gov (preferred) or at 512-239-4642.

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #7

USDA NRCS Soil Map

Prepared By:

JACOB MARTIN

Firm #2448
Project #: 17390

325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- ☐ Surface application
- ☒ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: Click to enter text.

Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Oats, rye, and hay	18	91000	N

Section 8. Soil Map and Soil Analyses (Instructions Page 70)

A. Soil map

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

Attachment: #7

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: #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

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

If no, this section is not applicable and the worksheet is complete.

If yes, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
4-1-22	0.0379	63.3		7.77		18
5-6-22	0.0379	60.5		6.49		18
6-3-22	0.0375	64.8		6.51		18

Annual Cropping Plan

1. Soils Map

A soils map depicting the locations of the crops that will be grown is included with this attachment.

2. Crops

The following list identifies the crops to be grown, the corresponding acreage and the growing seasons:

Crop	Acreage	Growing Season
Oats	18	September to June
Rye	18	November June
Hay	18	March to November

3. Nutrient Requirements

Nutrient recommendations were taken from the USDA-NRCS Conservation Practice Standard Code 590 "Nutrient Management". Assuming grazing for cattle, Bermuda grass requires 60 lb/acre of nitrogen, 50 lb/acre of phosphate, and 90 lb/acre of potassium. Assuming grazing for cattle and a yield goal of 45-60 bu/acre, wheat requires 100 lb/acre of nitrogen, 40 lb/acre of phosphate and 40 lb/acre of potassium.

4. Supplemental Water Requirements

No supplemental watering will be required for this facility since the facility operates year round.

5. Salt Tolerances

The electrical conductivity of the salt tolerance for wheat ranges from 6.0 to 8.0 millimhos/cm at 25°C.
The electrical conductivity of the salt tolerance for Rye ranges from 4.0 to 8.0 millimhos/cm at 25°C.

6. Harvesting Method

The oats will be cut and harvested using a combine.
The rye and hay will be cut and baled.

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Ward County, Texas

July 1, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map

Map Scale: 1:1,990 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 25 50 100 150

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- 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
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Ward County, Texas
Survey Area Data: Version 22, Sep 5, 2023

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

Date(s) aerial images were photographed: Feb 10, 2022—Feb 13, 2022

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
PY	Pyote soils, undulating	14.1	74.9%
WT	Wickett and Sharvana fine sandy loams, gently sloping	4.7	25.1%
Totals for Area of Interest		**18.8**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Ward County, Texas

PY—Pyote soils, undulating

Map Unit Setting

National map unit symbol: 1zdx
Elevation: 2,000 to 3,250 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 57 to 66 degrees F
Frost-free period: 210 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy alluvium and/or sandy eolian deposits

Typical profile

H1 - 0 to 34 inches: loamy fine sand
H2 - 34 to 62 inches: fine sandy loam
H3 - 62 to 76 inches: fine sandy loam

Properties and qualities

Slope: 1 to 4 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: R070BD251TX - Mescalero Sandplain Loamy Sand, Desert Grassland
Hydric soil rating: No

WT—Wickett and Sharvana fine sandy loams, gently sloping

Map Unit Setting

National map unit symbol: 1zf5
Elevation: 2,250 to 3,500 feet
Mean annual precipitation: 10 to 17 inches
Mean annual air temperature: 63 to 68 degrees F
Frost-free period: 210 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Wickett and similar soils: 75 percent
Sharvana and similar soils: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wickett

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy eolian deposits and/or sandy eolian deposits

Typical profile

H1 - 0 to 14 inches: fine sandy loam
H2 - 14 to 30 inches: fine sandy loam
H3 - 30 to 38 inches: cemented material
H4 - 38 to 60 inches: gravelly loam

Properties and qualities

Slope: 1 to 2 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 85 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R070BD256TX - Mescalero Sandplain Sandy Loam, Desert Grassland

Hydric soil rating: No

Description of Sharvana

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age

Typical profile

H1 - 0 to 4 inches: fine sandy loam
H2 - 4 to 10 inches: fine sandy loam
H3 - 10 to 26 inches: cemented material
H4 - 26 to 40 inches: variable

Properties and qualities

Slope: 1 to 2 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: R070BD257TX - Mescalero Sandplain Shallow Sandy Loam, Desert Grassland
Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

RE: Application to Renew Permit No. WQ0010622001 - Notice of Deficiency Letter

Sarah Fernandez <sfernandez@jacobmartin.com>
Tue 7/2/2024 2:02 PM
To:Savannah Jackson <Savannah.Jackson@tceq.texas.gov>;cityofwickett@gmail.com <cityofwickett@gmail.com>
Cc:Erwin Madrid <Erwin.Madrid@tceq.texas.gov>

1 attachments (1 MB)
Pretech Response for WQ0010622-001 City of Wickett.pdf;

Hi Savannah,
This was actually caught in the Pretech Review, attached is the response that was sent to April Hoh yesterday. Please review and let me know if you have any questions or need anything additional, thank you!

From: Savannah Jackson <Savannah.Jackson@tceq.texas.gov>
Sent: Tuesday, July 2, 2024 1:44 PM
To: Sarah Fernandez <sfernandez@jacobmartin.com>; cityofwickett@gmail.com
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Subject: Re: Application to Renew Permit No. WQ0010622001 - Notice of Deficiency Letter

Good afternoon,

I just realized that Worksheet 3.0, Section 2 does not match the current permit. Please revise the acres and effluent to match the permit (18 acres for the irrigation area and Effluent Application .091 MGD or 19,000 GPD) and send the updated version to me via email.

Thanks,

Savannah Jackson
Texas Commission on Environmental Quality
Water Quality Division
512-239-4306
savannah.jackson@tceq.texas.gov

From: Sarah Fernandez <sfernandez@jacobmartin.com>
Sent: Monday, June 24, 2024 2:04 PM
To: Savannah Jackson <Savannah.Jackson@tceq.texas.gov>; cityofwickett@gmail.com <cityofwickett@gmail.com>
Cc: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Subject: RE: Application to Renew Permit No. WQ0010622001 - Notice of Deficiency Letter

Good Afternoon Savannah,
Hope all is well! I have attached the NOD Response on behalf of the City of Wickett, please let me know if you need anything else, thank you again for your time and attention. Have a great rest of your day!

Sarah Fernandez
JACOB | MARTIN
3465 Curry Lane
Abilene, TX 79606
Ofc) 325.695.1070

From: Savannah Jackson <Savannah.Jackson@tceq.texas.gov>
Sent: Thursday, June 20, 2024 11:35 AM
To: cityofwickett@gmail.com
Cc: Sarah Fernandez <sfernandez@jacobmartin.com>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Subject: Application to Renew Permit No. WQ0010622001 - Notice of Deficiency Letter

Dear Ms. Lorinda Gibson,

> The attached Notice of Deficiency letter sent on June 20, 2024, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by July 4, 2024.

Thank you,

Savannah Jackson
Texas Commission on Environmental Quality
Water Quality Division
512-239-4306
savannah.jackson@tceq.texas.gov

JACOB MARTIN

INTEGRITY
EXCELLENCE
TRUST

June 24, 2024

Savannah Jackson
Applications Review and Processing Team (MC148)
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, Texas 78753

RE: Application for Renewal of a Wastewater Treatment Plant Permit
City of Wickett
Permit No. WQ0010622001
RN101918027/ CN600670004
NOD Response for Renewal of Existing Permit

Dear TCEQ:

Enclosed is the NOD Response for the application and related documents to renew Permit No. WQ0010622001.

If you have any questions, please feel free to contact me at our Abilene office (325) 695-1070 or email me at sfernandez@jacobmartin.com. Thank you for your assistance.

Sincerely,

Sarah Fernandez

JACOB | MARTIN

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 20, 2024

Ms. Lorinda Gibson
City Secretary
City of Wickett
P.O. Box 185
Wickett, Texas 79788

RE: Application to Renew Permit No.: WQ0010622001
Applicant Name: City of Wickett (CN600670004)
Site Name: City of Wickett WWTP (RN101918027)
Type of Application: Renewal without changes

VIA EMAIL

Dear Ms. Gibson:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. The Plain Language Summary is currently missing. Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English. Please provide the PLS in a Microsoft Word Document.

2. Administrative Report 1.0, Section 13: The USGS map submitted is insufficient because the electronic copy is blurry. Please provide a pdf document of a new original USGS 7.5 minute topographic map (an 8 ½ by 11, reproduced portion/area of the most current original USGS map may be provided as long as all the required information can be shown), showing and labeling the: applicant's property boundary, location of the treatment facility within the applicant's property boundaries, point of discharge (indicate it with an X or arrow), highlighted discharge route for three miles downstream (using a light-colored highlighter) from the point of discharge, scale, and an area of not less than one mile in all directions from the facility.

3. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

> **APPLICATION.** City of Wickett, P.O. Box 185, Wickett, Texas 79788, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010622001 to authorize the disposal of treated wastewater effluent at a daily average flow not to exceed 91,000 gallons per day via surface irrigation of 18 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1 mile northwest of the

intersection of Farm-to-Market Road 1219 and Interstate Highway 20, in Ward County, Texas 79788. TCEQ received this application on June 13, 2024. The permit application will be available for viewing and copying at Wickett City Hall, 103 3rd Street, Wickett, in Ward 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=-103.008611,31.561944&level=18

Further information may also be obtained from City of Wickett at the address stated above or by calling Ms. Lorinda Gibson, City Secretary, at 432-943-6765.

Please submit the complete response, addressed to my attention by July 4, 2024. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4306 or by email at savannah.jackson@tceq.texas.gov

Sincerely,

Savannah Jackson

Savannah Jackson
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

slj

Enclosure(s):
Attachment 1 – Municipal TPDES and TLAP PLS Form

cc: Ms. Sarah Fernandez, Environmental Coordinator, Jacob Martin, 3465 Curry Lane, Abilene, Texas 79606

Plain Language Summary Template for Texas Land Application (TLAP) Permit Applications

City of Wickett (CN600670004) operates City of Wickett WWTP RN101918027. a Wastewater Treatment Plant. The facility is located approximately 1 mile northwest of the intersection of Farm-to-Market Road 1219 and Interstate Highway 20, in Wickett, Ward County, Texas 79788.

This application is for a renewal to dispose a daily average flow not to exceed 91,000 gallons per day of treated domestic wastewater via irrigation of 18 acres of non public access agricultural land. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD5). Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package.

City of Wickett
WWTP Irrigation Site Application
Ward County, Texas
September 2024

ATTACHMENT #2

USGS Topographic Map/ SPIFF Form With location of wells, and boundaries of application area

Prepared By:

JACOB MARTIN

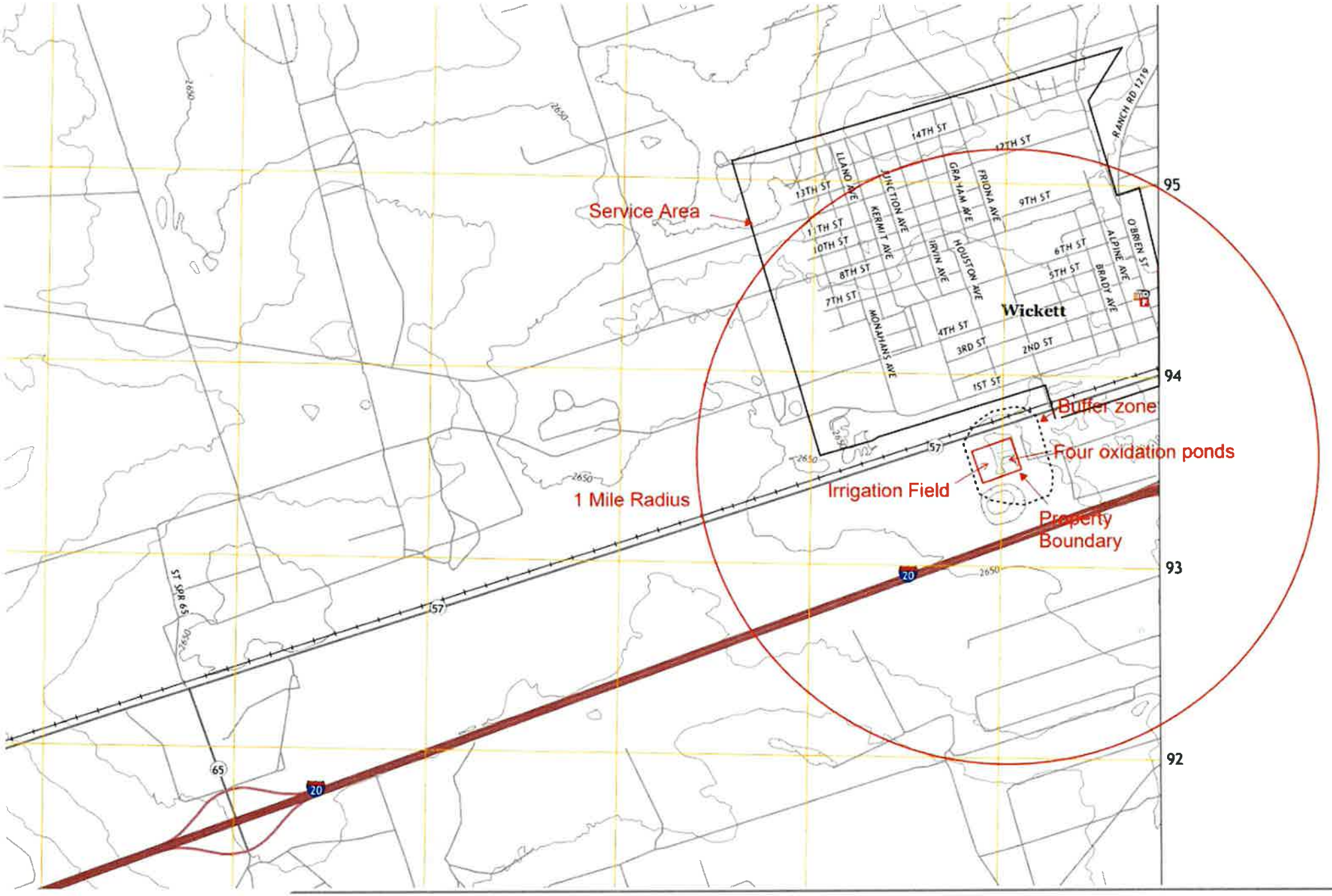
Firm #2448
Project #: 17390

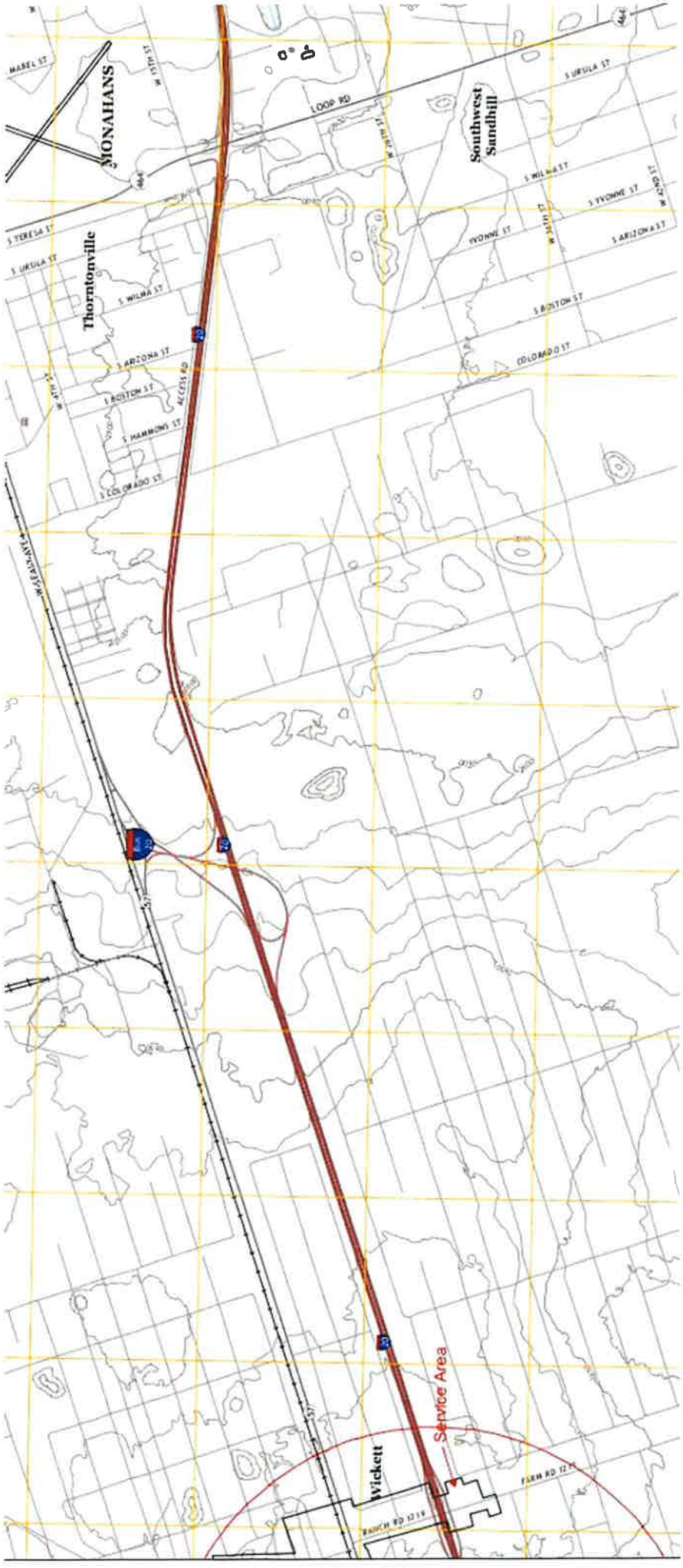
325.695.1070
817.594.9880

info@jacobmartin.com
www.jacobmartin.com

3465 Curry Lane
Abilene, TX 76906

1508 Santa Fe, Suite 203
Weatherford, TX 76086


Service Area
1 Mile Radius
Buffer zone
Four oxidation ponds
Irrigation Field
Property Boundary
Wickett
14TH ST
13TH ST
11TH ST
10TH ST
9TH ST
8TH ST
7TH ST
6TH ST
5TH ST
4TH ST
3RD ST
2ND ST
1ST ST
LLANO AVE
JUNCTION AVE
KERMIT AVE
GRAHAM AVE
IRVIN AVE
HOUSTON AVE
FRIONA AVE
MONAHANS AVE
ALPINE AVE
BRADY AVE
O'BRIEN ST
RANCH RD 1219
ST SPR 65
57
20
65
95
94
93
92


MONAHANS
Thorntonville
Southwest Sandhill
LOOP RD
W 15TH ST
S URSULA ST
S TERESA ST
S WILMA ST
S ARIZONA ST
S BOSTON ST
S COLORADO ST
S HAMMOND ST
ACCESS RD
W 4TH ST
W 42ND ST
S WILMA ST
S YVONNE ST
YVONNE ST
S ARIZONA ST
S BOSTON ST
COLORADO ST
W 4TH ST
W 5TH ST
W 6TH ST
W 7TH ST
W 8TH ST
W 9TH ST
W 10TH ST
W 11TH ST
W 12TH ST
W 13TH ST
W 14TH ST
W 15TH ST
W 16TH ST
W 17TH ST
W 18TH ST
W 19TH ST
W 20TH ST
W 21ST ST
W 22ND ST
W 23RD ST
W 24TH ST
W 25TH ST
W 26TH ST
W 27TH ST
W 28TH ST
W 29TH ST
W 30TH ST
W 31ST ST
W 32ND ST
W 33RD ST
W 34TH ST
W 35TH ST
W 36TH ST
W 37TH ST
W 38TH ST
W 39TH ST
W 40TH ST
W 41ST ST
W 42ND ST
W 43RD ST
W 44TH ST
W 45TH ST
W 46TH ST
W 47TH ST
W 48TH ST
W 49TH ST
W 50TH ST
W 51ST ST
W 52ND ST
W 53RD ST
W 54TH ST
W 55TH ST
W 56TH ST
W 57TH ST
W 58TH ST
W 59TH ST
W 60TH ST
W 61ST ST
W 62ND ST
W 63RD ST
W 64TH ST
W 65TH ST
W 66TH ST
W 67TH ST
W 68TH ST
W 69TH ST
W 70TH ST
W 71ST ST
W 72ND ST
W 73RD ST
W 74TH ST
W 75TH ST
W 76TH ST
W 77TH ST
W 78TH ST
W 79TH ST
W 80TH ST
W 81ST ST
W 82ND ST
W 83RD ST
W 84TH ST
W 85TH ST
W 86TH ST
W 87TH ST
W 88TH ST
W 89TH ST
W 90TH ST
W 91ST ST
W 92ND ST
W 93RD ST
W 94TH ST
W 95TH ST
W 96TH ST
W 97TH ST
W 98TH ST
W 99TH ST
W 100TH ST
W 101ST ST
W 102ND ST
W 103RD ST
W 104TH ST
W 105TH ST
W 106TH ST
W 107TH ST
W 108TH ST
W 109TH ST
W 110TH ST
W 111TH ST
W 112TH ST
W 113TH ST
W 114TH ST
W 115TH ST
W 116TH ST
W 117TH ST
W 118TH ST
W 119TH ST
W 120TH ST
W 121ST ST
W 122ND ST
W 123RD ST
W 124TH ST
W 125TH ST
W 126TH ST
W 127TH ST
W 128TH ST
W 129TH ST
W 130TH ST
W 131ST ST
W 132ND ST
W 133RD ST
W 134TH ST
W 135TH ST
W 136TH ST
W 137TH ST
W 138TH ST
W 139TH ST
W 140TH ST
W 141ST ST
W 142ND ST
W 143RD ST
W 144TH ST
W 145TH ST
W 146TH ST
W 147TH ST
W 148TH ST
W 149TH ST
W 150TH ST
W 151ST ST
W 152ND ST
W 153RD ST
W 154TH ST
W 155TH ST
W 156TH ST
W 157TH ST
W 158TH ST
W 159TH ST
W 160TH ST
W 161ST ST
W 162ND ST
W 163RD ST
W 164TH ST
W 165TH ST
W 166TH ST
W 167TH ST
W 168TH ST
W 169TH ST
W 170TH ST
W 171ST ST
W 172ND ST
W 173RD ST
W 174TH ST
W 175TH ST
W 176TH ST
W 177TH ST
W 178TH ST
W 179TH ST
W 180TH ST
W 181ST ST
W 182ND ST
W 183RD ST
W 184TH ST
W 185TH ST
W 186TH ST
W 187TH ST
W 188TH ST
W 189TH ST
W 190TH ST
W 191ST ST
W 192ND ST
W 193RD ST
W 194TH ST
W 195TH ST
W 196TH ST
W 197TH ST
W 198TH ST
W 199TH ST
W 200TH ST
W 201ST ST
W 202ND ST
W 203RD ST
W 204TH ST
W 205TH ST
W 206TH ST
W 207TH ST
W 208TH ST
W 209TH ST
W 210TH ST
W 211TH ST
W 212TH ST
W 213TH ST
W 214TH ST
W 215TH ST
W 216TH ST
W 217TH ST
W 218TH ST
W 219TH ST
W 220TH ST
W 221ST ST
W 222ND ST
W 223RD ST
W 224TH ST
W 225TH ST
W 226TH ST
W 227TH ST
W 228TH ST
W 229TH ST
W 230TH ST
W 231ST ST
W 232ND ST
W 233RD ST
W 234TH ST
W 235TH ST
W 236TH ST
W 237TH ST
W 238TH ST
W 239TH ST
W 240TH ST
W 241ST ST
W 242ND ST
W 243RD ST
W 244TH ST
W 245TH ST
W 246TH ST
W 247TH ST
W 248TH ST
W 249TH ST
W 250TH ST
W 251ST ST
W 252ND ST
W 253RD ST
W 254TH ST
W 255TH ST
W 256TH ST
W 257TH ST
W 258TH ST
W 259TH ST
W 260TH ST
W 261ST ST
W 262ND ST
W 263RD ST
W 264TH ST
W 265TH ST
W 266TH ST
W 267TH ST
W 268TH ST
W 269TH ST
W 270TH ST
W 271ST ST
W 272ND ST
W 273RD ST
W 274TH ST
W 275TH ST
W 276TH ST
W 277TH ST
W 278TH ST
W 279TH ST
W 280TH ST
W 281ST ST
W 282ND ST
W 283RD ST
W 284TH ST
W 285TH ST
W 286TH ST
W 287TH ST
W 288TH ST
W 289TH ST
W 290TH ST
W 291ST ST
W 292ND ST
W 293RD ST
W 294TH ST
W 295TH ST
W 296TH ST
W 297TH ST
W 298TH ST
W 299TH ST
W 300TH ST
W 301ST ST
W 302ND ST
W 303RD ST
W 304TH ST
W 305TH ST
W 306TH ST
W 307TH ST
W 308TH ST
W 309TH ST
W 310TH ST
W 311TH ST
W 312TH ST
W 313TH ST
W 314TH ST
W 315TH ST
W 316TH ST
W 317TH ST
W 318TH ST
W 319TH ST
W 320TH ST
W 321ST ST
W 322ND ST
W 323RD ST
W 324TH ST
W 325TH ST
W 326TH ST
W 327TH ST
W 328TH ST
W 329TH ST
W 330TH ST
W 331ST ST
W 332ND ST
W 333RD ST
W 334TH ST
W 335TH ST
W 336TH ST
W 337TH ST
W 338TH ST
W 339TH ST
W 340TH ST
W 341ST ST
W 342ND ST
W 343RD ST
W 344TH ST
W 345TH ST
W 346TH ST
W 347TH ST
W 348TH ST
W 349TH ST
W 350TH ST
W 351ST ST
W 352ND ST
W 353RD ST
W 354TH ST
W 355TH ST
W 356TH ST
W 357TH ST
W 358TH ST
W 359TH ST
W 360TH ST
W 361ST ST
W 362ND ST
W 363RD ST
W 364TH ST
W 365TH ST
W 366TH ST
W 367TH ST
W 368TH ST
W 369TH ST
W 370TH ST
W 371ST ST
W 372ND ST
W 373RD ST
W 374TH ST
W 375TH ST
W 376TH ST
W 377TH ST
W 378TH ST
W 379TH ST
W 380TH ST
W 381ST ST
W 382ND ST
W 383RD ST
W 384TH ST
W 385TH ST
W 386TH ST
W 387TH ST
W 388TH ST
W 389TH ST
W 390TH ST
W 391ST ST
W 392ND ST
W 393RD ST
W 394TH ST
W 395TH ST
W 396TH ST
W 397TH ST
W 398TH ST
W 399TH ST
W 400TH ST
W 401ST ST
W 402ND ST
W 403RD ST
W 404TH ST
W 405TH ST
W 406TH ST
W 407TH ST
W 408TH ST
W 409TH ST
W 410TH ST
W 411TH ST
W 412TH ST
W 413TH ST
W 414TH ST
W 415TH ST
W 416TH ST
W 417TH ST
W 418TH ST
W 419TH ST
W 420TH ST
W 421ST ST
W 422ND ST
W 423RD ST
W 424TH ST
W 425TH ST
W 426TH ST
W 427TH ST
W 428TH ST
W 429TH ST
W 430TH ST
W 431ST ST
W 432ND ST
W 433RD ST
W 434TH ST
W 435TH ST
W 436TH ST
W 437TH ST
W 438TH ST
W 439TH ST
W 440TH ST
W 441ST ST
W 442ND ST
W 443RD ST
W 444TH ST
W 445TH ST
W 446TH ST
W 447TH ST
W 448TH ST
W 449TH ST
W 450TH ST
W 451ST ST
W 452ND ST
W 453RD ST
W 454TH ST
W 455TH ST
W 456TH ST
W 457TH ST
W 458TH ST
W 459TH ST
W 460TH ST
W 461ST ST
W 462ND ST
W 463RD ST
W 464TH ST
W 465TH ST
W 466TH ST
W 467TH ST
W 468TH ST
W 469TH ST
W 470TH ST
W 471ST ST
W 472ND ST
W 473RD ST
W 474TH ST
W 475TH ST
W 476TH ST
W 477TH ST
W 478TH ST
W 479TH ST
W 480TH ST
W 481ST ST
W 482ND ST
W 483RD ST
W 484TH ST
W 485TH ST
W 486TH ST
W 487TH ST
W 488TH ST
W 489TH ST
W 490TH ST
W 491ST ST
W 492ND ST
W 493RD ST
W 494TH ST
W 495TH ST
W 496TH ST
W 497TH ST
W 498TH ST
W 499TH ST
W 500TH ST
W 501ST ST
W 502ND ST
W 503RD ST
W 504TH ST
W 505TH ST
W 506TH ST
W 507TH ST
W 508TH ST
W 509TH ST
W 510TH ST
W 511TH ST
W 512TH ST
W 513TH ST
W 514TH ST
W 515TH ST
W 516TH ST
W 517TH ST
W 518TH ST
W 519TH ST
W 520TH ST
W 521ST ST
W 522ND ST
W 523RD ST
W 524TH ST
W 525TH ST
W 526TH ST
W 527TH ST
W 528TH ST
W 529TH ST
W 530TH ST
W 531ST ST
W 532ND ST
W 533RD ST
W 534TH ST
W 535TH ST
W 536TH ST
W 537TH ST
W 538TH ST
W 539TH ST
W 540TH ST
W 541ST ST
W 542ND ST
W 543RD ST
W 544TH ST
W 545TH ST
W 546TH ST
W 547TH ST
W 548TH ST
W 549TH ST
W 550TH ST
W 551ST ST
W 552ND ST
W 553RD ST
W 554TH ST
W 555TH ST
W 556TH ST
W 557TH ST
W 558TH ST
W 559TH ST
W 560TH ST
W 561ST ST
W 562ND ST
W 563RD ST
W 564TH ST
W 565TH ST
W 566TH ST
W 567TH ST
W 568TH ST
W 569TH ST
W 570TH ST
W 571ST ST
W 572ND ST
W 573RD ST
W 574TH ST
W 575TH ST
W 576TH ST
W 577TH ST
W 578TH ST
W 579TH ST
W 580TH ST
W 581ST ST
W 582ND ST
W 583RD ST
W 584TH ST
W 585TH ST
W 586TH ST
W 587TH ST
W 588TH ST
W 589TH ST
W 590TH ST
W 591ST ST
W 592ND ST
W 593RD ST
W 594TH ST
W 595TH ST
W 596TH ST
W 597TH ST
W 598TH ST
W 599TH ST
W 600TH ST
W 601ST ST
W 602ND ST
W 603RD ST
W 604TH ST
W 605TH ST
W 606TH ST
W 607TH ST
W 608TH ST
W 609TH ST
W 610TH ST
W 611TH ST
W 612TH ST
W 613TH ST
W 614TH ST
W 615TH ST
W 616TH ST
W 617TH ST
W 618TH ST
W 619TH ST
W 620TH ST
W 621ST ST
W 622ND ST
W 623RD ST
W 624TH ST
W 625TH ST
W 626TH ST
W 627TH ST
W 628TH ST
W 629TH ST
W 630TH ST
W 631ST ST
W 632ND ST
W 633RD ST
W 634TH ST
W 635TH ST
W 636TH ST
W 637TH ST
W 638TH ST
W 639TH ST
W 640TH ST
W 641ST ST
W 642ND ST
W 643RD ST
W 644TH ST
W 645TH ST
W 646TH ST
W 647TH ST
W 648TH ST
W 649TH ST
W 650TH ST
W 651ST ST
W 652ND ST
W 653RD ST
W 654TH ST
W 655TH ST
W 656TH ST
W 657TH ST
W 658TH ST
W 659TH ST
W 660TH ST
W 661ST ST
W 662ND ST
W 663RD ST
W 664TH ST
W 665TH ST
W 666TH ST
W 667TH ST
W 668TH ST
W 669TH ST
W 670TH ST
W 671ST ST
W 672ND ST
W 673RD ST
W 674TH ST
W 675TH ST
W 676TH ST
W 677TH ST
W 678TH ST
W 679TH ST
W 680TH ST
W 681ST ST
W 682ND ST
W 683RD ST
W 684TH ST
W 685TH ST
W 686TH ST
W 687TH ST
W 688TH ST
W 689TH ST
W 690TH ST
W 691ST ST
W 692ND ST
W 693RD ST
W 694TH ST
W 695TH ST
W 696TH ST
W 697TH ST
W 698TH ST
W 699TH ST
W 700TH ST
W 701ST ST
W 702ND ST
W 703RD ST
W 704TH ST
W 705TH ST
W 706TH ST
W 707TH ST
W 708TH ST
W 709TH ST
W 710TH ST
W 711TH ST
W 712TH ST
W 713TH ST
W 714TH ST
W 715TH ST
W 716TH ST
W 717TH ST
W 718TH ST
W 719TH ST
W 720TH ST
W 721ST ST
W 722ND ST
W 723RD ST
W 724TH ST
W 725TH ST
W 726TH ST
W 727TH ST
W 728TH ST
W 729TH ST
W 730TH ST
W 731ST ST
W 732ND ST
W 733RD ST
W 734TH ST
W 735TH ST
W 736TH ST
W 737TH ST
W 738TH ST
W 739TH ST
W 740TH ST
W 741ST ST
W 742ND ST
W 743RD ST
W 744TH ST
W 745TH ST
W 746TH ST
W 747TH ST
W 748TH ST
W 749TH ST
W 750TH ST
W 751ST ST
W 752ND ST
W 753RD ST
W 754TH ST
W 755TH ST
W 756TH ST
W 757TH ST
W 758TH ST
W 759TH ST
W 760TH ST
W 761ST ST
W 762ND ST
W 763RD ST
W 764TH ST
W 765TH ST
W 766TH ST
W 767TH ST
W 768TH ST
W 769TH ST
W 770TH ST
W 771ST ST
W 772ND ST
W 773RD ST
W 774TH ST
W 775TH ST
W 776TH ST
W 777TH ST
W 778TH ST
W 779TH ST
W 780TH ST
W 781ST ST
W 782ND ST
W 783RD ST
W 784TH ST
W 785TH ST
W 786TH ST
W 787TH ST
W 788TH ST
W 789TH ST
W 790TH ST
W 791ST ST
W 792ND ST
W 793RD ST
W 794TH ST
W 795TH ST
W 796TH ST
W 797TH ST
W 798TH ST
W 799TH ST
W 800TH ST
W 801ST ST
W 802ND ST
W 803RD ST
W 804TH ST
W 805TH ST
W 806TH ST
W 807TH ST
W 808TH ST
W 809TH ST
W 810TH ST
W 811TH ST
W 812TH ST
W 813TH ST
W 814TH ST
W 815TH ST
W 816TH ST
W 817TH ST
W 818TH ST
W 819TH ST
W 820TH ST
W 821ST ST
W 822ND ST
W 823RD ST
W 824TH ST
W 825TH ST
W 826TH ST
W 827TH ST
W 828TH ST
W 829TH ST
W 830TH ST
W 831ST ST
W 832ND ST
W 833RD ST
W 834TH ST
W 835TH ST
W 836TH ST
W 837TH ST
W 838TH ST
W 839TH ST
W 840TH ST
W 841ST ST
W 842ND ST
W 843RD ST
W 844TH ST
W 845TH ST
W 846TH ST
W 847TH ST
W 848TH ST
W 849TH ST
W 850TH ST
W 851ST ST
W 852ND ST
W 853RD ST
W 854TH ST
W 855TH ST
W 856TH ST
W 857TH ST
W 858TH ST
W 859TH ST
W 860TH ST
W 861ST ST
W 862ND ST
W 863RD ST
W 864TH ST
W 865TH ST
W 866TH ST
W 867TH ST
W 868TH ST
W 869TH ST
W 870TH ST
W 871ST ST
W 872ND ST
W 873RD ST
W 874TH ST
W 875TH ST
W 876TH ST
W 877TH ST
W 878TH ST
W 879TH ST
W 880TH ST
W 881ST ST
W 882ND ST
W 883RD ST
W 884TH ST
W 885TH ST
W 886TH ST
W 887TH ST
W 888TH ST
W 889TH ST
W 890TH ST
W 891ST ST
W 892ND ST
W 893RD ST
W 894TH ST
W 895TH ST
W 896TH ST
W 897TH ST
W 898TH ST
W 899TH ST
W 900TH ST
W 901ST ST
W 902ND ST
W 903RD ST
W 904TH ST
W 905TH ST
W 906TH ST
W 907TH ST
W 908TH ST
W 909TH ST
W 910TH ST
W 911TH ST
W 912TH ST
W 913TH ST
W 914TH ST
W 915TH ST
W 916TH ST
W 917TH ST
W 918TH ST
W 919TH ST
W 920TH ST
W 921ST ST
W 922ND ST
W 923RD ST
W 924TH ST
W 925TH ST
W 926TH ST
W 927TH ST
W 928TH ST
W 929TH ST
W 930TH ST
W 931ST ST
W 932ND ST
W 933RD ST
W 934TH ST
W 935TH ST
W 936TH ST
W 937TH ST
W 938TH ST
W 939TH ST
W 940TH ST
W 941ST ST
W 942ND ST
W 943RD ST
W 944TH ST
W 945TH ST
W 946TH ST
W 947TH ST
W 948TH ST
W 949TH ST
W 950TH ST
W 951ST ST
W 952ND ST
W 953RD ST
W 954TH ST
W 955TH ST
W 956TH ST
W 957TH ST
W 958TH ST
W 959TH ST
W 960TH ST
W 961ST ST
W 962ND ST
W 963RD ST
W 964TH ST
W 965TH ST
W 966TH ST
W 967TH ST
W 968TH ST
W 969TH ST
W 970TH ST
W 971ST ST
W 972ND ST
W 973RD ST
W 974TH ST
W 975TH ST
W 976TH ST
W 977TH ST
W 978TH ST
W 979TH ST
W 980TH ST
W 981ST ST
W 982ND ST
W 983RD ST
W 984TH ST
W 985TH ST
W 986TH ST
W 987TH ST
W 988TH ST
W 989TH ST
W 990TH ST
W 991ST ST
W 992ND ST
W 993RD ST
W 994TH ST
W 995TH ST
W 996TH ST
W 997TH ST
W 998TH ST
W 999TH ST
W 1000TH ST
Service Area
Wickett
FARM RD 1218
RANCH RD 1218

RE: Application to Renew Permit No. WQ0010622001 - Notice of Deficiency Letter

Sarah Fernandez <sfernandez@jacobmartin.com>
Mon 6/24/2024 2:05 PM
To:Savannah Jackson <Savannah.Jackson@tceq.texas.gov>;cityofwickett@gmail.com <cityofwickett@gmail.com>
Cc:Erwin Madrid <Erwin.Madrid@tceq.texas.gov>

1 attachments (382 KB)
Permit No. WQ0010622001 City of Wickett - Notice of Deficiency.pdf;

Good Afternoon Savannah,

Hope all is well! I have attached the NOD Response on behalf of the City of Wickett, please let me know if you need anything else, thank you again for your time and attention. Have a great rest of your day!

Sarah Fernandez

JACOB | MARTIN
3465 Curry Lane
Abilene, TX 79606
Ofc) 325.695.1070

From: Savannah Jackson <Savannah.Jackson@tceq.texas.gov>
Sent: Thursday, June 20, 2024 11:35 AM
To: cityofwickett@gmail.com
Cc: Sarah Fernandez <sfernandez@jacobmartin.com>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Subject: Application to Renew Permit No. WQ0010622001 - Notice of Deficiency Letter

Dear Ms. Lorinda Gibson,

The attached Notice of Deficiency letter sent on June 20, 2024, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by July 4, 2024.

Thank you,

Savannah Jackson

Texas Commission on Environmental Quality

Water Quality Division

512-239-4306
savannah.jackson@tceq.texas.gov