

Administrative Package Cover Page

This file contains the following documents:

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

City of Panhandle (CN600647234) operates City of Panhandle Wastewater Treatment Plant (RN102976131), a facultative pond system. The facility is located at 2500 feet east of the intersection of US Highway 60 and State Highway 293, in Panhandle, Carson County, Texas 79068. This permit application is a renewal without changes to dispose of treated wastewater at a rate not to exceed 0.280 million gallons per day on 75 acres of non-public access land. Effluent from the plant flows through a 12-inch pipe to a playa basin immediately southeast of the facility and is then irrigated on 75 acres of farmland. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD₅. Domestic wastewater is treated by facultative pond system consisting of a bar-screen, one facultative lagoon and one holding pond.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010359001

APPLICATION. City of Panhandle, P.O. Box 129, Panhandle, Texas 79068, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010359001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 280,000 gallons per day via surface irrigation of 75 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 2,500 feet east of the intersection of U.S. Highway 60 and State Highway 293, in Carson County, Texas 79068. TCEQ received this application on July 7, 2025. The permit application will be available for viewing and copying at Panhandle City Hall, Lobby and Front Desk, 1 Main Street, Panhandle, in Carson 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

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=-101.355,35.3481&level=18

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

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

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

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

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

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

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

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 Panhandle at the address stated above or by calling Mr. Terry Coffee, City Manager, at 806-336-9945.

Issuance Date: August 6, 2025

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

| APPLICANT NAME: City of Panhandle |
|-----------------------------------|
|-----------------------------------|

PERMIT NUMBER (If new, leave blank): WQ00<u>10359001</u>

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

| | Y | N | | Y | N |
|------------------------------|-------------|-------------|--------------------------|-------------|-------------|
| Administrative Report 1.0 | \boxtimes | | Original USGS Map | \boxtimes | |
| Administrative Report 1.1 | | \boxtimes | Affected Landowners Map | | \boxtimes |
| SPIF | | \boxtimes | Landowner Disk or Labels | | \boxtimes |
| Core Data Form | \boxtimes | | Buffer Zone Map | | \boxtimes |
| Summary of Application (PLS) | \boxtimes | | Flow Diagram | \boxtimes | |
| Public Involvement Plan Form | | | Site Drawing | \boxtimes | |
| Technical Report 1.0 | \boxtimes | | Original Photographs | | \boxtimes |
| Technical Report 1.1 | | \boxtimes | Design Calculations | | \boxtimes |
| Worksheet 2.0 | | \boxtimes | Solids Management Plan | | \boxtimes |
| Worksheet 2.1 | | \boxtimes | Water Balance | | \boxtimes |
| Worksheet 3.0 | \boxtimes | | | | |
| Worksheet 3.1 | | \boxtimes | | | |
| Worksheet 3.2 | | \boxtimes | | | |
| Worksheet 3.3 | | \boxtimes | | | |
| Worksheet 4.0 | | \boxtimes | | | |
| Worksheet 5.0 | | \boxtimes | | | |
| Worksheet 6.0 | \boxtimes | | | | |
| Worksheet 7.0 | | \boxtimes | | | |
| | | | | | |
| For TCEQ Use Only | | | | | |
| | | | | | |
| | | | County | | |
| Permit Number | | | KCG1011 | | |

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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 □

| Dav | mont | Infor | matio | n |
|-----|------|-------|--------|-----|
| Pav | ment | шоі | IIIauo | 11: |

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes □

Section 2. Type of Application (Instructions Page 26)

| a. | Che | ck the box next to the appropriate authorization type. | | | | | |
|----|-------------|--|--|--|--|--|--|
| | \boxtimes | Publicly Owned Domestic Wastewater | | | | | |
| | | Privately-Owned Domestic Wastewater | | | | | |
| | | Conventional Water Treatment | | | | | |
| b. | Che | ck the box next to the appropriate facility status. | | | | | |
| | \boxtimes | Active Inactive | | | | | |
| | | | | | | | |

| C. | Che □ | reck the box next to the appropriate permit typ TPDES Permit TLAP | e. | |
|----|-------------|---|--------|--|
| | | TPDES Permit with TLAP component Subsurface Area Drip Dispersal System (SAD | DS) | |
| d. | Che | eck the box next to the appropriate application New | | e |
| | | Major Amendment <u>with</u> Renewal | | Minor Amendment with Renewal |
| | | Major Amendment <u>without</u> Renewal | | Minor Amendment <u>without</u> Renewal |
| | \boxtimes | Renewal without changes | | Minor Modification of permit |
| e. | For | amendments or modifications, describe the p | ropo | osed changes: Click to enter text. |
| f. | For | existing permits: | | |
| | Peri | mit Number: WQ00 <u>10359001</u> | | |
| | EPA | I.D. (TPDES only): TX <u>N/A</u> | | |
| | Exp | iration Date: <u>12/01/2025</u> | | |
| Se | ctio | on 3. Facility Owner (Applicant) a (Instructions Page 26) | nd | Co-Applicant Information |
| Α. | The | e owner of the facility must apply for the per | mit. | |
| | Wha | at is the Legal Name of the entity (applicant) a | pply | ing for this permit? |
| | City | of Panhandle | | |
| | | e legal name must be spelled exactly as filed w legal documents forming the entity.) | ith tì | he Texas Secretary of State, County, or in |
| | | ne applicant is currently a customer with the T n may search for your CN on the TCEQ website | | |
| | (| CN: <u>600647234</u> | | |
| | Wha | at is the name and title of the person signing t | he a | pplication? The person must be an |

executive official meeting signatory requirements in *30 TAC § 305.44*.

Prefix: Mr.

Last Name, First Name: Robinson, Doyle

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?

N/A

(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. Appendix A: Core Data Form

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Coffee, Terry

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

Organization Name: City of Panhandle

Mailing Address: PO Box 129 City, State, Zip Code: Panhandle, TX 79068

Phone No.: (806)336-9945 E-mail Address: tcoffee@cityofpanhandle.com

Check one or both: oxdot Administrative Contact oxdot Technical Contact

B. Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: <u>Civil Engineer</u> Credential: <u>P.E.</u>

Organization Name: <u>Parkhill</u>

Mailing Address: 4222 85th St. City, State, Zip Code: <u>Lubbock, TX 79423</u>

Phone No.: <u>(806)473-3715</u> E-mail Address: <u>PKrueger@Parkhill.com</u>

Check one or both: extstyle exts

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Coffee, Terry

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

Organization Name: <u>City of Panhandle</u>

Mailing Address: PO Box 129 City, State, Zip Code: Panhandle, TX 79068

Phone No.: <u>(806)336-9945</u> E-mail Address: <u>tcoffee@cityofpanhandle.com</u>

B. Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: <u>Civil Engineer</u> Credential: <u>P.E.</u>

Organization Name: Parkhill

Mailing Address: 4222 85th St. City, State, Zip Code: <u>Lubbock, TX 79423</u>

Phone No.: <u>(806)473-3715</u> E-mail Address: <u>PKrueger@Parkhill.com</u>

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Coffee, Terry

Title: City Manager Credential: Click to enter text.

Organization Name: City of Panhandle

Mailing Address: PO Box 129 City, State, Zip Code: Panhandle, TX 79068

Phone No.: (806)336-9945 E-mail Address: tcoffee@cityofpanhandle.com

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

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

Prefix: Mr. Last Name, First Name: Watson, Shawn

Title: <u>Director of Public Works</u> Credential: Click to enter text.

Organization Name: City of Panhandle

Mailing Address: PO Box 129 City, State, Zip Code: Panhandle, TX 79068

Phone No.: (806)537-3517 E-mail Address: publicworks@cityofpanhandle.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Krueger, Paul

Title: <u>Civil Engineer</u> Credential: <u>P.E.</u>

Organization Name: Parkhill

Mailing Address: 4222 85th St. City, State, Zip Code: <u>Lubbock, TX 79423</u>

Phone No.: (806)473-3715 E-mail Address: PKrueger@Parkhill.com

| В. | | thod for Receiving Notice of kage | Receipt and Intent to Obtain a Water Quality Permit | | | | | |
|----|---|---|--|--|--|--|--|--|
| | Ind | icate by a check mark the pre | ferred method for receiving the first notice and instructions: | | | | | |
| | \boxtimes | E-mail Address | | | | | | |
| | | Fax | | | | | | |
| | \boxtimes | Regular Mail | | | | | | |
| C. | Cor | ntact permit to be listed in th | ie Notices | | | | | |
| | Pre | fix: <u>Mr.</u> | Last Name, First Name: <u>Coffee, Terry</u> | | | | | |
| | Titl | e: <u>City Manager</u> | Credential: Click to enter text. | | | | | |
| | Organization Name: <u>City of Panhandle</u> | | | | | | | |
| | Mai | ling Address: <u>PO Box 129</u> | City, State, Zip Code: Panhandle, TX 79068 | | | | | |
| | Pho | one No.: <u>(806)336-9945</u> | E-mail Address: tcoffee@cityofpanhandle.com | | | | | |
| D. | Puk | olic Viewing Information | | | | | | |
| | • | he facility or outfall is located inty must be provided. | in more than one county, a public viewing place for each | | | | | |
| | Pub | lic building name: City of Panl | nandle City Hall | | | | | |
| | Loc | ation within the building: <u>Lob</u> | by and Front Desk | | | | | |
| | Phy | rsical Address of Building: <u>1 M</u> | <u>[ain St.</u> | | | | | |
| | City | y: <u>Panhandle</u> | County: <u>Carson</u> | | | | | |
| | Cor | ntact (Last Name, First Name): | Coffee, Terry | | | | | |
| | | one No.: <u>(806)537-3517</u> Ext.: Cli | ck to enter text. | | | | | |
| Ε. | | ngual 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 altern below. | ative language notice is not required; skip to Section 9 | | | | | |
| | | Are the students who attend a bilingual education progran | either the elementary school or the middle school enrolled in at that school? | | | | | |
| | | □ Yes □ No | | | | | | |

| | 3. | Do the locatio | | at these | schools a | ttend | a bilingual | educa | tion prog | gram a | t another |
|----|------------|-----------------|---|-----------------|-------------------|--------------|-----------------------------|-----------------------|------------------|---------|----------------------------------|
| | | | Yes | | No | | | | | | |
| | 4. | | | | | | a bilingua TAC §89. | | | gram l | out the school has |
| | | | Yes | | No | | | | | | |
| | 5. | | • | _ | - | | or 4, public the bilingu | | | | tive language are enter text. |
| F. | Su | mmary | of Applic | ation in | Plain Lan | guage | Template | 2 | | | |
| | | | | | | | Plain Lang or PLS, and | | | | Form 20972), ment. |
| | At | tachme | nt: <u>Append</u> | ix C: Pla | <u>in Languag</u> | e Sum | <u>mary</u> | | | | |
| G. | Pu | blic Inv | olvement | Plan Fo | orm | | | | | | |
| | | | | | | | (TCEQ For nit and inc | | | | plication for a t. |
| | At | tachme | nt: <u>N/A</u> | | | | | | | | |
| | | | | | | | | | | | |
| Se | cti | ion 9. | Regul Page 2 | | intity ar | ıd Pe | rmitted | Site 1 | Inform | ation | (Instructions |
| Α. | | | is currentl RN <u>1029761</u> | | ated by TC | EEQ, pr | ovide the | Regula | ted Entit | y Num | ber (RN) issued to |
| | | | e TCEQ's C currently | | | | /www15.to | ceq.tex | as.gov/ci | rpub/ | to determine if |
| B. | Na | me of p | project or s | ite (the | name kno | wn by | the comm | nunity | where lo | cated): | |
| | <u>Cit</u> | y of Pan | handle Was | <u>stewater</u> | <u>Treatment</u> | <u>Plant</u> | | | | | |
| C. | Ov | vner of | treatment | facility: | City of Par | handle | <u>2</u> | | | | |
| | Ov | vnership | of Facilit | y: 🖂 | Public | | Private | | Both | | Federal |
| D. | Ov | vner of l | land where | e treatm | ent facilit | y is or | will be: | | | | |
| | Pre | efix: <u>N/</u> | <u>A</u> | | Last | Name | , First Nan | ne: <u>N/<i>A</i></u> | <u>\</u> | | |
| | Tit | tle: <u>N/A</u> | | | Cred | lential | : <u>N/A</u> | | | | |
| | Or | ganizat | ion Name: | City of F | <u>Panhandle</u> | | | | | | |
| | Ma | ailing Ac | ddress: <u>PO</u> | Box 129 | | | City, State, | , Zip Co | ode: <u>Panh</u> | nandle, | TX 79068 |
| | Ph | one No. | : <u>(806)537</u> - | 5049 | E-m | nail Ad | dress: <u>pub</u> | licwork | s@cityofp | oanhan | dle.com |
| | | | | | _ | | the facility nstruction | | or co-ap | plican | t, attach a lease |
| | | Attach | ment: Clic | k to ent | er text. | | | | | | |

| | Prefix: Mr. | Last Name, First Name: <u>S. Joe, L. John, and Geraldine, Nunn</u> |
|----|--|--|
| | Title: Click to enter text. | Credential: Click to enter text. |
| | Organization Name: Click to ente | er text. |
| | Mailing Address: Click to enter to | ext. 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 agreement or deed recorded ease | person as the facility owner or co-applicant, attach a lease ement. See instructions. |
| | Attachment: Appendix B: Leas | se Agreement |
| F. | Owner sewage sludge disposal si property owned or controlled by | ite (if authorization is requested for sludge disposal on 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 ente | er text. |
| | Mailing Address: Click to enter to | ext. 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 agreement or deed recorded ease | person as the facility owner or co-applicant, attach a lease ement. See instructions. |
| | | |
| | Attachment: Click to enter te | ext. |
| | | |
| Se | | ge Information (Instructions Page 31) |
| | ection 10. TPDES Dischar | |
| | ection 10. TPDES Dischar | ge Information (Instructions Page 31) |
| | Is the wastewater treatment facil Yes No If no, or a new permit application | ge Information (Instructions Page 31) |
| | Is the wastewater treatment facil | ge Information (Instructions Page 31) lity location in the existing permit accurate? |
| | Is the wastewater treatment facil Yes No If no, or a new permit application | ge Information (Instructions Page 31) lity location in the existing permit accurate? |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only | ge Information (Instructions Page 31) lity location in the existing permit accurate? |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment p | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the d | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment p | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: d the discharge route(s) in the existing permit correct? |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment point of discharge and the discharge and the discharge 307: | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: d the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment proport of discharge and the | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: If the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 |
| A. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment perpoint of discharge and the discharge and th | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: If the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text. |
| А. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment proport of discharge and the | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: If the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text. s/are located: Click to enter text. |
| А. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment proport of discharge and the | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: If the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text. It is enter text. It is click to enter text. |
| А. | Is the wastewater treatment facil Yes No If no, or a new permit application N/A TLAP only Are the point(s) of discharge and Yes No If no, or a new or amendment proport of discharge and the | ge Information (Instructions Page 31) lity location in the existing permit accurate? on, please give an accurate description: If the discharge route(s) in the existing permit correct? permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text. It is enter text. |

E. Owner of effluent disposal site:

| | If yes , indicate by a check mark if: |
|----|--|
| | \square Authorization granted \square 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. |
| Se | ection 11. TLAP Disposal Information (Instructions Page 32) |
| | |
| Α. | 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: <u>Panhandle</u> |
| C. | County in which the disposal site is located: <u>Carson</u> |
| D. | For TLAPs , describe the routing of effluent from the treatment facility to the disposal site: |
| | Effluent from the plant flows through a 12-inch pipe to a playa basin immediately southeast of the |
| | facility then irrigated on 75 acres of farmland. |
| E. | For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall |
| | runoff might flow if not contained: McClellan Creek, Segment 0224A of the Red River Basin |
| So | ection 12 Missollaneous Information (Instructions Dags 22) |
| | ection 12. Miscellaneous Information (Instructions Page 32) |
| Α. | Is the facility located on or does the treated effluent cross American Indian Land? |
| | □ Yes ⊠ No |
| В. | If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate? |
| | □ Yes □ No ⊠ Not Applicable |
| | If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site. |
| | Click to enter text. |
| | |

| C. | Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application? |
|-------------|---|
| | □ Yes ⊠ No |
| | If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application: Click to enter text. |
| D. | Do you owe any fees to the TCEQ? |
| | □ Yes ⊠ No |
| | If yes , provide the following information: |
| | Account number: Click to enter text. |
| | Amount past due: Click to enter text. |
| E. | Do you owe any penalties to the TCEQ? |
| | □ Yes ⊠ No |
| | If yes , please provide the following information: |
| | Enforcement order number: Click to enter text. |
| | Amount past due: Click to enter text. |
| | |
| Se | ection 13. Attachments (Instructions Page 33) |
| In | dicate which attachments are included with the Administrative Report. Check all that apply: |
| \boxtimes | 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. |
| \boxtimes | 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) |

Other Attachments. Please specify: Appendix A: Core Data Form, Appendix B: Lease Agreement

All ponds.

Attachment 1 for Individuals as co-applicants

 \boxtimes

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: <u>WQ0010359001</u> Applicant: <u>City of Panhandle</u>

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) |): <u>Doyle Robinson</u> | | | |
|-----------------------------------|--------------------------|-------|--------|--|
| Signatory title: <u>Mayor</u> | | | | |
| | | | | |
| Signature: | | Date: | | |
| (Use blue ink) | | | | |
| | | | | |
| Subscribed and Sworn to before n | ne by the said | | | |
| on this | _day of | | , 20 | |
| My commission expires on the | day of | | , 20 | |
| | | | | |
| | | | | |
| | | | | |
| Notary Public | | | [SEAL] | |
| | | | | |
| | | | | |
| County, Texas | | | | |
| | | | | |

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

A.

B.

C.

D.

E.

Section 1. Affected Landowner Information (Instructions Page 36)

| | cate by a check mark that the landowners map or drawing, with scale, includes the owing 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 | | | | |
| add | Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided. | | | | |
| □ labe | ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160). | | | | |
| Prov | vide the source of the landowners' names and mailing addresses: Click to enter text. | | | | |
| | As required by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by this application? | | | | |
| [| □ Yes □ No | | | | |
| | | | | | |

| | • | 'es , d(s | provide the location and foreseeable impacts and effects this application has on the): |
|-----|------------|---------------------|---|
| | Cl | ick | to enter text. |
| | | | |
| Se | cti | on | 2. Original Photographs (Instructions Page 38) |
| Pro | ovid | e o | riginal ground level photographs. Indicate with checkmarks that the following on is provided. |
| | | A | t least one original photograph of the new or expanded treatment unit location |
| | | d a e | t least two photographs of the existing/proposed point of discharge and as much area ownstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to n open water body (e.g., lake, bay), the point of discharge should be in the right or left dge of each photograph showing the open water and with as much area on each espective side of the discharge as can be captured. |
| | | A | t least one photograph of the existing/proposed effluent disposal site |
| | | A | plot plan or map showing the location and direction of each photograph |
| Se | cti | on | 3. Buffer Zone Map (Instructions Page 38) |
| | But inf | ffer orn | zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the following nation. The applicant's property line and the buffer zone line may be distinguished by dashes or symbols and appropriate labels. |
| | | • | The applicant's property boundary; The required buffer zone; and Each treatment unit; and The distance from each treatment unit to the property boundaries. |
| В. | | | zone compliance method. Indicate how the buffer zone requirements will be met. all that apply. |
| | | | Ownership |
| | | | Restrictive easement |
| | | | Nuisance odor control |
| | | | Variance |
| C. | | | table site characteristics. Does the facility comply with the requirements regarding table site characteristic found in 30 TAC § 309.13(a) through (d)? |
| | | | Yes |

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: N/A

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

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality

Texas Commission on Environmental Quality

Financial Administration Division Financial Administration Division

Cashier's Office, MC-214
P.O. Box 13088
Austin, Texas 78711-3088
Cashier's Office, MC-214
12100 Park 35 Circle
Austin, Texas 78753

Fee Code: WQP Waste Permit No: WQ0010359001

1. Check or Money Order Number: Click to enter text.

2. Check or Money Order Amount: Click to enter text.

3. Date of Check or Money Order: Click to enter text.

4. Name on Check or Money Order: Click to enter text.

5. APPLICATION INFORMATION

Name of Project or Site: City of Panhandle Wastewater Treatment Plant

Physical Address of Project or Site: Click to enter text.

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

| PP | | | | |
|---|--|--|---|---|
| Core Data Form (TCEQ Form No. 10400) (Required for all application types. Must be completed in its entirety of Note: Form may be signed by applicant representative.) | and s | igned. | | Yes |
| Correct and Current Industrial Wastewater Permit Application Form (TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or late | | | | Yes |
| Water Quality Permit Payment Submittal Form (Page 19) (Original payment sent to TCEQ Revenue Section. See instructions for | r mai | iling ad | ⊠ dress | Yes |
| 7.5 Minute USGS Quadrangle Topographic Map Attached (Full-size map if seeking "New" permit. 8 ½ x 11 acceptable for Renewals and Amendments) | | | \boxtimes | Yes |
| Current/Non-Expired, Executed Lease Agreement or Easement | | N/A | \boxtimes | Yes |
| Landowners Map (See instructions for landowner requirements) | \boxtimes | N/A | | Yes |
| Things to Know: All the items shown on the map must be labeled. The applicant's complete property boundaries must be deboundaries of contiguous property owned by the applicant. The applicant cannot be its own adjacent landowner. You landowners immediately adjacent to their property, regar from the actual facility. If the applicant's property is adjacent to a road, creek, or on the opposite side must be identified. Although the proapplicant's property boundary, they are considered poten If the adjacent road is a divided highway as identified on map, the applicant does not have to identify the landowner the highway. | nt. mus dless strea perti tially the U | t idention of how am, the es are to affectors | ify the value of the control of the | e they are owners djacent to ndowners. aphic |
| Landowners Labels and Cross Reference List (See instructions for landowner requirements) | | N/A | | Yes |
| Electronic Application Submittal (See application submittal requirements on page 23 of the instruction | 1s.) | | \boxtimes | Yes |
| Original signature per 30 TAC § 305.44 - Blue Ink Preferred (If signature page is not signed by an elected official or principle executed a copy of signature authority/delegation letter must be attached) | cutive | e office | r, | Yes |

Summary of Application (in Plain Language)

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 42)

A. Existing/Interim I Phase

Design Flow (MGD): <u>0.280</u> 2-Hr Peak Flow (MGD): 1.070

Estimated construction start date: N/A

Estimated waste disposal start date: <u>09/24/2004</u>

B. Interim II Phase

Design Flow (MGD): <u>N/A</u> 2-Hr Peak Flow (MGD): <u>N/A</u>

Estimated construction start date: <u>N/A</u>
Estimated waste disposal start date: <u>N/A</u>

C. Final Phase

Design Flow (MGD): <u>0.280</u> 2-Hr Peak Flow (MGD): <u>1.070</u>

Estimated construction start date: <u>N/A</u>
Estimated waste disposal start date: <u>N/A</u>

D. Current Operating Phase

Provide the startup date of the facility: 09/24/2004

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Facultative Pond System - Headworks (grinding, screening, flow measurement), (1) Lift Station (1) Facultative Lagoon, (1) Irrigation Holding Pond, (1) Playa Holding Pond

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) | | |
|---|-----------------|------------------------|--|--|
| Headworks (grinding, screening, flow measurement) | 1 | N/A | | |
| Facultative Lagoon | 1 | 723' x 241' x 7' | | |
| Irrigation Holding Pond | 1 | 723' x 241' x 7' | | |
| | | | | |
| | | | | |

C. Process Flow Diagram

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

Attachment: Appendix E: Flow Diagram

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

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

Latitude: N/ALongitude: N/A

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

• Latitude: 35°20'53" N

• Longitude: <u>-101°21'18" W</u>

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

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

| Drawing cription of the area | a served by the treatment | t facility. |
|---|---|--|
| tment facility is th | ne City of Panhandle. | |
| tion system, existi Please see the ins | ng and new, served by th | nis facility, including |
| Owner Name | Owner Type | Population Served |
| | Choose an item. | |
| mit contain a phasy the TCEQ? scussion regarding t justification ma | te that has not been cons the continued need for the result in the Executive | tructed within five the unbuilt phase. |
| | | |
| | cription of the area timent facility is the timent facility is the conformal was a please see the instruction of a permit that the contain a phase of the TCEQ? | cription of the area served by the treatment to the treatment to the facility is the City of Panhandle. On for wastewater TPDES permits only: Provided the provided served by the please see the instructions for a detailed of the consequence of the provided served by the please see the instructions for a detailed of the please see the instructio |

| 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. |
| Se | ection 6. Permit Specific Requirements (Instructions Page 44) r applicants with an existing permit, check the Other Requirements or Special |
| | ovisions of the permit. |
| Α. | 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: <u>07/08/2003</u> |
| | Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable . |
| | N/A |
| В. | 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. |
| | N/A |
| | |

| C. | Ot | her actions required by the current permit |
|----|-----|---|
| | sul | bes the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require bmission of any other information or other required actions? Examples include otification of Completion, progress reports, soil monitoring data, etc. |
| | | ⊠ Yes □ No |
| | | yes, provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> . |
| | | he City of Panhandle conducts annual soil monitoring on land receiving effluent irrigation, and coundwater monitoring once every 6 months. |
| D | C | |
| D. | | it and grease treatment Acceptance of grit and grease waste |
| | 1. | Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment? |
| | | □ Yes ⊠ No |
| | | If No, stop here and continue with Subsection E. Stormwater Management. |
| | 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.

| ### Click to enter text. ### Crease and decanted liquid disposal Note: A registration or permit is required for grease disposal. Grease sha combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant Click to enter text. ################################### | |
|--|------------------|
| Note: A registration or permit is required for grease disposal. Grease sha combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant click to enter text. Click to enter text. | |
| Note: A registration or permit is required for grease disposal. Grease sha combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant click to enter text. Click to enter text. | |
| Note: A registration or permit is required for grease disposal. Grease sha combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant click to enter text. Click to enter text. | |
| Note: A registration or permit is required for grease disposal. Grease sha combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant click to enter text. Click to enter text. | |
| Note: A registration or permit is required for grease disposal. Grease sha combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant click to enter text. Click to enter text. | |
| combined with treatment plant sludge. For more information, contact the Municipal Solid Waste team at 512-239-2335. Describe how the decant and grease are treated and disposed of after grant click to enter text. 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 Yes No If no to both of the above, then skip to Subsection F, Other Wastes Received: TYPES NO If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE 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 □ Yes ⋈ No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewag currently permitted under the TPDES Multi-Sector General Permit (MSGP) □ Yes □ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE 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 □ Yes ☑ No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewag currently permitted under the TPDES Multi-Sector General Permit (MSGP) □ Yes □ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | grit separation. |
| 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 □ Yes ⋈ No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewage currently permitted under the TPDES Multi-Sector General Permit (MSGP) □ Yes □ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
| 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 □ Yes ⋈ No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewage currently permitted under the TPDES Multi-Sector General Permit (MSGP) □ Yes □ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
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| □ Yes ⋈ No Does the facility have an approved pretreatment program, under 40 CFR □ Yes ⋈ No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewage currently permitted under the TPDES Multi-Sector General Permit (MSGP) □ Yes □ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
| Does the facility have an approved pretreatment program, under 40 CFR Yes No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewag currently permitted under the TPDES Multi-Sector General Permit (MSGP) Yes No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | 2? |
| ☐ Yes ☒ No If no to both of the above, then skip to Subsection F, Other Wastes Rece 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewag currently permitted under the TPDES Multi-Sector General Permit (MSGP) ☐ Yes ☐ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
| 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 currently permitted under the TPDES Multi-Sector General Permit (MSGP). □ Yes □ No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | FR Part 403? |
| 2. MSGP coverage Is the stormwater runoff from the WWTP and dedicated lands for sewag currently permitted under the TPDES Multi-Sector General Permit (MSGP) Yes No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
| Is the stormwater runoff from the WWTP and dedicated lands for sewag currently permitted under the TPDES Multi-Sector General Permit (MSGP) Yes No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | ceived. |
| currently permitted under the TPDES Multi-Sector General Permit (MSGP) Yes No If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
| If yes, please provide MSGP Authorization Number and skip to Subsection Wastes Received: TXR05 Click to enter text. or TXRNE Click to enter text. | |
| Wastes Received: TXR05 <u>Click to enter text.</u> or TXRNE <u>Click to enter text.</u> | |
| | tion F, Other |
| 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 per TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi 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. | Dis | scharges to the Lake Houston Watershed |
| | Do | es the facility discharge in the Lake Houston watershed? |
| | | □ Yes ⊠ No |
| | _ | ves, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text. |
| G. | Ot | her wastes received including sludge from other WWTPs and septic waste |
| | 1. | Acceptance of sludge from other WWTPs |
| | | Does or will the facility accept sludge from other treatment plants at the facility site? |
| | | □ Yes ⊠ No |
| | | If yes, attach sewage sludge solids management plan. See Example 5 of instructions. |
| | | In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an |
| | | estimate of the 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 BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

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| l | Click to enter text. |
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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. | | |
|----------------------|--|--|
| | | |
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Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)

Is the facility in operation?

⊠ Yes □ No

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

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 | 28.0 | 28.0 | 1 | Grab | 05/14/2025 @12:15pm |
| Total Suspended Solids, mg/l | 90.0 | 90.0 | 1 | Grab | 05/14/2025 @12:15pm |
| Ammonia Nitrogen, mg/l | 8.02 | 8.02 | 1 | Grab | 05/14/2025 @12:15pm |
| Nitrate Nitrogen, mg/l | <0.1 | <0.1 | 1 | Grab | 05/14/2025 @12:15pm |
| Total Kjeldahl Nitrogen, mg/l | 14.8 | 14.8 | 1 | Grab | 05/14/2025 @12:15pm |
| Sulfate, mg/l | 26.4 | 26.4 | 1 | Grab | 05/14/2025 @12:15pm |
| Chloride, mg/l | 74.3 | 74.3 | 1 | Grab | 05/14/2025 @12:15pm |
| Total Phosphorus, mg/l | 4.28 | 4.28 | 1 | Grab | 05/14/2025 @12:15pm |
| pH, standard units | 8.8 | 8.8 | 1 | Grab | 05/14/2025 @12:15pm |
| Dissolved Oxygen*, mg/l | N/A | N/A | N/A | N/A | N/A |
| Chlorine Residual, mg/l | <0.100 | <0.100 | 1 | Grab | 05/14/2025 @12:15pm |
| E.coli (CFU/100ml) freshwater | 205 | 205 | 1 | Grab | 05/14/2025 @12:15pm |
| Entercocci (CFU/100ml) saltwater | N/A | N/A | N/A | N/A | N/A |
| Total Dissolved Solids, mg/l | 480 | 480 | 1 | Grab | 05/14/2025 @12:15pm |
| Electrical Conductivity, µmohs/cm, † | 772 | 772 | 1 | Grab | 05/14/2025 @12:15pm |
| Oil & Grease, mg/l | <4.82 | <4.82 | 1 | Grab | 05/14/2025 @12:15pm |
| Alkalinity (CaCO ₃)*, mg/l | N/A | N/A | N/A | N/A | N/A |

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 | N/A | N/A | N/A | N/A | N/A |
| Total Dissolved Solids, mg/l | N/A | N/A | N/A | N/A | N/A |
| pH, standard units | N/A | N/A | N/A | N/A | N/A |
| Fluoride, mg/l | N/A | N/A | N/A | N/A | N/A |
| Aluminum, mg/l | N/A | N/A | N/A | N/A | N/A |

^{*}TPDES permits only †TLAP permits only

| Pollutant | Average Conc. | | No. of Samples | - | Sample Date/Time |
|---------------------------------------|------------------|-----|-------------------|-----|---------------------|
| Alkalinity (CaCO ₃), mg/l | N/A | N/A | N/A | N/A | N/A |

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Shawn Watson

Facility Operator's License Classification and Level: Class C WWTP Operator

Facility Operator's License Number: WW0033273

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

| A. | . WWTP's Sewage Sludge or Biosolids Management Facility Type | | | | | |
|----|--|---|--|--|--|--|
| | Che | eck all that apply. See instructions for guidance | | | | |
| | | Design flow>= 1 MGD | | | | |
| | | Serves >= 10,000 people | | | | |
| | | Class I Sludge Management Facility (per 40 CFR § 503.9) | | | | |
| | | Biosolids generator | | | | |
| | | Biosolids end user - land application (onsite) | | | | |
| | | Biosolids end user - surface disposal (onsite) | | | | |
| | | Biosolids end user – incinerator (onsite) | | | | |
| B. | ww | TP's Sewage Sludge or Biosolids Treatment Process | | | | |
| | Che | ck all that apply. See instructions for guidance. | | | | |
| | | Aerobic Digestion | | | | |
| | | Air Drying (or sludge drying beds) | | | | |
| | | Lower Temperature Composting | | | | |
| | | Lime Stabilization | | | | |
| | | Higher Temperature Composting | | | | |
| | | Heat Drying | | | | |
| | | Thermophilic Aerobic Digestion | | | | |
| | | Beta Ray Irradiation | | | | |
| | | Gamma Ray Irradiation | | | | |
| | | Pasteurization | | | | |
| | | Preliminary Operation (e.g. grinding, de-gritting, blending) | | | | |
| | | Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter) | | | | |

Sludge Lagoon

□ Temporary Storage (< 2 years)
 □ Long Term Storage (>= 2 years)
 □ Methane or Biogas Recovery
 □ Other Treatment Process: Click to enter text.

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

| Management Practice | Handler or Preparer Type | Bulk or Bag Container | Amount (dry metric tons) | Pathogen Reduction Options | Vector Attraction Reduction Option |
|------------------------|---------------------------------|--------------------------|--------------------------|----------------------------------|--|
| Storage | On-Site Owner or Operator | Not Applicable | | Class B: PSRP Equivalency | Option 5: Aerobic process for 14 days at >40C |

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: City of Panhandle Sanitary Landfill

TCEQ permit or registration number: <u>MSW1164</u> County where disposal site is located: <u>Carson</u>

E. Transportation method

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

Name of the hauler: <u>City of Panhandle</u> Hauler registration number: <u>22642</u>

Sludge is transported as a:

Liquid \square semi-liquid \square semi-solid \square solid \boxtimes

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

A. Beneficial use authorization

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

□ Yes ⊠ No

| If yes , are you requesting to continue beneficial use? | this authorizati | on to land | d app | ply biosolids for |
|---|--------------------|-------------|-------------|-------------------------|
| □ Yes □ No | | | | |
| If yes, is the completed Application for (TCEQ Form No. 10451) attached to the details)? | | | | |
| □ Yes □ No | | | | |
| B. Sludge processing authorization | | | | |
| Does the existing permit include authors storage or disposal options? | orization for an | y of the fo | ollow | ring sludge processing, |
| Sludge Composting | | Yes | \boxtimes | No |
| Marketing and Distribution of Bios | olids □ | Yes | \boxtimes | No |
| Sludge Surface Disposal or Sludge | Monofill \square | Yes | \boxtimes | No |
| Temporary storage in sludge lagoo | ns \square | Yes | \boxtimes | No |
| If yes to any of the above sludge optic authorization, is the completed Dome Technical Report (TCEQ Form No. 10 Yes No | stic Wastewate | r Permit A | \ppl | ication: Sewage Sludge |
| Section 11. Sewage Sludge Lago | oons (Instru | ctions F | age | 2 53) |
| Does this facility include sewage sludge la | agoons? | | | |
| □ Yes ⊠ No | | | | |
| If yes, complete the remainder of this sec | tion. If no, proc | eed to Sec | tion | 12. |
| A. Location information | | | | |
| The following maps are required to be provide the Attachment Number. | submitted as p | art of the | app | lication. For each map, |
| Original General Highway (Cour | nty) Map: | | | |
| Attachment: Click to enter text | 1 | | | |
| USDA Natural Resources Conse | rvation Service : | Soil Map: | | |
| Attachment : Click to enter text | <u>l</u> | | | |
| Federal Emergency Managemen | t Map: | | | |
| Attachment: Click to enter text | | | | |
| • Site map: | | | | |
| Attachment: Click to enter text | <u> </u> | | | |
| Discuss in a description if any of the fapply. | ollowing exist w | vithin the | lago | on area. Check all that |
| □ Overlap a designated 100-year | frequency floo | d plain | | |
| ☐ Soils with flooding classification | on | | | |

| | Overlap an unstable area | | | | |
|--|--|--|--|--|--|
| | Wetlands | | | | |
| | Located less than 60 meters from a fault | | | | |
| | None of the above | | | | |
| Att | rachment: 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. | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | 5 /1 1 | | | | |

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

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: <u>Click to enter text.</u> 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 54)

| Page 54) | |
|---|--------|
| A. Additional authorizations | |
| Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc? | |
| □ Yes ⊠ No | |
| If yes, provide the TCEQ authorization number and description of the authorization: | |
| Click to enter text. | |
| | |
| | |
| | |
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| | |
| | |
| 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 implement schedule, and the current status: | tation |
| Click to enter text. | |
| | |
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Section 13. RCRA/CERCLA Wastes (Instructions Page 55)

A. RCRA hazardous wastes

| RCRA hazardous waste? | | |
|---|--|--|
| □ Yes □ No | | |
| 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

B.

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

- The laboratory is an in-house laboratory and is:
 - o periodically inspected by the TCEQ; or
 - o located in another state and is accredited or inspected by that state; or
 - o performing work for another company with a unit located in the same site; or
 - 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.

| Title: <u>Mayor</u> |
|---------------------|
| Signature: |
| Date: |

Printed Name: Doyle Robinson

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

| A | T4'C'4' | - C . | | |
|----|----------------------|-------|--------|------|
| Α. | Justification | OI | permit | neea |

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. |
| В. | Re | gionalization of facilities |
| | | r additional guidance, please review <u>TCEQ's Regionalization Policy for Wastewater</u> eatment ¹ . |
| | | ovide the following information concerning the potential for regionalization of domest stewater 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 58) | | |
| Is this facility in operation? | | |
| □ Yes □ No | | |
| If no, proceed to Item B, Proposed Organic Loading. | | |
| If yes, provide organic loading information in Item A, Current Organic Loading | | |
| A. Current organic loading | | |
| Facility Design Flow (flow being requested in application): Click to enter text. | | |
| Average Influent Organic Strength or BOD 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): $\underline{\text{Click}}$ 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 58)

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: <u>Click to enter text.</u>
Total Phosphorus, mg/l: <u>Click to enter text.</u>
Dissolved Oxygen, mg/l: <u>Click to enter text.</u>

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: <u>Click to enter text.</u> | | |
| | □ Ultraviolet Light: <u>Click to enter text.</u> seconds contact time at peak flow | | |
| | □ Other: Click to enter text. | | |
| Se | ction 4. Design Calculations (Instructions Page 58) | | |
| | each design calculations and plant features for each proposed phase. Example 4 of the | | |
| | tructions includes sample design calculations and plant features. | | |
| | Attachment: Click to enter text. | | |
| Ç0 | ction 5. Facility Site (Instructions Page 59) | | |
| 3 E | ction 5. Facility Site (Instructions Page 59) | | |
| A. | 100-year floodplain | | |
| | Will the proposed facilities be located <u>above</u> 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. |
| Se | ection 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59) |
| Α. | 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. |
| Se | ection 7. Sewage Sludge Solids Management Plan (Instructions Page 60) |
| | |

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 63) |
|---|
| Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge? |
| ☐ Yes ☐ No |
| If no , proceed it Section 2. If yes , provide the following: |
| Owner of the drinking water supply: <u>Click to enter text.</u> |
| Distance and direction to the intake: <u>Click to enter text.</u> |
| Attach a USGS map that identifies the location of the intake. |
| Attachment: Click to enter text. |
| Section 2. Discharge into Tidally Affected Waters (Instructions Page 63) |
| Does the facility discharge into tidally affected waters? |
| □ Yes □ No |
| If 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. |

| 26 | ection | 5. Classified Segments (instructions Page 63) |
|----|-------------------|--|
| Is | the disc | harge directly into (or within 300 feet of) a classified segment? |
| | □ Ye | es 🗆 No |
| If | yes , this | s Worksheet is complete. |
| If | no , com | plete Sections 4 and 5 of this Worksheet. |
| Se | ection | 4. Description of Immediate Receiving Waters (Instructions |
| | | Page 63) |
| Na | ame of t | he immediate receiving waters: <u>Click to enter text.</u> |
| A. | Receiv | ring water type |
| | Identif | y the appropriate description of the receiving waters. |
| | | Stream |
| | | Freshwater Swamp or Marsh |
| | | Lake or Pond |
| | | Surface area, in acres: Click to enter text. |
| | | Average depth of the entire water body, in feet: Click to enter text. |
| | | Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text. |
| | | Man-made Channel or Ditch |
| | | Open Bay |
| | | Tidal Stream, Bayou, or Marsh |
| | | Other, specify: <u>Click to enter text.</u> |
| B. | Flow c | haracteristics |
| | existin | eam, man-made channel or ditch was checked above, provide the following. For g discharges, check one of the following that best characterizes the area <i>upstream</i> discharge. For new discharges, characterize the area <i>downstream</i> of the discharge one). |
| | | Intermittent - dry for at least one week during most years |
| | □ ma | Intermittent with Perennial Pools - enduring pools with sufficient habitat to intain significant aquatic life uses |
| | | Perennial - normally flowing |
| | Check discha | the method used to characterize the area upstream (or downstream for new rgers). |
| | | USGS flow records |
| | | Historical observation by adjacent landowners |
| | | Personal observation |
| | | Other, specify: Click to enter text. |

| | | e names of all perennial streams tha cream of the discharge point. | it joii | n the receiving water within three miles | | | |
|----|--|---|---------|--|--|--|--|
| | Click | to enter text. | | | | | |
| D. | Downs | tream characteristics | | | | | |
| | dischar | ge (e.g., natural or man-made dams | _ | rithin three miles downstream of the ads, reservoirs, etc.)? | | | |
| | | Yes □ No | | | | | |
| | | discuss how. | | | | | |
| | Click | to enter text. | | | | | |
| F | Norma | l dry weather characteristics | | | | | |
| L. | | • | body | during normal dry weather conditions. | | | |
| | Provide general observations of the water body during normal dry weather conditions. Click to enter text. | | | | | | |
| | Date a | nd time of observation: Click to ente | er tex | ct. | | | |
| | Was th | e water body influenced by stormwa | ater 1 | runoff during observations? | | | |
| | | Yes □ No | | | | | |
| Se | ection | 5. General Characteristics Page 65) | s of | the Waterbody (Instructions | | | |
| A. | Upstre | am influences | | | | | |
| | | mmediate receiving water upstream ced by any of the following? Check | | ne discharge or proposed discharge site nat apply. | | | |
| | | Oil field activities | | Urban runoff | | | |
| | | Upstream discharges | | Agricultural runoff | | | |
| | | Septic tanks | | Other(s), specify: Click to enter text. | | | |

C. Downstream perennial confluences

B. Waterbody uses Observed or evidences of the following uses. Check all that apply. Livestock watering Contact recreation Irrigation withdrawal Non-contact recreation **Fishing Navigation** Domestic water supply Industrial water supply Park activities Other(s), specify: 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 65) | | | | | | | |
|--|--|--|--|--|--|--|--|
| Date of study: Click to enter text. Time of study: Click to enter text. | | | | | | | |
| Stream name: Click to enter text. | | | | | | | |
| Location: <u>Click to enter text.</u> | | | | | | | |
| 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 65) | | | | | | | |
| Number of stream bends that are well defined: Click to enter text. | | | | | | | |
| Number of stream bends that are moderately defined: Click to enter text. | | | | | | | |
| Number of stream bends that are poorly defined: Click to enter text. | | | | | | | |
| Number of riffles: Click to enter text. | | | | | | | |
| Evidence of flow fluctuations (check one): | | | | | | | |
| □ Minor □ moderate □ severe | | | | | | | |
| Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification. | | | | | | | |
| Click to enter text. | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 65)

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

| Identif | y the method of land disposal: | | | | | | | | |
|-------------|---|---|---------------------------------------|--|--|--|--|--|--|
| | Surface application | | Subsurface application | | | | | | |
| \boxtimes | Irrigation | | Subsurface soils absorption | | | | | | |
| | Drip irrigation system | | Subsurface area drip dispersal system | | | | | | |
| | Evaporation | Evapotranspiration beds | | | | | | | |
| | ☐ Other (describe in detail): <u>Click to enter text.</u> | | | | | | | | |
| | NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0. | | | | | | | | |
| For ex | For existing authorizations, provide Registration Number: Click to enter text. | | | | | | | | |

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

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

Table 3.0(1) - Land Application Site Crops

| Crop Type & Land Use | Irrigation Area (acres) | Effluent Application (GPD) | Public Access? Y/N |
|---------------------------------|----------------------------|----------------------------------|--------------------------|
| Agricultural - Wheat and Cotton | 75 | 280,000 | N |
| | | | |
| | | | |

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

Table 3.0(2) - Storage and Evaporation Ponds

| Pond Number | Surface Area (acres) | Storage Volume (acre-feet) | Dimensions | Liner Type |
|----------------------------|-------------------------|-------------------------------|------------------|---------------|
| Irrigation Holding Pond | 4 | 28 | 723' x 241' x 7' | Clay |
| Natural Playa Lake | Unknown | 511.6 | Unknown | Natural Clays |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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.

application site.

| Section 4. Flood and Runoff Protection (Instructions Page 6) | Section 4. | Flood and R | Runoff Protection | (Instructions | Page 67 |
|--|------------|-------------|-------------------|---------------|---------|
|--|------------|-------------|-------------------|---------------|---------|

| Is the land application site <u>within</u> the 100-year frequency flood level? \square Yes \boxtimes No |
|---|
| If yes, describe how the site will be protected from inundation. |
| N/A |
| Provide the source used to determine the 100-year frequency flood level: |
| FEMA |
| Provide a description of tailwater controls and rainfall run-on controls used for the land |

Land application will occur at a rate to avoid ponding and runoff and land application will not occur during rainfall events or when the soil is saturated or frozen.

Section 5. Annual Cropping Plan (Instructions Page 67)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: <u>Appendix I: Annual Cropping Plan</u>

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

Section 6. Well and Map Information (Instructions Page 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: Appendix J: Well Map and Info

- 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 |
|---------|------------|-------------------|----------------------------------|--------------------------------------|
| 646107 | Irrigation | Y | Cased | 500ft Buffer |

| Well ID | Well Use | Producing? Y/N | Open, cased, capped, or plugged? | Proposed Best Management Practice |
|---------|------------------------------|-------------------|----------------------------------|--------------------------------------|
| 646108 | Irrigation | Y | Cased | 500ft Buffer |
| 646103 | Irrigation | Y | Cased | 500ft Buffer |
| 96397 | Public Supply | Y | Cased | 500ft Buffer |
| 646109 | Public Supply | Y | Cased | 500ft Buffer |
| 646152 | Domestic | Y | Unknown | 500ft Buffer |
| 628738 | Irrigation | Y | Cased | Buffer |
| 171729 | Environmental Soil Boring | N | Plugged | Buffer |
| 676917 | Domestic | Y | Cased | Buffer |
| 96397 | Public Supply | Y | Cased | Buffer |
| 660623 | Domestic | Y | Cased | Buffer |
| 592364 | Domestic | Y | Cased | Buffers |

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

Attachment: Appendix J: Well Map and Info

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: Appendix K: Groundwater Quality

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 69)

A. Soil map

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

Attachment: Appendix L: Soil Map and Analysis

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: Appendix L: Soil Map and Analysis

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 |
|------------------------|--------------------------|-----------------------|--------------------------------|-------------------|
| Pullman Clay loam | 80 inches | 0.01 to 0.14 in/hr | 10.6 inches | 1 to 3% Slopes |
| Pantex Silty Clay loam | 80 inches | 0.01 to 0.14 in/hr | 11.2 inches | 0 to 1% Slopes |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

⊠ Yes □ No

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

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

Table 3.0(5) - Effluent Monitoring Data

| Date | 30 Day Avg Flow MGD | BOD5 mg/l | TSS mg/l | pН | Chlorine Residual mg/l | Acres irrigated |
|-----------|------------------------|--------------|-------------|-----|---------------------------|--------------------|
| Jan 2023 | 0.204 | 27 | N/A | 8.6 | | |
| Feb 2023 | 0.168 | 33 | N/A | 7.8 | | |
| Mar 2023 | 0.156 | 50 | N/A | 8.1 | | |
| Apr 2023 | 0.142 | 22 | N/A | 7.2 | | |
| May 2023 | 0.136 | 18 | N/A | 8.2 | | |
| June 2023 | 0.108 | 28 | N/A | 8.0 | | |
| July 2023 | 0.088 | 24 | N/A | 8.4 | | |

| Date | 30 Day Avg Flow MGD | BOD5 mg/l | TSS mg/l | pН | Chlorine Residual mg/l | Acres irrigated |
|-----------|------------------------|--------------|-------------|-----|---------------------------|--------------------|
| Aug 2023 | 0.093 | 26 | N/A | 8.7 | | |
| Sept 2023 | 0.108 | 34 | N/A | 8.6 | | |
| Oct 2023 | 0.094 | 45 | N/A | 8.6 | | |
| Nov 2023 | 0.099 | 47 | N/A | 8.3 | | |
| Dec 2023 | 0.109 | 46 | N/A | 8.4 | | |
| Jan 2024 | 0.098 | 50 | N/A | 8.2 | | |
| Feb 2024 | 0.109 | 36 | N/A | 8.3 | | |
| Mar 2024 | 0.105 | 46 | N/A | 8.3 | | |
| Apr 2024 | 0.335 | 36 | N/A | 8.6 | | |
| May 2024 | 0.107 | 57 | N/A | 8.4 | | |
| June 2024 | 0.122 | 41 | N/A | 8.3 | | |
| July 2024 | 0.126 | 39 | N/A | 8.6 | | |
| Aug 2024 | 0.146 | 56 | N/A | 8.7 | | |
| Sept 2024 | 0.131 | 51 | N/A | 8.2 | | |
| Oct 2024 | 0.125 | 50 | N/A | 8.0 | | |
| Nov 2024 | 0.169 | 38 | N/A | 8.4 | | |
| Dec 2024 | 0.134 | 58 | N/A | 8.6 | | |

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

| The average daily flowrate for April 2024 was abo | ove the permitted flow of 0.280 MGD due to |
|---|--|
| daily flowrates ranging from 0.889 to 1.05 MGD. | |
| | |

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

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

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

Design application frequency:

hours/day <u>Click to enter text.</u> And days/week <u>Click to enter text.</u>

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

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

Void ratio of soil in the beds: <u>Click to enter text.</u>

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 BOD₅ loading rate, in lbs BOD₅/acre/day: Click to enter text. Design application frequency: hours/day: Click to enter text. And days/week: Click to enter text. Attach a separate engineering report with the method of application and design requirements according to 30 TAC Chapter 217. Attachment: Click to enter text. Section 2. Edwards Aquifer (Instructions Page 72)

| Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules? |
|---|
| □ Yes □ No |
| If yes , is the facility located on the Edwards Aquifer Recharge Zone? |
| □ Yes □ No |
| If yes, attach a geological report addressing potential recharge features. |
| Attachment: Click to enter text. |

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

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

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

| Section 1. Subsurface Application (instructions Page 73) |
|---|
| Identify the type of system: |
| □ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD) |
| □ Low Pressure Dosing |
| □ Other, specify: <u>Click to enter text.</u> |
| Application area, in acres: Click to enter text. |
| Area of drainfield, in square feet: Click to enter text. |
| Application rate, in gal/square foot/day: Click to enter text. |
| Depth to groundwater, in feet: Click to enter text. |
| Area of trench, in square feet: Click to enter text. |
| Dosing duration per area, in hours: <u>Click to enter text.</u> |
| Number of beds: Click to enter text. |
| Dosing amount per area, in inches/day: Click to enter text. |
| Infiltration rate, in inches/hour: Click to enter text. |
| Storage volume, in gallons: <u>Click to enter text.</u> |
| Area of bed(s), in square feet: Click to enter text. |
| Soil Classification: <u>Click to enter text.</u> |
| Attach a separate engineering report with the information required in $30\ TAC\ \S\ 309.20$, excluding the requirements of $\S\ 309.20\ b(3)(A)$ and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation. |
| Attachment: Click to enter text. |
| Section 2. Edwards Aquifer (Instructions Page 73) |
| Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ? |
| □ Yes □ No |
| Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ? |
| □ Yes □ No |
| If yes to either question , the subsurface system may be prohibited by <i>30 TAC §213.8</i> . Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting. |

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

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

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

| Se | ction 1. Administrative Information (Instructions Page 74) |
|----|---|
| 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: |
| В. | <u>Click to enter text.</u> Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility? |
| | □ Yes □ No |
| | If 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: <u>Click to enter text.</u> |
| D. | Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located? |
| | □ Yes □ No |
| | If 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. |
| Е. | Owner of the land where the subsurface area drip dispersal system is located: <u>Click to enter text.</u> |
| F. | Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system? |
| | □ Yes □ No |
| | If 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

| A. | Type of system |
|----|---|
| | □ Subsurface Drip Irrigation |
| | □ Surface Drip Irrigation |
| | □ Other, specify: <u>Click to enter text.</u> |
| B. | Irrigation operations |
| | Application area, in acres: Click to enter text. |
| | Infiltration Rate, in inches/hour: Click to enter text. |
| | Average slope of the application area, percent (%): Click to enter text. |
| | Maximum slope of the application area, percent (%): Click to enter text. |
| | Storage volume, in gallons: <u>Click to enter text.</u> |
| | 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 <i>30 TAC § 222.83</i> 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 <i>30 TAC § 222.83</i> 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 <i>30 TAC §222.83</i> 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: <u>Click to enter text.</u> |

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. |
| Se | ction 3. Required Plans (Instructions Page 74) |
| A. | Recharge feature plan |
| | Attach a Recharge Feature Plan with all information required in 30 TAC §222.79. |
| | Attachment: Click to enter text. |
| 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. |
| Se | ction 4. Floodway Designation (Instructions Page 75) |
| | Site location |
| 7 X. | Is the existing/proposed land application site within a designated floodway? |
| | □ Yes □ No |
| В. | Flood map |
| | Attach either the FEMA flood map or alternate information used to determine the |
| | floodway. |
| | Attachment: Click to enter text. |
| Se | ction 5. Surface Waters in the State (Instructions Page 75) |

S

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.

| 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 75) |
| section of Lawards riquirer (mistractions rage 13) |
| 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 <i>30 TAC §213.8</i> . Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting. |

B. Buffer variance request

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

| For pollutants identified in Table $4.0(1)$, indicate the type of sa | mple. |
|---|-------|
|---|-------|

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 |
| Epichlorohydrin | | | | |
| Ethylbenzene | | | | 10 |
| Ethylene Glycol | | | | |
| Fluoride | | | | 500 |
| Guthion | | | | 0.1 |
| Heptachlor | | | | 0.01 |
| Heptachlor Epoxide | | | | 0.01 |
| Hexachlorobenzene | | | | 5 |
| Hexachlorobutadiene | | | | 10 |
| Hexachlorocyclohexane (alpha) | | | | 0.05 |
| Hexachlorocyclohexane (beta) | | | | 0.05 |
| gamma-Hexachlorocyclohexane | | | | 0.05 |
| (Lindane) | | | | |
| Hexachlorocyclopentadiene | | | | 10 |
| Hexachloroethane | | | | 20 |
| Hexachlorophene | | | | 10 |
| 4,4'-Isopropylidenediphenol | | | | 1 |
| Lead | | | | 0.5 |
| Malathion | | | | 0.1 |
| Mercury | | | | 0.005 |
| Methoxychlor | | | | 2 |
| Methyl Ethyl Ketone | | | | 50 |
| Methyl tert-butyl ether | | | | |
| Mirex | | | | 0.02 |
| Nickel | | | | 2 |
| Nitrate-Nitrogen | | | | 100 |
| Nitrobenzene | | | | 10 |
| N-Nitrosodiethylamine | | | | 20 |
| N-Nitroso-di-n-Butylamine | | | | 20 |
| Nonylphenol | | | | 333 |

| Pollutant | AVG Effluent Conc. (µg/l) | MAX Effluent Conc. (µg/l) | Number of Samples | MAL (μg/l) |
|--|---------------------------------|---------------------------------|----------------------|---------------|
| Parathion (ethyl) | | | | 0.1 |
| Pentachlorobenzene | | | | 20 |
| Pentachlorophenol | | | | 5 |
| Phenanthrene | | | | 10 |
| Polychlorinated Biphenyls (PCB's) (*3) | | | | 0.2 |
| Pyridine | | | | 20 |
| Selenium | | | | 5 |
| Silver | | | | 0.5 |
| 1,2,4,5-Tetrachlorobenzene | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | 10 |
| Tetrachloroethylene | | | | 10 |
| Thallium | | | | 0.5 |
| Toluene | | | | 10 |
| Toxaphene | | | | 0.3 |
| 2,4,5-TP (Silvex) | | | | 0.3 |
| Tributyltin (see instructions for explanation) | | | | 0.01 |
| 1,1,1-Trichloroethane | | | | 10 |
| 1,1,2-Trichloroethane | | | | 10 |
| Trichloroethylene | | | | 10 |
| 2,4,5-Trichlorophenol | | | | 50 |
| TTHM (Total Trihalomethanes) | | | | 10 |
| Vinyl Chloride | | | | 10 |
| Zinc | | | | 5 |

^(*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 1 | pollutants | identified | in Ta | bles 4.0 | 0(2)A-E, | indicate | type o | of samp | ole. |
|-------|------------|------------|-------|----------|----------|----------|--------|---------|------|
|-------|------------|------------|-------|----------|----------|----------|--------|---------|------|

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 | | | | 10 |
| [1,3-Dichloropropene] | | | | |
| 1,2-Trans-Dichloroethylene | | | | 10 |
| Ethylbenzene | | | | 10 |
| Methyl Bromide | | | | 50 |
| Methyl Chloride | | | | 50 |
| Methylene Chloride | | | | 20 |
| 1,1,2,2-Tetrachloroethane | | | | 10 |
| Tetrachloroethylene | | | | 10 |
| Toluene | | | | 10 |
| 1,1,1-Trichloroethane | | | | 10 |
| 1,1,2-Trichloroethane | | | | 10 |
| Trichloroethylene | | | | 10 |
| Vinyl Chloride | | | | 10 |

Table 4.0(2)C - Acid Compounds

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

Table 4.0(2)D - Base/Neutral Compounds

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

| 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 ${f or}$ 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 Equivalenc y Factors | Wastewater Concentration (ppq) | Wastewater Equivalents (ppq) | Sludge Concentration (ppt) | Sludge Equivalents (ppt) | MAL (ppq) |
|------------------------|----------------------------------|--------------------------------------|------------------------------------|----------------------------------|--------------------------------|--------------|
| 2,3,7,8 TCDD | 1 | | | | | 10 |
| 1,2,3,7,8 PeCDD | 0.5 | | | | | 50 |
| 2,3,7,8 HxCDDs | 0.1 | | | | | 50 |
| 1,2,3,4,6,7,8 HpCDD | 0.01 | | | | | 50 |
| 2,3,7,8 TCDF | 0.1 | | | | | 10 |
| 1,2,3,7,8 PeCDF | 0.05 | | | | | 50 |
| 2,3,4,7,8 PeCDF | 0.5 | | | | | 50 |
| 2,3,7,8 HxCDFs | 0.1 | | | | | 50 |
| 2,3,4,7,8 HpCDFs | 0.01 | | | | | 50 |
| OCDD | 0.0003 | | | | | 100 |
| OCDF | 0.0003 | | | | | 100 |
| PCB 77 | 0.0001 | | | | | 0.5 |
| PCB 81 | 0.0003 | | | | | 0.5 |
| PCB 126 | 0.1 | | | | | 0.5 |
| PCB 169 | 0.03 | | | | | 0.5 |
| Total | | | | | | |

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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

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

| Section 2. Toxicity Reduction Evaluations (TREs) | |
|--|---------|
| Has this facility completed a TRE in the past four and a half years? Or is the facility curperforming a TRE? | rently |
| □ Yes □ No | |
| If yes, describe the progress to date, if applicable, in identifying and confirming the tox | xicant. |
| 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 |
|-----------|--------------|---------------|-----------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
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| | | | |

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 87)

A. Industrial users (IUs)

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: o

Average Daily Flows, in MGD: o

Significant IUs – non-categorical:

Number of IUs: o

Average Daily Flows, in MGD: o

Other IUs:

Number of IUs: o

Average Daily Flows, in MGD: o

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. |
|----------------------|
| |
| |
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| |

| | 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 |
| L . | Does your POTW have an approved pretreatment program? |
| | □ Yes ⊠ No |
| | If yes, complete Section 2 only of this Worksheet. |
| | Is your POTW required to develop an approved pretreatment program? |
| | □ Yes ⊠ No |
| | |
| | If yes, complete Section 2.c. and 2.d. only, and skip Section 3. |
| | If yes, complete Section 2.c. and 2.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. |
| Se | If no to either question above, skip Section 2 and complete Section 3 for each significant |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. ection 2. POTWs with Approved Programs or Those Required to |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. **Ction 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) **Substantial modifications** Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? ■ Yes ■ No |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR \$403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification. |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR \$403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification. |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR \$403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification. |
| | If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 87) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR \$403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification. |

C. Treatment plant pass through

| | | ny non-substantial i e not been submitted | | | |
|-----|---------------------|---|-----|--------------------|--------------------|
| | □ Yes □ 1 | No | | | |
| | | non-substantial modose of the modifica | | ave not been subn | nitted to TCEQ, |
| | Click to enter tex | t. | | | |
| C. | Effluent paramete | ers above the MAL | | | |
| Tal | | t all parameters means the last three years | | | |
| P | ollutant | Concentration | MAL | Units | Date |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| D. | Industrial user int | terruptions | | | |
| | • | or other IU caused o ass throughs) at you | | , _ | luding |
| | □ Yes □ I | No | | | |
| | | e industry, describe nd probable polluta | | luding dates, dura | ation, description |
| | Click to enter tex | t. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

B. Non-substantial modifications

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

| | cutegorical maastrar oser (cro) (mstractions rage oo) |
|----|---|
| A. | General information |
| | Company Name: Click to enter text. |
| | SIC Code: Click to enter text. |
| | Contact name: Click to enter text. |
| | Address: Click to enter text. |
| | City, State, and Zip Code: Click to enter text. |
| | Telephone number: Click to enter text. |
| | Email address: <u>Click to enter text.</u> |
| 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

Intermittent

Batch

| Pretreatment standards |
|---|
| Is the SIU or CIU subject to technically based local limits as defined in the <i>i</i> nstructions? |
| □ Yes □ No |
| Is the SIU or CIU subject to categorical pretreatment standards found in 40 CFR Parts 405-471? |
| □ Yes □ No |
| If subject to categorical pretreatment standards , indicate the applicable category and subcategory for each categorical process. |
| Category: Subcategories: Click to enter text. |
| Click or tap here to enter text. Click to enter text. |
| Category: Click to enter text. |
| Subcategories: <u>Click to enter text.</u> |
| Category: Click to enter text. |
| Subcategories: <u>Click to enter text.</u> |
| Category: Click to enter text. |
| Subcategories: <u>Click to enter text.</u> |
| Category: Click to enter text. |
| Subcategories: <u>Click to enter text.</u> |
| Industrial user interruptions |
| Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years? |
| □ Yes □ No |
| If yes , identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants. |
| Click to enter text. |

E.

F.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

| For TCEQ Use Only | |
|-------------------|--|
| Reg. No | |
| Date Received | |
| Date Authorized | |

Section 1. General Information (Instructions Page 90)

| 1. | TCEQ Program | Area |
|----|--------------|------|
|----|--------------|------|

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

Program ID: Click to enter text.

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

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-immutes-seconds |
|--------|---|
| | Latitude: Click to enter text. |
| | Longitude: Click to enter text. |
| | Method of determination (GPS, TOPO, etc.): Click to enter text. |
| | Attach topographic quadrangle map as attachment A. |
| 6. | Well Information |
| | Type of Well Construction, select one: |
| | □ Vertical Injection |
| | □ Subsurface Fluid Distribution System |
| | □ Infiltration Gallery |
| | ☐ Temporary Injection Points |
| | □ Other, Specify: <u>Click to enter text.</u> |
| | Number of Injection Wells: Click to enter text. |
| 7. | Purpose |
| | Detailed Description regarding purpose of Injection System: |
| | Click to enter text. |
| | |
| | |
| | |
| | Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.) |
| 8. | Water Well Driller/Installer |
| | Water Well Driller/Installer Name: Click to enter text. |
| | City, State, and Zip Code: Click to enter text. |
| | Phone Number: Click to enter text. |
| | License Number: <u>Click to enter text.</u> |
| ectior | 1 2. Proposed Down Hole Design |
| | diagram signed and sealed by a licensed engineer as Attachment C. |
| | |
| | (1) - Down Hole Design Table |
| Vame o | of Size Setting Sacks Cement/Grout - Hole Weight |

Ta

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

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

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

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

| Section 4. | Site Hydrogeo | ological and In | jection 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: <u>Click to enter text.</u>
- 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): <u>Click to enter text.</u>
- 15. Injection wells within 1/4 mile radius (attach map as Attachment J): <u>Click to enter text.</u>
- 16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): 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: <u>Click to enter text.</u>
- **2.** Contamination Dates: Click to enter text.
- 3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): <u>Click to enter text.</u>
- **4.** Previous Remediation (attach results of any previous remediation as attachment M): Click to enter text.

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

Class V Injection Well Designations

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

Appendix A

Core Data Form



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.)

| ⊠ Renewal (C | Core Data Form should be | | Other | | | | | | |
|--------------------|--|--------------------------|------------------------------|--------------------|----------------|-------------------------|---------------------------------|--------------------|-----------------|
| 2. Customer R | Follow this lin | numbers | | egulated Entity Re | eference | Number (if | issued) | | |
| CN 60064723 | 34 | | <u>Central Re</u> | egistry** | RN | 102976131 | | | |
| ECTION | III: Custon | ner Infor | <u>mation</u> | | | | | | |
| 4. General Cus | stomer Information | 5. Effectiv | ve Date for Cus | stomer lı | nformation | Updates (mm/dd | /уууу) | | |
| New Custom | | Update to Cus | | | _ | nge in Regulated En | tity Own | ership | |
| Change in Leg | gal Name (Verifiable with | the Texas Secretary | of State or Texa | is Comptro | oller of Publi | c Accounts) | | | |
| | Name submitted here Comptroller of Public | | automatically | / based o | n what is o | current and active | e with th | ie Texas Seci | retary of State |
| 6. Customer L | egal Name (If an individ | ual, print last name | first: eg: Doe, Jo | ohn) | | <u>If new Customer,</u> | enter pre | evious Custom | er below: |
| City of Panhandl | le | | | | | | | | |
| 7. TX SOS/CPA | 8. TX Stat | te Tax ID (11 dig | 9. Federal Tax ID (9 digits) | | | ID | 10. DUNS Number (if applicable) | | |
| 11. Type of Cu | stomer: | orporation | | | ☐ Indivi | dual | Partne | I ership: 🔲 Ger | neral Limited |
| Government: 🗵 | City County Fede | eral 🗌 Local 🔲 Sta | ate 🗌 Other | | ☐ Sole F | Proprietorship | Ot | her: | |
| 12. Number of | f Employees | | | | | 13. Independe | ntly Ow | ned and Op | erated? |
| □ 0-20 □ 2: | 1-100 🗌 101-250 [| 251-500 50 | 01 and higher | | | Yes | ⊠ No | | |
| 14. Customer | Role (Proposed or Actua | l) – as it relates to ti | he Regulated En | tity listed | on this form. | Please check one o | f the follo | owing | |
| Owner Occupational | Operator Licensee Respons | <u> </u> | Owner & Operat | | | Other | : | | |
| 15. Mailing | PO Box 129 | | | | | | | | |
| Address: | City Declared | | CALL | TV | 715 | 70000 | | 710 : 4 | 1 |
| | City Panhandle | | State | TX | ZIP | 79068 | | ZIP + 4 | |
| 16. Country M | lailing Information (if a | outside USA) | | 1 | 7. E-Mail A | ddress (if applicab | le) | | |
| | | | | | | ofpanhandle.com | | | |

TCEQ-10400 (11/22) Page 1 of 3

| 18. Telephone Number | | | 19. Extension or | Code | | 20. Fax | Number (if a | pplicable) | |
|--|--------------|--------------------|--------------------------|-----------------|---------------|--------------|------------------|--------------|---------------------|
| (806) 336-9945 | | | | | | () | - | | |
| ECTION III: F | Regula | ated Ent | ity Inforn | nation | | | | | |
| 21. General Regulated Ent | ity Informa | ition (If 'New Reg | gulated Entity" is selec | cted, a new p | ermit applica | tion is also | o required.) | | |
| New Regulated Entity | Update to | Regulated Entity | Name 🔀 Update | to Regulated | Entity Inform | ation | | | |
| The Regulated Entity Namassinc, LP, or LLC). | ne submitte | d may be upda | ted, in order to me | et TCEQ Cor | e Data Star | ndards (r | emoval of or | ganizatior | nal endings such |
| 22. Regulated Entity Name | e (Enter nam | e of the site whe | re the regulated action | n is taking pla | ce.) | | | | |
| City of Panhandle Wastewater | r Treatment | Plant | | | | | | | |
| 23. Street Address of the Regulated Entity: | | | | | | | | | |
| | | T | | | T | | | | |
| (No PO Boxes) | City | | State | | ZIP | | | ZIP + 4 | |
| 24. County | Carson | | | | | | | | |
| | | If no Stre | et Address is provi | ded, fields 2 | 5-28 are re | quired. | | | |
| 25. Description to | 2 500 foot o | act of the interes | ction of U.S. Highway | 60 and Sato I | dighway 202 | east of th | o City of Panh | andle in Ca | rean County Toyas |
| Physical Location: | 2,300 leet e | ast of the interes | ction of 0.3. Highway | oo and sate i | ligitway 253, | east of th | e city of Failin | andie, in Ca | ison county, lexas. |
| 26. Nearest City | | | | | | State | | Nea | rest ZIP Code |
| Panhandle | | | | | | TX | | 790 | 58 |
| Latitude/Longitude are re used to supply coordinate | - | - | - | | ata Standa | ırds. (Ged | ocoding of th | e Physical | Address may be |
| 27. Latitude (N) In Decima | ıl: | 35.33472222 | | 28. L | ongitude (V | V) In Dec | imal: | 101.355 | |
| Degrees | Minutes | | Seconds | Degre | es | | Minutes | | Seconds |
| 35 | | 20 | 53 | | 101 | | 21 | | 18 |
| 29. Primary SIC Code | 30. | Secondary SIC | Code | 31. Prima | y NAICS Co | de | 32. Seco | ndary NAI | CS Code |
| (4 digits) | (4 d | igits) | | (5 or 6 digi | ts) | | (5 or 6 dig | gits) | |
| 4952 | | | | 221320 | | | | | |
| 33. What is the Primary B | usiness of t | his entity? (D | o not repeat the SIC o | r NAICS descr | iption.) | | | | |
| Domestic Wastewater Treatm | ent | | | | | | | | |
| 34. Mailing | | | | | | | | | |
| · · | PO Box 12 | 9 | | | | | | | |
| Address: | City | Panhandle | State | тх | ZIP | 79068 | | ZIP + 4 | |
| 35. E-Mail Address: | tcol | fee@cityofpanha | andle.com | | | | | | |
| 36. Telephone Number | | | 37. Extension or | Code | 38. F | ax Numb | er (if applicab | ıle) | |

TCEQ-10400 (11/22) Page 2 of 3

() -

(806) 336-9945

| _ | | mbers Check all Prograi ructions for additional g | | ts/registration | numbers | s that will be affected | by the updates submitted on this |
|-------------------------|----------------|---|---------------------|-----------------------|--------------------|-------------------------|---|
| Dam Safety Districts | | Districts | ☐ Edwards Aquifer | | Emiss | sions Inventory Air | ☐ Industrial Hazardous Wast |
| ☐ Municipal Solid Waste | | New Source Review Air | OSSF | | ☐ Petroleum Storag | | □ PWS |
| Sludge | | Storm Water | ☐ Title V Air | | Tires | | Used Oil |
| ☐ Voluntary Clear | nup | | ☐ Wastewater Agricu | lture | ☐ Wate | r Rights | Other: |
| | | WQ0010359001 | | | | | |
| SECTION | IV: Pr | eparer Inf | ormation | | | | |
| 40. Name: Pa | ul Krueger | | 41. Title: Civi | | Civil Engineer | | |
| 42. Telephone Nu | mber | 43. Ext./Code | 44. Fax Number | 45. E-Ma | il Addre | ess | |
| (806) 473-3715 | | | () - | PKrueger@Parkhill.com | | | |
| 6. By my signature b | elow, I certif | | | • | | • | e, and that I have signature authori entified in field 39. |
| Company: | City of Pa | anhandle | Job Title: | Cit | City Manager | | |
| Name (In Print): | Terry Coffee | | | | | Phone: | (806) 537- 3517 |
| Signature: | | | | | | Date: | |
| | | | | | | · | |

TCEQ-10400 (11/22) Page 3 of 3

Appendix B

Lease Agreement

| STATE C | F TI | EXAS | : |
|---------|------|------|-----|
| COUNTY | OF | CAR | SON |

LEASE

| (| THIS LEASE AGREEMENT, made and entered into on this the 1st day of July, A.D. 2000, by and between Joe S. Nunn, John L. Nunn and Geraldine M. Nunn of the City of Panhandle, County of Carson, State of Texas, hereinafter called "Lessor and the City of Panhandle, Carson County, Texas, acting by and through its Mayor, Leslie L. McNeill, hereinafter called "Lessee"; |
|---|--|
| | WITNESSETH: |
| | SECTION 1: Lessor hereby leases to Lessee, for use as a secondary treatment and holding area for wastewater plant effluent, the following described property located in Carson County, Texas, to-wit: |
| | The southwest corner of section 38, Block 2, Tyler Tap Railroad Survey, Carson County, Texas, containing 100 acres more or less of land as shown on the attached Exhibit A which is made part of this agreement as if included verbatim herein. |
| | Upon the following terms and conditions: |
| | SECTION 2. Rental Rate. As consideration for this lease, the Lessee agrees to pay Lessor the sum of Ten Dollars (\$10.00), said sum due and payable lump sum at the time this lease is executed. |
| | SECTION 3. Term of the Lease. The term of this lease shall run for a minimum term of eleven (11) years beginning July 1, 2000. The lease shall automatically renew for the same term except as otherwise indicated in writing by either party as required herein. |
| | SECTION 4. <u>Sub-Lease</u> . Lessee shall not sublet the property, or any part thereof, without prior written consent of the Lessor. |
| | SECTION 5. <u>Maintenance</u> . Lessee will maintain the leased land during the term of the lease in as good condition as at the beginning, normal wear and depreciation and damages from causes beyond the Lessee's control expected. |
| | SECTION 6. <u>Liability</u> . Lessee agrees to be and thereby assume full and total responsibility and liability for any and all damage or injury that may be suffered by others on the above described property while in the possession of Lessee. |
| | SECTION 7. <u>Termination By Lessee</u> . This lease agreement may not be terminated without written consent of the Lessee. This lease will automatically terminate sixty (60) days after the date on which Lessee notifies Lessor, in writing, that Lessee has ceased operation of a wastewater treatment plant and does not intend to continue such operation at any time in the future. The Lessee may terminate the lease agreement at any time by giving written notice of termination ninety (90) days in advance of said termination. |

SECTION 8. Use of Leased Land by Lessor. Lessee agrees that Lessor has the right and permission to locate wastewater holding ponds on the leased lands, so long as the ponds are to be used in conformance with the Lessee's Irrigation Agreement with the Lessor as shown on the attached Exhibit B which is made part of this agreement as if included verbatim herein. Lessee additionally agrees that Lessor has right of access to the leased land in order to control weed and brush accumulations.

| access to the leased land in older to control weed | and brasil additional. |
|--|--|
| SIGNED AND EXECUTED THIS the 1st day of | July, A.D. 2000. |
| LESSOR: | Joe S. Nunn Geraldine M. Nunn Joe S. Nunn |
| | John L. Munn Serelline M. Nunn Geräldine M. Nunn |
| LESSEE: | City of Panhandle, Texas Chair Car. Mayor Leslie L. McNeill, Mayor |
| ATTEST: | |
| Chris Coffman | |

City Secretary

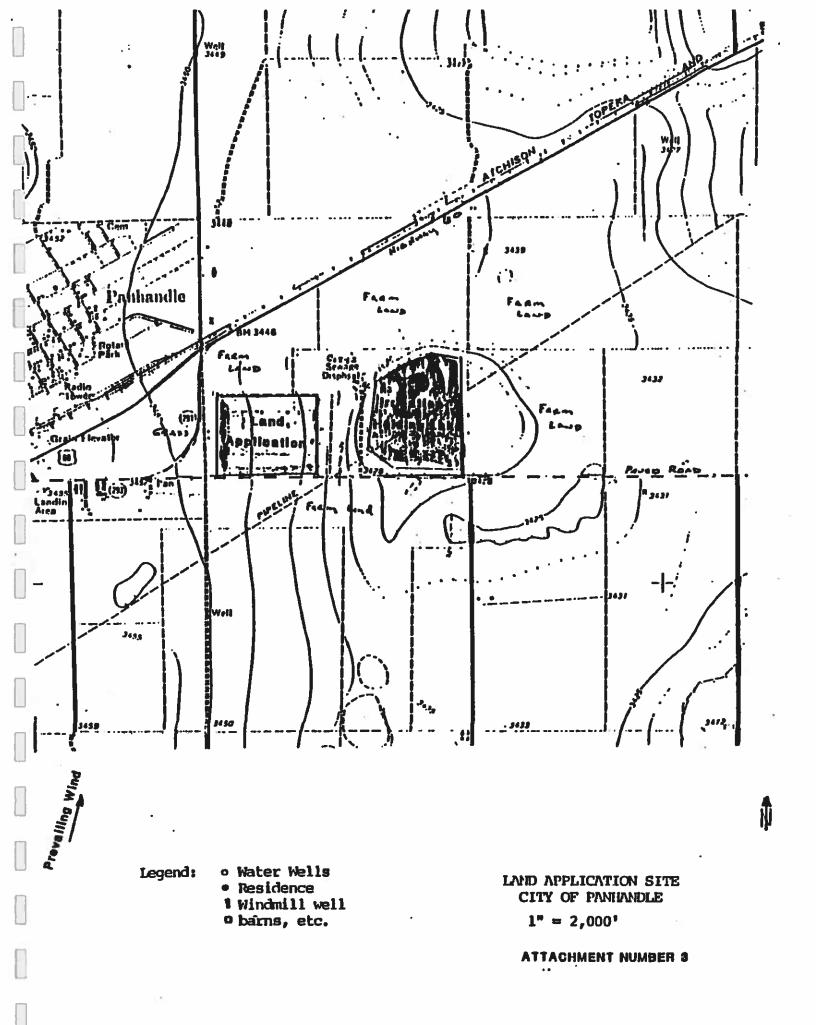
THE STATE OF TEXAS COUNTY OF CARSON

day of July, A.D. 2000, by Joe S. This instrument was acknowledged before me this the 35 Nunn. Sharon K. 4 Notary Public, State of Texas SHARON K. My commission expires on: 06-11-200 d HUDSON onymission Expires 05-11-2002 COUNTY OF CARSON This instrument was acknowledged before me this the day of July, A.D. 2000, by John L. Nunn. CONNIE McKIERNAN Notary Public, State of Texas NOTARY PUBLIC, My commission expires on // /3-0 THE STATE OF TEXAS COUNTY OF CARSON This instrument was acknowledged before me this the 27 day of July, A.D. 2000, by Geraldine M. Nunn. **CONNIE MCKIERNAN** Notary Public, State of Texas NOTARY PUBLIC. THE STATE OF TEXAS COUNTY OF CARSON day of July, A.D. 2000, by Leslie This instrument was acknowledged before me this the 27 L. McNeill, Mayor of the City of Panhandle, Texas.

CONNIE MCKIERNAN

Notary Public, State of

My commission expires on 11-13-02



| STATE | OF TEXAS | |
|-------|-------------|--|
| COUNT | Y OF CARSON | |

IRRIGATION AGREEMENT

| | This agreement, made and entered into on this the 1st day of July, A.D. 2000, by and between the City of Panhandle, Texas, a municipal corporation, acting by and through its Mayor, Leslie L. McNeill (hereinafter referred to as "the City"), and Joe S. Nunn, John L. Nunn and Geraldine M. Nunn (hereinafter referred to as "Water User"); | |
|-------------|---|--|
| WITNESSETH: | | |
| | WHEREAS, the City of Panhandle does not have sufficient quantities of land service to dispose of present and projected effluent wastewater generated by the City's sewer system; and | |
| | WHEREAS, Water User desires to take and use the effluent water and sewage for agricultural and irrigation purposes on the below described tract of land, hereinafter referred to as "Land", to-wit: | |
| | The southwest corner of section 38, Block 2, Tyler Tap Railroad Survey, Carson County, Texas, containing 75 acres of land as shown on the attached Exhibit A which is to be considered as part of this document as if stated verbatim herein. | |
| | NOW, THEREFORE, for and in consideration of the conveyance and agreements hereinafter set forth, the parties agree as follows, to-wit: | |
| | SECTION 1. <u>Term of Agreement</u> . The term of this agreement shall be for a minimum period of eleven (11) years, beginning on July 1, A.D. 2000. The agreement shall automatically renew for the same term except as otherwise indicated in writing by either party as required herein. | |
| | SECTION 2. <u>Payment for Water Use</u> . Water User agrees to pay the City as consideration of this agreement the sum of Ten Dollars (\$10.00), lump sum at the time this agreement is executed, such constituting full payment for water used under this agreement. | |
| | SECTION 3. Renewal. For the considerations granted herein, the City hereby gives and grants Water User the option to renew and extend this agreement upon terms and conditions which the parties may agree to at the end of each term (eleven years). Water User shall give the City at least ninety (90) days written notice prior to the date of agreement termination of its intent NOT to renew said agreement. | |
| | | |

| SECTION 4. Exclusive Use of Water. The City hereby grants, conveys, and gives unto Water User during the term of this agreement, the exclusive right to use all water discharged from the City Wastewater Treatment Plant. |
|--|
| SECTION 5. <u>Use of Water by Water User</u> . Water User agrees that said water shall be used on said land referenced herein for agricultural irrigation purposes. Water User shall not permit any of the effluent to escape in violation of law or regulatory requirements. |
| SECTION 6. Equipment. Water User shall provide all equipment, such as pumps, auxiliary units, piping etc. necessary to remove the effluent from the City's treatment plant and transport it to the land referenced herein. Water User agrees to comply with all rules and regulations of the City, the Texas Natural Resource Conservation Commission (TNRCC), the Texas Department of Health, the Environmental Protection Agency and any other public agencies with regulatory authority. |
| SECTION 7. <u>Liability</u> . The City shall not be responsible for the quality or content of effluent water used by Water User. The City further, disclaims any and all warranties whether expressed or implied as to the effluent wastewater used by Water User. Water User specifically waives any right to claim damages against the City under any circumstances arising from, connected with, or arising out of Water User's use for farming purposes or otherwise of the effluent wastewater discharged from the City's Wastewater Treatment Plant. Water User agrees to hold the City harmless and defend any and all claims made by any branch of the federal or state government or individual alleging a failure to comply with federal or state laws or regulations applicable to Water User's use of the wastewater plant effluent. Water User, additionally, agrees to indemnify and hold the City harmless from any loss, cost, damages, penalties, fines, and expenses, including reasonable attorney's fees suffered or incurred by the City by reason of water User's failure to perform any of the obligations arising hereunder. |
| SECTION 8. <u>Assignment</u> . The rights accruing to Water User under the terms of this agreement are personal to Water User and cannot be assigned, transferred, or conveyed, without the expressed written consent of the City. |
| SECTION 9. Regulatory Agency Approval. This agreement shall be contingent upon initial and continued approval of the TNRCC. If this regulatory body refuses to approve this agreement or hereafter requires the City to terminate this agreement then this agreement shall ipso facto terminate. If any other regulation of any governmental agency prevents the City from supplying any effluent to the Water User hereunder, this agreement shall likewise ipso facto terminate. |
| SECTION 10. Soil Testing. Water User agrees at least once a year to allow the City to take soil samples from the root zones of said lands for purposes of making determinations concerning the effect of the use of the effluent wastewater and sewage on the above described lands. |
| |

| SIGNED AND EXECUTED THIS the 1st day of July, A.D. 2000. | | |
|--|---|--|
| | 40 | |
| LESSOR: | Joe S. Nunn John L. Nunn Geraldine M. Nunn | |
| | John J Junn John L. Nunn | |
| | Roseldine M. Nunn Geraldine M. Nunn | |
| LESSEE: | City of Panhandle, Texas | |
| | Calic OM Mell Leslie L. McNeill, Mayor | |
| ATTEST: Chris Coffman City Secretary | | |
| ATTEST: | John J. Tunn John L. Nunn Resilding M. Munn Geraldine M. Nunn City of Panhandle, Texas | |

THE STATE OF TEXAS COUNTY OF CARSON

This instrument was acknowledged before me this the 25th day of July, A.D. 2000, by Joe S. Nunn. Notary Public, State of Texas SHARON K. My commission expires on: 06-11-2002 HUDSON THE STATE OF TESCHARASION Expires 08-11-2002 COUNTY OF CARSON This instrument was acknowledged before me this the Ale May of July, A.D. 2000, by John L. Nunn. CONNIE McKIERNAN My commission expires on 1/-13-02THE STATE OF TEXAS COUNTY OF CARSON This instrument was acknowledged before me this the 27 hday of July, A.D. 2000, by Geraldine M. Nunn. CONNIE McKIERNAN Notary Public, State of Texas My commission expires on //-/3-02 THE STATE OF TEXAS COUNTY OF CARSON This instrument was acknowledged before me this the day of July, A.D. 2000, by Leslie L. McNeill, Mayor of the City of Panhandle, Texas. FRNAN

. J∂LIC, STATE OF TEXAS

Notary Public, State of Texas

My commission expires on 1/-13-02

Appendix C Plain Language Summary



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

City of Panhandle (CN600647234) operates City of Panhandle Wastewater Treatment Plant (RN102976131), a facultative pond system. The facility is located at 2500 feet east of the intersection of US Highway 60 and State Highway 293, in Panhandle, Carson County, Texas 79068. This permit application is a renewal without changes to dispose of treated wastewater at a rate not to exceed 0.280 million gallons per day on 75 acres of non-public access land . This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD₅. Domestic wastewater is treated by facultative pond system consisting of a bar-screen, one facultative lagoon and one holding pond.

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

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

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

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

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

INSTRUCTIONS

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

Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at <a href="https://www.wevenue.com/worden/worden/concerning-to-state-new-concerning-to-state-new-concerning-to-state-new-concerning-to-state-new-concerning-to-state-new-concerning-to-state-new-concerning-this form may be directed to the Water Quality Division's Application Review and Processing Team by email at <a href="https://www.wevenue.com/worden/worden/worden/concerning-to-state-new-con

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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

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

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

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

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

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

Example 2: Domestic Wastewater TPDES Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to discharge at an annual average flow of 1,200,000 gallons per day of treated domestic wastewater via Outfalls 001 and 002.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: Domestic Wastewater TPDES New Application

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

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

This application is for a new application to discharge at a daily average flow of 200,000 gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 4: Domestic Wastewater TLAP Renewal application

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

of the permit application.

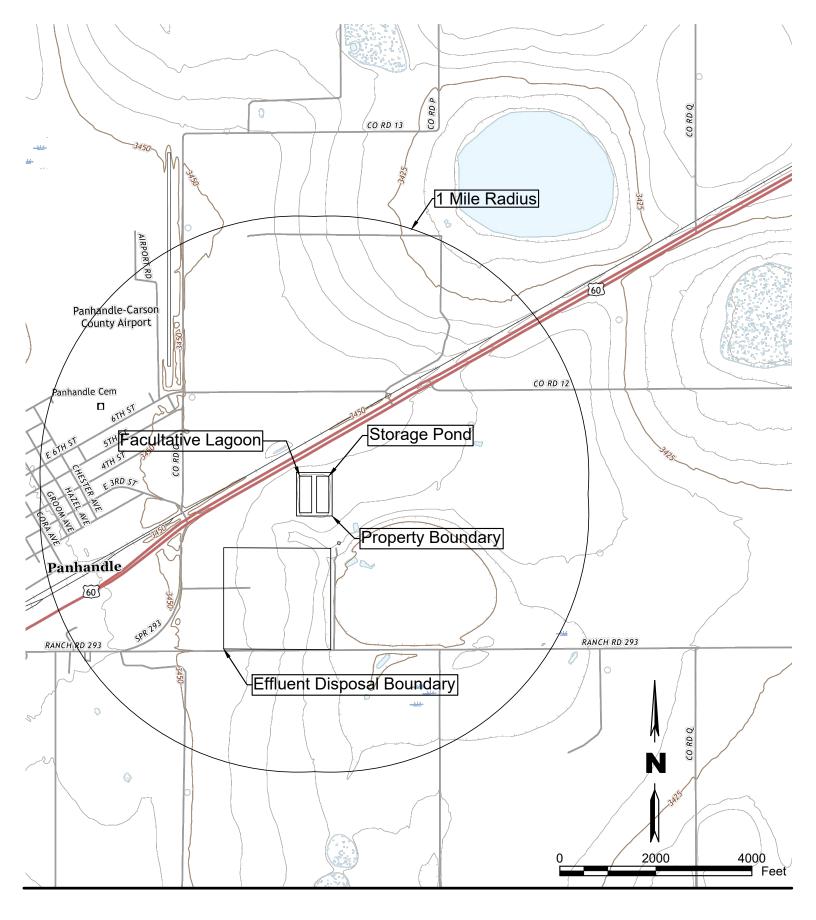
The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. 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), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

Appendix D

USGS Map



City of Panhandle WWTP Permit Renewal

City of Panhandle P.O. Box 129 Panhandle, TX 79083



Parkhill.com

USGS Map

 Issue:
 New

 Date:
 06/26/2025

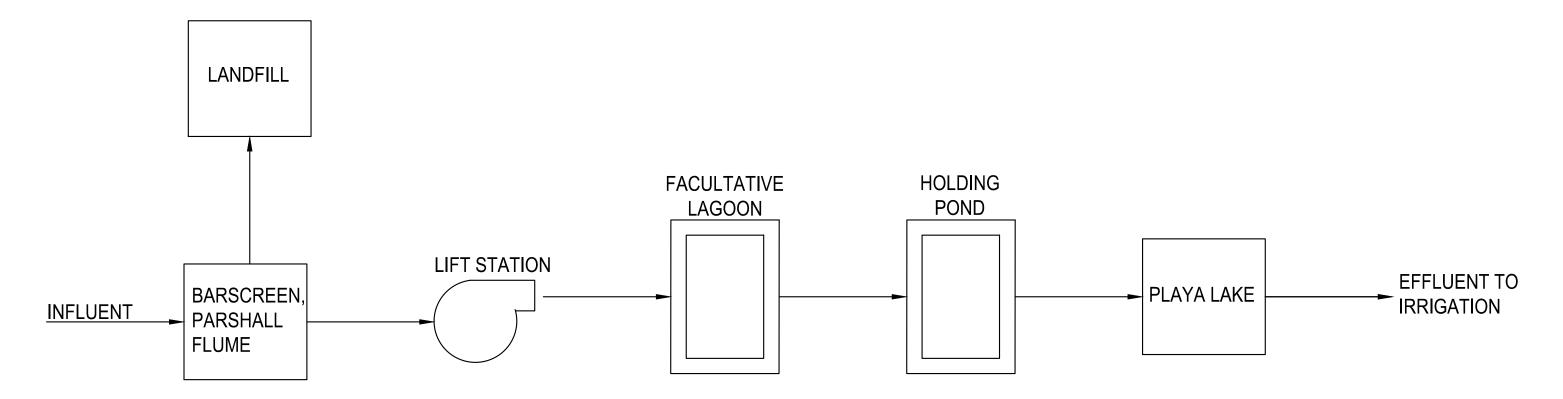
 Project No:
 45268.25

 Sheet:
 1 OF 1

Appendix E

Flow Diagram

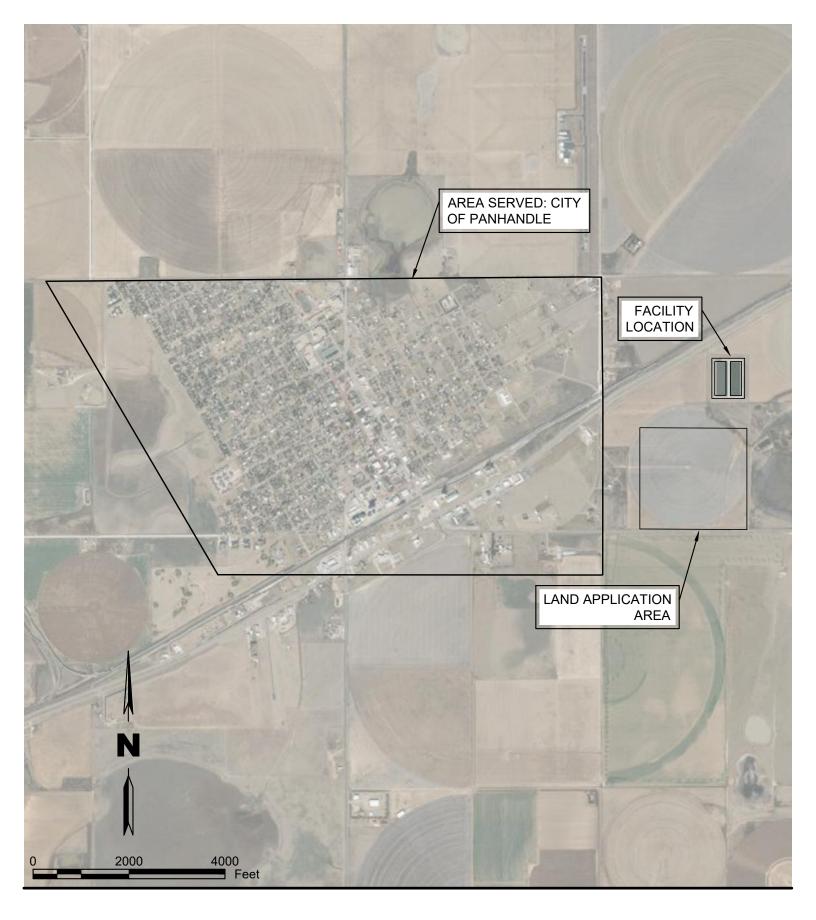






Appendix F

Site Drawing



City of Panhandle WWTP Permit Renewal

City of Panhandle P.O. Box 129 Panhandle, TX 79068



Parkhill.com

Site Map

Issue:
Date:
Project No:
Sheet:

Renewal 07/07/2025 45268.25 1 OF 1 Appendix G
Pollutant Analysis



Page 1 of 1



Printed

06/30/2025 17:08

PHKG-P

Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124

TABLE OF CONTENTS

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

| Report Name | Description | <u>Pages</u> |
|-------------------------------|---|--------------|
| 1147348_r02_01_ProjectSamples | SPL Kilgore Project P:1147348 C:PHKG Project Sample Cross Reference t:304 | 1 |
| 1147348_r03_03_ProjectResults | SPL Kilgore Project P:1147348 C:PHKG Project Results t:304 | 4 |
| 1147348_r10_05_ProjectQC | SPL Kilgore Project P:1147348 C:PHKG Project Quality Control Groups | 7 |
| 1147348_r99_09_CoC1_of_1 | SPL Kilgore CoC PHKG 1147348_1_of_1 | 5 |
| | Total Pages: | 17 |

Email: Kilgore.ProjectManagement@spllabs.com





SAMPLE CROSS REFERENCE



Printed

6/30/2025

Page 1 of 1

Parkhill Kole Glover 800 S Polk St Suite 200

Amarillo, TX 79124

| Sample | Sample ID | Taken | Time | Received |
|---------|--------------|------------|----------|------------|
| 2407972 | WW PANHANDLE | 05/13/2025 | 12:15:00 | 05/14/2025 |

Dottle

Bottle 01 Polyethylene 1/2 gal (White)

Bottle 02 Polyethylene Quart

Bottle 03 16 oz HNO3 Metals Plastic

Bottle 04 8 oz Plastic H2SO4 pH < 2

Bottle 05 H2SO4 to pH <2 Glass Qt w/Teflon lined lid

Mathad

Bottle 06 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1175323) Volume: 6.00000 mL <== Derived from 04 (6 ml)

Bottle 07 BOD Titration Beaker A (Batch 1175331) Volume: 100.00000 mL <== Derived from 01 (100 ml)

Bottle 08 BOD Analytical Beaker B (Batch 1175331) Volume: 100.00000 mL <== Derived from 01 (100 ml)

Bottle 09 Prepared Bottle: ICP Preparation for Metals (Batch 1175341) Volume: 50.00000 mL <= Derived from 03 (50 ml)

Bottle 10 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1175371) Volume: 20.00000 mL <== Derived from 04 (20 ml) Bottle 11 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1175608) Volume: 20.00000 mL <== Derived from 04 (20 ml)

| Method | воше | PrepSet | Preparation | QcGroup | Anaiyucai | |
|---------------------------------|------|---------|-------------|---------|------------|--|
| EPA 300.0 2.1 | 01 | 1175497 | 05/14/2025 | 1175497 | 05/14/2025 | |
| EPA 200.7 4.4 | 09 | 1175341 | 05/15/2025 | 1175494 | 05/15/2025 | |
| SM 5210 B-2016 (TCMP Inhibitor) | 01 | 1175331 | 05/20/2025 | 1175331 | 05/20/2025 | |
| SM 2510 B-2011 | 01 | 1175996 | 05/19/2025 | 1175996 | 05/19/2025 | |
| SM 4500-Cl F-2011 | 01 | 1176284 | 05/20/2025 | 1176284 | 05/20/2025 | |
| EPA 1664B (HEM) | 05 | 1176006 | 05/19/2025 | 1176006 | 05/19/2025 | |
| EPA 350.1 2 | 06 | 1175323 | 05/14/2025 | 1175970 | 05/19/2025 | |
| SM 2540 C-2020 | 02 | 1176035 | 05/16/2025 | 1176035 | 05/16/2025 | |
| EPA 351.2 2 | 11 | 1175608 | 05/16/2025 | 1176318 | 05/21/2025 | |
| SM 2540 D-2020 | 01 | 1175675 | 05/15/2025 | 1175675 | 05/15/2025 | |
| SM 4500-H+ B-2011 | 01 | 1175751 | 05/16/2025 | 1175751 | 05/16/2025 | |

Email: Kilgore.ProjectManagement@spllabs.com



Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124



Printed: 06/30/2025

RESULTS

| | | | | | Sample | Res | ults | | | | | | |
|-------------------------|---|------------|--------------------------|----------------------------|----------|---------------------------|---------------------------|----------|----------|---------|----------------------|----------|-----------------|
| | 2407972 | WW PANHAN | IDLE | | | | | | | | Received: | 05/14 | 1/2025 |
| No | on-Potable Wat | er | Collected by: Taken: 05/ | Client 713/2025 | Parkhill | 12:15: | 00 | | | PO: | | | |
| Ei | PA 1664B (HE) | <i>M)</i> | | Prepared: | 1176006 | 05/1 | 9/2025 | 07:33:00 | Analyzed | 1176006 | 05/19/2025 | 07:33:00 | MA. |
| NELAC | Parameter Oil and Greas | se (HEM) | | <i>Results</i> <4.82 | Ui mį | nits g/L | <i>RL</i> 4.82 | | Flags | , | CAS | | Bottle 05 |
| Ei | PA 200.7 4.4 | | | Prepared: | 1175341 | 05/1 | 5/2025 | 06:00:00 | Analyzed | 1175494 | 05/15/2025 | 12:13:00 | CAS |
| NELAC | Parameter Phosphorus | | | <i>Results</i> 4.28 | | nits g/L | <i>RL</i> 0.040 | | Flags | , | <i>CAS</i> 7723-14-0 | | Bottle 09 |
| El | PA 300.0 2.1 | | | Prepared: | 1175497 | 05/1 | 4/2025 | 15:00:00 | Analyzed | 1175497 | 05/14/2025 | 15:00:00 | KRA |
| NELAC NELAC NELAC | Parameter Chloride Nitrate-Nitrog Sulfate | gen Total | | Results 74.3 <0.1 26.4 | mį | nits g/L g/L g/L | RL 3.00 0.1 3.00 | | Flags | | CAS 14797-55-8 | | Bottle 01 01 01 |
| E | PA 350.1 2 | | | Prepared: | 1175323 | 05/1 | 4/2025 | 17:17:20 | Analyzed | 1175970 | 05/19/2025 | 06:55:00 | AMI |
| NELAC | Parameter Ammonia Nit | rogen | | Results 8.02 | | nits g/L | <i>RL</i> 0.100 | | Flags | , | CAS | | Bottle 06 |
| Ei | PA 351.2 2 | | | Prepared: | 1175608 | 05/1 | 6/2025 | 06:18:00 | Analyzed | 1176318 | 05/21/2025 | 10:36:00 | AMI |
| NELAC | Parameter Total Kjeldah | l Nitrogen | | Results 14.8 | Ui mį | nits g/L | <i>RL</i> 0.500 | | Flags | , | CAS 7727-37-9 | | Bottle 11 |
| SI | M 2510 B-2011 | | | Prepared: | 1175996 | 05/1 | 9/2025 | 13:30:00 | Analyzed | 1175996 | 05/19/2025 | 13:30:00 | ANC |
| | Parameter | | | Results | Ui | nits | RL | | Flags | | CAS | | Bottle |



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Parkhill **Kole Glover** 800 S Polk St Suite 200 Amarillo, TX 79124



Printed: 06/30/2025

2407972 WW PANHANDLE 05/14/2025 Received:

Non-Potable Water Collected by: Client Parkhill PO:

| | | Taken: | 05/13/2025 | | 12:15 | :00 | | | | | |
|-------|-------------------------------------|--------|------------|----------|------------|---------|----------|------------------|------------|----------|--------|
| SA | 1 2510 B-2011 | | Prepared: | 1175996 | 05/ | 19/2025 | 13:30:00 | Analyzed 1175996 | 05/19/2025 | 13:30:00 | ANC |
| - | Parameter | | Results | Uı | nits | RL | | Flags | CAS | | Bottle |
| NELAC | Lab Spec. Conductance at 25 C | | 772 | un cn | ahos/ 1 | | | | | | 01 |
| SA | 1 2540 C-2020 | | Prepared: | 1176035 | 05/ | 16/2025 | 10:15:00 | Analyzed 1176035 | 05/16/2025 | 10:15:00 | JMB |
| - | Parameter | | Results | Uı | nits | RL | | Flags | CAS | | Bottle |
| NELAC | Total Dissolved Solids | | 480 | mį | g/L | 20.0 | | | | | 02 |
| SA | A 2540 D-2020 | | Prepared: | 1175675 | 05/ | 15/2025 | 13:40:00 | Analyzed 1175675 | 05/15/2025 | 13:40:00 | ADR |
| - | Parameter | | Results | Uı | nits | RL | | Flags | CAS | | Bottle |
| NELAC | Total Suspended Solids | | 90.0 | mį | g/L | 40.0 | | | | | 01 |
| SA | 1 4500-C1 F-2011 | | Prepared: | 1176284 | 05/2 | 20/2025 | 13:35:00 | Analyzed 1176284 | 05/20/2025 | 13:35:00 | ANC |
| _ | Parameter | | Results | Uı | nits | RL | | Flags | CAS | | Bottle |
| NELAC | Cl2 Residual, Total (Lab) Titration | | <0.100 | mį | g/L | 0.100 | | | | | 01 |
| SA | Л 4500-H+ B-2011 | | Prepared: | 1175751 | 05/ | 16/2025 | 11:20:00 | Analyzed 1175751 | 05/16/2025 | 11:20:00 | ANC |
| - | Parameter | | Results | Uı | nits | RL | | Flags | CAS | | Bottle |
| NELAC | Laboratory pH WW | | 8.8@20c | SU | J | 2.00 | | | | | 01 |
| SA | 1 5210 B-2016 (TCMP Inhibitor) | | Prepared: | 1175331 | 05/ | 15/2025 | | Analyzed 1175331 | 05/20/2025 | 11:39:53 | ESN |
| _ | Parameter | | Results | Uı | nits | RL | | Flags | CAS | | Bottle |
| NELAC | BOD Carbonaceous | | 28.0 | mį | g/L | 3.00 | | | | | 01 |

Sample Preparation





Parkhill **Kole Glover** 800 S Polk St Suite 200 Amarillo, TX 79124



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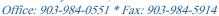
2407972 WW PANHANDLE 05/14/2025 Received:

05/13/2025

| | Prepared: | | 05/14/2025 | 11:47:54 | Calculated | | 05/14/2025 | 11:47:54 | CAL |
|--------------------------------------|-----------|---------|------------|----------|------------|---------|------------|----------|-----|
| Z Enviro Fee (per Sampling Group) | Verified | | | | | | | | |
| EPA 1664B (HEM) | Prepared: | 1175857 | 05/19/2025 | 07:33:00 | Analyzed I | 1175857 | 05/19/2025 | 07:33:00 | MAX |
| NELAC O&G HEM Started | Started | | | | | | | | |
| EPA 200.2 2.8 | Prepared: | 1175341 | 05/15/2025 | 06:00:00 | Analyzed A | 1175341 | 05/15/2025 | 06:00:00 | HLT |
| Z Liquid Metals Digestion | 50/50 | ml | | | | | | | 03 |
| EPA 350.1, Rev. 2.0 | Prepared: | 1175323 | 05/14/2025 | 17:17:20 | Analyzed A | 1175323 | 05/14/2025 | 17:17:20 | JR1 |
| NELAC Ammonia Distillation | 6/6 | ml | | | | | | | 04 |
| EPA 351.2, Rev 2.0 | Prepared: | 1175608 | 05/16/2025 | 06:18:00 | Analyzed A | 1175608 | 05/16/2025 | 06:18:00 | АМБ |
| NELAC TKN Block Digestion | 20/20 | ml | | | | | | | 04 |
| SM 2540 C-2015 | Prepared: | 1175676 | 05/16/2025 | 10:15:00 | Analyzed | 1175676 | 05/16/2025 | 10:15:00 | JMB |
| NELAC Total Dissolved Solids Started | Started | | | | | | | | |
| SM 2540 D-2011 | Prepared: | 1175104 | 05/15/2025 | 13:40:00 | Analyzed | 1175104 | 05/15/2025 | 13:40:00 | ADR |
| NELAC TSS Set Started | Started | | | | | | | | |



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Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124



Printed: 06/30/2025

2407972 WW PANHANDLE *Received:* 05/14/2025

05/13/2025

| S | SM 5210 B-2016 (TCMP Inhibitor) | Prepared: | 1175331 05, | /15/2025 | | Analyzed | 1175331 | 05/15/2025 | 06:55:13 | ESN |
|-------|---------------------------------|-----------|-------------|----------|----------|----------|---------|------------|----------|-----|
| NELAC | BODc Set Started | Started | | | | | | | | |
| s | SUB Lab | Prepared: | 05, | /13/2025 | 15:41:00 | Analyzed | | 05/13/2025 | 15:41:00 | SUB |

E.Coli WW MPN Panhandle (SUB) See Attached EMLC

Qualifiers:

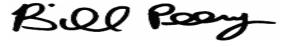
We report results on an As Received (or Wet) basis unless marked Dry Weight.

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, MS, VP Technical Services



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QUALITY CONTROL



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Project 1147348

Printed 06/30/2025

PHKG-P

Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124

| Analytical Set | 1175331 | | | | | | SM 5210 | 0 B-2016 (TC | CMP Inhibitor) |
|---|--|-----------------------|---------------------------|--|------------------------------|--------------------------------------|--------------------------------|--|---------------------------------|
| | | | | В | lank | | | | |
| Parameter BOD Carbonaceous BOD Carbonaceous | PrepSet 1175331 1175331 | Reading 0.2 0.1 | MDL 0.200 0.200 | MQL 0.500 0.500 | <i>Units</i> mg/L mg/L | | File 127606877 127609685 | | |
| | | | | | olicate | | | | |
| Parameter BOD Carbonaceous BOD Carbonaceous BOD Carbonaceous BOD Carbonaceous | Sample 2407877 2408025 2408364 2408776 | | Result 5.13 3.57 3.53 417 | Unknown 6.05 2.37 4.09 413 | 7 | Unit mg/L mg/L mg/L mg/L | | RPD 16.5 40.4 * 14.7 0.964 | Limit% 30.0 30.0 30.0 30.0 30.0 |
| | | | | See | d Drop | | | | |
| Parameter BOD Carbonaceous BOD Carbonaceous | PrepSet 1175331 1175331 | 0.387 0.417 | MDL 0.200 0.200 | MQL 0.500 0.500 | <i>Units</i> mg/L mg/L | | File 127606879 127609687 | | |
| | | | | Sta | ndard | | | | |
| Parameter BOD Carbonaceous BOD Carbonaceous | Sample | Reading 213 193 | Known 198 198 | <i>Units</i> mg/L mg/L | Recover% 108 97.5 | Limits% 83.7 - 116 83.7 - 116 | File 127606880 127609688 | | |
| Analytical Set | 1175970 | | | В | lank | | | | EPA 350.1 2 |
| <u>Parameter</u> Ammonia Nitrogen | PrepSet | Reading | | | | | | | |
| | 1175323 | ND | <i>MDL</i> 0.00336 | MQL 0.020 | Units mg/L | | File 127619913 | | |

Email: Kilgore.ProjectManagement@spllabs.com

2.05

2.10

2.15

2.00

2.00

2.00



102

105

108

90.0 - 110

90.0 - 110

90.0 - 110

127620010

127620017

127620025

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Ammonia Nitrogen

Ammonia Nitrogen

Ammonia Nitrogen

mg/L

mg/L

mg/L

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Project 1147348

Printed 06/30/2025

PHKG-P

Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX, 70124

| Amarillo, TX 79124 | | | | | | | | Printed | 06/30/202 | 25 | |
|---|------------------|---|--|---|--|--|------------|--|-----------|-------|-----------|
| | | | | (| CCV | | | | | | |
| Parameter Ammonia Nitrogen Ammonia Nitrogen Ammonia Nitrogen Ammonia Nitrogen | | Reading 2.15 2.15 2.19 2.17 | Known2.002.002.002.00 | Units mg/L mg/L mg/L mg/L mg/L | Recover% 108 108 110 108 | Limits% 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 | | File 127620032 127620039 127620048 127620050 | | | |
| Parameter | Sample | | Result | Unknowi | | | Unit | | RPD | | Limit% |
| Ammonia Nitrogen | 2408056 | | ND | ND | <i>I</i> | | mg/L | | KI D | | 20.0 |
| Ammonia Nitrogen | 2408177 | | ND | ND | | | mg/L | | | | 20.0 |
| - | | | | I | CV | | | | | | |
| <u>Parameter</u> | | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Ammonia Nitrogen | | 2.13 | 2.00 | mg/L | 106 | 90.0 - 110 | | 127619886 | | | |
| | | | | LC: | 5 Dup | | | | | | |
| <u>Parameter</u> | PrepSet | LCS | LCSD | | Known | Limits% | LCS% | LCSD% | Units | RPD | Limit% |
| Ammonia Nitrogen | 1175323 | 2.16 | 2.18 | | 2.00 | 90.0 - 110 | 108 | 109 | mg/L | 0.922 | 20.0 |
| | | | | Mat | . Spike | | | | | | |
| <u>Parameter</u> | Sample | Spike | Unknown | Known | Units | Recovery % | Limits % | File | | | |
| Ammonia Nitrogen | 2408056 | 2.03 | ND | 2.00 | mg/L | 102 | 80.0 - 120 | 127619922 | | | |
| Ammonia Nitrogen | 2408177 | 2.08 | ND | 2.00 | mg/L | 104 | 80.0 - 120 | 127619919 | | | |
| | | | 112 | | шел | 101 | | | | | |
| Analytical Set | 1176318 | | 112 | | | 201 | | | | EPA | A 351.2 2 |
| | | | 1,0 | | L/LOQ C | 101 | | | | EPA | A 351.2 2 |
| Analytical Set <u>Parameter</u> | | Reading | Known | | _ | Limits% | | File | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen | | Reading 0.214 | <i>Known</i> 0.200 | AWR | L/LOQ C Recover% 107 | <i>Limits%</i> 75.0 - 125 | | <i>File</i> 127627105 | | EPA | A 351.2 2 |
| Analytical Set <u>Parameter</u> | | Reading | Known | AWR Units mg/L mg/L | L/LOQ C Recover% 107 118 | Limits% | | File | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen | | Reading 0.214 | Known 0.200 | AWR Units mg/L mg/L | L/LOQ C Recover% 107 | <i>Limits%</i> 75.0 - 125 | | File 127627105 127627136 | | EP. | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 | Known 0.200 0.200 | AWRI Units mg/L mg/L B MQL | L/LOQ C Recover% 107 118 lank Units | <i>Limits%</i> 75.0 - 125 | | File 127627105 127627136 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen | 1176318 | Reading 0.214 0.237 | <i>Known</i> 0.200 0.200 | AWRI Units mg/L mg/L B MQL 0.050 | L/LOQ C Recover% 107 118 lank Units mg/L | <i>Limits%</i> 75.0 - 125 | | File 127627105 127627136 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 | Known 0.200 0.200 | AWRI Units mg/L mg/L B MQL 0.050 | L/LOQ C Recover% 107 118 lank Units | Limits% 75.0 - 125 75.0 - 125 | | File 127627105 127627136 File 127627121 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND | Known 0.200 0.200 MDL 0.00712 | AWRI Units mg/L mg/L B MQL 0.050 Units | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% | Limits% 75.0 - 125 75.0 - 125 | | File 127627105 127627136 File 127627121 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 | Known 0.200 0.200 MDL 0.00712 Known 5.00 | AWRI Units mg/L mg/L B MQL 0.050 Units mg/L | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% 107 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 | | EP/ | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 | AWRI Units mg/L mg/L B MQL 0.050 Units mg/L mg/L | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% 107 107 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 | AWRI Units mg/L mg/L B MQL 0.050 C Units mg/L mg/L mg/L | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% 107 107 109 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 5.34 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 | AWRI Units mg/L mg/L B MQL 0.050 C Units mg/L mg/L mg/L mg/L | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% 107 107 109 107 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 127627123 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 | AWRI Units mg/L mg/L 0.050 Units mg/L mg/L mg/L mg/L mg/L mg/L | Recover% 107 118 lank Units mg/L CCV Recover% 107 107 109 107 107 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 5.34 5.34 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 5.00 | AWRI Units mg/L mg/L B MQL 0.050 C Units mg/L mg/L mg/L mg/L | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% 107 107 109 107 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 127627123 127627132 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 5.34 5.34 5.47 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 5.00 5.00 5.00 | AWRI Units mg/L mg/L 0.050 Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L | Recover% 107 118 lank Units mg/L CCV Recover% 107 107 109 107 107 109 | Limits% 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 127627123 127627132 127627132 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 5.34 5.34 5.47 5.38 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 5.00 5.00 5.00 5.00 | AWRI Units mg/L mg/L 0.050 Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | Recover% 107 118 lank Units mg/L CCV Recover% 107 109 107 109 108 | Limits% 75.0 - 125 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 | | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 127627123 127627132 127627143 127627152 | | EPA | A 351.2 2 |
| Analytical Set Parameter Total Kjeldahl Nitrogen Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen Parameter Total Kjeldahl Nitrogen | 1176318 PrepSet | Reading 0.214 0.237 Reading ND Reading 5.36 5.33 5.43 5.34 5.34 5.47 5.38 | Known 0.200 0.200 MDL 0.00712 Known 5.00 5.00 5.00 5.00 5.00 5.00 5.00 | AWRI Units mg/L mg/L 0.050 Units mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L | L/LOQ C Recover% 107 118 lank Units mg/L CCV Recover% 107 107 109 107 109 108 109 olicate | Limits% 75.0 - 125 75.0 - 125 75.0 - 125 Limits% 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 90.0 - 110 | Unit | File 127627105 127627136 File 127627121 File 127627100 127627102 127627113 127627123 127627132 127627143 127627152 | RPD | EPA | A 351.2 2 |

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Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124

| , ,, | | | | | | | | | | | |
|-------------------------|---------|---------|---------|---------|----------|------------|------------|-----------|-------|---------|----------|
| | | | | ı | CV | | | | | | |
| Parameter_ | | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Total Kjeldahl Nitrogen | | 5.08 | 5.00 | mg/L | 102 | 90.0 - 110 | | 127627099 | | | |
| | | | | LCS | 5 Dup | | | | | | |
| Parameter | PrepSet | LCS | LCSD | | Known | Limits% | LCS% | LCSD% | Units | RPD | Limit% |
| Total Kjeldahl Nitrogen | 1175608 | 5.16 | 5.24 | | 5.00 | 90.0 - 110 | 103 | 105 | mg/L | 1.54 | 20.0 |
| | | | | Mat | . Spike | | | | | | |
| Parameter | Sample | Spike | Unknown | Known | Units | Recovery % | Limits % | File | | | |
| Total Kjeldahl Nitrogen | 2407864 | 8.15 | 4.57 | 5.00 | mg/L | 71.6 | 80.0 - 120 | 127627127 | | * | |
| Analytical Set | 1175675 | | | | | | | | | SM 254 | 0 D-2020 |
| 7 thaty deal See | 11,00,0 | | | В | lank | | | | | | |
| Parameter | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Total Suspended Solids | 1175675 | ND | 2 | 2 | mg/L | | | 127614268 | | | |
| • | | | | Con | trolBlk | | | | | | |
| Parameter | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Total Suspended Solids | 1175675 | -0.0003 | | | grams | | | 127614267 | | | |
| | | | | Dup | olicate | | | | | | |
| Parameter | Sample | | Result | Unknown | 1 | | Unit | | RPD | | Limit% |
| Total Suspended Solids | 2407875 | | 136 | 134 | | | mg/L | | 1.48 | | 20.0 |
| Total Suspended Solids | 2407972 | | 88.0 | 90.0 | | | mg/L | | 2.25 | | 20.0 |
| Total Suspended Solids | 2407977 | | 1580 | 1220 | | | mg/L | | 25.7 | * | 20.0 |
| | | | | L | .CS | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | | Known | Units | Recover% | Limits | File | | | |
| Total Suspended Solids | 1175675 | 48.0 | | 50.0 | mg/L | 96.0 | 90.0 - 110 | 127614301 | | | |
| | | | | Sta | ndard | | | | | | |
| <u>Parameter</u> | Sample | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Total Suspended Solids | | 96.0 | 100 | mg/L | 96.0 | 90.0 - 110 | | 127614300 | | | |
| Analytical Set | 1176006 | | | | | | | | E | PA 1664 | B (HEM) |
| , | | | | В | lank | | | | | | |
| Parameter_ | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Oil and Grease (HEM) | 1176006 | ND | 0.804 | 4.00 | mg/L | | | 127621008 | | | |
| | | | | Con | trolBlk | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Oil and Grease (HEM) | 1176006 | -0.0005 | | | grams | | | 127621007 | | | |
| Oil and Grease (HEM) | 1176006 | 0.0004 | | | grams | | | 127621032 | | | |
| | | | | L | .CS | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | | Known | Units | Recover% | Limits | File | | | |
| Oil and Grease (HEM) | 1176006 | 34.3 | | 40.0 | mg/L | 85.8 | 78.0 - 114 | 127621009 | | | |

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Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124

MS

| <u>Parameter</u> Oil and Grease (HEM) | Sample 2406889 | <i>MS</i> 41.2 | <i>MSD</i> 0 | <i>UNK</i> 2.00 | <i>Known</i> 40.0 | <i>Limits</i> 78.0 - 114 | <i>MS%</i> 103 | MSD% | <i>Units</i> mg/L | RPD | <i>Limit%</i> 20.0 |
|---------------------------------------|-----------------------|----------------|---------------------|-----------------|--------------------------|--------------------------|----------------|------------------------|-------------------|--------|--------------------|
| Analytical Set | 1176035 | | | | | | | | | SM 254 | 0 C-2020 |
| | | | | В | lank | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Total Dissolved Solids | 1176035 | ND | 5.00 | 5.00 | mg/L | | | 127621587 | | | |
| | | | | Con | trolBlk | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Total Dissolved Solids | 1176035 | 0 | | | grams | | | 127621574 | | | |
| | | | | Dup | olicate | | | | | | |
| Parameter | Sample | | Result | Unknown | 1 | | Unit | | RPD | | Limit% |
| Total Dissolved Solids | 2407991 | | 4190 | 4270 | | | mg/L | | 1.89 | | 20.0 |
| | | | | L | -CS | | | | | | |
| Parameter | PrepSet | Reading | | Known | Units | Recover% | Limits | File | | | |
| Total Dissolved Solids | 1176035 | 198 | | 200 | mg/L | 99.0 | 85.0 - 115 | 127621575 | | | |
| Analytical Cot | 1175497 | | | | | | | | | EDΔ | 300.0 2.1 |
| Analytical Set | 11/349/ | | | ь | lank | | | | | LIA | 300.0 2.1 |
| _ | | | | | | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL 0.0502 | MQL 0.200 | Units | | | File | | | |
| Chloride Nitrate-Nitrogen Total | 1175497 1175497 | ND ND | 0.0593 0.00331 | 0.300 0.0226 | mg/L mg/L | | | 127610650 127610650 | | | |
| Sulfate | 1175497 | 0.095 | 0.0605 | 0.300 | mg/L mg/L | | | 127610650 | | | |
| Surface | 1175457 | 0.055 | 0.0005 | | CB | | | 127010030 | | | |
| _ | | | | | | | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL | MQL 0.200 | Units | | | File | | | |
| Chloride Chloride | 1175497 1175497 | 0.035 0.028 | 0.0593 0.0593 | 0.300 0.300 | mg/L mg/L | | | 127610646 127610666 | | | |
| Chloride | 1175497 | 0.026 | 0.0593 | 0.300 | mg/L mg/L | | | 127610606 | | | |
| Nitrate-Nitrogen Total | 1175497 | 0.050 | 0.00331 | 0.0226 | mg/L mg/L | | | 127610646 | | | |
| Nitrate-Nitrogen Total | 1175497 | 0 | 0.00331 | 0.0226 | mg/L | | | 127610666 | | | |
| Nitrate-Nitrogen Total | 1175497 | 0 | 0.00331 | 0.0226 | mg/L | | | 127610678 | | | |
| Sulfate | 1175497 | -0.183 | 0.0605 | 0.300 | mg/L | | | 127610646 | | | |
| Sulfate | 1175497 | -0.207 | 0.0605 | 0.300 | mg/L | | | 127610666 | | | |
| Sulfate | 1175497 | -0.204 | 0.0605 | 0.300 | mg/L | | | 127610678 | | | |
| | | | | C | CCV | | | | | | |
| <u>Parameter</u> | | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Chloride | | 10.0 | 10.0 | mg/L | 100 | 90.0 - 110 | | 127610645 | | | |
| Chloride | | 10.2 | 10.0 | mg/L | 102 | 90.0 - 110 | | 127610665 | | | |
| Chloride | | 10.2 | 10.0 | mg/L | 102 | 90.0 - 110 | | 127610677 | | | |
| Nitrate-Nitrogen Total | | 2.27 | 2.26 | mg/L | 100 | 90.0 - 110 | | 127610645 | | | |
| Nitrate-Nitrogen Total | | 2.28 | 2.26 | mg/L | 101 | 90.0 - 110 | | 127610665 | | | |
| Nitrate-Nitrogen Total | | 2.26 | 2.26 | mg/L | 100 | 90.0 - 110 | | 127610677 | | | |

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CCV Recover% Parameter Reading Known Units Limits% File 9.94 10.0 99.4 90.0 - 110 127610645 Sulfate mg/L 10.2 10.0 102 90.0 - 110 127610665 Sulfate mg/L mg/L Sulfate 10.2 10.0 102 90.0 - 110 127610677 LCS Dup Parameter PrepSet LCS LCSDKnown Limits% LCS%LCSD% Units RPDLimit% Chloride 1175497 5.15 5.19 5.00 85.0 - 115 103 104 mg/L 0.774 20.0 Nitrate-Nitrogen Total 1175497 1.21 1.19 1.13 86.3 - 117 107 105 1.67 20.0 mg/LSulfate 1175497 5.28 5.00 85.4 - 124 106 106 0.378 20.0 5.30 mg/LMSD **Parameter** Sample MS MSD UNK Known Limits MS%MSD% Units RPDLimit% Chloride 2406671 133 133 100 80.0 - 120 93.9 93.9 mg/L 0 20.0 Nitrate-Nitrogen Total 2406671 17.5 17.0 ND 22.6 80.0 - 120 77.4 * 75.2 * mg/L 2.90 20.0 Sulfate 2406671 723 738 638 100 80.0 - 120 85.0 100 mg/L 16.2 20.0 Chloride 2406899 490 496 290 200 80.0 - 120 100 103 mg/L 2.96 20.0 Nitrate-Nitrogen Total 2406899 35.2 35.4 ND 45.2 80.0 - 120 77.9 * 78.3 * mg/L 0.567 20.0 Sulfate 2406899 647 651 430 200 80.0 - 120 108 110 mg/L 1.83 20.0

Analytical Set 1175494 EPA 200.7 4.4

Blank

| | | | | В | iank | | | | | | |
|---------------------|---------|---------|--------|--------|----------|------------|------|-----------|-------|-------|--------|
| Parameter Parameter | PrepSet | Reading | MDL | MQL | Units | | | File | | | |
| Phosphorus | 1175341 | ND | 0.0353 | 0.040 | mg/L | | | 127610611 | | | |
| | | | | C | CCV | | | | | | |
| <u>Parameter</u> | | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Phosphorus | | 1.04 | 1.00 | mg/L | 104 | 90.0 - 110 | | 127610609 | | | |
| Phosphorus | | 1.04 | 1.00 | mg/L | 104 | 90.0 - 110 | | 127610610 | | | |
| Phosphorus | | 1.09 | 1.00 | mg/L | 109 | 90.0 - 110 | | 127610619 | | | |
| Phosphorus | | 1.08 | 1.00 | mg/L | 108 | 90.0 - 110 | | 127610621 | | | |
| | | | | ı | ICL | | | | | | |
| <u>Parameter</u> | | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Phosphorus | | 25.0 | 25.0 | mg/L | 100 | 95.0 - 105 | | 127610607 | | | |
| | | | | I | CV | | | | | | |
| <u>Parameter</u> | | Reading | Known | Units | Recover% | Limits% | | File | | | |
| Phosphorus | | 1.05 | 1.00 | mg/L | 105 | 90.0 - 110 | | 127610608 | | | |
| | | | | LCS | S Dup | | | | | | |
| <u>Parameter</u> | PrepSet | LCS | LCSD | | Known | Limits% | LCS% | LCSD% | Units | RPD | Limit% |
| Phosphorus | 1175341 | 4.29 | 4.29 | | 4.00 | 85.0 - 115 | 107 | 107 | mg/L | 0 | 25.0 |
| | | | | M | ISD | | | | | | |
| <u>Parameter</u> | Sample | MS | MSD | UNK | Known | Limits | MS% | MSD% | Units | RPD | Limit% |
| Phosphorus | 2407853 | 4.41 | 4.37 | 0.0699 | 4.00 | 75.0 - 125 | 109 | 108 | mg/L | 0.926 | 25.0 |

Analytical Set 1175751 SM 4500-H+ B-2011

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Project

1147348

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| Amarillo, TX 79124 | | | | | | | | Printed | 06/30/2025 | |
|-------------------------------------|---------|---------|--------|----------|----------|------------|----------|-----------|------------|--------------|
| | | | | Dupl | icate | | | | | |
| Parameter | Sample | | Result | Unknown | | | Unit | | RPD | Limit% |
| Laboratory pH WW | 2407245 | | 7.20 | 7.10 | | | SU | | 1.40 | 20.0 |
| | | | | Stan | dard | | | | | |
| <u>Parameter</u> | Sample | Reading | Known | Units | Recover% | Limits% | | File | | |
| Laboratory pH WW | 1175751 | 6.00 | 6.00 | SU | 100 | 90.0 - 110 | | 127615623 | | |
| Laboratory pH WW | 1175751 | 8.00 | 8.00 | SU | 100 | 90.0 - 110 | | 127615624 | | |
| Laboratory pH WW | 1175751 | 6.08 | 6.00 | SU | 101 | 90.0 - 110 | | 127615633 | | |
| Laboratory pH WW | 1175751 | 8.06 | 8.00 | SU | 101 | 90.0 - 110 | | 127615634 | | |
| Analytical Set | 1175996 | | | | | | | | SM | 2510 B-2011 |
| | | | | Bla | nk | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL | MQL | Units | | | File | | |
| Lab Spec. Conductance at 25 C | 1175996 | 0.808 | | | umhos/cm | | | 127620611 | | |
| | | | | Dupl | icate | | | | | |
| Parameter | Sample | | Result | Unknown | | | Unit | | RPD | Limit% |
| Lab Spec. Conductance at 25 C | 2407367 | | 775 | 777 | | | umhos/cm | | 0.258 | 20.0 |
| Lab Spec. Conductance at 25 C | 2408464 | | 1800 | 1790 | | | umhos/cm | | 0.557 | 20.0 |
| | | | | IC | .V | | | | | |
| <u>Parameter</u> | | Reading | Known | Units | Recover% | Limits% | | File | | |
| Lab Spec. Conductance at 25 C | | 13100 | 12900 | umhos/cm | 102 | 90.0 - 110 | | 127620614 | | |
| | | | | Stan | dard | | | | | |
| <u>Parameter</u> | Sample | Reading | Known | Units | Recover% | Limits% | | File | | |
| Lab Spec. Conductance at 25 C | 1175996 | 1420 | 1410 | umhos/cm | 101 | 90.0 - 110 | | 127620612 | | |
| Lab Spec. Conductance at 25 C | 1175996 | 101 | 100 | umhos/cm | 101 | 90.0 - 110 | | 127620613 | | |
| Lab Spec. Conductance at 25 C | 1175996 | 1410 | 1410 | umhos/cm | 100 | 90.0 - 110 | | 127620626 | | |
| Lab Spec. Conductance at 25 C | 1175996 | 1420 | 1410 | umhos/cm | 101 | 90.0 - 110 | | 127620633 | | |
| Analytical Set | 1176284 | | | | | | | | SM 450 | 00-C1 F-2011 |
| | | | | Bla | nk | | | | | |
| <u>Parameter</u> | PrepSet | Reading | MDL | MQL | Units | | | File | | |
| Cl2 Residual, Total (Lab) Titration | 1176284 | ND | 0.100 | 0.100 | mg/L | | | 127626372 | | |
| | | | | Dupl | icate | | | | | |
| <u>Parameter</u> | Sample | | Result | Unknown | | | Unit | | RPD | Limit% |
| Cl2 Residual, Total (Lab) Titration | 2407972 | | ND | ND | | | mg/L | | | 20.0 |

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100%

Recover% is Recovery Percent: result / known * 100%





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QUALITY CONTROL



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Project 1147348

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PHKG-P

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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 used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); ICV - Initial

(same standard (replicate of the

Calibration Verification; LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); CCB - Continuing Calibration Blank; AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; LCS - Laboratory Control Sample (reagent $water \ or \ other \ blank \ matrices \ that \ is \ spiked \ with \ a \ known \ quantity \ of \ target \ analyte(s) \ and \ carried \ through \ preparation \ and \ analytical \ procedures \ exactly \ like \ a \ sample;$ typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.)

Email: Kilgore.ProjectManagement@spllabs.com



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1147348 CoC Print Group 001 of 001

2600 Dudley Rd. Kilgore, Texas 75662 Office: 903-984-0551 * Fax: 903-984-5914 **CHAIN OF CUSTODY** Parkhill PHKG-P PO Number Kole Glover 103 800 S Polk St 806/376-8600 Phone Suite 200 Amarillo, TX 79124 Fanhandle WWHand Delivered by Client to Region or LAB Matrix: Non-Potable Water Sampler Affiliation: Samples Contains Dioxin? Samples Biological Hazard? On Site Testing Cl2c Cl2 Res(Total)Analyzed by client Cl2 Res(Total)Analyzed by client Collected By _____ Date ____ Time ____ Analyzed By ____ Date ___ Time ___ C Duplicate _____ Units ____ Temp. ____ C ____ Units _____ Temp. ___ QC R1 _____ QC R2 ___ SM 4500-H+ B-2011 pHCl pH Client Provided pH Client Provided Collected By _____ Date ____ Time ____ Analyzed By ____ Date ____ Time __ Units ____ C Duplicate 1 Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized * SUB LAB@ EML

Panhandle Region: 3350 Olsen Blvd. Ste 1700 Amarillo TX 79109

1147348 CoC Print Group 001 of 001

| Environmental Monitoring Lal TCEQ Lab ID: T104704247 Panhandle Diretion 13060 South US Hay 287 Amurillo Teos 79 Others. 108.55.999 Emergen 08.55.64 | Pure 118 811 E. Yo | Chase C Southwest Division Southwest Division Surg Street Liano, Ti | 6145 State H Order / C | hain | 1/1, Hills | JSt(IS Division Winona, | ody | 75792 | EPA | Lab ID: | TX015 o ast Ave. | 47 Coastal , Schule | Divisio | | H de | Page 1 of 1 |
|---|--|--|---------------------------|----------------|--------------|--------------------------------|-----|-------|-----|--|----------------------------------|---------------------------|------------|----------|--|--|
| Report To: Rey Haden | Report To: (Buye | r) | | | | | | ٨١ | MAL | YSES | PEC | IJES | TEL | , | | NOTES: |
| Company: Parkhill | Purchase Order # | : | | | | | | ^ | MAL | 131.0 | IVEG | OLC | /11-6 | | | |
| Project Name: Purhandle WMP Project Location: Parkandle WMP | Email: Kilgore Phone: Quote #: City, State: (Please Print) | conhandle | | | | CBOD / BOD | TSS | Hd | 00 | NH3N (pH<2.0, H ₂ SO ₄) SM4500-NH3 D or G unless specified | FECAL COLIFORM (E.COLI (Sterlie) | MLSS | ALKALINITY | | | Analyzed in Amarillo Localism or Ca fromhenial Mor. Johns Laboratory, LLG 13260 South US Highway 287 Amarillo TX 79118-7005 |
| Hand Deliver: Pick-up: Sampler: Lab# Client Sample ID | Matrix | Date | Time | 'Pres Code | (Bottle Code | | | | | | | | | | | Sample Remark |
| 1. Panhandle 103 2 3 4 5. | WW | 5/13/25 | 12:15pm | ¥ | | | | | | | X | | | | | |
| 8. | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | _ | | | | | |
| 10. | | | | | | | | | | | | | | | | NID IR HOOK |
| Relinquished By: | Date | Time | Received By | 7000 7557 1155 | | | | | | Da | 1000 | | | Time 2/5 | lce: | (NO, D. 2 |
| Kartfaller | 5/13/25 | 1215 | 1. ERIK SCA | RBOR | 046A | Es. | 3 | PL | 5. | 13.2 | > | | - | 540 | *Preser | ativa Codey 4 Statle Cod |
| ERIKS CARBOROUGH / SPL | 5-13-25 | 1540 | 3. | illej | was | 9_ | | | 05 | 13/2 |) | | - 1 | 340 | 1, Nose 2, Sullui 3, Noie 4, NuOH 5, NuOH 6, Sterie | 3. 46 m/s VO + ZnVc |

Parkhill



CHAIN OF CUSTODY

| Kole Glover 800 S Polk St | | 103 | |
|--|----------|-------------------------------|---|
| Suite 200 | | | • |
| Amarillo, TX 79124 NELAC Short HoldSubo | е ЕСРН | E.Coli WW MPN Panhandle (SUB) | SUB Lab CAS:EMLC (0.333 days) |
| 2 H | 2SO4 to | pH <2 GlQt w/Tef-lined lid | |
| NELAC | HEM | Oil and Grease (HEM) | EPA 1664B (HEM) (28.0 days) |
| 1 Po | lyethyle | ene 1/2 gal (White) | |
| NELAC Short Hold | BODc | BOD Carbonaceous | SM 5210 B-2016 (TCMP Inhibitor) (2.04 days) |
| NELAC | TSS | Total Suspended Solids | SM 2540 D-2015 (7.00 days) |
| 0 Z | No bo | ttle required | |
| | SKL | Sub Hold: PM Attn | |
| 1 H | NO3 to p | oH <2 Polyethylene 500 mL for | Metals |
| NELAC | *PI | Phosphorus | EPA 200.7 4.4 CAS:7723-14-0 (180 days) |
| | 301L | Liquid Metals Digestion | EPA 200.2 2.8 (180 days) |
| 1 H | 2SO4 to | pH <2 250 ml Polyethylene | |
| NELAC | NHaN | Ammonia Nitrogen | EPA 350.1 2 (28.0 days) |
| NELAC . | TKN | Total Kjeldahl Nitrogen | EPA 351.2 2 CAS:7727-37-9 (28.0 days) |
| 1 Po | lyethyle | ene Quart | |
| NELAC | !CIL | Chloride | EPA 300.0 2.1 (28.0 days) |
| NFLAC Short Hold | !N3L | Nitrate-Nitrogen Total | EPA 300.0 2.1 CAS:14797-55-8 (2.00 days) |
| NELAC | !S4L | Sulfate | EPA 300.0 2.1 (28.0 days) |
| NELAC | CONL | Lab Spec. Conductance at 25 C | SM 2510 B-2011 (28.0 days) |
| NELAC | TDS | Total Dissolved Solids | SM 2540 C-2015 (7.00 days) |
| pient Conditions/Comments | | | |

PHKG-P



2600 Dudley Rd. Kilgore, Texas 75662 Office: 903-984-0551 * Fax: 903-984-5914



CHAIN OF CUSTODY

Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124 PHKG-P 103

| Date | Time | Relinquished | Received |
|---------|-------|--|---|
| 5/12/25 | 12:15 | Printed Name Roy Houlen PHRG-P 103 | Printed Name Erik Scarborough - SPL, Inc. |
| 7/15/25 | 12.1) | Signature Roy Holan | Signature |
| | | Printed Name Erlk Scarborough - SPL, Inc. | Printed Name Attiliation |
| 5.13.25 | 1800 | | Signature |
| 214.58 | 19)0 | Printed Name A Siliation | Printed Name Doris Stoker SPL, Inc. |
| | | Signature | Signature L 1 11/5 |
| | | Printed Nume Attiliation | Printed Name Affiliation |
| | | Signature | Signature |

Sample Received on Ice? | Yes | No | No | If Shipped: Tracking Number & Temp - See Attached

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, SPL shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement. SPL personnel collect samples as specified by SPL SOP #000323.

Comments





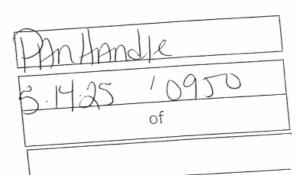
COOLER CHECKIN

Region/Driver/Client

Date / Time:

Cooler:

Shipping Company:



Temp Label:

5.14.25 950 DS Date Temp: Techy c

Therm#: 7242 Corr Fact: -0.3 C



ENVIRONMENTAL MONITORING LABORATORY, L.L.C

Panhandle Division 13260 South Highway 287 Amarillo, TX 79118-7005 Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL REPORT 25051541

For:

SPL-Inc.

PO BOX 9000 Kilgore, Texas 75663

Sample Site: Panhandle WWTP 103

Collected Date: 05/13/25



Lab Number: TX01547

Authorized for release by: 19-MAY-25

Lisa Soward, Data Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory



ENVIRONMENTAL MONITORING LABORATORY, L.L.C

Panhandle Division 13260 South Highway 287 Amarillo, TX 79118-7005 Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL RESULTS

Analytical Report: 25051541

Lab ID:

25051541-001

Collected Date: 05/13/25 12:15

Matrix: Waste Water

Client:

SPL-Inc.

Received Date: 05/13/25 15:40

Temp at Receipt: 10.3 °C

Sample Site: Panhandle WWTP 103

Report Date:

05/19/25

Sample Collector: RH

| Analyte | Abbreviation | Method | TNI Cert | Date Analyzed | Result | Units |
|---------|--------------|----------------|-------------|------------------|--------|------------|
| E. coli | E. coli | IDEXX Colilert | NP | 05/13/25 15:41 | 205 | MPN/100 mL |

P: Potable water

NP: Non Potable water N: Not Certified

Control #: 25051541

QUALITY ASSURANCE & QUALITY CONTROL

| | | | | | Quali | ty Control | | | |
|-------------------------|--------------------|--------------------|-------|------|-------|------------|--------|---------|---|
| ANALYTE | ABBR./ ALT.NAME | STANDARD METHOD | UNITS | S.D. | CV% | REC.1% | REC.2% | MDL/PQL | Q |
| Chloride | CI- | SM 4500-CI-/B | mg/L | | | | | | |
| Alkalinity | ALK | SM 2320/B | mg/L | | | | | | |
| Total Phosphorus | T.PHOS. | SM 4500-P/E | mg/L | | | | | | |
| Total Kjeldahl Nitrogen | TKN | SM 4500-NH3/D | mg/L | | | | | | |
| Ammonia Nitrogen | NH3N | SM 4500-NH3/D | mg/L | | | | | | |
| Oil & Grease | O&G | SM 5520/B | mg/L | | | | | | |
| Chemical Oxygen Demand | COD | SM 5220/D | mg/L | | | | | | |
| Turbidity | TURB. | SM 2130/B | NTUs | | | | | | |
| Total Percent Solids | %d.w | SM 2540/G | % | | | | | | N |

| | | gen Demand(BOD) al Oxygen Demand(CBOD) | | Dissolved O: Method: SM 45 | | Total S | Suspended Solid Method: 25 | ls (TSS, MLSS) 40/D |
|---------|-------|---|---------|-------------------------------|--|---------|---|---|
| l . | | SM 5210/B | Results | Units | Description | Results | Units | Description |
| Results | Units | Description | | mg/L mg/L | Set Up Calibration Read Off Calibration | | | |
| | | | | °C | Set Up Temperature Read Off Temperature | Standa | Conductivity @ Method: SM2 rds ran for each | |
| | | | | mm Hg | Set Up Barometer | Results | Units | Description |
| | | | | mm Hg | Read Off Barometer | | umhos/cm umhos/cm | Conductivity Standard Conductivity Standard |
| 1 | | | | Fecal Colif Method: SM922 | | | umhos/cm | Conductivity Standard |
| | | | Results | Units | Description | | | |
| | | | | CFU/100ml | Pre Blank | | | |
| | | | | CFU/100ml | Post Blank | | | |
| l | | | | TDS by SM2 | 540/C | | | |
| 1 | | | Results | Units | Description | | | |
| | | | | mg/L | Blank | | | |
| | | | E. co | li By IDEXX Colile | ert (enumeration) | | | |
| | | | | MPN/100 mL | | | | |
| | | | | | | | | |

Report Out Date: <u>05/19/2025</u>

Lisa Soward Data Manager

Visasoward

Environmental Monitoring Laboratory + P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 + Phone: (254) 582-2622

Purchase Order / Chain of Custody

East Texas Division 14295 S.H. 155 North Winona, Texas 75792 Office: 903-877-9222 Emergency: 817-357-6535 Southwest Division 811 E. Young Street Llano, Texas 78643 Office: 325-247-3295 Emergency: 254-582-2622

Report To: (Buyer) Purchase Order #:

からかく

2

Report To:

3/

Day

Company:

Panhandle Division 13260 South US Hwy 287 Amarillo, Texas 79118 Offices 805-335-9393 Emergency; 806-786-0619

TCEQ Lab ID: T104704247

Address:

25051541

Email: Kilgore, project monagement

EPA Lab ID: TX01547

34 East Ave., Schulenburg, Texas 78956 Office: 979-743-7010 Emergency: 254-221-3201

Analyzed in Amarillo Location of Environmental Monatoring Laboratory, LLC 13260-South US Highway 287 Amarillo TX 79118-7005 Sample Remarks NOTES: ANALYSES REQUESTED ALKALINITY **WESS** E.COLI (Sterile) *EECAL COLIFORM* NH3N (pH<2.0, H₂SO₄) SM4500-NH3 D or G unless

DO

Hq

SST

+ Bottle Code

"Pres Code

Time

Date

Matrix

Client Sample ID

2.5%

5/13/15

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1. Panhandle

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City, State:

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Project Location: Yanhan P

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Project Name:

Phone: Email:

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Phone:

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(Please Print)

Sampler:

Pick-up:

Hand Deliver:

Lab#

IR GUN ID: 1 1004 10:01 9 Preservation Codes:
1. None
2. Suffuric
3. Nition
4. NaOH + ZnAc
5. NaOH
6. Steffe + Throsulfate Temperature: ice: (YES) Revised 06/2024 Time 54 2 Email us at: homeoffice@yourwaterlab.com Date 5-13-25 52/01/50 2 Complete sample information is vital for proper login and reporting. EMI. may need to subcontract some analyses due to equipment or procedural limitations. 1. ERIK SCARBORO WAH Received By: 2. TX 4. က် Time 1215 1540 Check us out on the web: http://www.yourwaterlab.com 6 Date -13.2 13 3 SCARBOROWAH るとけること 6 Relinquished By: ERIK

Page 4 of 4

Final 1.000

Appendix H

Annual Cropping Plan

Appendix H Annual Cropping Plan – Wheat and Alfalfa

- A. See Attached Soil Map
- B. Alfalfa is the warm season plant species and wheat is the cool season plant species.
- C. Typical Annual Growing Season is as follows:

Typical Annual Growing Season

| January | X |
|-----------|---|
| February | X |
| March | X |
| April | X |
| May | X |
| June | X |
| July | X |
| August | X |
| September | X |
| October | X |
| November | X |
| December | X |

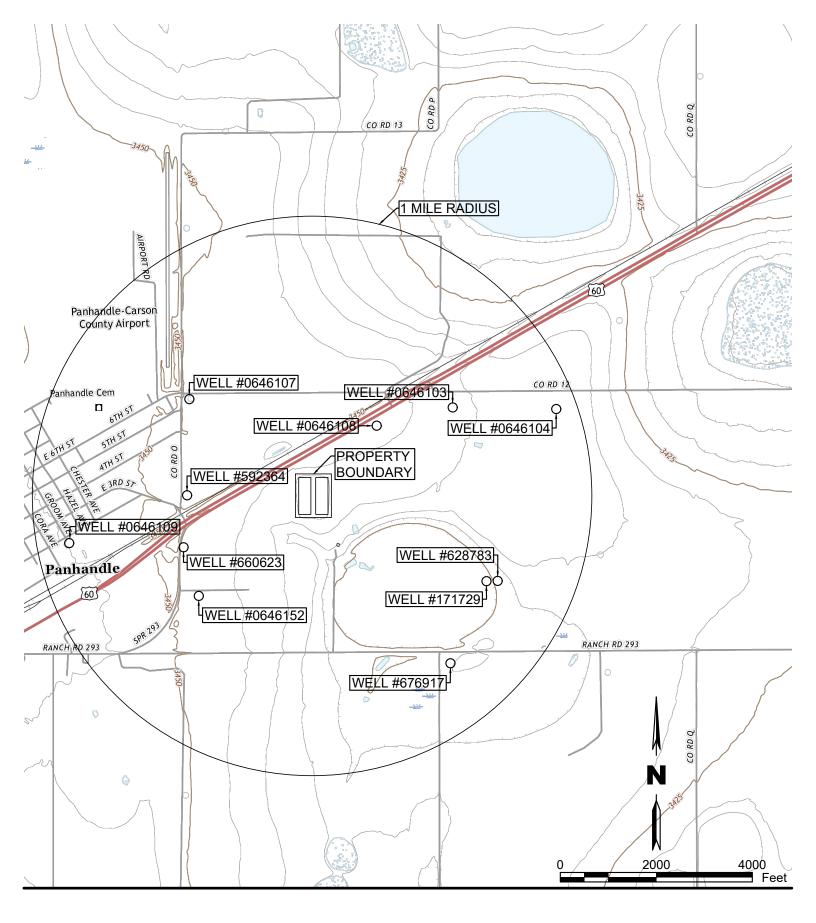
D. Crop nutrient requirements:

Nutrient Uptake Rates for Selected Crops

| Crop | Nitrogen | Phosphorus | Potassium |
|---------|------------|------------|------------|
| | (lb/ac-yr) | (lb/ac-yr) | (lb/ac-yr) |
| Alfalfa | 448 | 28 | 185 |
| Wheat | 143 | 13 | 40 |

- E. There is no minimum or maximum harvest height. The crop will be harvested as-needed.
- F. No supplemental watering will be required.
- G. According to Table 3 of TAC §§ 309.20, both alfalfa and wheat are relatively salt tolerant with an electrical conductivity of 6.0 8.0 millimhos/cm @ 25° Celsius.
- H. The harvesting method will consist of baling, approximately 2-3 times per year.
- I. No additional fertilization will be necessary.
- J. N/A

Appendix I
Well Map and Information



City of Panhandle WWTP Permit Renewal

City of Panhandle P.O. Box 129 Panhandle, TX 79083



Parkhill.com

Well Map

 Issue:
 New

 Date:
 06/24/2025

 Project No:
 45268.25

 Sheet:
 1 OF 1

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

| Aquifer PA | и. Д. No. <i>СА</i> - 568 | State V | ieli Na <i>DA06</i> | 46-1 | /o 4 - |
|---|------------------------------|---------------|---------------------|---|-----------------------|
| | er's Well No. | | CARSON | | - - - |
| 1. Location: NW_1/4, NE_1/4 Sec_23, Block | 2Survey_7_7 | | | | Ø |
| 2. Owner: Clifford Wassen | Address | Pa | nhandle | , j | |
| Harold Knapp | Address: | | d ₀ | - | |
| Driller: Panhandle Irril | | | | +- | +-+ |
| 3. Elevation of \(\setminus \mathbb{D} | | determined by | | . L <u>. </u> | |
| 4. <u>Drilled</u> : 6-1- 1965; Dug, | | | CASING & BLAN | | |
| 5. Depth: Reptft. Meas. 645 | _ | Diam. | ced From Type | t. toSettin | ng, ft. |
| 6. Completion: Open Hole, Streight Wall, Underreamed | | $ed_{}$ (in.) | | from | to |
| 7. Fump: Mfgr. Laybe (Amax. 6. | , as - | // | Cto 1 | | 1 |
| No. Stages / //, Bowls Diam. / Q_in., Set | • | -16- | Steel_ | $ Q_{} $ | 635_ |
| 8. Motor: Fuel ALG | | | - | | |
| 9. Yield: Flowgpm, Pump 800 gpm, Mess. | | | | | |
| 10. Performance Test: DateLength of Test | | | | | |
| Static Level 35 ft. Pumping Level 60 Qft. | = · · | · | - | | |
| Production gpm Specific Capacit | | | | | |
| | | | which is | ft. al | bove surface. |
| 11. Water Level:ft. rept. meas19ft. rept. meas19 | below | | which is | rt. al | elow Dove surface. |
| | | | | | |
| ft. rept. 19 | below | | which is | ft. a) | elow Dove surface. |
| 12. Use: Dom., Stock, Public Supply, Ind., (Irr.) | DETON | | | | |
| 13. Quality: (Remarks on taste, odor, color, etc.) | | | | | |
| Temp °F, Date sampled for enalysis | | | WELL SCI | · · · · · · · · · · · · · · · · · · · | |
| Temp °F, Date sampled for analysis | | _ | reen Openings | | |
| Temp °F, Date sampled for analysis | | Diem. | Туре | Settir from | ng, ft. |
| 14. Other data available as circled: (Driller's Log) R. | | | | | |
| Formation Samples, Pumping Test, | | 1/6_ | Perf. | 355 | 635 |
| 15, Record by: | Date_517- | | | | |
| Source of Data WD VECONDS_ | £'Obs | | | | |
| 16. Remarks: | | | | | |
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WATER WELL LOCATION SKETC TEXAS WATER DEVELOPMENT BOARD GROUND WATER DATA & PROTECTION

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| | | | | | | | | | | | | | | 7% | i-mir | nute | Qua | dra | ngle <u>46</u> | | | | |
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| 3. Cour | nty C | Labor | Le | agne — | | Но | mestead | <u>-</u> | |
| 4. NW | 1/4 NE | 1/4 SWI/4 SE1/4 Section_ | 42 23 4 | Blo | ck 🗓 🖠 | <u> </u> | Survey | 7 T Ty 00. | |
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| 325 | 355 | Sandy Clay Sandston | 10 | 640 | 645 | Red I | led . | | |
| 355 | 386 | Sandy Clay Sandston | l e | | | | | | |
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| | _ | at this well was drilled by me | | y supe | rvision), | , and tha | t each and | all of the stat | ements |
| | | to the best of my knowledge | | - 61 - | Tava | | / | 7 | ميو ا |
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| 8. Pun | no Colu | mn: Sizein. Total leng | rth 550 _ft. | Suctio | n pipe: : | Size | in. Lens | th 16 | ft. |
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Final Completion of Well — Date June 8 1965 Llood

PUGATE PRINTING-PARINE.

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

| Aquifer | DIST, CA. | -633 | State Well | No.DA-06 | -46- | 108 |
|--|--------------------------|--------------------------|----------------|---------------|-----------------|--|
| | | | County_ 🧘 | CARSON | <u>/</u> | |
| Approx. Certer of | _ | | | | | |
| 1. Location:1/4, NE_1/4 Sec. 38 | , Block_2 | _ Survey_T_T_RR. | | | | |
| <u></u> | | | | | F-+- | † - Ø |
| 2. Owner: John Avnn. | | Address: | Pani | bandle | | |
| Parter Brown | <u></u> | _ Address: | da | | ! | |
| Driller: Panhande I | exx-Inc. | Address: | d | | -+- | † + |
| 3. Elevation of | | | by Tapea. | | | <u> </u> |
| 4. <u>Drilled:</u> 6-8- 1966 | _; Dug, Cable Tool (Ro | ntary, | | CASING & BLAN | K PIPE | |
| 5. Depth: Reptft. Meas | 765 n.64 D | Z | Cemented | | . to | ft. |
| 6. Completion: Open Hole, Straight Wall, Un | derreamed, Gravel Packed | Cased | Diam. (in.) | Туре | Settin from | g, ft. |
| 7. Pump: Mfgr. Layne Am | - 1.3 | | | | | |
| No. Stages //, Bowls Diam. /Q | / | | 123/4 | Steel | 0 | 760 |
| Column Diam. $\mathcal{E}_{}$ in., Length | Tailpipe | _ft. | | | | - |
| 8. Motor: Fuel N.C. Ma | | | 1 7 | | | |
| 9. Yield: Flow gpm, Pump 980 | | | | | | |
| 10. Performance Test: Date Len | | _ | | | | |
| Static Level 355ft. Pumping Level | | | | | | 1 |
| Productiongpm Specif | | | | | <u> </u> | |
| 11. Water Level: 355, Oft. (ept) | ¹⁹ -06 above | | | which is | ft, so | ove surface. |
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| | 19above | . | | which is | ft. ab | ove surface. |
| ft. rept. | 19above | | | | ft. ab | |
| 12. Use: Dom., Stock, Public Supply, Inc | DETOM | g, Observation, Not Used | , | | | |
| 13. Quality: (Remarks on teste, odor, color, | | | | | | |
| Temp °F, Date sampled for analys | isLabor | ratory | | WELL SCR | nio. | |
| Temp °F, Date sampled for smalys | | | | n Openings | E.E.M | |
| Temp °F, Date sampled for analys | | | Diam. | Туре | Settin from | g, ft. |
| 14. Other data available as circled: Criller | | | | | | |
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| 15. Record by: HEC | Dat | 105-17- 197Z | | İ | | |
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WATER WELL LOCATION SKETCH TEXAS WATER DEVELOPMENT BOARD GROUND WATER DATA & PROTECTION

| | | • | 2½-minute Quadrangle 4 | in |
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Well No. 06 . 46 . 108

MAKE 3 Copies

FORM NO. 354R-LW

District File No. CA - 633

Triplicate — County Coming cemen For Use of District OF ONL Panhandle Underground Water Conservation District No. 3

REGISTRATION and LOG OF WELL

FOR USE OF DISTRICT Field Well No. Date Received

| | | NS: Fill out in quadruplicate. Submit all copiesion. (PLEASE TYPE OR PRINT) | s to Distric | t Office : | for Pump 6 in Yield 10:0 GPM |
|----------------|-----------|---|----------------|------------------|--|
| l. Wel | l Owne | or John Bann | Addres | sP | mhandle, Texas |
| | | | miles l | Е, | miles W of the town ofPashendle |
| | | | | | Homestead |
| | <u>.</u> | | | | 2 Survey |
| . • | | E ONE) | | | yards from N or this tract of land. |
| ACTU | AL LOCA | TION OF THIS WELL IS | | | |
| | | , 2 | | \mathbf{Y}_{i} | yards from E or W line of this tract of land. |
| | | DRILLER'S I | LOG O | F W | ELL |
| | | Method of Drilling: | | | |
| FROM (FEET) | (FEET) | | FROM (FEET) | (FEET) | DESCRIPTION OF FORMATION MATERIAL |
| Ó | 5 | Tep Soil | 355 | 306 | Sandy Clay Little Clay Sondstone |
| 5 | 80 | Caliche | 306 | 416 | Send Sendy Clay Calione Streaks |
| 80 | 140 | Send Caliche | 416 | 447 | Sand Sandy Clay |
| 140 | 172 | Caliche Clay Send | 447 | 508 | Fine Sandy Clay |
| 172 | 205 | Clay Little Sand | 508 | 530 | Fine Sandy Clay Clay Streeks |
| 203 | 233 | Sand Caliche Lit tle Clay | 538 | 569 | Pine Sendy Clay Clay Streaks |
| 233 | 264 | Sand Caliche | 569 595 | 630 | Fine Sand Clay Caly Streets Ned. to Course Sand Little Gravel |
| 264 | 294 | Bend Caliche | 630 660 | 660 | Med. to Coarse Sand Little Gravel Med. to Coarse Sand Little Gravel |
| 294 | 325 | Band Sandy Clay Sandstone | 691 721 | 721 752 | Med. to Course Sand & Clay |
| | | | 752 | 765 | Red, to Xeerse Sand & Clay |
| 325 | 355 | Sandy Clay Little Sandstone | | | 4 |
| erein | are tru | e to the best of my knowledge and belief | andle, | Pezas | and that each and all of the statements Date Drilled |
| 3. Cas | sing: ne | ew, used, gas line, or shop made. Diame | ter 18 | 3/4 | in. Total length 760 ft. |
| 7. Cas | ing per | forations: from 497 ft. to ft. | ft. Size . | Zo. | Number per foot 10 Row |
| 3. Pur | np Col | umn: Size 1 in, Total length | t. Suctio | n pipe: | Size in. Length ft. |
| | | | | | np discharge pipe: Size in. |
| | _ | • | | | |
| | | | _ | | GPM. Pumping level: 410 ft. |
| ı. Pot | ver Uni | it: Electrical, Natural Gas, Butane, Other | | | Horsepower |
| ignatı | ıre | OWNER OR AGENT | | | ADDRESS |
| | | owner or agent spletion of Well — Date | | | |
| A: AEI | | | | | 7977.C |
| FUGA | TE PRINTI | NGPAMPA | | | MANAGER |

STATE OF TEXAS WELL REPORT for Tracking #171729

Owner: U. S. Department of Energy Owner Well #: TLAP Area 101

Address: **HWY 60 & FM 2373** Grid #: **06-46-1**

Amarillo, TX 79120

Well Location: **HWY 60 & FM 2373**Latitude: **35° 20' 36" N**

Amarillo, TX 79120 Longitude: 101° 20' 36" W

Well County: Carson Elevation: 3540 ft. above sea level

Plugged Within 48 Hours

This well has been plugged

Plugging Report Tracking #123617

Type of Work: New Well Proposed Use: Environmental Soil Boring

Drilling Start Date: 1/13/2009 Drilling End Date: 1/13/2009

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

 Borehole:
 2
 0
 2.5

Drilling Method: Bored

Borehole Completion: Open Hole

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Soil

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

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

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Unknown

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Plug Information:

Description (number of sacks & material)

Top Depth (ft.)

Bottom Depth (ft.)

18 soil boring (0-30") collected in ag land and back filled with soil - all borings in general area of referenced coordinates.

| | Strata Depth (ft.) | Water Type | |
|----------------|--------------------|------------|--|
| Water Quality: | No Data | No Data | |

Chemical Analysis Made: Unknown

Did the driller knowingly penetrate any strata which

contained injurious constituents?: Unknown

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

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

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

Company Information: U. S. Departmen of Energy

HWY 60 & FM 2373 Amarillo, TX 79120

Driller Name: Roy Burson License Number: 2585

Comments: 18 soil borings (0-30") collected in ag land and backfilled with surface soil - all

borings in general area of referenced coordinates.

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

| From (ft) To (ft) Description | Dia. (in.) New/Used Type Setting From/To (ft.) |
|-------------------------------|--|
| Top soil and reddish clay | No Data |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

STATE OF TEXAS PLUGGING REPORT for Tracking #123617

Owner: U. S. Department of Energy Owner Well #: TLAP Area 101

Address: **HWY 60 & FM 2373** Grid #: **06-46-1**

Amarillo, TX 79120

Well Location: **HWY 60 & FM 2373** Latitude: **35° 20' 36" N**

Amarillo, TX 79120 Longitude: 101° 20' 36" W

Well County: Carson Elevation: 3540

Well Type: Environmental Soil Boring

Drilling Information

Company: U. S. Departmen of Energy Date Drilled: 1/13/2009

Driller: Roy L Burson License Number: 2585

Well Report Tracking #171729

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

 Borehole:
 2
 0
 2.5

Plugging Information

Date Plugged: 1/13/2009 Plugger: Roy Burson

Plug Method: Unknown

Casing Left in Well: Plug(s) Placed in Well:

Description (number of sacks & material)

No Data

18 soil boring (0-30") collected in ag
land and back filled with soil - all
borings in general area of referenced

coordinates.

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: U. S. Departmen of Energy

HWY 60 & FM 2373 Amarillo, TX 79120

Driller Name: Roy Burson License Number: 2585

Comments: 18 soil borings (0-30") collected in ag land and backfilled with surface soil - all

borings in general area of referenced coordinates.



Texas Water Development Board Well Schedule



CASING INTERVALS: Casing/Blank Pipe (C)

Open Hole (O)

Dia.

(in.)

16

16

16

 \mathbf{C}

S

Well Screen/Slotted Zone (S)

Top

(ft.)

540

710

Bottom

(ft.)

540

710

720

65 6-46-109 County: Carson State Well Number: Previous Well Number:

Coordinate Accuracy: **Global Positioning System - GPS** Latitude (dms): 352043 Longitude (dms): 1012219

River Basin: Red River GMA: 1 RWPA: A GCD: Panhandle GCD

Aquifer ID: Ogallala Owner: City of Panhandle Driller: L.T. Drilling Co.

#1-06 or Groom well Aguifer Code: 1210GLL

OGALLALA Depth (ft): 720 **FORMATION** Elevation (ft): 3457

Source of Elevation: Digital Elevation Source of Depth: Driller's Log

Model -DEM

Date Drilled: 10/27/2006 Well Type: Withdrawal of Water

Type of Lift: Power: Horsepower:

Construction: Reverse Rotary Completion: Gravel Pack w/Screen

Casing Material: Steel Screen Material: Stainless Steel

WATER USE

Primary: **Public** Secondary: Tertiary:

Supply

Water Levels: Miscellaneous Measurements Water Quality: N

1 measurement

2006 Other Data: Logs: D

-431

Reporting Agency: TWC/TNRCC/TCEQ REMARKS:

Owners #1-06 or Groom St. well, PWS ID #0330002D. Cemented from 0 to 455 feet. Gravel packed from 465 to #96397.

720 feet. Drillers report tracking

Date Collected or Reported: 11/16/2010

Recorded by: D. R. Jones

Tuesday, November 16, 2010 State Well Number: 6-46-109



| TRACKING# 96397 STATE O | F TEXAS WELL REPORT Date Entered: 10/26/2006 |
|--|---|
| OWNER: City of Panhandle | OWNER PO Box 129 ADDRESS: Panhandle TX 79068 |
| ADDRESS OF WELL'S LOCATION: Sec 53, Blk 2, TTRR Panhandle , TX 79068 | ADDRESS. Falliande , 1A 77000 |
| COUNTY: Carson LATITUDE: 352043 LONG | ITUDE: 1012219 Brand/Model of GPS: |
| Owner's Well Number: WW 1-06 ELEV | ATION: Grid Number: 06 - 46 - 1 |
| TYPE OF WORK: PROPOSED USE | : Monitor Well Env. Soil Boring Domestic Test Well |
| ✓ New Well | ☐ Irrigation ☐ Injection ☐ Geothermal Heat Loop |
| ☐ Deepening ☐ Reconditioning ✓ Public Sup | ply De-watering Rig Supply Stock or Livestock |
| If Public S | upply well, were plans submitted to the TNRCC? 🗹 Yes 🗌 No |
| WELL LOG: DIAMETER OF HOLE | DRILLING METHOD: |
| Date Drilling Dia. (in) From (ft.) To (ft.) 24 Surface 720 | The Hammer Tronow Stell Auger Dored |
| Started 7/21/2006 24 Surface 720 | ☐ Air Rotary ☐ Cable Tool ☑ Reverse Circulation |
| Completed 10/27/2006 | ☐ Mud Rotary ☐ Jetted ☐ Other |
| | ANNULAR SEAL DATA |
| BOREHOLE COMPLETION: | From 0 ft. to 455 ft. #Sacks + Material |
| Open Hole Underreamed Other | From ft. to ft. #Sacks + Material |
| ☐ Straight Wall ✓ Gravel Packed | From ft. to ft. #Sacks + Material |
| Gravel Packed Interval from 465 ft. to 720 ft. | Method Used |
| Size 8/12 | Cemented By |
| SURFACE COMPLETION: | Distance to Septic System None obsrv Distance to Property Line: |
| Surface Slab Installed Pitless Adapter Used | Method of Verification Estimated |
| Surface Sleeve Installed Alternative Procedure Use | |
| WATER LEVEL: | PLUGGING INFO: |
| Static Level 431 ft. below land surface | ☐ Well Plugged within 48 hours |
| Artesian Flow gpm. Date 7/22. | Casing left in well: Cement/Bentonite left in well: |
| | From (ft.) To (ft. From (ft.) To (ft.) Cem/Bent Sacks Used: |
| TYPE OF PUMP: | |
| ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder ☐ Other | |
| Depth to pump bowls, cylinder, jet, etc. | PACKERS: |
| WELL TESTS: | Type Depth |
| Type of test: Pump Bailer Jetted Esti | mated |
| Yield: gpm with ft. drawdown after | hrs. |

Did Driller knowingly penetrate any strata which __Yes contained undesirable constituents? Depth of Strata: ✓ No ✓ Yes □ No Chemical Analysis made? COMPANY NAME: LT Drilling Company 2366 WELL DRILLER'S LICENSE NO. ADDRESS PO Box 784 Sunray TX 79086 Name as Signature Randal James Taylor

Registered Driller Apprentice

Type of water:

Driller Comments

WATER QUALITY:

WELL REPORT CONFIDENTIALITY NOTICE

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> Texas Department of Licensing Regulation Water Well Driller/Pump Installer Section P.O. Box 12157 Austin, TX 78711 Toll free (800)803-9202 (512)463-7880 FAX (512)463-8616

Email address: water.well@license.state.tx.us Web address: www.license.state.tx.us

DESCRIPTION AND COLOR OF FORMATION MATERIAL

From (ft.) To (ft.) Description

0 - 4 Surface

4 - 200 Br sandy clay + clay

200 - 380 Fine sand w/sandy clay strips

380 - 440 Br clay w/fine sand strips

440 - 540 Gray & br sandy clay + clay w/little sand strips

540 - 570 Fine sand

570 - 709 Med to coarse sand w/small gravel strips

709 - 720 Br & red clay

CASING, BLANK PIPE, AND WELL SCREEN DATA

Dia. New/Used Type Setting From/To Gage +1 - 540 16 Ν Blank steel

16 N Stainless steel screen 540 - 710 .040 .304 16

N Blank steel 710 - 720 STATE OF TEXAS WELL REPORT for Tracking #96397

Owner: City of Panhandle Owner Well #: WW 1-06

Address: **PO Box 129** Grid #: **06-46-1**

Panhandle, TX 79068

Latitude: 35° 20' 43" N

Panhandle, TX 79068 Longitude: 101° 22' 19" W

Well County: Carson Elevation: No Data

Type of Work: New Well Proposed Use: Public Supply

Drilling Start Date: 7/21/2006 Drilling End Date: 10/26/2006 Plans Approved by TCEQ - YES

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

 Borehole:
 24
 0
 720

Drilling Method: Reverse Circulation

Sec 53, Blk 2, TTRR

Borehole Completion: Filter Packed

Well Location:

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

Filter Pack Intervals: 465 720 Gravel 8/12

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

455

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

Sealed By: Unknown Distance to Septic Field or other

concentrated contamination (ft.): None obsrvd

Distance to Septic Tank (ft.): No Data

Method of Verification: Estimated

Surface Completion: Unknown

Water Level: 431 ft. below land surface on 2006-07-22 Measurement Method: Unknown

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

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

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which

contained injurious constituents?: No

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

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

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

Company Information: L T Drilling Company

PO Box 784

Sunray, TX 79086

Driller Name: Randal James Taylor License Number: 2366

Comments: TWDB SW #06-46-109 Doc Jones 11/16/2010

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 4 | Surface |
| 4 | 200 | Br sandy clay + clay |
| 200 | 380 | Fine sand w/sandy clay strips |
| 380 | 440 | Br clay w/fine sand strips |
| 440 | 540 | Gray & br sandy clay + clay w/little sand strips |
| 540 | 570 | Fine sand |
| 570 | 709 | Med to coarse sand w/small gravel strips |
| 709 | 720 | Br & red clay |

| Dia. (in.) New/Used | Type | Setting From/To (ft.) | |
|---|------|-----------------------|--|
| 16 N Blank steel +1 - 540 | | | |
| 16 N Stainless steel screen 540 - 710 .040 .304 | | | |
| 16 N Blank steel 710 - 720 | | | |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #628783

Owner: Williams Family Land, LLC Owner Well #:

Address: 970 Hwy 207 Grid #: 06-46-1

Panhandle, TX 79068

Well Location: SW/4, SEC 23, BLK 2, TTRR

Panhandle, TX Longitude: 101° 20' 31.38" W

Well County: Carson Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 1/5/2023 Drilling End Date: 1/6/2023

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

 Borehole:
 24
 0
 759

Drilling Method: Reverse Circulation

Borehole Completion: Filter Packed

Filter Pack Intervals:

Top Depth (ft.)

Bottom Depth (ft.)

Filter Material

Size

Huber 90f/10c

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Cement 10 Bags/Sacks

Seal Method: Gravity Distance to Property Line (ft.): 1305' N 1302' W

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

concentrated contamination (ft.): 5280'

Distance to Septic Tank (ft.): No Data

Method of Verification: Permit 65129513

IRR 4-23

Surface Completion: Surface Slab Installed Surface Completion by Driller

Water Level: 434 ft. below land surface on 2023-01-07 Measurement Method: Bailer

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Type
Water Quality:

434 - 759

No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

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

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

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

Company Information: Hydro Resources Mid Continent Inc.

PO Box 784

Sunray, TX 79086

Driller Name: Randy Taylor License Number: 2366

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 90 | surface soil, brown clay w/sandy strips, caliche |
| 90 | 400 | sand w/brown clay strips |
| 400 | 460 | brown & gray sandy clay w/fine sand strips w/clay mix |
| 460 | 520 | fine sand w/gray & brown clay mix |
| 520 | 600 | fine, med & coarse sand w/brown clay mix |
| 600 | 640 | brown & red sandy clay w/sand strips (fine) |
| 640 | 720 | fine sand w/brown clay mix & brown sandy clay |
| 720 | 759 | fine sand to coarse sand to red clay |

Casing: BLANK PIPE & WELL SCREEN DATA

| Dla (in.) | Туре | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|--------------|-----------------------|-----------|-----------|-----------|-----------------|
| 16 | Blank | New Steel | 0.25 | -2 | 459 |
| 16 | Perforated or Slotted | New Steel | 0.1 | 459 | 739 |
| 16 | Blank | New Steel | 0.25 | 739 | 759 |

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Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540 STATE OF TEXAS WELL REPORT for Tracking #676917

Owner: Jason Smith Owner Well #: 1

Address: **PO Box 872** Grid #: **06-46-1**

Panhandle, TX 79068

Well Location: Section 22 BLK 2 TT RR

Panhandle, TX 79068 Longitude: 101° 20' 41.91" W

Well County: Carson Elevation: 3420 ft. above sea level

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 6/25/2024 Drilling End Date: 6/25/2024

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

 Borehole:
 17.5
 0
 50

9 50 660

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

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

Filter Pack Intervals: 25 660 Gravel Huber 1 Fine

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Concrete 10 Bags/Sacks

Seal Method: **Hand Mixed** Distance to Property Line (ft.): **365**

Sealed By: **Driller**Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): No Data

Distance to deptie Tank (it.). No Data

Method of Verification: No Data

Surface Completion: Pitless Adapter Used Surface Completion by Driller

Water Level: 441 ft. below land surface on 2024-06-28

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 560

Well Tests: Pump Yield: 17.5 GPM with 0 ft. drawdown after unspecified hours

Water Type
Water Quality:

441 - 660

No Data

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

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

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

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

Company Information: Lichtie Pump Service

801 FRONT ST Groom, TX 79039

Driller Name: Matt Lichtie License Number: 59419

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---|
| 0 | 3 | Top Soil |
| 3 | 20 | Lost Circulation |
| 20 | 50 | Sand w/ Clay Strips |
| 50 | 220 | Brown Clay w/ Sand and Caliche Strips |
| 220 | 400 | Brown Clay w/ Sand and Sandstone Strips |
| 400 | 450 | Blue and Pink Clay |
| 450 | 540 | Brown Sticky Clay |
| 540 | 590 | Medium to Coarse Sand w/ Gravel Strips |
| 590 | 620 | Coarse Sand w/ Large Gravel Strips |
| 620 | 640 | Fine Sand to Pink Clay |
| 640 | 660 | Pink Clay |

Casing: BLANK PIPE & WELL SCREEN DATA

| Dla (in.) | Туре | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|--------------|-----------------------|----------------------|--------------|-----------|-----------------|
| 5.5 | Blank | New Steel | .250 | 0 | 4 |
| 5.5 | Blank | New Plastic (PVC) | 250 | 4 | 450 |
| 5.5 | Perforated or Slotted | New Plastic (PVC) | 200 0.035 | 450 | 650 |
| 5.5 | Blank | New Plastic (PVC) | 200 | 650 | 660 |

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

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

TEXAS DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

| | WELL SCHEDULE | | | | 107 |
|----|--|--------------------|---|--------------|--|
| | Aquifer(s)OGALLALA Project No. | State We | 11 No. 0 | 6 _ 46 | 1 |
| | Field No./Owner's Well No.CA- 271 | | | | |
| ١. | Location: 4, NW 4, Section 38 , Block 2 , Survey Tyler Taj | | | | |
| | | | | | |
| | | | | | |
| 2. | Owner: Panhandle Farms, Inc. Address: Panhar | ndle, | Texas_ | | |
| | Tenant (other):Address: | | | | |
| | Driller: Carroll Lisenbe Panhandle Trp. Address: Panhan | ndle, | Texas | | |
| 3. | Land Surface Elevation: 3448 ft. above msl determined by TOPO | | | · | |
| 4. | Drilled: 1-23 19 57; Dug, Cable Tool, Rotary, Air, | | | | |
| 5. | Oepth: Rept ft. Meas ft. | | | PIPE & WEI | |
| 6. | Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed | Diam. | Type | ft.to_ | ft. g (feet) |
| 7. | Pump: MfrType | (in.) | | from | to |
| | No. Stages9, Bowls Diam10in., Settingft. | 1 2-3/4 | new | 0 | 789 |
| | Column Diam6_in., Length Tailplpeft. | | | | |
| 3. | Motor: Mfr. Fuel Natural Gas HP. 75 | | | | |
| 9. | Yield: Flowgpm, Pump 600gpm, Heas., Rept., EstDate | _ | v = v | <u> </u> | ļ |
| ٥. | Performance Test: Date Length of Test Made by | _ | | | |
| | Static Level 330 ft. Pumping Level 360 ft. Drawdown ft. | | | 1 | - |
| | Productiongpm Specific Capacitygpm/ft. | | · - · · · · · · · · · · · · · · · · · · | | 1 |
| ۱. | Quality: (Remarks on taste, odor, color, etc.) | | | | |
| | Analyses | | | | - |
| | Date | | | | |
| | Date | | | - | |
| 2. | Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log, | | | | |
| | Formation Samples, Geophysical Log(s)(type) | | | <u> </u> | |
| 3. | Water Level(s):ft. rept above above | which i | s ft | above Lar | nd Surface |
| | ft. rept. 19 above | | | | |
| ١. | Use: Dom., Stock, Public Supply, Ind., (rr), Observation, Other (Test Hole, Oi | | | | |
| | Recorded by: Richard S. Bowerssource of data: PGWCD #fi | | | | |
| | Remarks: | | | | |
| | | | | | |
| | | | | | |
| 7. | Location or Sketch: | | | | |
| | 2 miles east of Panhandle. Texas. | | | | |

W/L Obs. Well _____ W/Q Obs. Well _ State Well No. 06-46-1C

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

| Aquifer | DIST. Sield No. CH = 271 | State Well | NODA-QQ ARSON | | <i>1</i> 0 7 |
|---|---|-----------------------|----------------------------|----------------|--|
| 1. Location: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | _, Block_ Z Survey_ Z_ | T. R | | 0 | 1 |
| 2. Owner: Elliot Sanford | | | | | |
| Tenant: Driller: Cavvoll Lisena | | | | . + | + |
| 3. Elevation of ASD 4. Drilled: /-3- 1957 | is 3448 ft. above ma | 1, determined by Tapa | CASING & BLAN | W PTPE | |
| 5. Depth: Reptft. MeasZ | | Cemented Diam. | - | . to | ft. |
| 6. Completion: Open Hole, Straight Wall, Und | | d (in.) | | from | to |
| 7. Pump: Mfgrcuyne(Ame.] No. Stages, Bowls Diam./O | | 123/4 | Steel | 0 | 289 |
| Column Diamin., Length | Tailpipeft. | | 01142411 | | _//_ |
| 8. Motor: Fuel NG Make | | | | - | |
| 9. Yield: Flow gpm, Fump 600 g | | | | | |
| 10. Performance Test: Date Leng Static Level 330ft. Pumping Level 3 | | | | | |
| Production gpm Specifi | | | | | |
| 11. Water Level: 330 Q ft. Cept. Tept. 19 above below 19 above below 19 above below 19 above below | | which is which is which is | re ft. ab | cove surface. cove surface. clow cove surface. cove surface. |
| 12. <u>Use</u> : Dom., Stock, Public Supply, Ind 13. <u>Guality</u> : (Remarks on teste, odor, color, | | on, Not Used, | | | |
| Temp °F, Date sampled for analysi | Laboratory | | WELL SCR | EEN | |
| Temp. °F, Date sampled for analysi | | Diam. | Туре | Settin from | g, ft. |
| 14. Other data available as circled: Driller's Formation Samples, Pumping Test, | s Log, Redioactivity Log, Electric L | og, 123/ ₄ | Pert | 634 | 289 |
| 15. Record by: HEC Source of Data WD VCCO | Vas £ 0 hs | 21922 | | _ | |
| 16. Remarks: | • | | | | |
| | | | | | · |
| | | | | | |
| | | | | | |
| Can measure WL | | | | | |

TEXAS WATER DEVELOPMENT BOARD 211 County // GROUND-WATER DIVISION WATER-LEVEL MEASUREMENTS Location AlWare 38 BIK-2 TTKI To obtain "Depth to Water from LSD", Algebraically Add // Ft. to "Depth to Water From MP" (Depth to Water From MP is negative when the water level is below the MP) State Well Number Land Surface Datum Elevation Depth to Change in Mater Sur-face Elev. Since Last W. Since Last Meas.in Ft. Date Of Date Of Depth to Lest Water From Water From To Be Used Later Current LSD in Meas. LSD in Meas. Depth to Ft. Last Ft.Current Since Last Remarks Water Meas. Ho. Day Year Mo. Day Tear Heas. Meas.in Ft. From MP Year Record Leave County ___ Aquifer 155 Watershed Blank Card Begins

WATER WELL LOCATION SKETCH TEXAS WATER DEVELOPMENT BOARD

GROUND WATER DATA & PROTECTION

| | | Section 38 in Block 2 - TTRY CARSON County 2%-minute Quadrangle in 7%-minute Quadrangle 46 Sketch by HEC Date 5 - 17 - 72 |
|-----------------------|--|---|
| Panhandle Townsite | COUNTY ROAD COUNTY ROAD DATE OF THE SERVICE OF TH | 108 |
| Townsite | | -N- |
| 130 | F, M, 293 | |

Well No. 06 . 46 . 107

MAKE 3 Copies

| | | The second secon | | | |
|----------|----------|--|----------------|--------------------|---|
| ORM NO. | | District File | No. | 7 | FOR USE OF DISTRICT |
| - | | • • | | | Field Well No. X |
| anha | ndle (| Inderground Water Conservati | on Dist | trict N | 10.3.1 |
| RF | EGIS | TRATION and LOG (| OF W | VELI | Date Received 1-16-7 |
| INSTRU | UCTION | S: Fill out in quadruplicate. Submit all co | | | Cino of / // Montanna |
| for | registra | tion. (PLEASE TYPE OR PRINT) | | | |
| Well | Owner | Elliot Senford | _Addres | s | merillo, *exes |
| Well | located | miles N, miles S,2_ | _ miles I | Ξ, | miles W of the town of _Panhandle, Te |
| Count | ty | Carson Labor L | eague _ | | Homestead |
| NW1 | 4 NE1 | /4 SW1/4 SE1/4 Section | Blo | ck 2 _ | Survey Tyler Tep |
| | | (60 | | | yards from N or S line of this tract of land. |
| ACTUA | L LOCA | ATION OF THIS WELL IS | *** | r bourne | wards from E or W line of this tract of land. |
| | | (| 1116 | asureu) | rates from E or w line of this tract of land. |
| | | DRILLER'S L | .0G 0 | F W | ELL |
| | | Method of Drilling: | ery | | |
| ROM | то | DESCRIPTION OF FORMATION MATERIAL | FROM (FEET) | TO (FEET) | DESCRIPTION OF FORMATION MATERIAL |
| FEET) | (FEET) | | (FEEI) | (PEE) | |
| 0 | < | Top Doil | 332 | 350 | Sand |
| | | -109 021 | 332 | 362 | Sand sandstone, shale , rock |
| 5 | 15 | Caliche | 362 393 | 393 423 | Sand, clay, shale, rock clay- shale rock |
| 5_ | -318- | Clay | 123 | isi | clay shale rock little sand |
| | | | 454 | h8k | Sand, clay, white reck |
| 18 | 149 | Clay & fine Sand | 1.8h 515 | 515 545 | sandstone sand, clay |
| 1,9 | 370 | Clay & "ine Sand" | 545 | 576 | Sand, brown clay (coarse sand 560) |
| | -17 | • | 576 | 606 | YORISO SANG |
| 79 | 230 | Fine Sand & Clay | 606 637 | 637 645 | Coarse sand |
| 20 | 21:0 | Cley & Fine Sand | 616 | 647 | Sand & clay |
| | | | 6b7 | 667 | Sand & Clay Sand & Clay |
| dio | 271 | Clay & Kock | 667 | 69 8 708 | Coarse sand & clay |
| 273 | 301 | Clay & Hook | 708 | 728 | coarse sand & small gravel |
| | | | 728 | 759 | Course sand |
| 307 | 332 | Clay water sand | 159 | 784 | Cearse sand 78k-789 Hard Clay |
| T | 41 | at this well was deilled by me (or under | | wision) | , and that each and all of the statements |
| | | to the best of my knowledge and belief | | I VISIOII) | , and that each and an of the statements |
| | | | | | Date Drilled 3rd 195_7 |
| riller . | | Address | EN CHEROLIC | | Date Diffied |
| | | DESCRIPTION | ON OF | WE | LL |
| | | | | | |
| 3. Casi | ng: re | woused, gas line, or shop made. Diamet | ter | 12 3/1 | in. Total lengthft. |
| . Casi | ng perf | Forations: from | ft. Size | 2/1/ | Number per foot rows |
| | | | | | |
| 8. Pun | ıp Colu | mn: Size 6 in. Total length ken f | t. Suction | n pipe: | Size in. Length ft. |
| 9. Pun | np bow | ls: Size Number of stages _ | 9 | Pu | mp discharge pipe: Size in. |
| | _ | | _ | | GPM. Pumping level:ft. |
| | | | | | |
| Pow | er Unit | t: Electrical, Natural Gas, Butane, Other | | | , Horsepower 75 |

PAMPA PRINT BHOP, PAMPA, TEXAS

Final Completion of Well — Date .____

STATE OF TEXAS WELL REPORT for Tracking #660623

Owner: Matt Lichtie Owner Well #:

Address: **PO Box 545** Grid #: **06-46-1**

Groom, TX 79039

Well Location: Section 38 BLK 2 TT RR

Panhandle, TX 79068 Longitude: 101° 21' 50.4" W

Well County: Carson Elevation: 3454 ft. above sea level

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 10/12/2023 Drilling End Date: 10/12/2023

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

 Borehole:
 9
 0
 710

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

Filter Pack Intervals:

Top Depth (ft.)

Bottom Depth (ft.)

Filter Material

Size

Huber 1 Fine

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Concrete 8 Bags/Sacks

Seal Method: **Hand Mixed**Distance to Property Line (ft.): **85**

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

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Pitless Adapter Used Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

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

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: **No**

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

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

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

Company Information: Lichtie Pump Service

801 FRONT ST Groom, TX 79039

Driller Name: Matt Lichtie License Number: 59419

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.) Bottom (ft.) Description 0 5 Top Soil 5 90 **Brown and Red Clay** Brown and Red Clay w/ 90 180 Caliche Strips 180 200 **Brown Sticky Clay** Brown Clay w/ Fine Sand 200 260 **Strips** 260 320 **Brown Sticky Clay** Brown Clay w/ Fine Sand 320 560 **Strips** 560 705 Coarse Sand w/ Gravel 705 710 **Red Clay**

Casing: BLANK PIPE & WELL SCREEN DATA

| Dla (in.) | Туре | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|--------------|--------|-------------------|--------------|-----------|-----------------|
| 5.5 | Riser | New Steel | .250 | 0 | 3 |
| 5.5 | Blank | New Plastic (PVC) | 200 | 3 | 200 |
| 5.5 | Blank | New Plastic (PVC) | 250 | 200 | 400 |
| 5.5 | Screen | New Plastic (PVC) | 200 0.035 | 400 | 700 |
| 5.5 | Blank | New Plastic (PVC) | 200 | 700 | 710 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540

TEXAS DEPARTMENT OF WATER RESOURCES

WELL SCHEDULE

| | | 103 |
|--|--------------------------|--------------------------|
| Aquifer(s)OGALLALA Project No. | State Well NoQ6_ | _=46_=1B |
| Field No./Owner's Well No.CA-428 | County_ Carson | · |
| Location: 4, NW 4, Section 23 , Block 2 , Survey Tyler Taj | p_, Lat | _, Long, |
| | | |
| Owner: Mrs. Mannie Jean Howard Address: Box 4 | | |
| Tenant (other): Address: | | |
| Driller: Panhandle Irrigation Co. Address: Panhar | ndle, Texas | |
| Land Surface Elevation: 3439 ft. above msl determined by TOPO | | . |
| Drilled: 8-20 1963; Oug, Cable Tool, Rotary, Air, | | |
| Depth: Rept ft. News ft. | | PIPE & WELL SCREE |
| Borehole Completion: Open Hole, Straight Wall, Underreamed, Gravel Packed | Cemented From Diam, Type | ft. to Setting (feet) |
| Pump: MfrType | (in.) | from to |
| No. Stages 3 . Bowls Diam. 10 in., Setting ft. | 16 | 0 75 |
| Column Diam. 8in., Length Talipipeft. | | |
| Motor: Mfr. Fuel Natural Gas HP. 135 | | |
| Yield: Flowgpm, Pumpgpm, Meas., Rept., EstDate | | |
| Performance Test: Date Length of Test Made by | | |
| Static Level 325ft. Pumping Levelft. Drawdownft. | _ | |
| Productiongpm Specific Capacitygpm/ft. | | |
| Quality: (Remarks on taste, odor, color, etc.) | | |
| Analyses | | |
| Date Laboratory TDS Sp Cond | | |
| Oate Laboratory TDSSp Cond | | |
| Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log, | | |
| Formation Samples, Geophysical Log(s) | | |
| (type) | | above |
| Water Level(s):ft. rept. 19 above | | |
| ft. rept. 19 above | | |
| Use: Dom., Stock, Public Supply, Ind. (Irr.) Observation, Other (Test Hole, Oi | 1 Test, etc.) | |
| Recorded by: Richard S. Bowers Source of data: PGWCD #3 f | ilesDate:_ | _2-27-81 |
| Remarks: | | |
| | | |
| | | |
| Location or Sketch: | | |
| | exas | |

W/L Obs. Well ____ W/Q Obs. Well ____ State Well No. 06 46 - 1B

TEXAS WATER DEVELOPMENT BOARD

WELL SCHEDULE

| Aquifer Plots No. CA -428 | State Wel | 1 No. DA-06 | -46- | 103 |
|--|----------------|--|----------------|-----------|
| Owner's Well No. | | MRSON | | |
| 1. Location: NW 1/4, NW 1/4 Sec. 23_, Block_ZSurvey_T_T_RR | | | © | |
| 2. Owner: A. O. Haward Address: | Luk | 6ack-2, | | |
| Driller: Panhandle Lvv. Inca Address: | Lews 1s | /2012 d/se_ | | <u> </u> |
| 3. Elevation of | | | | |
| 4. Drilled: 8-20 - 1963; Dug, Cable Tool (Rotary) | | CASING & BLAN | אַ אַדּיַר אַ | |
| 5. Depth: Rept. ft. Meas. 755 ft. | Cemented | From ft | . to | ft. |
| 6. Completion: Open Hole, Streight Wall, Underreamed, Oravel Packed Casca | Diam. (in.) | Туре | Settin from | g, ft. |
| 7. Pump: Migr Layne (Amax Gkl) Type T | | - 1 | | |
| No. Stages 3, Bowls Diam. / O_in., Setting 980_ft. | 16 | Steel | Q | 755 |
| Column Diam. 8in., Length Teilpipeft. | | | | |
| 8. Motor: Fuel NG | | | 4 | |
| 9. Yield: Flowgpm, Pumpgpm, Mess., Rept., Est | | | | |
| 10. Performance Test: DateLength of Test Made by | | | | |
| Static Level 325 ft. Pumping Levelft. Drawdownft. | | | | |
| Productiongpm Specific Capacitygpm/ft. | | | | |
| ll. Water Level: ft. rept. 19 above below | - | which is | ft. bel | low |
| rept. 19 above below | | | | |
| ft. rept. 19 above below below | | | | |
| DETOM | | which is | | |
| 12. <u>Use</u> : Dom., Stock, Public Supply, Ind. (Irr.) Waterflooding, Observation, Not Used, | | | | |
| 13. Quality: (Remarks on taste, odor, color, etc.) | | | | |
| Temp. °F, Date sampled for enalysis Laboratory | Scre | WELL SCRI en Openings | EN | |
| Temp °F, Date sampled for analysis Laboratory Temp °F, Date sampled for analysis Laboratory | Diam. (in.) | Туре | Setting | g, ft. |
| 14. Other deta available as circled: Friller's Log, Addioactivity Log, Electric Log, | 111.7 | | | T |
| Formation Samples, Pumping Test, | 16. | Perf | 505 | 255 |
| 11 = 11 = 10.77 | | | | |
| Source of Data WD records & Obs | L |] | <u> </u> | |
| 16. Remarks: | | | | |
| | | | | |
| | | | | : |
| | | <u> </u> | <u></u> | |
| | | | . | |
| | | | | |

WATER WELL LOCATION SKETCH TEXAS WATER DEVELOPMENT BOARD

GROUND WATER DATA & PROTECTION

| | | | | | | | | | | | Sec | tion _ | 2 | <u>3</u> | in Bl | ock 2 - 7 | TRK |
|--------------|--------------|-----------------|---------------------------|------------------|-------------------|--|-----------------|--|------------|--------------|--|--------------------|--------|----------|----------------|-------------------|-------|
| Pan handle | | | | | | | | | | | _(| CK | B. | 50 | <i>y</i> // | _County | · |
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| | | | | | | | | | | | 7½- | minut | te Qua | adrar | ngle <u>46</u> | | |
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| | | | K ! | RE | | 6 (| -4 | Name of Street, or other Desired | | | | | | | | | |
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Well No. 06 - 46 - 103

MAKE 3 Copies

Triplicate-County Com

District File No. CB 428 men PON UNE OF SHETRICT OFFIT

Panhandle Underground Water Conservation District No. 3

REGISTRATION and LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to District Office for registration. (PLEASE TYPE OR PRINT)

FOR USE OF DISTRICT

Field Well No. CA 421

Date
Received 8-20-63

Size of O'' Maximum MAA CIPM

| Well | Owner | A. O. Henra | | Address | for | 430 Milles | a Jai |
|---|--|--|---|--|--|---|---------------------------------------|
| | located | 1/2 miles N | , miles S, | miles E | · | _ miles W of the town | or landand |
| . Coun | ty La | 1200 | _ labor | _ League | | Homestead | |
| NW1 | A) NEI | /4 SW1/4 SE1/ | A Section | Bloc | k | Burvey | Jan |
| *************************************** | (CIRCLE | eRE) | t | | | ards from N or K line | |
| ACTU | AL LOC | ATION OF THIS W | VETAL IS | | | ards from A or W line | |
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| 9 | 140 | Top Soil, | Clay, Galiche | A 389 | 436 | Sendy Clay | , * |
| 140 | 164 | Caliche Sa | | A + A | 459 | and Clay | ' . |
| 164 | 187 | Sand, Clay | , Little Calie | he 443 | 506 | | The same of |
| 187 | 211 | • | Galiche Rock | 506 530 | 530 553 | | |
| 21 | | h. War | | 553 | 577 | | |
| | | | i taliche Rock | နှင့်ဝ | 624 | | |
| 234 | 255 | Sand Clay | Seilehe Rock | 624 | 671 | | P. P. |
| 258 | 272 | Sand Clay, | Galiche, Rock | 671 | 694 | Control Sand Inc | |
| 271 | | | Caltane Rock | 694 | 741 | Contro Sand and | Gravel Na |
| 118 | 342 | Med. Sands Salishe An | A subject to a supposite | 741 764 | 764 755 | Rail Canest Re | |
| | | Fine Sand | d Sand sand h Sandat and Sandatone | 024 | | | W. |
| 13 | 389 | . * *** ****************************** | | | | | |
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| Casi Casi Pum Pum Dep | rtify the return of the return | to this well was of the best of my line in th | DESCRIPT OF Shop made. Dian 505 ft. to 75 in. Total length #80 Number of stage. | Tion of the second seco | WEL // // // // // // // // // // // // / | L in Total length Number per foot Size in Length p discharge pipe: Size GPM. Pumping level: | |
| Casi Casi Pum Pum Dep | rtify the return of the return | to this well was of the best of my line in th | DESCRIPT OF Shop made. Dian 505 ft. to 75 in. Total length #80 Number of stage. | Tion of the second seco | WEL // // // // // // // // // // // // / | L in Total length Number per foot Size in Length ap discharge pipe: Size | 2535 -/2 -/2 -/0 -3 -3 |
| Casi Casi Pum Pum | ng: never ap Column bowleth to we | to this well was of the best of my line Irrig. Irrig. orations: from man: Size s: Size ater level2 : Electrica, Natu | DESCRIPT OF Shop made. Dian 505 ft. to 75 in. Total length #80 Number of stage. | Tion of the second seco | WEL // // // // // // // // // // // // / | L in Total length Number per foot Size in Length ap discharge pipe: Size GPM. Pumping level: Horsepower | 2535 -/2 -/2 -/0 -3 -3 |

Appendix J
Groundwater Quality

Groundwater Quality Report

Operation of the Panhandle WWTP will have little to no effect on groundwater quality in the area. The facilitative pond system includes a clay liner to prevent percolation of wastewater into the surrounding areas. Irrigation at a maximum rate of 4.19 acre-feet per year per acre will not allow water to reach beyond the root zone of cotton and wheat, and according to the Panhandle Groundwater Conservation District depths of the Ogallala aquifer in the area are beyond 400 feet below ground surface near Panhandle. The City conducts biannual groundwater monitoring to endure the quality of the water has not been affected.

Appendix K
Soil Map and Analysis



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 Carson County, **Texas**



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.

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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.

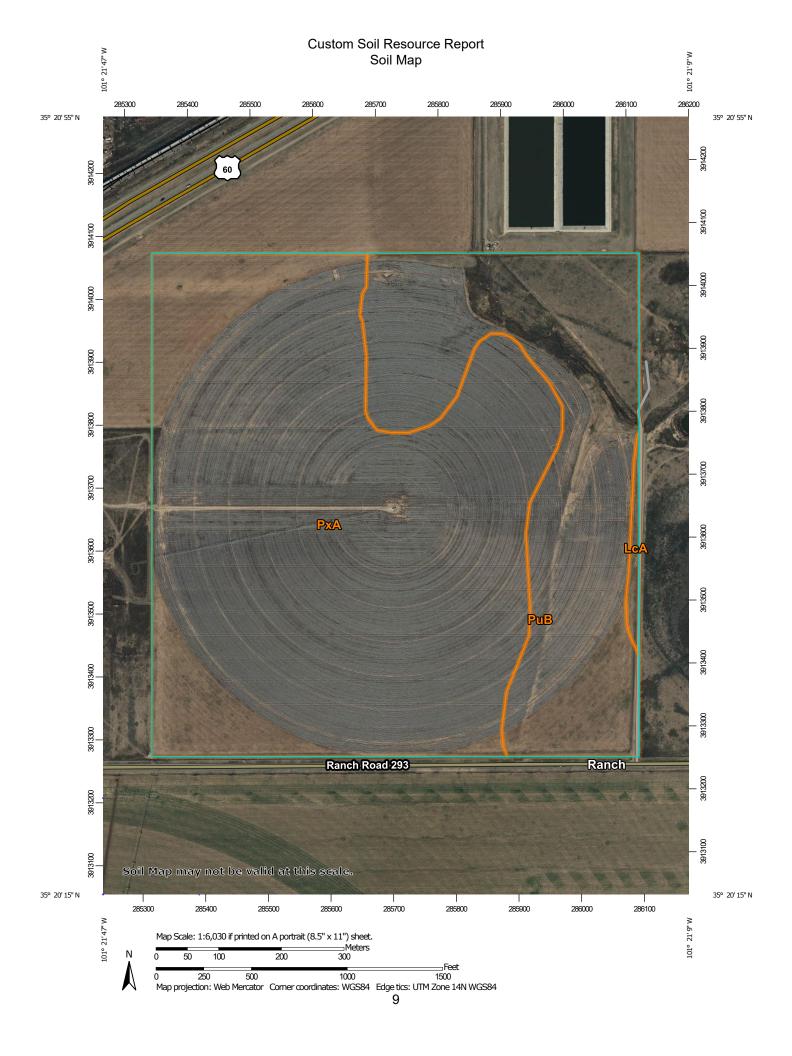
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree 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.



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

(o)

Blowout

Borrow Pit

Clay Spot

Gravel Pit

Closed Depression

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

å

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads Local Roads

00

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: Carson County, Texas Survey Area Data: Version 25, Aug 30, 2024

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 13, 2022—Nov 21. 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 |
|-----------------------------|--|--------------|----------------|
| LcA | Lazbuddie clay, 0 to 1 percent slopes, occasionally ponded | 1.1 | 0.7% |
| PuB | Pullman clay loam, 1 to 3 percent slopes | 47.5 | 30.8% |
| PxA | Pantex silty clay loam, 0 to 1 percent slopes | 105.6 | 68.5% |
| Totals for Area of Interest | , | 154.2 | 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.

Carson County, Texas

LcA—Lazbuddie clay, 0 to 1 percent slopes, occasionally ponded

Map Unit Setting

National map unit symbol: f5rd Elevation: 3,200 to 4,700 feet

Mean annual precipitation: 17 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Lazbuddie and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lazbuddie

Setting

Landform: Playa steps

Landform position (three-dimensional): Tread Microfeatures of landform position: Circular gilgai

Down-slope shape: Concave Across-slope shape: Convex

Parent material: Calcareous clayey lacustrine deposits

Typical profile

Ap - 0 to 4 inches: clay Bss1 - 4 to 13 inches: clay Bss2 - 13 to 53 inches: clay Bkk - 53 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: About 0 to 12 inches

Frequency of flooding: None Frequency of ponding: Occasional

Calcium carbonate, maximum content: 60 percent

Gypsum, maximum content: 2 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 5w Land capability classification (nonirrigated): 5w

Hydrologic Soil Group: D

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Minor Components

Lockney

Percent of map unit: 5 percent

Landform: Playa steps

Landform position (three-dimensional): Tread Microfeatures of landform position: Circular gilgai

Down-slope shape: Concave Across-slope shape: Convex

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Lofton

Percent of map unit: 5 percent Landform: Depressions, playa steps

Landform position (three-dimensional): Tread

Down-slope shape: Concave, convex Across-slope shape: Concave, linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Mclean

Percent of map unit: 5 percent

Landform: Playa floors

Landform position (three-dimensional): Dip Microfeatures of landform position: Circular gilgai

Down-slope shape: Concave Across-slope shape: Concave

Ecological site: R077CY027TX - Playa 16-21" PZ

Hydric soil rating: No

PuB—Pullman clay loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: f5rz Elevation: 2,800 to 5,000 feet

Mean annual precipitation: 17 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Pullman and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pullman

Setting

Landform: Playa slopes, plains

Landform position (three-dimensional): Dip, talf

Down-slope shape: Concave, convex

Across-slope shape: Linear

Parent material: Clayey eolian deposits

Typical profile

Ap - 0 to 4 inches: clay loam
Bt - 4 to 32 inches: silty clay loam
Btk1 - 32 to 51 inches: clay loam
Btk2 - 51 to 80 inches: clay

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to

0.14 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 3.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 3s

Hydrologic Soil Group: C

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Minor Components

Olton

Percent of map unit: 4 percent

Landform: Plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Estacado

Percent of map unit: 4 percent

Landform: Plains

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Pep

Percent of map unit: 2 percent Landform: Playa slopes, plains

Landform position (three-dimensional): Dip, talf

Down-slope shape: Concave, convex

Across-slope shape: Linear

Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Hydric soil rating: No

PxA—Pantex silty clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5s0 Elevation: 2,700 to 4,700 feet

Mean annual precipitation: 17 to 21 inches
Mean annual air temperature: 55 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Pantex and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pantex

Setting

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Clayey eolian deposits from the blackwater draw formation of

pleistocene age

Typical profile

Ap - 0 to 7 inches: silty clay loam

Bt1 - 7 to 34 inches: silty clay

Bt2 - 34 to 71 inches: silty clay loam

Btkk - 71 to 80 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to

0.14 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: High (about 11.4 inches)

Interpretive groups

Land capability classification (irrigated): 2s Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Minor Components

Pullman

Percent of map unit: 7 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Estacado

Percent of map unit: 5 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

Hydric soil rating: No

Olton

Percent of map unit: 3 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077CY022TX - Deep Hardland 16-21" PZ

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

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City of Panhandle WWTP - Analytical Summary Sheet



February 2019

| | | | | Irrigatio | n Field: 0" - | 6" | | | |
|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|---------------|-----------------|
| | | | | SUBC | CONTRACTED | | | | |
| | Plant | Plant | Plant | Plant | Plant | Plant | | | |
| | Available | Available | Available | Available | Available | Available | | | |
| Date | Phosphorus | Potassium | Calcium | Magnesium | Sulfur | Sodium | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/26/19 | 50 | 516 | 2600 | 631 | 8 | 74 | 31.50 | 8.3 | 0.848 |
| | | × | | | | 2 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| AVERAGES: | | | | | | | | | |

| | | | | | n Field: 6" - | 18" | | | |
|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|---------------|-----------------|
| | | | | SUBC | CONTRACTED | | | | |
| | Plant | Plant | Plant | Plant | Plant | Plant | | | |
| | Available | Available | Available | Available | Available | Available | | | |
| Date | Phosphorus | Potassium | Calcium | Magnesium | Sulfur | Sodium | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/26/19 | 90 | 650 | 2853 | 596 | 7 | 79 | 37.70 | 8.14 | 0.824 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| AVERAGES: | | | | | | | | | |

| | | | | | Field: 18" - | 30" | | | |
|-------------|--|---|--|---|--|--|--------------|---------------------|----------------------------|
| Date EPA | Plant Available Phosphorus Mehlich III - ICP | Plant Available Potassium Menlich III - ICP | Plant Available Calcium Mehlich III - ICP | Plant Available Magnesium Mehlich III - ICP | Plant Available Sulfur Mehlich III - ICP | Plant Available Sodium Mehlich III - ICP | Nitrate as N | pH 2:1 (v/v w/s) | Conductivity 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/26/19 | 65 | 634 | 3213 | 622 | 7 | 76 | 35.90 | 8.1 | 0.905 |
| | | | | | | | | | |
| AVERAGES: | | | | | | | | | |

*Note: This spreadsheet was designed as a tool to assist you. The form outlining the requirements for the testing was taken from your permit. Two subcontract laboratories were used for this testing, Texas A&M and Xenco Laboratories. Texas A&M results are indicated in orange, and Xenco Analytical Results in blue. Xenco Laboratories is an accredited lab, and did the majority of the testing. Texas A&M is not an accredited lab, but their lab was the only one available to do the Mehlich III with ICP as required. All of their testing is done on a packaged basis, so there are some items listed on the final reports that were not needed. There are two results for Conductivity, pH and Nitrate, but the results listed on this spreadsheet are from Xenco Laboratories due to their being an accredited lab, and the items are on TCEQ's NELAP fields of accreditation. The Texas A&M Soil report lists fertilizer recommendations for the crop yield goal. The purpose for there being two sheets for each depth describes the fertilizer recommendations for the warm season and the cool season as described in your permit.

If you have any questions please contact Serissa Beck at Environmental Monitoring Laboratory at 254-582-2622.

IIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION:
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City of Panhandle WWTP - Analytical Summary Sheet



February 2020

| | | | | Irrigatio | n Field: 0" - | 6" | | | |
|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------|---------------|-----------------|
| | | | | SUBC | CONTRACTED | | | | |
| | Plant | Plant | Plant | Plant | Plant | Plant | | | |
| | Available | Available | Available | Available | Available | Available | | | |
| Date | Phosphorus | Potassium | Calcium | Magnesium | Sulfur | Sodium | Nitrate as N | pН | Conductivity |
| EPA | Mehlich III - ICP | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/24/20 | 106 | 854 | 2545 | 567 | 15 | 76 | 12.50 | 8.1 | 432 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| AVERAGES: | | | | i | | | | | |

| | C. C. B. China L. C. | | | | n Field: 6" - CONTRACTED | 18" | | | |
|-------------|--|---|---|---|--|--|--------------|---------------------|----------------------------|
| Date EPA | Plant Available Phosphorus Mehlich III - ICP | Plant Available Potassium Mehlich III - ICP | Plant Available Calcium Mehlich III - ICP | Plant Available Magnesium Mehlich III - ICP | Plant Available Sulfur Mehlich III - ICP | Plant Available Sodium Mehlich III - ICP | Nitrate as N | pH 2:1 (v/v w/s) | Conductivity 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/24/20 | 24 | 385 | 3409 | 737 | 11 | 122 | 11.00 | 8.1 · | 391 |
| | ļ | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| AVERAGES: | | | | | | | | | |

| | | Irrigation Field: 18" - 30" SUBCONTRACTED | | | | | | | | | | |
|-------------|--|---|--|---|--|--|--------------|---------------------|----------------------------|--|--|--|
| Date EPA | Plant Available Phosphorus Mehlich III - ICP | Plant Available Potassium Mehlich III - ICP | Plant Available Calcium Mehlich III - ICP | Plant Available Magnesium Mehlich III - ICP | Plant Available Sulfur Mehlich III - ICP | Plant Available Sodium Mehlich III - ICP | Nitrate as N | pH 2:1 (v/v w/s) | Conductivity 2:1 (w/v w/s) | | | |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/L | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm | | | |
| 2/24/20 | 24 | 342 | 3694 | 673 | 28 | 113 | 17.70 | 8.1 | 441 | | | |
| | 's | | | | | | | 7 7 | | | | |
| AVERAGES: | | | | | | -un | | | | | | |

*Note: This spreadsheet was designed as a tool to assist you. The form outlining the requirements for the testing was taken from your permit. Two subcontract laboratories were used for this testing, Texas A&M and Xenco Laboratories. Texas A&M results are indicated in orange, and Xenco Analytical Results in blue. Xenco Laboratories is an accredited lab, and did the majority of the testing. Texas A&M is not an accredited lab, but their lab was the only one available to do the Mehlich III with ICP as required. All of their testing is done on a packaged basis, so there are some items listed on the final reports that were not needed. There are two results for Conductivity, pH and Nitrate, but the results listed on this spreadsheet are from Xenco Laboratories due to their being an accredited lab, and the items are on TCEQ's NELAP fields of accreditation. The Texas A&M Soil report lists fertilizer recommendations for the crop yield goal. The purpose for there being two sheets for each depth describes the fertilizer recommendations for the warm season and the cool season as described in your permit.

If you have any questions please contact Serissa Beck at Environmental Monitoring Laboratory at 254-582-2622.

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATIONS
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City of Panhandle

. .VTP - Analytical Summary Sheet



February 2021

T104704247-20-20

| | | | Irrigation | on Field: 0" - | 6" | | | | | | | |
|-----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|--|--|--|--|--|
| | | SUBCONTRACTED | | | | | | | | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity | | | | | |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) | | | | | |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm | | | | | |
| 2/26/21 | 365 D | 1680 | 597.0 | 407 | 190 | 7.38 | 1220 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| AVERAGES: | | | | | | | | | | | | |

| | | | Irrigatio | n Field: 6" - | 18" | | |
|-----------------------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|
| | | | SUB | CONTRACTED | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| ~ ² /26/21 | 36.8 | 332 | 390.3 | 388 | 2.31 | 7.21 K | 2420 |
| | | | | | | | |
| | | | | | | | |
| | | | | (*) | | | |
| AVERAGES: | | | | | | | |

| | | | | Field: 18" - | | | |
|----------------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|-----------------------|---------------|
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA Week Of | Mehlich III - ICP | Mehlich III - ICP | mg/kg | mg/kg | mg/kg | 2:1 (v/v w/s) s.u. | 2:1 (w/v w/s) |
| 2/26/21 | 90.9 D | 779 | 451.9 | 382 | 69.9 | 7.45 K | 689 |
| | | | | | | | |
| | | | | | | | |
| AVERAGES: | | | | | | | |

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City of Panhandle WWTP - Analytical Summary Sheet



February 2022

104704247-21-21

| | | | Irrigatio | on Field: 0" - | 6" | | |
|----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|--------------|
| | | | SUBO | CONTRACTED | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductiv |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2.1 (w/v w/ |
| Week Of | ma/ka | ma/kg | mg/kg | mo/kg | mg/kg | S.U. | ds/m - mmhos |
| 2/16/22 | 39.1 | 416 | 1440.0 | 1430 | 5.29 | 7.40 | 1.030 |
| | | | | | | | |
| VERAGES: | | | | | | | |

| | | | | n Field: 6" - | | | |
|-----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|
| | | | SUB | CONTRACTED | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | pН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U | ds/m - mmhos/cm |
| 2/16/22 | 39.8 | 430 | 929.0 | 922 | 6.83 | 7.6 | 0.631 |
| | | | | | | | |
| | | | | | | | |
| AVERAGES: | | | | | | | |

| | | | Irrigation SUB | Field: 18" - | 30" | | |
|-------------|--|---|-------------------|----------------------------|--------------|---------------------|-------------------------------|
| Date EPA | Plant Available Phosphorus Mehlich III - ICP | Plant Available Potassium Mehlich III - ICP | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | pH 2:1 (v/v w/s) | Conductivity 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/16/22 | 42.9 | 406 | 1420.0 | 1410 | 8.13 | 7.6 | 0.592 |
| | | | | | | | |
| AVERAGES: | | | | | | - | |

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City of Panhandle WWTP - Analytical Summary Sheet



February 2023

T104704247-22-23

| | | | Irrigatio | on Field: 0" - | 6" | | |
|-----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|
| | | | SUB | CONTRACTED | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U. | ds/m - mmhos/cr |
| 2/2/23 | 245 | 1080 | 1410 | 1380 | 31.5 | 7.6 | 453 |
| | | - | | | | | |
| AVERAGES: | | | | | , | | |

| | | | | n Field: 6" - | 18" | | |
|-----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | 5.U. | da/m - mmhos/ci |
| 2/2/23 | 213 | 879 | 1400 | 1370 | 30.4 | 7.5 | 517 |
| | | | | | | | |
| AVERAGES: | | | | | | | |

| | | | | n Field: 18" - | | | |
|-----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U. | ds/m - mmhos/cm |
| 2/2/23 | 210 | 842 | 1320 | 1280 | 39.6 | 7.5 | 666 |
| | | | | | | | |
| AVERAGES: | | | | | | | |

ENVIRONMENTAL MONITORING LABORATORY
BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATIONS
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City of Panhandle WWTP - Analytical Summary Sheet



February 2024

T104704247-23-25

| | | | Irrigatio | on Field: 0" - | 6" | | |
|-----------|----------------------------------|---------------------------------|--------------------------------|----------------------------|--------------|---------------|-----------------|
| | | | SUBO | CONTRACTED | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | m _s /k _s | m_/k | m ₃ /k ₃ | m gAc; | mg/k; | 5.U. | ds/m - mmhos/cn |
| 2/21/24 | 207 ✓ | 1420 | 2010 | 1980 | 34.7 | 7.1.✓ | <10.0 |
| | | | | | | | |
| AVERAGES: | | | | | | | |

| | | | Irrigatio | n Field: 6" - | 18" | | |
|-----------|----------------------------------|---------------------------------|----------------|----------------------------|--------------|---------------|-----------------|
| | | | SUB | CONTRACTED | | | |
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | pН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | S.U. | dalm - mmhoa/cm |
| 2/21/24 | 139 | 794 | 1010 | 942 | 65.0 | 7.6 | 389 |
| | | | | | | | |
| AVERAGES: | | | | | | | |

| | | | | Field: 18" - | | | |
|-----------|----------------------------------|---------------------------------|--|----------------------------|--------------|---------------|-----------------|
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | ρН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2 1 (v/v w/s) | 2·1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | s.u, | ds/m - mmhos/cm |
| 2/21/24 | 117 | 866 | 103 | 19.1 | 84.0 | 7.5 | <10.0 |
| | | | | | | | N |
| AVERAGES: | | | | | | | |

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City of Panhandle WTP - Analytical Summary Sheet



January 2025

| | | | on Field: 0" - | 0 | | |
|----------------------------------|--|---|---|--|--|--|
| | | SUBG | CONTRACTED | | | |
| Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| Mehlich III - ICP | Mehlich III - ICP | | | | 2.1 (v/v w/s) | 2.1 (w/v w/s) da/m - mmhos/cr |
| 261 | 869 | 1190 | 1090 | 99.4 | 8.1 | 1200 |
| | | | | | | |
| | | | | | | |
| | Available Phosphorus Mehlich III - ICP my/kg | Available Available Phosphorus Potassium Mehlich III - ICP Mehlich III - ICP mg/kg mg/kg | Available Phosphorus Available Potassium Total Nitrogen Mehlich III - ICP mg/kg Mehlich III - ICP mg/kg mg/kg | Available Phosphorus Potassium Total Nitrogen Nitrogen Mehlich III - ICP Mehlich II | Available Phosphorus Potassium Total Nitrogen Nitrate as N Mehlich III - ICP Mehlic | Available Phosphorus Potassium Total Nitrogen Nitrate as N pH Mehlich III - ICP Meh |

| | la de la minera | | | n Field: 6" - | 18" | | |
|-----------|--------------------|--------------------|----------------|----------------|--------------|---------------|-------------------------------|
| | Plant Available | Plant Available | | Total Kjeldahl | | | |
| Date | Phosphorus | Potassium | Total Nitrogen | Nitrogen | Nitrate as N | pH | Conductivity 2:1 (w/v w/s) |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2.1 (v/v w/s) | |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | Ş.U. | ds/m - mmhos/c |
| 1/7/25 | 276 | 856 | 1150 | 1070 | 79.0 | 8.0 | 1290 |
| | | | | | | | |
| | | | | | | | |
| AVERAGES: | 5.mm | | T - | _ | I | | |

| | | | Irrigation SUB | Field: 18" - | 30" | | |
|-----------|----------------------------------|---------------------------------|-------------------|----------------------------|--------------|---------------|-----------------|
| Date | Plant Available Phosphorus | Plant Available Potassium | Total Nitrogen | Total Kjeldahl Nitrogen | Nitrate as N | рН | Conductivity |
| EPA | Mehlich III - ICP | Mehlich III - ICP | | | | 2:1 (v/v w/s) | 2:1 (w/v w/s) |
| Week Of | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | s.u. | dalm - mmhos/cm |
| 1/7/25 | 288 | 847 | 192 | 190 | 1.94 | 7.8 | 1230 |
| | | | | | | | |
| AVERAGES: | - | | | | | | |

Rainee Trevino

From: Paul Krueger < PKrueger@Parkhill.com>

Sent: Tuesday, July 29, 2025 3:34 PM

To: Rainee Trevino; tcoffee@cityofpanhandle.com

Cc: Jordan Duarte

Subject: RE: Application to Renew Permit No. WQ0010359001- Notice of Deficiency Letter

Attachments: Panhandle NOD Response Letter.pdf

Please find the attached response to the NOD for the above referenced permit renewal application. Feel free to reach out if you have any questions or would like to discuss further.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

From: Rainee Trevino < Rainee. Trevino@tceq.texas.gov>

Sent: Tuesday, July 29, 2025 3:22 PM

To: Paul Krueger < PKrueger@Parkhill.com>; tcoffee@cityofpanhandle.com

Subject: RE: Application to Renew Permit No. WQ0010359001- Notice of Deficiency Letter

Thanks Paul.

Regards, Rainee Trevino

From: Paul Krueger < PKrueger@Parkhill.com >

Sent: Tuesday, July 29, 2025 3:20 PM

To: Rainee Trevino < <u>Rainee.Trevino@tceq.texas.gov</u>>; <u>tcoffee@cityofpanhandle.com</u> **Subject:** RE: Application to Renew Permit No. WQ0010359001- Notice of Deficiency Letter

Hi Rainee,

We are finalizing the letter right now and will have that sent out before COB today.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

From: Rainee Trevino < Rainee. Trevino@tceq.texas.gov >

Sent: Tuesday, July 29, 2025 3:15 PM **To:** tcoffee@cityofpanhandle.com

Cc: Paul Krueger < PKrueger@Parkhill.com>

Subject: RE: Application to Renew Permit No. WQ0010359001- Notice of Deficiency Letter

Good afternoon,

I am following up on the NOD letter sent on 7/15. We have received the paper application that includes the notarized signature and verified the fee has been received. We have not received a response for the other outstanding items.

Regards, Rainee Trevino

From: Rainee Trevino

Sent: Tuesday, July 15, 2025 10:39 AM

To: tcoffee@cityofpanhandle.com

Cc: pkrueger@parkhill.com

Subject: Application to Renew Permit No. WQ0010359001- Notice of Deficiency Letter

Dear Mr. Coffee,

The attached Notice of Deficiency letter sent on July 15, 2025, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by July 29, 2025.

Regards,

Rainee Trevino

Water Quality Division | ARP Team Texas Commission on Environmental Quality 512-239-4324







Ms. Rainee Trevino
Applications Review and Processing Team
Water Quality Division
Texas Commission of Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

RE: City of Panhandle

Application to Renew Permit No. WQ0010359001

CN600647234, RN102976131

Dear Ms. Trevino:

We have received a Notice of Deficiency letter on the above-referenced application dated July 15, 2025, and provide the following response.

1. Comment: Our records indicate an original paper copy of the application has not been received. The original paper copy and e-copy of the application are both required. Please submit the original paper copy of the application by:

Response: The original paper copy of the application was signed on July 10th and mailed soon after.

2. Comment: Administrative Report 1.0, Section 1, Application Fees: The fee of \$1,215.00 cannot be verified. If payment has not been submitted, please submit a complete payment to: TCEQ, Financial Administration Division (MC214), P.O. Box 13088, Austin, Texas 78711-3088. The application cannot be declared administratively complete until the processing fee has been received and verified.

Response: The fee of \$1,215.00 has been sent with the original paper copy of the application. Please see attachment A for a copy of the complete payment.

3. Comment: **Core Data Form, Section II, Items 27 and 28:** The latitude and longitude coordinates provided do not match the location of the facility. Please verify the coordinates and resubmit the Core Data Form with the updated coordinates. In addition, the nearest zip code provided is different than the zip code in the current permit. Please advise which zip code is correct.

Response: Please see Attachment B for the updated Core Data Form with the correct coordinates. The nearest zip code is 79068.

4. Comment: **Core Data Form, Section V:** Please resubmit the Core Data Form with an authorized signature.

Response: Please see Attachment B for the updated Core Data Form with the authorized signature.

5. Comment: **Administrative Report 1.0, Section 14:** The signature page must have a notarized signature. Please resubmit the signature page with the notarized signature of the individual listed.

Response: Please see Attachment C for the updated notarized signature page.

6. Comment: **Plain Language Summary:** The summary must also contain the disposal method. Please resubmit the Plain Language Summary to include the disposal method.

Response: Please see Attachment D for the updated Plain Language Summary.

7. Comment: 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 Panhandle, P.O. Box 129, Panhandle, Texas 79068, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010359001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 280,000 gallons per day via surface irrigation of 75 acres of nonpublic access agricultural land. The domestic wastewater treatment facility and disposal area are located 2,500 feet east of the intersection of U.S. Highway 60 and State Highway 293, in Carson County, Texas 79027. TCEQ received this application on July 7, 2025. The permit application will be available for viewing and copying at Panhandle City Hall, Lobby and Front Desk, 1 Main Street, Panhandle, in Carson 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:

<u>https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications</u>. 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. **Location link pending applicant response**

Further information may also be obtained from City of Panhandle at the address stated above or by calling Mr. Terry Coffee, City Manager, at 806-336-9945.

Response: The domestic wastewater treatment facility and disposal area are located 2,500 feet east of the intersection of U.S. Highway 60 and State Highway 293 in Carson County, Texas 79068. The information above is correct and contains no errors or omissions.

Thank you for reviewing the submitted application. If you have any questions or would like to discuss further, please feel free to call me at 806.473.3715.

Sincerely,

PARKHILL

Civil Engineer

PSK/jd/pp

Enclosures Attachment A: Application to Renew Permit No. WQ0010359001

Attachment B: Core Data Form Attachment C: Signature Page

Attachment D: Plain Language Survey

cc: Mr. Terry Coffee, City Manager, City of Panhandle

Attachment B
Updated Core Data Form

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 Dancon for | · Cub-sion | 1 /16 -+b :- | -41 | | | | | | | | | |
|------------------|--|------------------|---|------------------------------------|----------------------------|-------------|--------------|---------|------------------------------|---|---|-----------------|
| | | | | please describe (Core Data Forn | | - | | prog | ram application. |) | | |
| | | | | | | | | | ther | | *************************************** | |
| 2. Customer | Renewal (Core Data Form should be submitted with the renewal form) Customer Reference Number (if issued) Renewal (Core Data Form should be submitted with the renewal form) Follow this linited for CN or RN in Central Region Central Region State or Customer Information Renewal (Core Data Form should be submitted with the renewal form) Follow this linited for CN or RN in Central Region Centr | | | | | | <u> </u> | 3. Re | gulated Entity | Reference | Number (if | issued) |
| CN 6006472 | 234 | | | | | | | RN 1 | .02976131 | | *************************************** | |
| SECTIO | N II: | Custor | mer | Inform | nation | 1 | L | | | | | |
| | | | | | | | r Informa | tion | lindates (mm/r | ld (many) | | |
| | | | | | | | | | opulates (many) | .ω, γγγγ, | | |
| | | (Verifiable wit | with the Texas Secretary of State or Texas Comptroller of | | | | | | ge in Regulated Accounts) | Entity Own | ership | |
| | | | | | utomatical | lly base | d on who | t is c | urrent and act | ive with th | ne Texas Sec | retary of State |
| 6. Customer | Legal Nan | ne (If an indivi | dual, prii | nt last name fir: | st: eg: Doe, J | lohn) | | | If new Custom | er, enter pro | evious Custon | ner below: |
| City of Panhan | dle | | | | | | | | | *************************************** | | |
| 7. TX SOS/CP | 'A Filing N | lumber | | 8. TX State | [ax ID (11 d | ligits) | | | 9. Federal Ta | x ID | 10. DUNS applicable) | Number (if |
| 11. Type of C | ustomer: | | Corporat | ion | | | | ndivid | lual | Partne | rship: 🔲 Ger | neral 🔲 Limited |
| Government: | City 🗌 | County 🔲 Fed | leral 🔲 | Local 🔲 State | Other | | | ole P | roprietorship | ☐ Ot | her: | |
| 12. Number | of Employ | rees | | | | | L | ******* | 13. Independ | lently Ow | ned and Op | erated? |
| ⊠ 0-20 □ | 21-100 [| 101-250 | 251- | 500 🔲 501 a | and higher | | | | Yes | ⊠ No | | |
| 14. Custome | r Role (Pro | posed or Actu | al) – <i>as i</i> i | t relates to the i | Regulated E | ntity liste | ed on this j | form. | Please check one | of the follo | owing | |
| Owner Occupation | al Licensee | Operator Respon | | | ner & Opera /CP/BSA App | | | | Oth | er: | | |
| 15. Mailing | PO Box 1 | 29 | | | | | | | | | | |
| Address: | City | Panhandle | | www. | State | тх | Zi | P | 79068 | | ZIP + 4 | T |
| 16. Country I | <u> </u> | formation (if | outside | USA) | | | 17. E-M | ail Ar | idress (if applica | able) | | |
| | | 19 | | | ····· | | | | inanhandle com | / | | ···· |
| | | | | | | | | | | | | |

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| 18. Telephone Number | | | 19. Extension o | r Code | | 20. F | ax Number (if | applicable) | |
|---|--|--|---|---|---|----------------|--|---|-------------------------|
| (806) 336-9945 | | | | | | (|) - | | |
| SECTION III: | Regul | ated Ent | ity Inforr | nation | | | | | |
| 21. General Regulated En | itity Informa | ation (If 'New Reg | gulated Entity" is sele | cted, a new p | ermit applica | tion is a | also required.) | ······································ | |
| New Regulated Entity | Update to | Regulated Entity | Name 🛛 Update | to Regulated | Entity Inform | ation | | | |
| The Regulated Entity Nar as Inc, LP, or LLC). | me submitte | ed may be upda | ted, in order to me | et TCEQ Col | re Data Star | ndards | (removal of o | rganization | al endings such |
| 22. Regulated Entity Nam | n e (Enter nam | ne of the site wher | re the regulated actio | n is taking plo | ice.) | | | | |
| City of Panhandle Wastewate | er Treatment | Plant | | | | | | With commence of the second | |
| 23. Street Address of the Regulated Entity: | | | | | | | | | |
| (No PO Boxes) | | 1 | | - 1 | | | | | - |
| | City | | State | | ZIP | | | ZIP+4 | |
| 24. County | Carson | | | | | | | | |
| | | If no Stree | et Address is provi | ded, fields 2 | 25-28 are re | quired | • | | |
| 25. Description to | 25006 | * | | | | | | | |
| Physical Location: | 2,500 feet e | ast of the interes | ction of U.S. Highway | 60 and Sate I | Highway 293, | east of | the City of Panh | andle, in Car | son County, Texas. |
| | | | | | | | | | |
| 26. Nearest City | | | | *************************************** | | State | | Nea | rest ZIP Code |
| 26. Nearest City Panhandle | | | | | | State | | Nea 7906 | |
| • | equired and es where no | may be added, ne have been p | /updated to meet rovided or to gain | TCEQ Core E accuracy). | Data Standa | TX | ······································ | 7906 | 8 |
| Panhandle Latitude/Longitude are re | es where no | may be added, ne have been p 35.3481 | /updated to meet rovided or to gain | accuracy). | Data Standa | TX ords. (G | seocoding of th | 7906 | 8 |
| Panhandle Latitude/Longitude are re used to supply coordinate | es where no | ne have been p | /updated to meet rovided or to gain Seconds | accuracy). | ongitude (V | TX ords. (G | seocoding of th | 7906 | 8 |
| Panhandle Latitude/Longitude are re used to supply coordinate 27. Latitude (N) In Decima | al: Minutes | ne have been p | rovided or to gain | accuracy). | ongitude (V | TX ords. (G | eocoding of the | 7906 | 8 Address may be |
| Panhandle Latitude/Longitude are re used to supply coordinate 27. Latitude (N) In Decimal Degrees | al: Minutes | ne have been p 35.3481 | Seconds | 28. Le | ongitude (Vies | TX ords. (G | ecimal: Minutes | 7906 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees | Minutes 30. | 35.3481 20 | Seconds | 28. Le | ongitude (W les 101 ry NAICS Co | TX ords. (G | ecimal: Minutes | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees 35 29. Primary SIC Code | Minutes 30. | 35.3481 20 Secondary SIC | Seconds | 28. Li Degre | ongitude (W les 101 ry NAICS Co | TX ords. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees 35 29. Primary SIC Code (4 digits) | Minutes 30. | 35.3481 20 Secondary SIC (| Seconds 53 Code | 28. L Degre 31. Primar (5 or 6 digit | ongitude (W res 101 ry NAICS Co | TX ords. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decima Degrees 35 29. Primary SIC Code (4 digits) | Minutes 30. (4 d | 35.3481 20 Secondary SIC (| Seconds 53 Code | 28. L Degre 31. Primar (5 or 6 digit | ongitude (W res 101 ry NAICS Co | TX ords. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees 35 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B | Minutes 30. (4 d | 35.3481 20 Secondary SIC (| Seconds 53 Code | 28. L Degre 31. Primar (5 or 6 digit | ongitude (W res 101 ry NAICS Co | TX ords. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees 35 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic Wastewater Treatm | Minutes 30. (4 d | 35.3481 20 Secondary SIC (igits) his entity? (Do | Seconds 53 Code | 28. L Degre 31. Primar (5 or 6 digit | ongitude (W res 101 ry NAICS Co | TX ords. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decima Degrees 35 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B | Minutes 30. (4 d | 35.3481 20 Secondary SIC (igits) his entity? (Do | Seconds 53 Code | 28. L Degre 31. Primar (5 or 6 digit | ongitude (W res 101 ry NAICS Co | TX ords. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees 35 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic Wastewater Treatm | Minutes 30. (4 d Gusiness of t PO Box 12: | 35.3481 20 Secondary SIC (igits) his entity? (Do | Seconds 53 Code State | 28. Li Degree 31. Primar (5 or 6 digit | ongitude (W | TX rds. (G | ecimal: Minutes 21 32. Seco | -101.355 ndary NAIC | Address may be Seconds |
| Panhandle Latitude/Longitude are reused to supply coordinate 27. Latitude (N) In Decimal Degrees 35 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic Wastewater Treatm 34. Mailing Address: | Minutes 30. (4 d Gusiness of t PO Box 12: | 35.3481 20 Secondary SIC (igits) his entity? (Do | Seconds 53 Code State | 28. Li Degree 31. Primar (5 or 6 digit 221320 r NAICS descr | ongitude (Wees 101 Y NAICS Cods) iption.) | TX rds. (G | ecimal: Minutes 21 32. Seco | 7906 ne Physical -101.355 ndary NAIC gits) | Address may be Seconds |

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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 Aguifer Emissions Inventory Air ☐ Industrial Hazardous Waste ☐ New Source ☐ Municipal Solid Waste □ ossf Petroleum Storage Tank ☐ PWS Review Air Sludge Storm Water ☐ Title V Air Tires Used Oil ☐ Voluntary Cleanup **⊠** Wastewater ■ Wastewater Agriculture ■ Water Rights Other: WQ0010359001 **SECTION IV: Preparer Information** 40. Name: Paul Krueger 41. Title: Civil Engineer 42. Telephone Number 43. Ext./Code 44. Fax Number 45. E-Mail Address (806) 473-3715) -PKrueger@Parkhill.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 Panhandle City Manager Job Title: Name (In Print): Terry Coffee (806) 537-3517 Phone: Signature: Date: 7-28-25

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Attachment C
Notarized Signature Page

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010359001

Applicant: City of Panhandle

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): | <u>Doyle</u> | Robinson |
|----------------|--------|----|-----------|--------------|----------|
|----------------|--------|----|-----------|--------------|----------|

Ullburn

Signatory title: Mayor

| Signature: Slice | Date: 7-10-25 |
|--|--|
| (Use blue ink) | |
| Subscribed and Sworn to before me by the | said Doyle Robinson |
| on this day of day of | July , 20 25. |
| My commission expires on the 3^{-4} | _day of <u>August</u> , 20 <u>25</u> . |

Notary Public

VERONICA WILLBURN Notary Public State of Texas Notary ID #7798920 My Comm. Exp. 08/03/2025

[SEAL]

County, Texas

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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: Doyle Robinson

Title: Mayor

Signature: ___l_

Date: ____

Attachment D Plain Language Summary



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

City of Panhandle (CN600647234) operates City of Panhandle Wastewater Treatment Plant (RN102976131), a facultative pond system. The facility is located at 2500 feet east of the intersection of US Highway 60 and State Highway 293, in Panhandle, Carson County, Texas 79068. This permit application is a renewal without changes to dispose of treated wastewater at a rate not to exceed 0.280 million gallons per day on 75 acres of non-public access land. Effluent from the plant flows through a 12-inch pipe to a playa basin immediately southeast of the facility and is then irrigated on 75 acres of farmland. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD₅. Domestic wastewater is treated by facultative pond system consisting of a bar-screen, one facultative lagoon and one holding pond.

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

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

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

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

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