

### 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. Second notice (NAPD-Notice of Preliminary Decision)
- 4. Application materials
- 5. Draft permit
- 6. Technical summary or fact sheet



### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

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

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

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

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

### ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS 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 BOD<sub>5</sub>. 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 <a href="https://www.tceq.texas.gov/goto/cid">www.tceq.texas.gov/goto/cid</a>. Search the database using the permit number for this application, which is provided at the top of this notice.

**AGENCY CONTACTS AND INFORMATION.** All public comments and requests must be submitted either electronically at <a href="https://www14.tceq.texas.gov/epic/eComment/">https://www14.tceq.texas.gov/epic/eComment/</a>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you

provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <a href="https://www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from 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

### TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

### **RENEWAL**

### **PERMIT NO. WQ0010359001**

**APPLICATION AND PRELIMINARY DECISION**. City of Panhandle, P.O. Box 129, Panhandle, Texas 79068, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0010359001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 280,000 gallons per day via surface irrigation of 75 acres of non-public access agricultural land. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on July 7, 2025.

The wastewater treatment facility and disposal site are located approximately 2,500 feet east of the intersection of U.S. Highway 60 and State Highway 293, in the City of Panhandle, in Carson County, Texas 79068. The wastewater treatment facility and disposal site are located in the drainage basin of North Fork Red River in Segment No. 0224 of the Red River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. <a href="https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.355,35.348055&level=18">https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.355,35.348055&level=18</a>

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Panhandle City Hall, Lobby and Front Desk, 1 Main Street, Panhandle, in Carson County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

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

contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. Unless the application is directly referred for a contested case hearing, the response to comments will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision. A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

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

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

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

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

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

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

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

**AGENCY CONTACTS AND INFORMATION.** Public comments and requests must be submitted either electronically at <a href="www.tceq.texas.gov/goto/comment">www.tceq.texas.gov/goto/comment</a>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at <a href="www.tceq.texas.gov/goto/pep">www.tceq.texas.gov/goto/pep</a>. Si desea información en Español, puede llamar al 1-800-687-4040.

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

Issuance Date: September 19, 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
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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 <b>,</b> 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 □

<b>Payment</b>	Inform	ation
Pavment	шиопп	auon

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

CN: Click to enter text.

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

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

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

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

#### C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0. 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.: (806)336-9945 E-mail Address: tcoffee@cityofpanhandle.com

**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.		Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package						
	Inc	dicate by a o	check ma	ırk tl	e preferred method for receiving the first notice and instru	ctions:		
	$\boxtimes$	E-mail Ac	ldress					
		Fax						
	$\boxtimes$	Regular N	<b>I</b> ail					
C.	Co	ntact perm	it to be l	isted	in the Notices			
	Pre	efix: <u>Mr.</u>			Last Name, First Name: <u>Coffee, Terry</u>			
	Tit	tle: <u>City Man</u>	<u>ager</u>		Credential: Click to enter text.			
	Or	ganization l	Name: <u>Ci</u>	ty of	<u>Panhandle</u>			
	Ma	ailing Addre	ss: <u>PO Bo</u>	OX 120	City, State, Zip Code: Panhandle, TX 79068			
	Ph	one No.: <u>(80</u>	06) <u>3</u> 36-99	945	E-mail Address: tcoffee@cityofpanhandle.com			
D.	Pu	blic Viewin	g Inforn	natio	1			
	If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.							
	Pu	blic buildin	g name: <u>(</u>	City o	<u>f Panhandle City Hall</u>			
	Location within the building: <u>Lobby and Front Desk</u>							
	Physical Address of Building: <u>1 Main St.</u>							
	Cit	ty: <u>Panhandl</u>	<u>e</u>		County: <u>Carson</u>			
	Co	ntact (Last )	Name, Fi	rst N	ame): <u>Coffee, Terry</u>			
	Ph	one No.: <u>(80</u>	06)537-35	<u>17</u> Ex	t.: Click to enter text.			
E.	Bil	Bilingual Notice Requirements						
					<b>d</b> for <b>new, major amendment, minor amendment or mino</b> applications.	r		
	be		mplete ii	nstru	ion is only used to determine if alternative language notices ctions on publishing the alternative language notices will be			
	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.				program required by the Texas Education Code at the element to the facility or proposed facility?	entary		
		□ Yes	S	$\boxtimes$	No			
		If <b>no</b> , publication below.	ication o	f an	alternative language notice is not required; <b>skip to</b> Section 9	)		
	2.				tend either the elementary school or the middle school enro ogram at that school?	olled in		
		□ Yes	S		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	!			
							Plain Lang or PLS, and				Form 20972), ment.
	At	tachme	<b>nt:</b> <u>Append</u>	lix C: Plai	in Languag	e Sum	<u>mary</u>				
G.	Pu	blic Inv	olvement	Plan Fo	rm						
							(TCEQ For <b>nit</b> and inc				plication for a t.
	At	tachme	nt: <u>N/A</u>								
Se	cti	ion 9.	Regul Page 2		ntity ar	id Pe	rmitted	Site 1	Inform	ation	(Instructions
Α.			is current <b>RN</b> <u>1029761</u>		ted by TC	EQ, pr	ovide the l	Regula	ted Entit	y Num	ber (RN) issued to
			e TCEQ's C currently				/www15.to	ceq.tex	as.gov/cı	rpub/	to determine if
B.	Na	me of p	project or s	site (the	name kno	wn by	the comm	unity	where loo	cated):	
	<u>Cit</u>	y of Pan	handle Was	stewater '	<u> Freatment</u>	<u>Plant</u>					
C.	Ov	vner of	treatment	facility:	City of Par	handle	<u> </u>				
	Ov	vnership	of Facilit	y: 🗵	Public		Private		Both		Federal
D.	Ov	vner of l	land wher	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 P	<u>anhandle</u>						
	Ma	ailing Ac	ddress: <u>PO</u>	Box 129			City, State,	Zip Co	ode: <u>Panh</u>	andle,	TX 79068
	Ph	one No.	: <u>(806)537</u> -	5049	E-m	ail Ad	dress: <u>pub</u>	licwork	s@cityofp	anhan	dle.com
					_		he 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 <b>yes</b> , indicate by a check mark if:
	$\square$ Authorization granted $\square$ Authorization pending
	For <b>new and amendment</b> 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 <b>no, or a new or amendment permit application</b> , 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 <b>TLAPs</b> , 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 <b>TLAPs</b> , 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 <b>yes</b> , 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 <b>yes</b> , 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:
	<ul> <li>Applicant's property boundary</li> <li>Treatment facility boundary</li> <li>Labeled point of discharge for each discharge point (TPDES only)</li> <li>Highlighted discharge route for each discharge point (TPDES only)</li> <li>Onsite sewage sludge disposal site (if applicable)</li> <li>Effluent disposal site boundaries (TLAP only)</li> <li>New and future construction (if applicable)</li> <li>1 mile radius information</li> <li>3 miles downstream information (TPDES only)</li> </ul>

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				

	•	<b>'es</b> , 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 lownstream (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 $8.5 \times 11$ -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   No

## DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: 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
<ul> <li>Things to Know:</li> <li>All the items shown on the map must be labeled.</li> <li>The applicant's complete property boundaries must be deboundaries of contiguous property owned by the applicant.</li> <li>The applicant cannot be its own adjacent landowner. You landowners immediately adjacent to their property, regar from the actual facility.</li> <li>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.</li> </ul>	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 <b>within five</b> 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. <b>Provide a copy of an approval letter from the TCEQ, if applicable</b> .
	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
		<b>If No</b> , contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit

disposal requirements and restrictions.

### 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.	
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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.	
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<ul> <li>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 </li> <li>2. MSGP coverage</li> <li>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. </li> </ul>	
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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			
	<b>If yes</b> , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.			
	Click to enter text.			
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			
	<b>If yes</b> , 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 <sub>5</sub> concentration of the sludge, and the design BOD <sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes □ No
		If yes, does the unit have a Municipal Solid Waste permit?
		□ Yes □ No

If yes to any of the above, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the septic waste, and the design BOD<sub>5</sub> 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.		

### 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 <sub>5</sub> , 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 <sub>3</sub> )*, 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

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

Pollutant	Average Conc.		No. of Samples	-	Sample Date/Time
Alkalinity (CaCO <sub>3</sub> ), 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: WWoo33273

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

A.	ww	WWTP's Sewage Sludge or Biosolids Management Facility Type					
	Che	ck all that apply. See instructions for guidance					
		Design flow>= 1 MGD					
		Serves >= 10,000 people					
		Class I Sludge Management Facility (per 40 CFR § 503.9)					
		Biosolids generator					
		Biosolids end user – land application (onsite)					
		Biosolids end user - surface disposal (onsite)					
		Biosolids end user – incinerator (onsite)					
B.	ww	VTP's Sewage Sludge or Biosolids Treatment Process					
	Che	eck 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)</li>
 □ 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

<b>If yes</b> , are beneficial	-	equesting to co	ntinue this auth	orizati	on to la	and ap	ply biosolids fo	or
□ Ye	s 🗆	No						
			ation for Permit ed to this permi					
□ Ye	es 🗆	No						
B. Sludge pr	ocessii	ng authorizatio	on					
		g permit includ sal options?	e authorization	for an	y of the	e follov	ving sludge pro	ocessing,
Sludge	Comp	osting			Yes		No	
Marke	ing an	d Distribution	of Biosolids		Yes		No	
Sludge	Surfac	ce Disposal or S	Sludge Monofill		Yes		No	
Tempo	rary st	torage in sludg	e lagoons		Yes	$\boxtimes$	No	
authoriza	tion, is <b>Repo</b> r	the completed	ge options and the <b>Domestic Wast</b> <b>No. 10056)</b> attac	ewate	r Perm	it Appl	ication: Sewag	
Section 11	. Sev	wage Sludge	Lagoons (In	istru	ctions	s Page	e 53)	
Does this fac	lity ind	clude sewage sl	udge lagoons?					
□ Yes	⊠ N	0						
If yes, comple	te the	remainder of t	his section. If no	, proc	eed to	Section	12.	
A. Location	nform	ation						
		aps are require chment Numbe	d to be submitter.	ed as p	art of t	the app	lication. For ea	ach map,
• Ori	ginal G	General Highwa	y (County) Map:					
Att	achme	ent: <u>Click to ent</u>	er text.					
• US	)A Nat	ural Resources	Conservation Se	ervice :	Soil Ma	p:		
Att	achme	ent: Click to ent	er text.					
• Fed	eral Er	nergency Mana	gement Map:					
Att	achme	ent: Click to ent	er text.					
• Site	map:							
Att	achme	ent: Click to ent	er text.					
Discuss ir apply.	a desc	cription if any o	of the following	exist v	vithin t	he lago	on area. Check	call that
	erlap a	a designated 10	00-year frequenc	y floo	d plain			
	ils wit	h flooding clas	sification					

	Overlap an unstable area
	Wetlands
	Located less than 60 meters from a fault
	None of the above
Att	rachment: Click to enter text.
-	rtion of the lagoon(s) is located within the 100-year frequency flood plain, provide otective 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.
	<ul> <li>Description of the method of controlling infiltration of groundwater and surface water from entering the site</li> </ul>
	Attachment: Click to enter text.
	<ul> <li>Procedures to prevent the occurrence of nuisance conditions</li> </ul>
	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.	
B. Permittee enforcement status	
Is the permittee currently under enforcement for this facility?	
□ Yes ⊠ No	
Is the permittee required to meet an implementation schedule for compliance or enforcement?	
□ Yes ⊠ No	
<b>If yes</b> to either question, provide a brief summary of the enforcement, the implement schedule, and the current status:	tation
Click to enter text.	

# 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.	<b>Justification</b>	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>TCEO's Regionalization Policy for Wastewater</u> <u>eatment</u> <sup>1</sup> .
		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.
		<b>If yes</b> , 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

<sup>&</sup>lt;sup>1</sup> 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 <sub>5</sub> Concentration in mg/l: <u>Click to enter text.</u>
Average Influent Loading (lbs/day = total average flow X average BOD <sub>5</sub> conc. X 8.34): $\underline{\text{Click}}$ to enter text.
Provide the source of the average organic strength or BOD <sub>5</sub> concentration.
Click to enter text.

#### B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD <sub>5</sub> 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)
<b>3</b> 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 <b>no,</b> 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 <b>Domestic</b> 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 <b>no</b> , proceed it Section 2. <b>If yes</b> , provide the following:
Owner of the drinking water supply: <u>Click to enter text.</u>
Distance and direction to the intake: <u>Click to enter text.</u>
Attach a USGS map that identifies the location of the intake.
Attachment: Click to enter text.
Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)
Does the facility discharge into tidally affected waters?
□ Yes □ No
If <b>no</b> , proceed to Section 3. <b>If yes</b> , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: Click to enter text.
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
□ Yes □ No
If yes, provide the distance and direction from outfall(s).
Click to enter text.
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
□ Yes □ No
If yes, provide the distance and direction from the outfall(s).
Click to enter text.

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	<b>yes</b> , this	s Worksheet is complete.
If	<b>no</b> , 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.

	List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.						
	Click	to enter text.					
D.	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.	Provide general observations of the water body during normal dry weather conditions.						
		to enter text.					
	Date and time of observation: Click to enter text.						
	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: <u>Click to enter text.</u>					
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	Identify 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 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	Runoff Protec	ction (Instru	ctions Pag	ge 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 BOD<sub>5</sub> loading rate, in lbs BOD<sub>5</sub>/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 <b>yes</b> , is the facility located on the Edwards Aquifer Recharge Zone?
□ Yes □ No
If yes, attach a geological report addressing potential recharge features.
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
<b>If yes to either question</b> , the subsurface system may be prohibited by <i>30 TAC §213.8</i> . Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

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

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

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

Se	ction 1. Administrative Information (Instructions Page 74)
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 <b>no</b> , provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.
	Click to enter text.
C.	Owner of the subsurface area drip dispersal system: <u>Click to enter text.</u>
D.	Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?
	□ Yes □ No
	If <b>no</b> , identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.
	Click to enter text.
Е.	Owner of the land where the subsurface area drip dispersal system is located: <u>Click to enter text.</u>
F.	Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?
	□ Yes □ No
	If <b>no</b> , identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.
	Click to enter text.

# Section 2. Subsurface Area Drip Dispersal System (Instructions Page

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 <b>west</b> of the boundary shown in <i>30 TAC § 222.83</i> <b>and</b> 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 <b>east</b> of the boundary shown in <i>30 TAC § 222.83</i> <b>or</b> in any part of the state when the vegetative cover is any crop other than non-native grasses?
	□ Yes □ No
	If <b>yes</b> , 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 <b>yes</b> , provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.
	Attachment: Click to enter text.
Se	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.
R	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)
Α.	Site location
	Is the existing/proposed land application site within a designated floodway?
	□ Yes □ No
B.	Flood map
	Attach either the FEMA flood map or alternate information used to determine the floodway.
	Attachment: Click to enter text.
Soci	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>B.</b> Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?
□ Yes □ No
<b>If yes to either question</b> , 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.
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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

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

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

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

# **Section 2. Priority Pollutants**

For 1	pollutants	identified	in	Tables	4.0(2)A-E,	indicate	type	of s	ample.
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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

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

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

## Table 4.0(2)B - Volatile Compounds

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

## Table 4.0(2)C - Acid Compounds

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

## Table 4.0(2)D - Base/Neutral Compounds

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

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

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

## Section 3. Dioxin/Furan Compounds A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply. 2,4,5-trichlorophenoxy acetic acid Common Name 2,4,5-T, CASRN 93-76-5 2-(2,4,5-trichlorophenoxy) propanoic acid Common Name Silvex or 2,4,5-TP, CASRN 93-72-1 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate Common Name Erbon, CASRN 136-25-4 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate Common Name Ronnel, CASRN 299-84-3 2,4,5-trichlorophenol Common Name TCP, CASRN 95-95-4 hexachlorophene Common Name HCP, CASRN 70-30-4 For each compound identified, provide a brief description of the conditions of its/their presence at the facility. Click to enter text.

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

# 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.

	In the past three years, has your POTW experienced pass through (see instructions)?
	□ Yes ⊠ No
	<b>If yes</b> , identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.
	Click to enter text.
D.	Pretreatment program
<b>L</b> .	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

	Have there been any <b>non-substantial modifications</b> to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?									
	□ Yes □ No									
		non-substantial modose of the modifica		ave not been subn	ubmitted 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
<b>If subject to categorical pretreatment standards</b> , indicate the applicable category and subcategory for each categorical process.
Category: Subcategories: Click to enter text.
Click or tap here to enter text. Click to enter text.
Category: Click to enter text.
Subcategories: <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
<b>If yes</b> , 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>					
Longitude: Click to enter text.  Method of determination (GPS, TOPO, etc.): Click to enter text.  Attach topographic quadrangle map as attachment A.  6. Well Information  Type of Well Construction, select one:  Vertical Injection  Subsurface Fluid Distribution System  Infiltration Gallery  Temporary Injection Points  Other, Specify: Click to enter text.  Number of Injection Wells: Click to enter text.  7. Purpose  Detailed Description regarding purpose of Injection System:  Click to enter text.  Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)  8. Water Well Driller/Installer  Water Well Driller/Installer Name: Click to enter text.  City, State, and Zip Code: Click to enter text.  Phone Number: Click to enter text.						
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 Aguifer: Click to enter text.
- 2. Receiving Formation Name of Injection Zone: Click to enter text.
- 3. Well/Trench Total Depth: Click to enter text.
- **4.** Surface Elevation: <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): Click to enter text.
- 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.)

☐ New Perr	nit, Registrati	ion or Authorization	(Core Data Form	should be s	ubmitted	with the pro	gram application.)				
□ Renewal	(Core Data Fo	orm should be submi	tted with the ren	ewal form)			Other				
2. Customer	Reference I	Number (if issued)	_	ollow this li		<u></u>					
CN 6006472	:34			Central Re	egistry**	RN	102976131				
<u>SECTIOI</u>	N II: C	<u>Customer</u>	Inform	<u>ation</u>							
4. General Cu	ustomer Inf	ormation	5. Effective D	Date for Cu	stomer	Information	Updates (mm/dd	/уууу)			
New Customer											
		omitted here may l ler of Public Accou	-	tomatically	y based	on what is	current and activ	e with th	ne Texas Sec	retary of State	
6. Customer	Legal Name	e (If an individual, pri	nt last name firs	t: eg: Doe, Jo	ohn)		If new Customer	, enter pr	evious Custom	<u>ner below:</u>	
City of Panhan	dle										
7. TX SOS/CP	8. TX State T	<b>ax ID</b> (11 di	gits)		9. Federal Tax ID  (9 digits)  10. DUNS Number (if applicable)						
11. Type of C	ustomer:	☐ Corporat	tion			☐ Indiv	idual	Partne	ership: 🔲 Ger	neral 🔲 Limited	
Government:	☑ City ☐ Co	ounty 🗌 Federal 🔲	Local 🗌 State	Other		Sole	Proprietorship	Ot	her:		
12. Number	of Employe	es					13. Independe	ntly Ow	ned and Op	erated?	
☑ 0-20 ☐	21-100	101-250 🗌 251-	500 🗌 501 a	nd higher			Yes	⊠ No			
14. Customer	r Role (Prope	osed or Actual) – as i	t relates to the R	Regulated En	itity listed	on this form	. Please check one c	f the follo	owing		
Owner Occupation	al Licensee	Operator Responsible Pa		ner & Operat			☐ Other	:			
15. Mailing	PO Box 12	9				-			-		
Address:	C'A	David and H		Ct.	-TV		70000		710 : 4	Т	
	City	Panhandle		State	TX	ZIP	79068		ZIP + 4		
16. Country I	Mailing Info	ormation (if outside	USA)			17. E-Mail <i>A</i>	Address (if applicab	ole)			
						tcoffee@city	ffee@cityofpanhandle.com				

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18. Telephone Number	19. Extension o	20. Fax Number (if applicable)								
(806)336-9945						(	) -			
SECTION III: F	Regu	lated Ent	tity Inforr	natio	<u>n</u>					
21. General Regulated Ent	tity Inforn	nation (If 'New Re	gulated Entity" is sele	cted, a ne	v permit applica	ation is al	so required.)			
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information										
The Regulated Entity Namas Inc, LP, or LLC).	ne submit	ted may be upda	ited, in order to me	eet TCEQ	Core Data Sta	ndards (	removal of or	ganizatio	nal endings such	
22. Regulated Entity Nam	<b>e</b> (Enter na	ame of the site whe	re the regulated actio	n is taking	place.)					
City of Panhandle Wastewate	r Treatmen	nt Plant								
23. Street Address of the Regulated Entity:										
(No PO Boxes)	City		State		ZIP			ZIP + 4		
24. County	Carson		l		<u> </u>				1	
		If no Stre	et Address is provi	ded, field	s 25-28 are re	equired.				
25. Description to	2 F00 foot	t oast of the interes	estion of H.C. Highway	, 60 and 5a	to Highway 202	oost of t	ha City of Danh	andla in Ca	rcan County Toyos	
Physical Location:	2,500 lee	t east of the interes	sction of U.S. Highway	7 60 anu Sa	le nignway 293	, east or t	ne City of Panna	andie, in Ca	rson County, Texas.	
26. Nearest City						State		Nea	rest ZIP Code	
Panhandle						TX		790	68	
Latitude/Longitude are re used to supply coordinate	-	-	-			ards. (Ge	cocoding of th	e Physical	Address may be	
27. Latitude (N) In Decima	al:	35.33472222		28	. Longitude (\	W) In De	cimal:	101.355		
Degrees	Minutes		Seconds	De	grees		Minutes		Seconds	
35		20	53		101		21		18	
29. Primary SIC Code	3	0. Secondary SIC	Code	31. Prir	nary NAICS Co	ode	32. Seco	ndary NAI	CS Code	
(4 digits)	(4	l digits)		<b>(</b> 5 or 6 o	ligits)		(5 or 6 dig	gits)		
4952				221320						
33. What is the Primary B	usiness o	f this entity? (D	o not repeat the SIC o	or NAICS de	scription.)					
Domestic Wastewater Treatm	ent									
34. Mailing	PO Box	129								
Address:	City	Panhandle	State	тх	ZIP	79068	;	ZIP + 4		
35. E-Mail Address:	to	coffee@cityofpanh	andle.com							
36. Telephone Number	36. Telephone Number 37. Extension or Code 38. Fax Number (if applicable)									

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( ) -

( 806 ) 336-9945

_		<b>mbers</b> Check all Prograi ructions for additional g		s/registration	numbers th	at will be affected	by the updates submitted on this
☐ Dam Safety		Districts	Edwards Aquifer		Emissions Inventory Air		☐ Industrial Hazardous Waste
☐ Municipal Solid	Waste	New Source Review Air	OSSF		Petroleu	m Storage Tank	□ PWS
Sludge		Storm Water	☐ Title V Air		Tires		Used Oil
☐ Voluntary Clear	nup		☐ Wastewater Agricu	lture	Water Ri	ghts	Other:
		WQ0010359001					
SECTION :	IV: Pr	eparer Inf	ormation				
<b>40. Name</b> : Pa	ul Krueger			41. Title:	Civil En	gineer	
42. Telephone Nu	mber	43. Ext./Code	44. Fax Number	45. E-Ma	il Address		
( 806 ) 473-3715			( ) -	PKrueger(	Parkhill.co	m	
6. By my signature b	elow, I certif			•		•	e, and that I have signature authorit entified in field 39.
Company:	City of Pa	anhandle		Job Title:	City M	1anager	
Name (In Print):	Terry Cof	ffee				Phone:	( 806 ) 537- <b>3517</b>
Signature:						Date:	

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Appendix B

**Lease Agreement** 

STATE O	F TI	EXA	S
COUNTY	OF	CA	RSON

# **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 older about access to the		
SIGNED AND EXECUTED THIS the 1st day of 3	July, A.D. 2000.	
LESSOR:	Joe S. Nunn  Geraldine M. Nunn  Joe S. Nunn	
	John L. Munn  Serelline M. Nunn  Geraldine M. Nunn	
LESSEE:	City of Panhandle, Texas  City of Panhandle, Texas  Leslie L. McNeill, Mayor	
ATTEST:	٠	
Chris Coffinal		

City Secretary

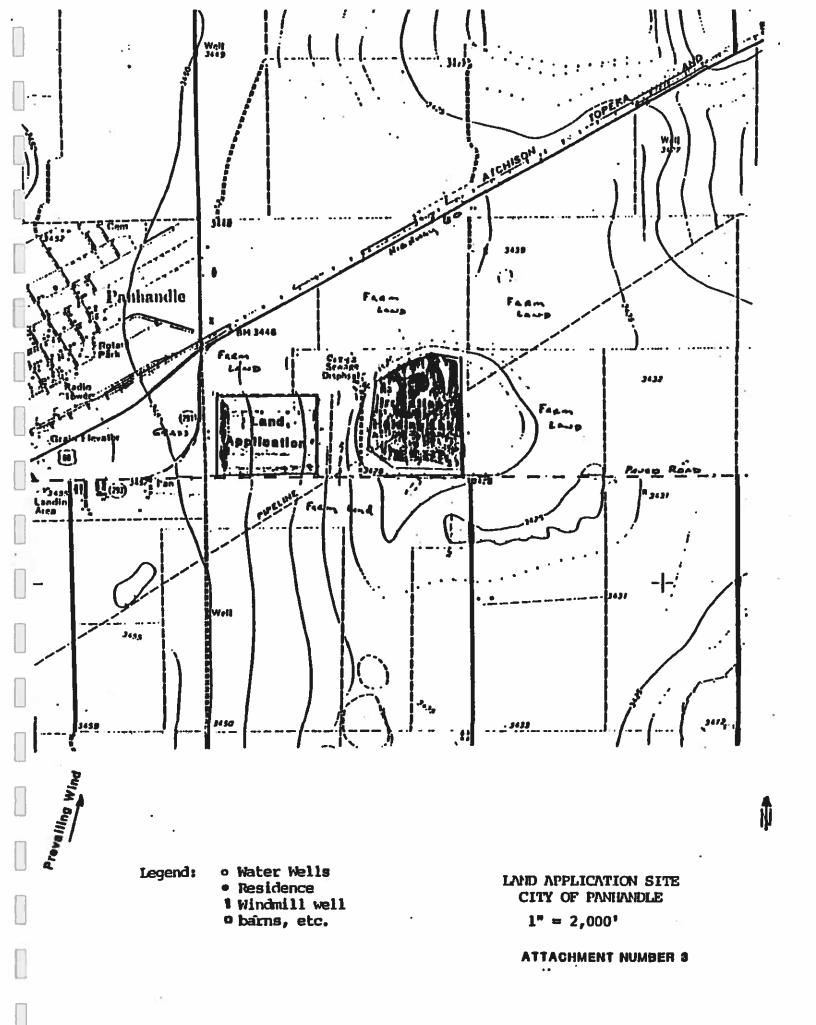
#### THE STATE OF TEXAS COUNTY OF CARSON

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 CARSO	N

# 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");
<u>WITNESSETH:</u>
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. Term of Agreement. 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 TH	IIS the 1 <sup>st</sup> day of July, A.D. 2000.
	40
LESSOR:	Joe S. Nunn John L. Nunn Geraldine M. Nunn
	John Junn John L. Nunn
	Rosaldine 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. Munn  Sons L. Nunn  Residence 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 BOD<sub>5</sub>. 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.com/w

#### **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 (RN100000000000), 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 (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-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 (CBOD<sub>5</sub>), total suspended solids (TSS), ammonia nitrogen (NH<sub>3</sub>-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.

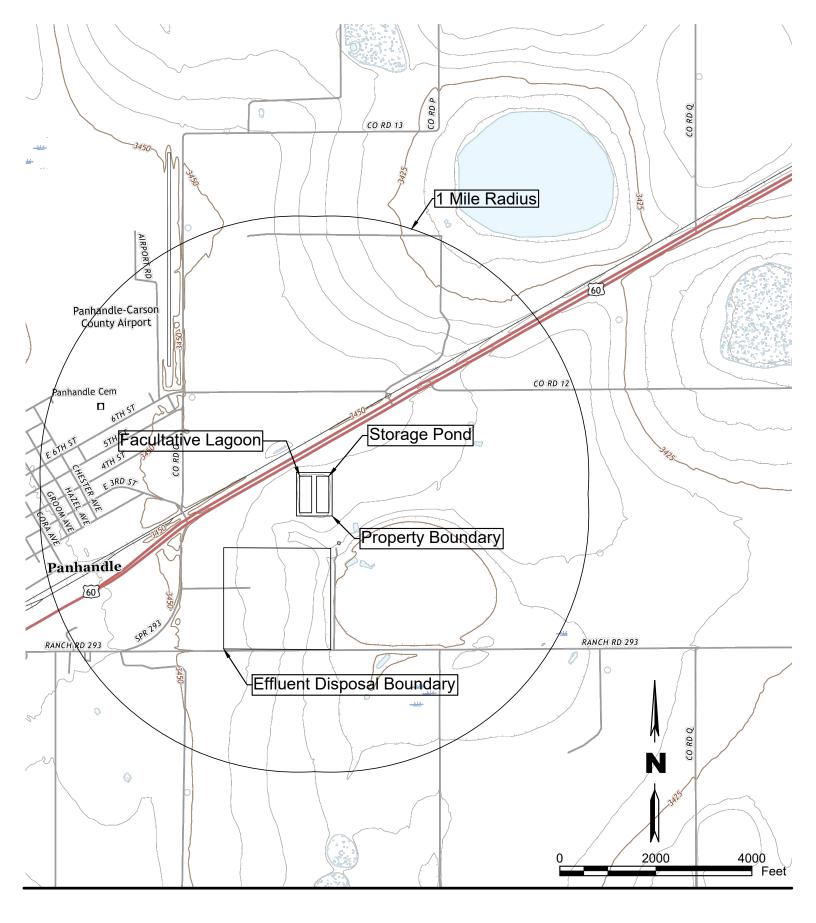
The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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

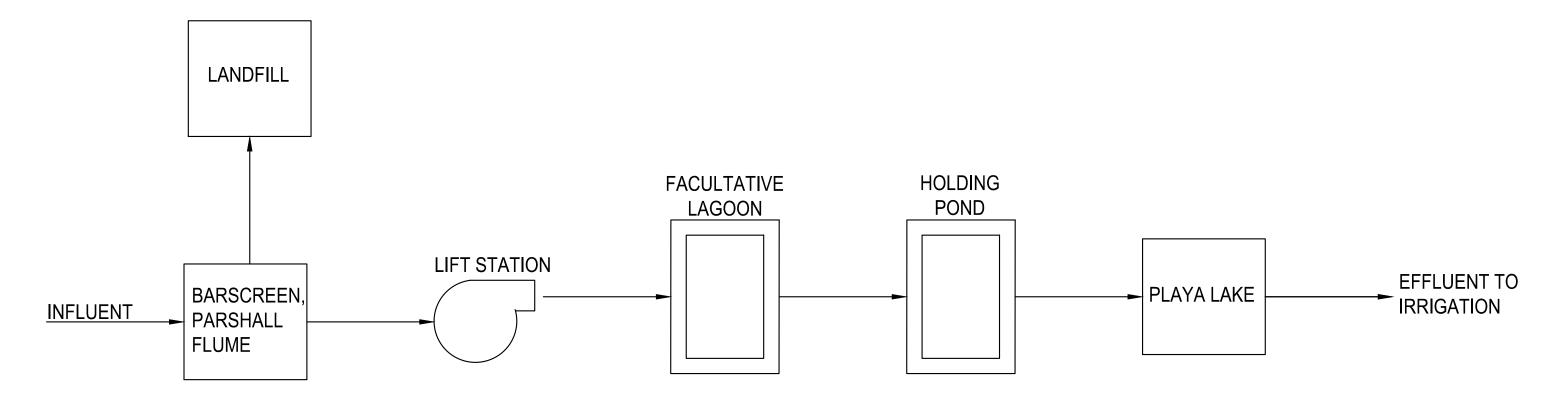
 Project No:
 45268.25

 Sheet:
 1 OF 1

**Appendix E** 

Flow Diagram



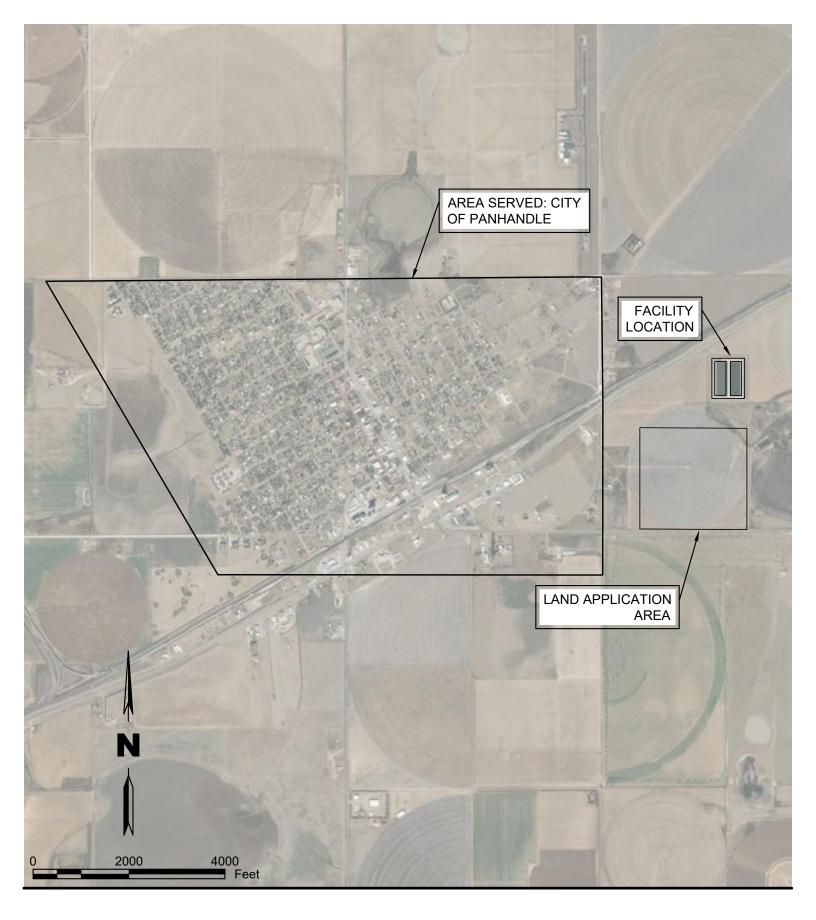




Issue: Re
Date: 3/26
Project No: 452
Sheet:

Appendix F

**Site Drawing** 



# City of Panhandle WWTP Permit Renewal

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



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#### **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

Do441a

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	sults						
	2407972	WW PANHANDLE									Received:	05/14	1/2025
N	on-Potable Wate	er Co Take	en: 05/	Client /13/2025	Parkhill	12:15	:00			PO:			
E	PA 1664B (HEN	4)		Prepared:	1176006	05/.	(19/2025	07:33:00	Analyzed	1176006	05/19/2025	07:33:00	MA.
NELAC	Parameter Oil and Greas	е (НЕМ)		<i>Results</i> <4.82		nits g/L	<i>RL</i> 4.82		Flag.	s	CAS		Bottle 05
E	PA 200.7 4.4			Prepared:	1175341	05/.	(15/2025	06:00:00	Analyzed	1175494	05/15/2025	12:13:00	CAS
NELAC	Parameter Phosphorus			<i>Results</i> <b>4.28</b>		nits g/L	<i>RL</i> 0.040		Flag.	S	<i>CAS</i> 7723-14-0		Bottle 09
E	PA 300.0 2.1			Prepared:	1175497	05/.	14/2025	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	<i>RL</i> 3.00 0.1 3.00		Flag.	S	CAS 14797-55-8		01 01 01 01
E	PA 350.1 2			Prepared:	1175323	05/.	14/2025	17:17:20	Analyzed	1175970	05/19/2025	06:55:00	AMI
NELAC	Parameter Ammonia Nit	rogen		Results 8.02	Ui mį	nits g/L	<i>RL</i> 0.100		Flag.	S	CAS		Bottle 06
E	PA 351.2 2			Prepared:	1175608	05/.	16/2025	06:18:00	Analyzed	1176318	05/21/2025	10:36:00	AME
NELAC	Parameter Total Kjeldah	l Nitrogen		Results 14.8		nits g/L	<i>RL</i> 0.500		Flag	S	CAS 7727-37-9		Bottle 11
S	M 2510 B-2011			Prepared:	1175996	05/.	19/2025	13:30:00	Analyzed	1175996	05/19/2025	13:30:00	ANC
	Parameter			Results	Ui	nits	RL		Flag	S	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** Received: 05/14/2025

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	1 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



Printed: 06/30/2025

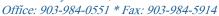
2407972 WW PANHANDLE 05/14/2025 Received:

#### 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	EM 5210 B-2016 (TCMP Inhibitor)	Prepared: 11	75331 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:

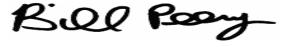
We report results on an As Received (or Wet) basis unless marked Dry Weight.

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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#### PHKG-P

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

1175331						SM 521	0 B-2016 (TC	MP Inhibitor)
			В	lank				
PrepSet 1175331 1175331	Reading 0.2 0.1	MDL 0.200 0.200	MQL 0.500 0.500	Units mg/L mg/L		<i>File</i> 127606877 127609685		
			Duj	olicate				
Sample 2407877 2408025 2408364 2408776		Result 5.13 3.57 3.53 417	6.05 2.37 4.09 413		mg/l mg/l mg/l	L L L	RPD 16.5 40.4 * 14.7 0.964	Limit% 30.0 30.0 30.0 30.0 30.0
1175331 1175331	0.387 0.417	0.200 0.200	0.500 0.500	mg/L mg/L		File 127606879 127609687		
			Sta	ndard				
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		
1175970			В	lank				EPA 350.1 2
<i>PrepSet</i> 1175323	Reading	MDL	1.00					
	ND	0.00336	MQL 0.020	Units mg/L CCV		File 127619913		
	PrepSet 1175331 1175331  Sample 2407877 2408025 2408364 2408776  PrepSet 1175331 1175331 Sample  1175970	PrepSet Reading 1175331 0.2 1175331 0.1  Sample 2407877 2408025 2408364 2408776  PrepSet Reading 1175331 0.387 1175331 0.417  Sample Reading 213 193	PrepSet         Reading         MDL           1175331         0.2         0.200           1175331         0.1         0.200           Sample         Result           2407877         5.13           2408025         3.57           2408364         3.53           2408776         417           PrepSet         Reading         MDL           1175331         0.387         0.200           1175331         0.417         0.200           Sample         Reading         Known           213         198           193         198           1175970	PrepSet   Reading   MDL   MQL	Blank   PrepSet   Reading   MDL   MQL   Units	Blank   PrepSet   Reading   MDL   MQL   Units   1175331   0.2   0.200   0.500   mg/L   1175331   0.1   0.200   0.500   mg/L   Duplicate	PrepSet   Reading   MDL   MQL   Units   File	Blank   PrepSet   Reading   MDL   MQL   Units   File   1175331   0.2   0.200   0.500   mg/L   127606877   1175331   0.1   0.200   0.500   mg/L   127609685   Duplicate   Sample   Result   Unknown   Unit   RPD   2407877   5.13   6.05   mg/L   16.5   2408025   3.57   2.37   mg/L   40.4   * 2408364   3.53   4.09   mg/L   14.7   2408776   417   413   mg/L   0.964   Seed Drop   PrepSet   Reading   MDL   MQL   Units   File   1175331   0.387   0.200   0.500   mg/L   127606879   1175331   0.417   0.200   0.500   mg/L   127609687   Standard   Sample   Reading   Known   Units   Recover%   Limits%   File   213   198   mg/L   108   83.7 - 116   127606880   193   198   mg/L   97.5   83.7 - 116   127609688   1175970

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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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#### 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	<ul><li>Known</li><li>2.00</li><li>2.00</li><li>2.00</li><li>2.00</li></ul>	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  Parameter		Reading	Known		_	Limits%		File		EPA	A 351.2 2
Analytical Set  Parameter  Total Kjeldahl Nitrogen		Reading 0.214	<i>Known</i> <b>0.200</b>	AWR	L/LOQ C  Recover%  107	<i>Limits%</i> 75.0 - 125		<i>File</i> 127627105		EPA	A 351.2 2
Analytical Set  Parameter		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	<i>Known</i> <b>0.200</b>	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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#### PHKG-P

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MS

<u>Parameter</u> Oil and Grease (HEM)	Sample <b>2406889</b>	<i>MS</i> 41.2	<i>MSD</i> <b>0</b>	<i>UNK</i> 2.00	<i>Known</i> <b>40.0</b>	<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			127610608			
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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#### PHKG-P

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

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

				ы	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			
				ı	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
				N	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

Email: Kilgore.ProjectManagement@spllabs.com



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Parkhill Kole Glover 800 S Polk St Suite 200 Amarillo, TX 79124 Page 6 of 7

Project

1147348

Printed 06/30/2025

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	ank					
<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

Printed 06/30/2025

#### PHKG-P

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

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



Report Page 13 of 18

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 La TCEQ Lab ID: T104704247  Panhandle Diversion 13500 South US Hay 287 Amarillo Tessor 7 Offees 1925 39990 Emergency 1990-1264	Pur	Leb D. Box 477 / Chase C Southwest Divisio Southwest Divisio	6145 State H Order / C	hain	1/1, Hills	JSt( IS Divisio Winona,	ody	75792	EPA	Lab ID:	TX015	47 Coastal , Schul	Divisio		D1	Page _1 of
Report To: Rey Haden	Report To: (Buye	r)						٨١	MAL	YSES	DEC	NIES	TEL	,		NOTES:
Company: Parkhill	Purchase Order #	:						^	MAL	131.0	IXLG	OLC	//			
Email: Chaden@ Purkhill.com Phone: 806-683-1069 Project Name: Punhandle WMTP Project Location: Panhandle WMTP	Email: Kilgore Phone: Quote #: City, State: [	. project receipes . c				CBOD / BOD	TSS	Hd	00	NH3N (pH<2.0, H <sub>2</sub> SO <sub>4</sub> ) SM4506-NH3 D or G unless pecified	FECAL COLIFORM (E.COLI (Sterlie)	MLSS	ALKALINITY			frommental Montoring Laboratory, Laboratory, 1887 13260 South US Highway 287 Ameridio TX 79118-7005
Hand Deliver: Pick-up: Sampler:  Lab# Client Sample ID	Matrix	Date	Time	'Pres Code	(Bottle Code		9			- 4						Sample Rema
1. Panhandle 103 2. 3. 4. 5.	WW	5/13/15	12:15pm	V							X					
/. R	_	1														
9.																
10.																0 1500
Relinquished By:	Date	Time	Received By	7000 7557 1155						Da	2000			Time	ot GU lce:	( NO 10 12
1. Ray Haden	5/13/25	1215	1. ERIK SCA	RBOR	0 46A	18	_ 3	SPL	5	13.2	5		-	215	1000000	orien Colory 1 Bodie 1
ERIKSCARBOROUGH / SPL	5-13-25	154D	2. Aud 3.	ay	Was	9_			05	13/2	5		1,	540	1. None 2. Sultai 3. Noic 4. NuCH 5. NuCH	1. Planti is 2. Olans 3. 46 ml

Parkhill



## **CHAIN OF CUSTODY**

Kole Glover 800 S Polk St		103	
Suite 200			•
Amarillo, TX 79124 NELAC Short HoldSubc	<b>С</b> ЕСРН	E.Coli WW MPN Panhandle (SUB)	SUB Lab CAS:EMLC (0.333 days)
	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 H2	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	!ClL	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 Affiliation
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 Name 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





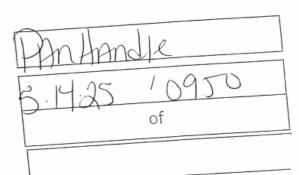
# COOLER CHECKIN

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**

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, H<sub>2</sub>SO<sub>4</sub>) SM4500-NH3 D or G unless

DO

Hq

SST

+ Bottle Code

"Pres Code

Time

Date

Matrix

Client Sample ID

2.5%

5/13/25

3

1. Panhandle

2505154

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CBOD \ BOD

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City, State:

3

Project Location: Yanhan P

INHANC! E

Project Name:

Phone: Email:

Quote #:

Phone:

Thadlen Durkhill. Lom

KON Hader

(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 -13.20 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

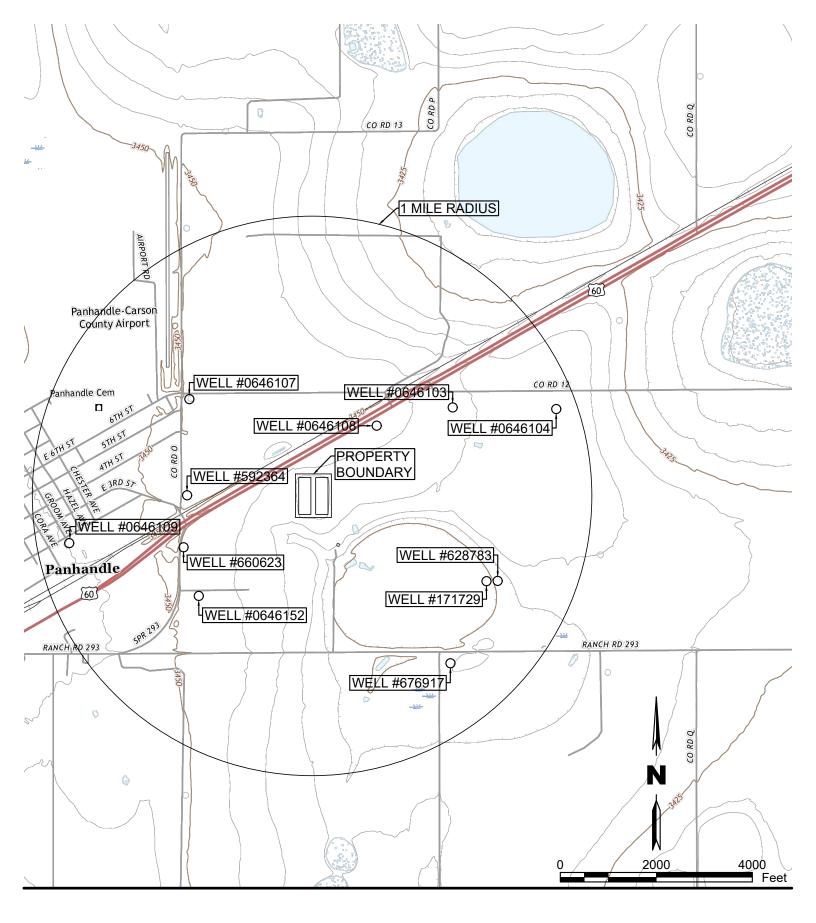
#### D. Crop nutrient requirements:

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  Owner's Well No.  Owner's Well No.  County CHPSON  1. Location NW 1/h, NE 1/h Sec 23 , Block Z Survey TTRR  2. Owner; Cll Eford Wasson Address:  Driller: Panhandle Try: Inc. Address:  Driller: Panhandle Try: Try: Setting ft.  Comented From Tr. to  Driller: Tr. to  Driller: Try: Setting ft.  Comented From Tr. to  Driller: Try: Setting ft.  Comented From Tr. to  Driller: Tr. to  Dril
2. Owner: CILEFOX WASSON Address: Panhandle.  Priment: Havold Kneps Address: 10
Driller: Pannande Irri Inc. Address: Driller: Pannande Irri Inc. Address:  3. Elevation of LSD is 343 ft. above mel, determined by Jope  4. Drilled: G-1-1965; Dug, Cable Tool, Rotary)  5. Depth: Rept. ft. Mess. G45 ft. by DI  6. Completion: Open Hole, Straight Wall, Underreased, Gravel Packed Cased (dn.)  7. Pump: Mfgr. Laybe (MMASCK) Type T  No. Stages // Bowls Diam. Din., Setting 450 ft.  Column Diam. B in., Length Tailpipe ft.  8. Motor: Fuel AlG Make & Model M - M G HP.  9. Yield: Flow gpm, Pump BDD gpm, Mess. Rept. Est.  10. Performance Test: Date Length of Test Made by  Static Level 355 ft. Pumping Level 60Qft. Drawdown ft.  Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. rept. 19 above which is ft. above surface. below ft. rept. 19 above mess. 19 below which is ft. above surface. below ft. rept. 19 above which is ft. above surface. below which is ft. above surface. Test. 19 above which is ft. above surface. Below which is ft. above surface. Test. 19 above which is ft. above surface. Below
Driller: Panhandle Irritance Address:  3. Elevation of 150 is 343 ft. above mel, determined by TopQ  4. Drilled: 6-1-1965; Dug, Cable Tool, (Rotary)  5. Depth: Rept. ft. Meas. 645 ft. 64 DI  6. Completion: Open Hole, Straight Wall, Underressed, Oravel Packed Co.Sed (in.)  7. Pump: Mfgr. Ample Aman GN Type T  No. Stages II, Bowls Diam. IQ in., Setting 450 ft.  Column Diam. R in., Length Tailpipe ft.  8. Motor: Fuel NG Make & Model M Make & Model M HP.  9. Yield: Flow gpm, Pump BOO gpm, Meas. Rept. Est.  10. Performance Test: Date Length of Test Made by  Static Lewel S ft. Pumping Level 600ft. Drawdown ft.  Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. rept. neas. below which is ft. above surface. below ft. rept. neas. below which is ft. above surface. below ft. rept. neas. below which is ft. above surface. below the show surface. below the show the sour surface. below the show the show the sour surface. below the show the show the show the sour surface. below the show the show the surface. below the show the show the show the surface. below the show the surface. below the show the surface. below the show the show the surface. below the surface. below the show the surface. below the surface. The surface the surface. The surface the surface the surface that the surface the surface that the surface that the surface the surface t
3. Elevation of ASD is 343 ft. above mel, determined by 70,00  4. Drilled: G-/- 1965; Dug, Cable Tool, Rotary)  5. Depth: Rept. ft. Mess. G45 ft. 69 DL  6. Completion: Open Hole, Streight Wall, Underreamed, Oravel Packed Cased (in.) From ft. to Setting, ft. ft. pump: Mfgr. Land DL (AMANCH) Type Tool No. Stages 1/2, Bowls Diam. 1/2 in., Setting 450 ft. Column Diam. 8 in., Length Teilpipe ft.  8. Motor: Fuel AG Make & Model M - M G HP.  9. Yield: Flow gpm, Pump BOD gpm, Mess. Rept. Est.  10. Performance Tent: Date Length of Test Made by Static Level S5 ft. Pumping Level GO Qft. Drawdown ft. Production gpm Specific Capacity gpm/ft.  11. Water Level: ft. rept. 19 above below ft. rept. 19 above below ft. rept. 19 above below ft. rept. 19 above which is ft. above surface. The low for the low ft. rept. 19 above which is ft. above surface. The low for the low ft. rept. 19 above which is ft. above surface. The low for the low ft. rept. 19 above which is ft. above surface. The low for the low ft. rept. 19 above which is ft. above surface. The low for the low ft. rept. 19 above which is ft. above surface. The low for the low ft. rept. 19 above which is ft. above surface. The low for the low for the low surface. The low surface the low surface. The low surface. The low surface the low surf
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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 analysis Leboratory WELL SCREEN
Temp. °F, Date sampled for analysis Laboratory Screen Openings  Diem. Type Setting, ft.
Temp. °F, Date sampled for analysis Laboratory (in.) from to
14. Other data available as circled: Driller's Log, Radioactivity Log, Electric Log,
Formation Samples, Pumping Test,
15. Record by: $A = C$ Source of Date $NN Necords = Obs$
16. Remarks:

8 8

# WATER WELL LOCATION SKETĆ TEXAS WATER DEVELOPMENT BOARD GROUND WATER DATA & PROTECTION

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Well No. 06 96 104

MAKE 3 Copies

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		Underground Water Co				1	Date		j
$\mathbf{R}$	EGIS	STRATION and	LOG O	F V	VELI	L		7-16-65 Maximum a	
		S: Fill out in quadruplicate. Subsec. (PLEASE TYPE OR PRINT)	mit all copies t	o Distric	t Office f	ior	Pump	Maximum 1000	O GPM
1. Well	l Owner	Clifford Wassen		Addres	s <u>Pan</u>	handle	, Texas	· · · · · · · · · · · · · · · · · · ·	
2. Weil	located	miles N, mil	es S,	miles :	E,	miles	W of the to	vn of Panhan	Ale, Te
3. Cour	nty C	Labor	Le	agne —	<del></del>	Но	mestead	<u>-</u>	<del></del>
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	(GIRCLE	OND						ine of this tract	
5. ACTUA	IL LOCAT	TION OF THIS WELL IS						line of this traci	
		, LIAU	LER'S LO	_					, ,,
		Method of Drilling:		•	/E <b>V</b> V I	<b></b>			
FROM	10		•	FROM	70	T DEC	SIRTION OF F		
(PEET)	(PEET)	DESCRIPTION OF FORMATION	MATERIAL	386	(FRET)	<del> </del>		ttle Sand	
0	5	Top soil			<u> </u>	<u> </u>	<u> </u>		
5	140	Caliche Rock Sand L		416				tthe Sand	
140	172	Sand Caliebe Rock L	ľ	447		Calic		ttle Sand	steme
五	5)	Sand Calfest ock L	ittle Cl	<b>2377</b>	508	Sandy	Clay Li	ttle Sand	stone
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294	325	Sandy Clay Sandston	10	599	640	Clay	e Sand 0	ravel	<u> </u>
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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
Driller	/ anna	adle Irrigation, Ing	ress remine	TOTAL	1440	Da	te Drilled	full 1-	. 19
		DES	CRIPTIO	N OF	WEL	LL.	·		
6. Cas	ing: nev	w, used, gas line, or shop ma	de. Dlamete:	r <b>1</b>	6	in.	Total length	635	ft.
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8. Pun	no Colu	mn: Sizein. Total leng	rth <b>550</b> _ft.	Suctio	n pipe: :	Size	in. Lens	th 16	ft.
	_	s: Size 10 RH Number							
.5	منتنب	ater level 355 ft. Pun		10					/
		:: Electrical, Natural Gas, But	_				- •		
		9/1/20 11 1							
Signatu	ıre 💯	lefford Wasse					4.000000	····	

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	_					<del></del>
1. Location:1/4, NE_1/4 Sec. 38	, Block_2	_ Survey_T_T_RR.				
<u></u>					F-+-	† <b>-</b> Ø
2. Owner: John Avnn.		Address:	Pani	bandle	<del></del>	<del>                                     </del>
Parter Brown	<u></u>	_ Address:	da		!	
Driller: Panhande I	exx-Inc.	Address:	d		-+-	<del>† +</del>
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	<b>-</b> 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		_	<del></del>		<del> </del>	
Static Level 355ft. Pumping Level						1
Productiongpm Specif					<u> </u>	<del></del>
11. Water Level: 355, Oft. (ept)	<sup>19</sup> -06 above			which is	ft, so	ove surface.
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12. Use: Dom., Stock, Public Supply, Inc	DETOM	g, Observation, Not Used	,			
13. Quality: (Remarks on teste, odor, color,						
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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						
Formation Samples, Pumping Test,			12/1	Pert	497	260
15. Record by: HEC	Dat	10 5 - 17- 197Z		İ		
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## WATER WELL LOCATION SKETCH TEXAS WATER DEVELOPMENT BOARD GROUND WATER DATA & PROTECTION

		•	2½-minute Quadrangle 4	in
	COUN	1 Mile		
Panhandle Journsite	107 1029-271 1 Hs/28 10 10 10 10 10 10 10 10 10 10	K II O	/08 /P-438	•
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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
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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	sing 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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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	Туре	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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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 <del>2-3/4</del>	new	0	789
	Column Diam6_in., Length Tailplpeft.				<del> </del>
3.	Motor: Mfr. Fuel Natural Gas HP. 75				
9.	Yield: Flowgpm, Pump 600gpm, Heas., Rept., EstDate	_	<del> v = v</del>	<u> </u>	ļ
٥.	Performance Test: Date Length of Test Made by	_	<del></del>		
	Static Level 330 ft. Pumping Level 360 ft. Drawdown ft.		<del></del>	1	<del> </del> -
	Productiongpm Specific Capacitygpm/ft.		· - · · · · · · · · · · · · · · · · · ·	<del> </del>	1
۱.	Quality: (Remarks on taste, odor, color, etc.)				
	Analyses				-
	Date				
	Date	<b> </b>		-	<del>                                     </del>
2.	Other data available (as circled): Pumping Test, Power & Yield Test, Drillers Log,				
	Formation Samples, Geophysical Log(s)(type)	<b></b>		<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> <b>0</b> 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.	<b>-</b>	. to	ft.
6. Completion: Open Hole, Straight Wall, Und		d (in.)		from	to
7. Pump: Mfgr		123/4	Steel	0	289
Column Diamin., Length	Tailpipeft.		01142411		_//_
8. Motor: Fuel NG Make				<del></del> -	<b></b>
9. Yield: Flow gpm, Fump 600 g					
10. Performance Test: Date Leng Static Level 330ft. Pumping Level 3		<b></b>			<b></b>
Production gpm Specifi					
11. Water Level: 330 Q ft. Cept.  Tept.   19 above below 19 above below 19 above below 19 above below 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/ <sub>4</sub>	Pert	634	289
15. Record by: HEC Source of Data WD VCCO	Vas £ 0 hs	21922   		<b>_</b>	
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	<b>VELI</b>	Date Received 1-16-7
INSTRU	UCTION	S: Fill out in quadruplicate. Submit all co			Cino of / // Montana
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 <b>2</b> _	Survey Tyler Tep
		( <b>60</b>			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
10	21:0	Cley & Fine Sand	616	647	Sand & clay
			6b7	667	Sand & Clay Sand & Clay
dio	271	Clay & Kock	667	69 <b>8</b> 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
<b>T</b>		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: from631. ft. to788	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 _	<b></b> 9	Pu	mp discharge pipe: Size in.
	_		_		GPM. Pumping level:ft.
Pow	er Unit	t: Electrical, Natural Gas, Butane, Other			, Horsepower <b>75</b>

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	· <del></del>
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		. <b></b>
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			<b>©</b>	   
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)	<del></del>	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 (Amar Gkl) Type T		- 1		
No. Stages 3, Bowls Diem. / O_in., Setting 980_ft.	16	Steel	Q	755
Column Diam. 8in., Length Teilpipeft.				
8. Motor: Fuel NG			<del> </del> 4	
9. Yield: Flowgpm, Pumpgpm, Mess., Rept., Est				
10. Performance Test: DateLength of Test Made by		<del> </del>	<del> </del>	
Static Level 325 ft. Pumping Levelft. Drawdownft.				
Productiongpm Specific Capacitygpm/ft.				
ll. Water Level: ft. rept. 19 above below	<b>-</b>	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
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Source of Data WD records & Obs	L	]	<u> </u>	
16. Remarks:				
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## WATER WELL LOCATION SKETCH TEXAS WATER DEVELOPMENT BOARD

**GROUND WATER DATA & PROTECTION** 

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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. No.			_Address	Lox	V.SC	hiller	s Sla
Well	located	1/2 miles	N, m	iles S,	_ miles F	c,	_ miles Wo	f the town o	Markand
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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



NRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for 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.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

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How Soil Surveys Are Made	
Soil Map	8
Soil Map	9
Legend	10
Map Unit Legend	11
Map Unit Descriptions	11
Carson County, Texas	13
LcA—Lazbuddie clay, 0 to 1 percent slopes, occasionally ponded	13
PuB—Pullman clay loam, 1 to 3 percent slopes	14
PxA—Pantex silty clay loam, 0 to 1 percent slopes	16
References	18

## **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.

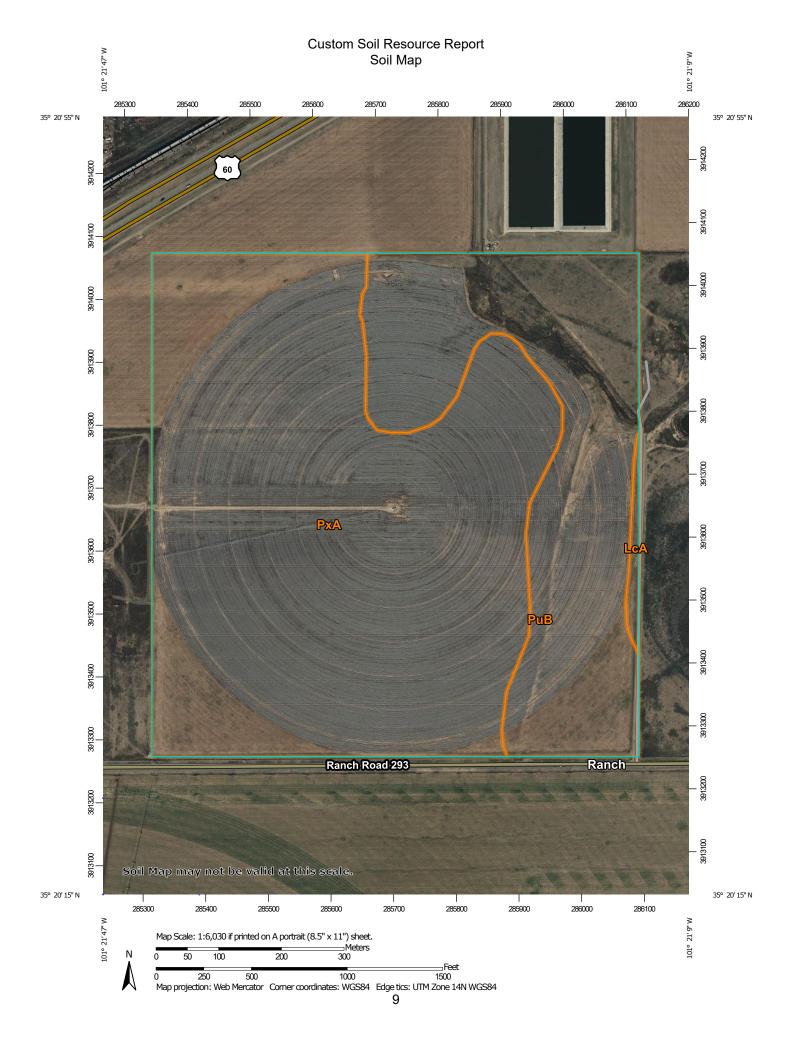
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree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

(©)

Blowout

 $\boxtimes$ 

Borrow Pit

36

Clay Spot

364

Closed Depression

~

Gravel Pit

...

**Gravelly Spot** 

0

Landfill Lava Flow

٨.

Marsh or swamp

@

Mine or Quarry

22

Miscellaneous Water

0

Perennial Water
Rock Outcrop

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Saline Spot

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Sandy Spot

• • •

Severely Eroded Spot

^

Sinkhole

Ø.

Sodic Spot

Slide or Slip

#### 8

Spoil Area



Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

#### Water Features

\_

Streams and Canals

#### Transportation

ransp

Rails

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Interstate Highways

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US Routes

Major Roads

~

Local Roads

#### Background

100

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

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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
	•	ĸ				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.

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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	pH	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					

	<b>工作的</b> 特别人				Field: 6" - CONTRACTED	18"			
Date EPA	Plant Available Phosphorus Mehlich III - ICP	Plant Available Potassium Mehlich III - ICP	Plant Available Calcium	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
					-				
AVERAGES:									

					Field: 18" -	30"			
Date EPA	Plant Available Phosphorus Mehlich III - ICP	Plant Available Potassium Mehlich III - ICP	Plant Available Calcium  Mehlich III - ICP	Plant Available Magnesium	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
	N.							,	
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.

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## City of Panhandle

. .VTP - Analytical Summary Sheet



February 2021

T104704247-20-20

		Irrigation 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	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
~ <sup>2</sup> /26/21	36.8	332	390.3	388	2.31	7.21 K	2420
The second second second		4					
		**************************************					
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"						
SUBCONTRACTED										
Plant Available Phosphorus	Plant Available Potassium	Total Nitrogen	Total Kjeldahl Nitrogen	Nitrate as N	рН	Conductiv				
Mehlich III - ICP	Mehlich III - ICP				2:1 (v/v w/s)	2.1 (w/v w/				
ma/ka	ma/kg	mg/kg	mo/kg	mg/kg		ds/m - mmhos				
39.1	416	1440.0	1430	5.29	7.40	1.030				
	Available Phosphorus Mehlich III - ICP	Available Phosphorus Potassium  Mehlich III - ICP Mehlich III - ICP moles  39.1 416	Plant Available Phosphorus Potassium Total Nitrogen  Mehlich III - ICP Mehlich III -	Plant Available Phosphorus Potassium Total Nitrogen Nitrogen Mehlich III-ICP M	Plant Available Phosphorus Potassium Total Nitrogen Nitrogen Nitrate as N Mehlich III - ICP Mehlich II	SUBCONTRACTED  Plant Available Phosphorus Potassium Total Nitrogen Nitrogen Nitrate as N pH  Mehlich III - ICP Mehlich III - ICP Mosks marks marks marks suu.  39.1 416 1440.0 1430 5.29 7.40				

				n Field: 6" -		and the second s	
			SUBO	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	n 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:			<u> </u>				

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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	рH	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/cn
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/c
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
	a,						
AVERAGES:			<del> </del>				

ENVIRONMENTAL MONITORING LABORATORY
BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATIONS
P. O. Box 477 Hillsboro, TX 76645 Office (254) 582-2622 Fax (254) 582-0380 Mobile (254) 582-1614

## 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	m <sub>2</sub> /k;			2:1 (v/v w/s) S.U.	2:1 (w/v w/s)
Week Of	m <sub>s</sub> /k <sub>s</sub>	mg/kg		mg/kg	mp/k:		ds/m - mmhos/cm
2/21/24	207 ✓	1420	2010	1980	34.7	7.1.✓	<10.0
AVERAGES:							

			Irrigatio	n Field: 6" -	18"		
			SUBO	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
							Name of the state
AVERAGES:	<del>                                     </del>		<del>                                     </del>				

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATIONS
P. O. Box 477 Hillsboro, TX 76645 Office (254) 582-2622 Fax (254) 582-0380 Mobile (254) 582-1614

# City of Panhandle WTP - Analytical Summary Sheet



## January 2025

			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) S.U.	2.1 (w/v w/s) ds/m - mmhos/ci
1/7/25	261	869	1190	1090	99.4	8.1	1200
AVEDACES							
AVERAGES:	<del>  -</del>			<del>  -</del>			

	to desire mines			n Field: 6" -	18"		
Dete	Plant Available	Plant Available Potassium	Total Nitrogen	Total Kjeldahl Nitrogen	Nitrate as N	рН	Conductivit
Date	Phosphorus Mehlich III - ICP	Mehlich III - ICP	Total Nitrogen	Nuogen	INITIALE AS IN	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/c
1/7/25	276	856	1150	1070	79.0	8.0	1290
AVERAGES:	<b>†</b>		<b>†</b> –				

			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:	-		<b> </b>				

#### **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:** <a href="mailto:tcoffee@cityofpanhandle.com">tcoffee@cityofpanhandle.com</a>

Cc: Paul Krueger < <a href="mailto:PKrueger@Parkhill.com">PKrueger@Parkhill.com</a>>

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: <a href="mailto:tcoffee@cityofpanhandle.com">tcoffee@cityofpanhandle.com</a>

Cc: <a href="mailto:pkrueger@parkhill.com">pkrueger@parkhill.com</a>

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 10<sup>th</sup> 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.	<b>)</b>		
				ted with the re					ther		***************************************	
2. Customer	Reference	Number (if i	issued)	1 '	Follow this l		<u> </u>	3. Re	gulated Entity	Reference	Number (if	issued)
CN 6006472	234				for CN or RN Central R			RN 1	.02976131		***************************************	
SECTIO	N II:	Custor	mer	 Inform	nation	1	L					
4. General Cı							r Informa	tion	Updates (mm/c	ld (many)		
									opulates (many)	.ω, γγγγ,		
☐ New Custo		(Verifiable wit		pdate to Custor cas Secretary of					ge in Regulated Accounts)	Entity Own	ership	
The Custome (SOS) or Texa					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	<b>[ax ID</b> (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?
<b>⊠</b> 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)		
16. Country Mailing Information (if outside USA)									inanhandle com	/		····

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

18. Telephone Number			19. Extension or Code		20. Fax Number (if applicable)				
( 806 ) 336-9945						(	) -		
SECTION III:	Regul	ated Ent	tity Infor	mation					
21. General Regulated En	itity Informa	ation (If 'New Re	gulated Entity" is sel	ected, a new p	ermit applica	tion is a	also required.)	······································	
New Regulated Entity	Update to	Regulated Entity	Name 🛭 Update	e to Regulated	Entity Inform	ation			
The Regulated Entity Nar as Inc, LP, or LLC).	me submitte	ed may be upda	ited, in order to m	eet TCEQ Co	re Data Stai	ndards	(removal of o	rganization	al endings such
22. Regulated Entity Nam	n <b>e</b> (Enter nam	ne of the site whe	re the regulated acti	on is taking pla	ice.)				
City of Panhandle Wastewate	er Treatment	Plant	· · · · · · · · · · · · · · · · · · ·					With commence of the particular section of t	
23. Street Address of the Regulated Entity:									
(No PO Boxes)			····		<del></del>				-
	City		State	***************************************	ZIP			ZIP+4	
24. County	Carson								
		If no Stre	et Address is prov	ided, fields 2	25-28 are re	quired	•		
25. Description to	25006								
Physical Location:	2,500 feet e	east of the interes	ction of U.S. Highwa	y 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						<b>State</b>		Nea 7906	
-	equired and es where no	l may be added ne have been p	/updated to meet	TCEQ Core L	Pata Standa	TX	······································	7906	8
Panhandle  Latitude/Longitude are re	es where no	may be added ne have been p 35.3481	/updated to meet provided or to gain	accuracy).	Data Standa	TX ords. (G	eocoding of th	7906	8
Panhandle  Latitude/Longitude are re used to supply coordinate	es where no	ne have been p	/updated to meet provided or to gain Seconds	accuracy).	ongitude (V	TX ords. (G	eocoding of th	7906	8
Panhandle  Latitude/Longitude are re used to supply coordinate  27. Latitude (N) In Decima	al: Minutes	ne have been p	provided or to gair	28. L	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	35.3481	Seconds	28. L	ongitude (V es 101	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. L	ongitude (V es 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. L Degre	ongitude (V es 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 digi	ongitude (V 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 digi	ongitude (V 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 digi	ongitude (V 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 ligits)	Seconds 53 Code	28. L Degre  31. Primar (5 or 6 digi	ongitude (V 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 ligits)	Seconds 53 Code	28. L Degre  31. Primar (5 or 6 digi	ongitude (V 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 ligits)  this entity? (D.	Seconds  53  Code  State	28. L Degree 31. Primar (5 or 6 digital 221320  or NAICS description of the second sec	ongitude (V	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 ligits)  this entity? (D. 1999)  Panhandle	Seconds  53  Code  State	28. L Degree 31. Primar (5 or 6 digital section of NAICS description of TX	ongitude (Vices 101  Ty NAICS Co ts)  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

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

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 $3^{-1}$	_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 BOD<sub>5</sub>. 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.

 From:
 Paul Krueger

 To:
 Sara Holmes

 Cc:
 Kyra Heinisch

Subject: RE: CITY OF PANHANDLE, PERMIT NO. WQ0010359001, APPLICATION FOR A RENEWAL

 Date:
 Tuesday, August 19, 2025 4:44:28 PM

 Attachments:
 TCEO\_NOD\_W00010359001.pdf

Hi Sara,

Please see the attached response for the City of Panhandle WWTP permit renewal application.

Thank you,

#### Paul Krueger, PE

Civil Engineer

#### **Parkhill**

806.473.3715 | Parkhill.com

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

**Sent:** Thursday, August 14, 2025 10:30 AM **To:** Paul Krueger < PKrueger@Parkhill.com> **Cc:** Kyra Heinisch < kheinisch@parkhill.com>

Subject: RE: CITY OF PANHANDLE, PERMIT NO. WQ0010359001, APPLICATION FOR A RENEWAL

Good morning,

Thank you for the update.

Thank you, Sara Holmes

From: Paul Krueger < <a href="mailto:PKrueger@Parkhill.com">PKrueger@Parkhill.com</a> Sent: Thursday, August 14, 2025 10:18 AM To: Sara Holmes <a href="mailto:Sara.Holmes@tceq.texas.gov">Sara.Holmes@tceq.texas.gov</a>

**Cc:** Kyra Heinisch < <a href="mailto:kheinisch@parkhill.com">kheinisch@parkhill.com</a>>

Subject: RE: CITY OF PANHANDLE, PERMIT NO. WQ0010359001, APPLICATION FOR A RENEWAL

Good morning,

I wanted to let you know we are waiting on confirmation from the City on their cropping plan. Once that is received I will let you know.

Thank you,

#### Paul Krueger, PE

Civil Engineer

#### **Parkhill**

806.473.3715 | Parkhill.com

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

**Sent:** Friday, August 8, 2025 11:21 AM **To:** Paul Krueger < <u>PKrueger@Parkhill.com</u>>

Subject: RE: CITY OF PANHANDLE, PERMIT NO. WQ0010359001, APPLICATION FOR A RENEWAL

Good morning Mr. Krueger,

I just wanted to follow up on this email below. I am wrapping up my review and just wanted to get a couple of clarifications about which crops are being utilized and the nitrate levels in the soil. At your earliest convenience, please let me know which crops I should continue to use in the permit and how the nitrate levels in the soil are being managed.

Thank you,

Sara Holmes
Natural Resource Specialist III
Water Quality Assessment Team
12100 Park 35 Circle
Austin, TX 78753
512-239-4534

**From:** Andrew Gorton < <u>Andrew.Gorton@Tceq.Texas.Gov</u>>

Sent: Tuesday, July 15, 2025 10:45 AM
To: Paul Krueger < pkrueger@parkhill.com >
Cc: Sara Holmes < Sara.Holmes@tceq.texas.gov >

Subject: CITY OF PANHANDLE, PERMIT NO. WQ0010359001, APPLICATION FOR A RENEWAL

Good morning Mr. Krueger,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies

(attached) that must be addressed before the WQA Team can continue with the technical review. The

deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the

commission regarding whether this permit should be issued. Based on the information provided in the

application, the executive director does not have sufficient information to make a recommendation.

# Therefore, you must send updated technically complete and accurate information within

14 days (July 29, 2025) of the date of this email.

Any revisions can be sent electronically to me (WQA Team Geologist) or to Ms. Sara Holmes (WQA

Team Agronomist). If you have any questions, please feel free to contact me or Sara (email is preferred).

Thank you,

-Andy

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





Ms. Sara Holmes
Applications Review and Processing Team (MC150)
Water Quality Division
Texas Commission of Environmental Quality
P.O. Box 13087
Austin, TX 78711-3087

Re: Application to Renew Permit No.: WQ0010359001

Applicant Name: City of Panhandle (CN600647234)

Site Name: City of Panhandle Wastewater Treatment Plant (RN102976131)

Type of Application: Renewal

Dear Ms. Sara Holmes:

We have received the Notice of Deficiency letter on the above referenced application in your e-mail dated August 8, 2025, and provide the following response.

1. Comment: Domestic Worksheet 3.0, Section 5. Annual Cropping Plan – The cropping plan mentions alfalfa as one of the main crops grown on the site but is not mentioned in the current permit. If cotton is also utilized as the permit suggests, please include this in the necessary pages of Worksheet 3.0 and the cropping plan.

Response: The cropping plan has been updated to no longer include alfalfa as a crop. Please see Attachment 1 for the updated cropping plan.

2. Comment: The 2025 soil analyses indicate elevated levels of nitrate in the top 18 inches of soil. Please provide additional details on how these conditions will be mitigated so as to prevent nutrient build-up in the soil during times of land application.

Response: We plan to rotate crops year-round to increase nutrient uptake.

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** 

Paul Krueger, PE Civil Engineer

PSK/keh/al

Enclosures: Attachment 1: Annual Cropping Plan

Attachment 1: Annual Cropping Plan

### Appendix H Annual Cropping Plan – Wheat, Corn, Cotton, and Grain Sorghum

- A. See Attached Soil Map
- B. Corn, Cotton, and Grain Sorghum are 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 (lb/ac-yr)	Phosphorus (lb/ac-yr)	Potassium (lb/ac-yr)
Corn	148	80	59
Cotton	63	25	31
Sorghum (grain)	92	42	21
Wheat	143	20	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, cotton and wheat are relatively salt tolerant with an electrical conductivity of 6.0-8.0 millimhos/cm @  $25^{\circ}$  Celsius. Sorghum (grain) is moderately salt tolerant with an electrical conductivity of 4.0-6.0 millimhos/cm @  $25^{\circ}$  Celsius. Corn (field) is relatively non-salt tolerant with an electrical conductivity of 2.0-4.0 millimhos/cm @  $25^{\circ}$  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



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

This is a renewal of Permit No. WQ0010359001 issued on December 29, 2015.

#### PERMIT TO DISCHARGE WASTES

under provisions of Chapter 26 of the Texas Water Code

City of Panhandle

whose mailing address is

P.O. Box 129 Panhandle, Texas 79068

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 4952.

General Description and Location of Waste Disposal System:

Description: The City of Panhandle Wastewater Treatment Facility consists of a facultative pond system. Treatment units include a bar screen, one lift station, and one facultative lagoon and one irrigation holding pond with a total surface area of 8 acres and volume of 56 acre-feet. The facility includes a playa lake basin with a total volume of 511.6 acre-feet for storage of treated effluent prior to irrigation. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.280 million gallons per day (MGD) via surface irrigation of 75 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.19 acre-feet per year per acre irrigated. The irrigated crops include Corn, Cotton, Sorghum (grain), and wheat.

Location: The wastewater treatment facility and disposal site are located approximately 2,500 feet east of the intersection of U.S. Highway 60 and State Highway 293, in Carson County, Texas 79068. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of North Fork Red River in Segment No. 0224 of the Red River Basin. No discharge of pollutants into water in the state is authorized by this permit.

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

ISSUED DATE:	
	For the Commission

#### EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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

#### A. <u>Effluent Limitations</u>

**Character:** Treated Domestic Sewage Effluent

<u>Volume</u>: Daily Average Flow – 0.280 MGD from the treatment system

Quality: The following effluent limitations are required:

	Effluent Concentrations	
	(Not to Exceed)	
	Daily	Single
<u>Parameter</u>	<u>Average</u>	<u>Grab</u>
	mg/l	mg/l
Biochemical Oxygen Demand (5-day)	N/A	100

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

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

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Five/week	Instantaneous
Biochemical Oxygen	One/month	Grab
Demand (5-day)		
pН	One/month	Grab

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

#### STANDARD PERMIT CONDITIONS

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

#### **DEFINITIONS**

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

#### 1. Flow Measurements

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

#### 2. Concentration Measurements

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

#### 3. Sample Type

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

#### MONITORING REQUIREMENTS

#### 1. Monitoring Requirements

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

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

#### 2. Test Procedures

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

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

#### 3. Records of Results

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

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

#### 4. Additional Monitoring by Permittee

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

#### 5. Calibration of Instruments

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

#### 6. Compliance Schedule Reports

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

#### 7. Noncompliance Notification

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

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

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

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

#### 10. Signatories to Reports

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

#### PERMIT CONDITIONS

#### 1. General

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

#### 2. Compliance

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

#### 3. Inspections and Entry

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

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

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

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

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

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

#### 5. Permit Transfer

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

#### 6. Relationship to Hazardous Waste Activities

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

#### 7. Property Rights

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

#### 8. Permit Enforceability

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

#### 9. Relationship to Permit Application

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

#### 10. Notice of Bankruptcy.

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

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

#### **OPERATIONAL REQUIREMENTS**

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

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

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

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

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

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

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

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

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

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

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#### **SLUDGE PROVISIONS**

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

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

#### A. General Requirements

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

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

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

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

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

TABLE 1

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

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

#### 3. Pathogen Control

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

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

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

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of must be treated in one of the Processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part

503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion; or

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

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

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

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

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

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

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

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

#### Alternative 1

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

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

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

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of

the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

#### 4. Vector Attraction Reduction Requirements

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

- <u>Alternative 1</u> The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 8 The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids

prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

#### Alternative 9 -

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

#### Alternative 10-

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

#### **C.** Monitoring Requirements

Toxicity Characteristic Leaching Procedure - prior to sludge disposal

(TCLP) Test

PCBs - prior to sludge disposal

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

Amount of biosolids (\*)

metric tons per 365-day period Monitoring Frequency

o to less than 290 Once/Year

290 to less than 1,500 Once/Quarter

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

15,000 or greater Once/Month

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

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

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

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

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

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

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

#### A. Pollutant Limits

#### Table 2

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

#### Table 3

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

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

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

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

#### **C.** Management Practices

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

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

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
  - a. The location, by street address, and specific latitude and longitude, of each land application site.
  - b. The approximate time period bulk biosolids will be applied to the site.
  - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

#### E. Record Keeping Requirements

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met.
- 5. The following certification statement:
  - "I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC § 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC § 312.83(b) have been met for each site on which bulk biosolids are applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
  - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge or biosolids treatment activities.
  - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
  - c. The number of acres in each site on which bulk sludge or biosolids are applied.
  - d. The date and time sludge or biosolids are applied to each site.
  - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
  - f. The total amount of sludge applied to each site in dry tons.

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

#### F. Reporting Requirements

The permittee shall report annually report to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224) by September 30<sup>th</sup> of each year the following information:

- 1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
- 2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
- 3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
- 4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
- 5. Toxicity Characteristic Leaching Procedure (TCLP) results.
- 6. PCB concentration in sludge or biosolids in mg/kg.
- 7. Identity of hauler(s) and TCEQ transporter number.
- 8. Date(s) of transport.
- 9. Texas Commission on Environmental Quality registration number, if applicable.
- 10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
- 11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.
- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment

activities, shall be attached to the annual reporting form.

- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
  - a. The location, by street address, and specific latitude and longitude.
  - b. The number of acres in each site on which bulk biosolids are applied.
  - c. The date and time bulk biosolids are applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
  - e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

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

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

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

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

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

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

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

## F. Reporting Requirements

The permittee shall report annually report to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224) by September 30<sup>th</sup> of each year the following information:

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

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

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

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

# A. General Requirements

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

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

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

## C. Reporting Requirements

The permittee shall report annually report to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224) by September 30<sup>th</sup> of each year the following information:

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

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#### **SPECIAL PROVISIONS:**

- 1. This permit is granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.
- 2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.
  - This Category D facility must be operated by a chief operator or an operator holding a Class D license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.
- 3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
- 4. Irrigation practices shall be designed and managed so as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, the corn, cotton, sorghum, and wheat, and other ground cover shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
- 5. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
- 6. The irrigated crops include corn, cotton, sorghum, and wheat. Application rates to irrigated land shall not exceed 4.19 acre-feet per year per acre irrigated. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the TCEQ and shall be maintained for at least three years.

- 7. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems.
- 8. The permittee shall obtain representative soil samples from the root zones of the land application area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 75 acres, with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 inches to 18 inches, and 18 inches to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

The permittee shall provide annual soil analyses of the land application area according to the following table:

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

The permittee shall provide a copy of this plan to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with

copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224) no later than end of September following the sampling date of each year. If wastewater and/or sludge is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater and/or sludge has not been applied on the approved land disposal sites during that year.

- 9. The permittee shall maintain a long term contract with the owner(s) of the land application site which is authorized for use in this permit, or own the land authorized for land application of treated effluent.
- 10. For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
- 11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 12. Irrigation with effluent shall be accomplished only when the area specified is not in use.
- 13. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
- 14. **For the existing wastewater ponds:** Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of pond lining are acceptable.
  - a. In-situ clay soils or placed and compacted clay soils meeting the following requirements:
    - 1) More than 30% passing a No. 200 mesh sieve
    - 2) Liquid limit greater than 30%
    - 3) Plasticity index greater than 15
  - b. Membrane lining with a minimum thickness of 20 mils, and an underdrain leak detection system.
  - c. An alternate method of pond lining may be utilized with prior approval from the Executive Director.

Within 60 days from the issuance of this permit, the permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above prior to utilization of the facilities. The certification shall be sent to the TCEQ Regional Office (MC Region 1), the Water Quality Assessment Team (MC-150), and the TCEQ Enforcement Division (MC-224).

15. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a

minimum horizontal distance of 250 ft from a private well and a minimum horizontal distance of 500 ft from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.

- 16. The existing wastewater ponds shall be maintained and operated in a manner that prevents unauthorized discharge to water in the state and contamination of groundwater.
- 17. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the Permittee shall inspect the sides and bottom (if visible) of all wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed. A record of the monthly inspections shall be maintained in a field log and kept onsite for TCEQ inspection.
- 18. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203 and 30 TAC 309.13(d) since the facility overlies the recharge zone of an aquifer. The Permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC Region 1), and the TCEQ Enforcement Division (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texas-licensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203 and 30 TAC §309.13(d) since the facility is located on the recharge zone of an aquifer.
- 19. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ personnel for inspection and review.
- 20. The permittee shall comply with the requirements of 30 TAC Section 309.13 (a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC Section 309.13(e).
- 21. The permittee shall continue to initiate the groundwater monitoring of the groundwater monitoring plan. Groundwater shall be analyzed from each monitoring well according to the schedule below:

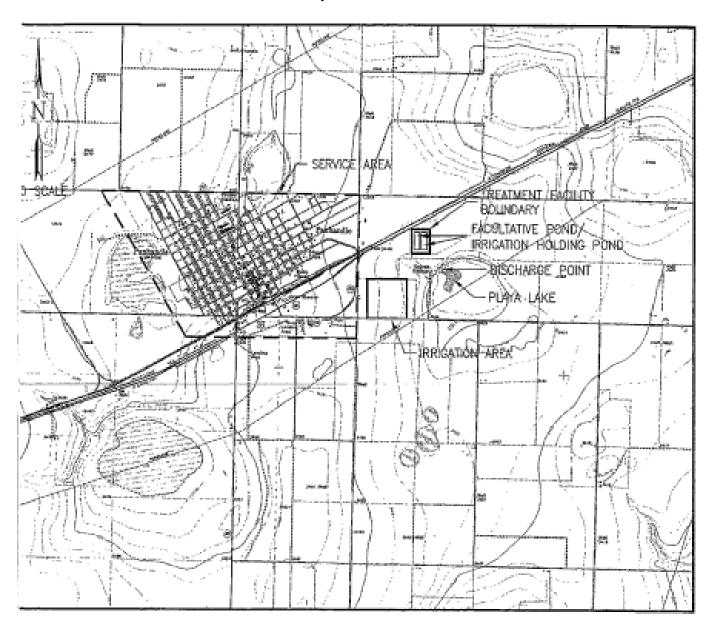
Parameter	Units	Sampling Frequency
Water Level	feet (*)	One/6-months
Total Nitrogen	mg/l	One/6-months
Nitrate Nitrogen	mg/l	One/6-months
Ammonia Nitrogen	mg/l	One/6-months
Phosphorus	mg/l	One/6-months
Total Dissolved Solids	mg/l	One/6-months
Fecal Coliform	colonies 100/ml	One/6-months

(\*) below ground level

The results of the groundwater analyses shall be submitted to the TCEQ Regional Office (MC Region 1), Water Quality Compliance Monitoring Team (MC 224) of the Enforcement

- Division, and the Water Quality Assessment Team (MC-150) during the month of September of each year.
- 22. Public access to the playa shall be limited by fencing and/or "no trespassing" sign in both English and Spanish.
- 23. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.
- 24. The permittee shall use cultural practices to promote and maintain the health and propagation of the corn, cotton, sorghum, and wheat and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least twice during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.

# Attachment A - Site Drawing TCEQ Permit No. WQ0010359001 City of Panhandle



# TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

#### DESCRIPTION OF APPLICATION

Applicant: City of Panhandle

TCEQ Permit No. WQ0010359001

Regulated Activity: Domestic Wastewater Permit

Type of Application: Renewal

Request: Renewal with no changes

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

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

Commission policies.

#### EXECUTIVE DIRECTOR RECOMMENDATION

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

#### REASON FOR PROJECT PROPOSED

City of Panhandle has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0010359001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.280 million gallons per day (MGD) via surface irrigation of 75 acres of non-public access agricultural land. The facility includes a storage pond and a faculative lagoon with a total surface area of 8 acres and total capacity of 56 acre-feet for storage of treated effluent prior to irrigation. The facility includes a playa lake basin with a total volume of 511.6 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the City of Panhandle.

#### PROJECT DESCRIPTION AND LOCATION

The City of Panhandle Wastewater Treatment Facility consists of a facultative pond system. Treatment units include a bar screen, one lift station, and one facultative lagoon and one irrigation holding pond with a surface area of 8 acres and volume of 56 acre-feet. The facility includes a playa lake basin with a total volume of 511.6 acre-feet for storage of treated effluent prior to irrigation. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, City of Panhandle Muncipial Solid Waste Landfill, MSW Permit No. 1164, in Carson County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

City of Panhandle

Permit No. WQ0010359001

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

The wastewater treatment facility and disposal site are located approximately 2,500 feet east of the intersection of U.S. Highway 60 and State Highway 293, in Carson County, Texas 79068.

The wastewater treatment facility and disposal site are located in the drainage basin of North Fork Red River in Segment No. 0224 of the Red River Basin. No discharge of pollutants into water in the state is authorized by this permit.

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

The following is a summary of the applicant's effluent monitoring data for the period January 2023 through April 2024. The average of Daily Average value is computed by averaging of all 30-day average values for the reporting period for each parameter: flow, and five-day biochemical oxygen demand ( $BOD_5$ ).

<u>Parameter</u> <u>Average of Daily Average</u>

Flow, MGD 0.134  $BOD_5$ , mg/l 40

#### DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.280 MGD via surface irrigation of 75 acres of non-public access agricultural land. The facility includes a storage pond with a total surface area of 8 acres and total capacity of 56 acre-feet for storage of treated effluent prior to irrigation. The facility includes a playa lake basin with a total volume of 511.6 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 4.19 acre-feet per year per acre irrigated. The irrigated crops include Corn, Cotton, Sorghum (grain), and wheat.

The effluent limitation in the draft permit, based on a single grab, is 100 mg/l biochemical oxygen demand ( $BOD_5$ ).

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, City of Panhandle Muncipial Solid Waste Landfill, Permit No. MSW1164, in Carson County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

#### **SUMMARY OF CHANGES FROM APPLICATION**

None.

#### SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit effluent limitations and monitoring requirements. The Sludge Provisions, Special Provisions, and Standard Provisions have been revised in the draft permit.

Special Provisions Nos. 4, 6, 10, and 14 have been updated from the existing permit.

City of Panhandle Permit No. WQ0010359001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

Special Provisions Nos. 15, 16, 17, 18, 19, 23, and 24 have been added to the draft permit.

The irrigated crops included in the existing permit have been updated in the draft permit to include corn, cotton, sorghum, and wheat.

The zip-code for the facility has been updated from the existing from 79027 to 79068.

The combined total surface area for both the facultative lagoon and the irrigation holding pond have been increased from 48 acre-feet to 56 acre-feet from the existing permit due to a prior permitting error.

Certain accidental discharges or spills of treated or untreated wastewater from wastewater treatment facilities or collection systems owned or operated by a local government may be reported on a monthly basis in accordance with 30 TAC § 305.132.

The draft permit includes all updates based on the 30 TAC 312 rule change effective April 23, 2020.

#### BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

- 1. Application received on July 7, 2025, and additional information received on July 30, 2025, September 9, 2025 and September 11, 2025.
- 2. Existing TCEQ permit: Permit No. WQ0010359001 issued on December 29, 2015.
- 3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

#### PROCEDURES FOR FINAL DECISION

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

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

City of Panhandle Permit No. WQ0010359001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

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

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

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

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

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For additional information about this a	pplication, co	ntact Garrison Layne at (512) 239-0849.	
Garrison Layne		Date	
Domestic Permits Team			
Domestic Wastewater Section (MC 148	3)		