



Technical Package Cover Page

This file contains the following documents:

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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.

CITY OF LAMESA (CN600632400) operates CITY OF LAMESA WWTP RN101918977. an ACTIVATED SLUDGE PLANT. The facility is located approximately 2,600 feet east-northeast of the intersection of CR 20 and SH 137.

Discharges from the facility are expected to contain TSS, 5 DAY CBOD, AMMONIA NITROGEN,ESCHERICHIA E COLI ..TREATED EFFLUENT is treated by ACTIVATED SLUDGE PROCESS PLANT. WHICH INCLUDES A PLANT SCREEN, ARIATION BASIN, FINAL CLARAFIERS, BELT FILTER PRESS, UV SYSTEM, AND CASCADE

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0010107001

APPLICATION. City of Lamesa, 601 South 1st Street, Lamesa, Texas 79331, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010107001 (EPA I.D. No. TX0129011) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located approximately 2,600 feet east-northeast of the intersection of County Road 20 and State Highway 137, near the city of Lamesa, in Dawson County, Texas 79331. The discharge route is from the plant site via pipe to Sulphur Springs Draw; thence to Natural Dam Lake; thence to Sulphur Springs Draw; thence to Beals Creek; thence to the Colorado River Below Lake J.B. Thomas. TCEQ received this application on June 3, 2024. The permit application will be available for viewing and copying at Lamesa City Hall, 601 South 1st Street, Lamesa, in Dawson County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.
<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.946111,32.711944&level=18>

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

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

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

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

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

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

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

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

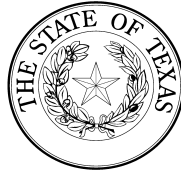
INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Lamesa at the address stated above or by calling Mr. Ernest Ojeda, Utility Director, at 806-201-0243.

Issuance Date: June 26, 2024

Texas Commission on Environmental Quality



NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR MUNICIPAL WASTEWATER

RENEWAL

PERMIT NO. WQ0010107001

APPLICATION AND PRELIMINARY DECISION. City of Lamesa, 601 South 1st Street, Lamesa, Texas 79331, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010107001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,000,000 gallons per day. TCEQ received this application on June 3, 2024.

The facility is located approximately 2,600 feet east-northeast of the intersection of County Road 20 and State Highway 137, in Dawson County, Texas 79331. The treated effluent is discharged via pipe to Sulphur Springs Draw, thence to Natural Dam Lake, thence to Sulphur Springs Draw, thence to Beals Creek, thence to the Colorado River Below Lake J.B. Thomas in Segment No. 1412 of the Colorado River Basin. The unclassified receiving water use is minimal aquatic life use for Sulphur Springs Draw. The designated uses for Segment No. 1412 are primary contact recreation and high aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.946111,32.711944&level=18>

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Lamesa City Hall, 601 South 1st Street, Lamesa, in Dawson County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/tpdes-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 www.tceq.texas.gov/goto/comment 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 www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, 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 www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from City of Lamesa at the address stated above or by calling Mr. Ernest Ojeda, Utility Director, at 806-201-0243.

Issuance Date: October 14, 2025



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Lamesa

PERMIT NUMBER (If new, leave blank): WQ00 10107001

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

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

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number:

Check/Money Order Amount:

Name Printed on Check:

EPAY Voucher Number:

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

- ☒ Publicly-Owned Domestic Wastewater
- ☐ Privately-Owned Domestic Wastewater
- ☐ Conventional Wastewater Treatment

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

- ☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: [Click to enter text.](#)

f. For existing permits:

Permit Number: WQ00 10107001

EPA I.D. (TPDES only): TX 0129011

Expiration Date: 12/06/2024

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

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

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

City of Lamesa

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

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

CN: 600632400

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

Prefix: Mr.

Last Name, First Name: Stevens, Josh

Title: Mayor

Credential: [Click to enter text.](#)

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

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

N/A

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

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

CN: Click to enter text.

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

Prefix: Click to enter text.

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

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

C. Core Data Form

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

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: Ojeda, Ernest
Title: Utility Director Credential: Click to enter text.
Organization Name: City of Lamesa
Mailing Address: 601 S. 1st Street City, State, Zip Code: Lamesa, TX 79331
Phone No.: 806.201.0243 E-mail Address: directorofutilities@ci.lamesa.tx.us
Check one or both: ☒ Administrative Contact ☒ Technical Contact
- B. Prefix: Mr. Last Name, First Name: Krueger, Paul
Title: Civil Engineer Credential: P.E.
Organization Name: Parkhill
Mailing Address: 4222 85th Street City, State, Zip Code: Lubbock, TX, 79423
Phone No.: 806.473.2200 E-mail Address: pkrueger@parkhill.com
Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

- A. Prefix: Mr. Last Name, First Name: Ojeda, Ernest
Title: Utilities Director Credential: Click to enter text.
Organization Name: City of Lamesa
Mailing Address: 601 S. 1st Street City, State, Zip Code: Lamesa, TX, 79331
Phone No.: 806.201.0243 E-mail Address: directorofutilities@ci.lamesa.tx.us

B. Prefix: Mr. Last Name, First Name: Krueger, Paul
Title: Civil Engineer Credential: P.E.
Organization Name: Parkhill
Mailing Address: 4222 85th Street City, State, Zip Code: Lubbock, TX, 79423
Phone No.: 806.473.2200 E-mail Address: pkrueger@parkhill.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Hines, Joe
Title: City Manager Credential: Click to enter text.
Organization Name: City of Lamesa
Mailing Address: 601 1st Street City, State, Zip Code: Lamesa, TX, 79331
Phone No.: 806.872.2124 E-mail Address: jhines@ci.lamesa.tx.us

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: Ojeda, Ernest
Title: Utilities Director Credential: Click to enter text.
Organization Name: City of Lamesa
Mailing Address: 601 S. 1st Street City, State, Zip Code: Lamesa, TX, 79331
Phone No.: 806.201.0243 E-mail Address: directorofutilities@ci.lamesa.tx.us

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Krueger, Paul
Title: Civil Engineer Credential: P.E.
Organization Name: Parkhill
Mailing Address: 4222 85th Street City, State, Zip Code: Lubbock, TX, 79423
Phone No.: 806.473.2200 E-mail Address: pkrueger@parkhill.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr.

Last Name, First Name: Ojeda, Ernest

Title: Utilities Director

Credential: Click to enter text.

Organization Name: City of Lamesa

Mailing Address: 601 S. 1st Street

City, State, Zip Code: Lamesa, TX, 79331

Phone No.: 806.201.0243

E-mail Address: directorofutilities@ci.lamesa.tx.us

D. Public Viewing Information

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

Public building name: City Hall

Location within the building: City Managers Office

Physical Address of Building: 601 S. 1st Street

City: Lamesa

County: Dawson

Contact (Last Name, First Name): Joe Hines

Phone No.: 806.872.2124 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

☐ Yes ☒ No

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

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

F. Plain Language Summary Template

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

Attachment: [Appendix B](#)

G. Public Involvement Plan Form

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

Attachment: [N/A - Renewal](#)

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN [101918977](#)

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

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

[City of Lamesa Wastewater Treatment Plant](#)

C. Owner of treatment facility: [City of Lamesa](#)

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

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

Prefix: [N/A](#)

Last Name, First Name: [Click to enter text.](#)

Title: [Click to enter text.](#)

Credential: [Click to enter text.](#)

Organization Name: [City of Lamesa](#)

Mailing Address: [601 S 1st Street](#)

City, State, Zip Code: [Lamesa, TX, 79331](#)

Phone No.: [806.872.2124](#)

E-mail Address: jhines@ci.lamesa.tx.us

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

Attachment: [N/A](#)

E. Owner of effluent disposal site:

Prefix: N/A

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

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

Attachment: Click to enter text.

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

Prefix: N/A

Last Name, First Name: Click to enter text.

Title: Click to enter text.

Credential: Click to enter text.

Organization Name: Click to enter text.

Mailing Address: Click to enter text.

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

Phone No.: Click to enter text.

E-mail Address: Click to enter text.

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): Lamesa

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

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

☐ Yes ☒ No

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

- ☐ Authorization granted ☐ Authorization pending

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

Attachment: N/A

- 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: N/A

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

N/A

- B. City nearest the disposal site: [Click to enter text.](#)

- C. County in which the disposal site is located: [Click to enter text.](#)

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

- E. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: [Click to enter text.](#)

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

Section 13. Attachments (Instructions Page 33)

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

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

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

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

See Appendix C

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Appendix A: Core Data Sheet; Appendix B: Plain Language Summary; Appendix D: SPIF Form

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010107001

Applicant: City of Lamesa

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): Josh Stevens

Signatory title: Lamesa

Signature: _____ Date: _____

(Use blue ink)

Subscribed and Sworn to before me 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

N/A - Renewal

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☐ The applicant's property boundaries
 - ☐ The facility site boundaries within the applicant's property boundaries
 - ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☐ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☐ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive
 - ☐ Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: [Click to enter text.](#)
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes
 - ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

- ☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Appendix D: SPIF Form

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No: WQ0010107001**

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 Lamesa Wastewater Treatment Plant

Physical Address of Project or Site: The treatment plant is located 1.3 miles southeast of the intersection of State Hwy 137 and Sulphur Springs Draw, southeast of Lamesa in Dawson County.

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

Driver's License or State Identification Number: [Click to enter text.](#)

Date of Birth: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#) Fax Number: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

CN: [Click to enter text.](#)

For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): [Click to enter text.](#)

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

Estimated construction start date: [Click to enter text.](#)

Estimated waste disposal start date: [Click to enter text.](#)

B. Interim II Phase

Design Flow (MGD): [Click to enter text.](#)

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

Estimated construction start date: [Click to enter text.](#)

Estimated waste disposal start date: [Click to enter text.](#)

C. Final Phase

Design Flow (MGD): 2.0

2-Hr Peak Flow (MGD): 5.5

Estimated construction start date: [Click to enter text.](#)

Estimated waste disposal start date: [Click to enter text.](#)

D. Current Operating Phase

Provide the startup date of the facility: 01/01/2009

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

The City of Lamesa Wastewater Treatment Facility is currently operating in its final phase and is an extended aeration WWTP. The plant consists of headworks with fine screening, vortex grit removal, an extended aeration basin, final clarification, UV disinfection and a belt filter for solids disposal.

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)
Screen(3mm)	1	16' x 3'
Vortex Grit Removal	1	10' x 12' Tall
Carrousel Aeration Basin (2MG)	1	180' x 115' x 16'
Final Clarifiers	2	60' x 14'
UV Disinfection	1	2' Channel, 32' Long

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 44)

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

- Latitude: 32.713573
- Longitude: -101.943213

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

- Latitude: N/A
- Longitude: N/A

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.

Attachment: Appendix F: Site Map

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

City of Lamesa

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Lamesa Collection System	City of Lamesa	Publicly Owned	8,500

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: July 2006

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

N/A

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

D. Grit and grease treatment

1. *Acceptance of grit and grease waste*

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

☐ Yes ☒ No

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

2. *Grit and grease processing*

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

Click to enter text.

3. *Grit disposal*

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. Grease and decanted liquid disposal

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

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

Click to enter text.

E. Stormwater management

1. Applicability

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☐ Yes ☒ No

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

TXR05 [Click to enter text.](#) or TXRNE [Click to enter text.](#)

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

☒ Yes ☐ No

3. Conditional exclusion

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

☐ Yes ☒ No

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

N/A

4. Existing coverage in individual permit

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

☐ Yes ☒ No

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

N/A

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.

N/A

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

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.
N/A

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the sludge, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

N/A

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.

N/A

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

Is the facility in operation?

☒ Yes ☐ No

See Appendix G

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	2.14	2.14	1	GRAB	7/18/23 @ 9:30
Total Suspended Solids, mg/l	8	8	1	GRAB	7/18/23 @ 9:30
Ammonia Nitrogen, mg/l	.0345	.0345	1	GRAB	7/18/23 @ 9:30
Nitrate Nitrogen, mg/l	.0293	.0293	1	GRAB	7/18/23 @ 9:30
Total Kjeldahl Nitrogen, mg/l	.632	.632	1	GRAB	7/18/23 @ 9:30
Sulfate, mg/l	197	197	1	GRAB	7/18/23 @ 9:30
Chloride, mg/l	391	391	1	GRAB	7/18/23 @ 9:30
Total Phosphorus, mg/l	2.97	2.97	1	GRAB	7/18/23 @ 9:30
pH, standard units	7.8	7.8	1	GRAB	7/18/23 @ 9:30
Dissolved Oxygen*, mg/l	9.65	9.65	1	GRAB	7/18/23 @ 9:30
Chlorine Residual, mg/l	.05	.05	1	GRAB	7/18/23 @ 9:30
<i>E.coli</i> (CFU/100ml) freshwater	1	1	1	GRAB	7/18/23 @ 9:30
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	1170	1170	1	GRAB	7/18/23 @ 9:30
Electrical Conductivity, μ mohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	1.57	1.57	1	GRAB	7/18/23 @ 9:30
Alkalinity (CaCO ₃)*, mg/l	1360	1360	1	GRAB	7/18/23 @ 9:30

*TPDES permits only

†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A				
Total Dissolved Solids, mg/l					
pH, standard units					
Fluoride, mg/l					
Aluminum, mg/l					
Alkalinity (CaCO ₃), mg/l					

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Dionicio Garza Jr.; Joe Hines; Manuel VasquezFacility Operator's License Classification and Level: B;B;CFacility Operator's License Number: WW0071134;WW0035602;WW0071148

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☒ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☒ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage (< 2 years)
- ☐ Long Term Storage (≥ 2 years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: [Click to enter text.](#)

C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize

all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	On-Site Owner or Operator	Bulk		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): N/A

D. Disposal site

Disposal site name: City of Lamesa MSW Landfill

TCEQ permit or registration number: RN105147581

County where disposal site is located: Dawson

E. Transportation method

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

Name of the hauler: City of Lamesa

Hauler registration number: N/A – Doesn't leave City owned land

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:
Attachment: [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:
Attachment: [Click to enter text.](#)
- Federal Emergency Management Map:
Attachment: [Click to enter text.](#)
- Site map:
Attachment: [Click to enter text.](#)

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

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

Attachment: [Click to enter text.](#)

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

[Click to enter text.](#)

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

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

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

Arsenic: [Click to enter text.](#)

Cadmium: [Click to enter text.](#)

Chromium: [Click to enter text.](#)

Copper: [Click to enter text.](#)

Lead: [Click to enter text.](#)

Mercury: [Click to enter text.](#)

Molybdenum: [Click to enter text.](#)

Nickel: [Click to enter text.](#)

Selenium: [Click to enter text.](#)

Zinc: [Click to enter text.](#)

Total PCBs: [Click to enter text.](#)

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-7} cm/sec?

☐ Yes ☐ No

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

[Click to enter text.](#)

D. Site development plan

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

[Click to enter text.](#)

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)
Attachment: [Click to enter text.](#)
- Copy of the closure plan
Attachment: [Click to enter text.](#)
- Copy of deed recordation for the site
Attachment: [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
Attachment: [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site
Attachment: [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions
Attachment: [Click to enter text.](#)

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

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

A. Additional authorizations

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

☒ Yes ☐ No

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

R10107001. Authorization for reclaimed water; type II reclaimed water is authorized to be used in accordance with 30TAC 210.32

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: [Click to enter text.](#)

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Josh Stevens

Title: Mayor

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.1

N/A - Renewal

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

[Click to enter text.](#)

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: [Click to enter text.](#)

If yes, attach correspondence from the city.

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

2. *Utility CCN areas*

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

☐ Yes ☐ No

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

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

Attachment: [Click to enter text.](#)

3. *Nearby WWTPs or collection systems*

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

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

Average Influent Organic Strength or BOD₅ Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): [Click to enter text.](#)

Provide the source of the average organic strength or BOD₅ 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 BOD ₅ Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD ₅ from all sources		

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

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

D. Disinfection Method

Identify the proposed method of disinfection.

- ☐ Chlorine: [Click to enter text.](#) mg/l after [Click to enter text.](#) minutes detention time at peak flow

Dechlorination process: [Click to enter text.](#)

- ☐ Ultraviolet Light: [Click to enter text.](#) seconds contact time at peak flow
- ☐ Other: [Click to enter text.](#)

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: [Click to enter text.](#)

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

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

- ☐ Yes ☐ No

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

[Click to enter text.](#)

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

[Click to enter text.](#)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click to enter text.](#)

B. Wind rose

Attach a wind rose: [Click to enter text.](#)

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

A. Beneficial use authorization

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

☐ Yes ☐ No

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

B. Sludge processing authorization

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

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: [Click to enter text.](#)

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

Owner of the drinking water supply: [Click to enter text.](#)

Distance and direction to the intake: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

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

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [Click to enter text.](#)

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

[Click to enter text.](#)

C. Sea grasses

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

☐ Yes ☐ No

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

[Click to enter text.](#)

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☒ No

If **yes**, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Sulphur Springs Draw

A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☒ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

- ☐ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: Click to enter text.

B. Flow characteristics

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

- ☒ Intermittent - dry for at least one week during most years
- ☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- ☐ Perennial - normally flowing

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

- ☐ USGS flow records
- ☐ Historical observation by adjacent landowners
- ☒ Personal observation
- ☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

N/A

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

N/A

E. Normal dry weather characteristics

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

Stream remains dry and only flows during wet weather

Date and time of observation: 07/18/2023

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

- | | |
|---|---|
| ☐ Oil field activities | ☒ Urban runoff |
| ☐ Upstream discharges | ☒ Agricultural runoff |
| ☐ Septic tanks | ☐ Other(s), specify: <u>Click to enter text.</u> |

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: <u>N/A</u> |

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. N/A - Renewal

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

Section 1. General Information (Instructions Page 66)

Date of study: [Click to enter text.](#) Time of study: [Click to enter text.](#)

Stream name: [Click to enter text.](#)

Location: [Click to enter text.](#)

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: [Click to enter text.](#)

Number of stream bends that are moderately defined: [Click to enter text.](#)

Number of stream bends that are poorly defined: [Click to enter text.](#)

Number of riffles: [Click to enter text.](#)

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

[Click to enter text.](#)

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: [Click to enter text.](#)

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

Length of stream evaluated, in feet: [Click to enter text.](#)

Number of lateral transects made: [Click to enter text.](#)

Average stream width, in feet: [Click to enter text.](#)

Average stream depth, in feet: [Click to enter text.](#)

Average stream velocity, in feet/second: [Click to enter text.](#)

Instantaneous stream flow, in cubic feet/second: [Click to enter text.](#)

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

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

Maximum pool depth, in feet: [Click to enter text.](#)

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

N/A - TPDES

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number: [Click to enter text.](#)

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type

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

Attachment: [Click to enter text.](#)

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

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

[Click to enter text.](#)

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

[Click to enter text.](#)

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment:** [Click to enter text.](#)

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

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

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment:** [Click to enter text.](#)

- The boundaries of the land application site(s)
- Waste disposal or treatment facility site(s)
- On-site buildings
- Buffer zones
- Effluent storage and tailwater control facilities
- All water wells within 1-mile radius of the disposal site or property boundaries
- All springs and seeps onsite and within 500 feet of the property boundaries
- All surface waters in the state onsite and within 500 feet of the property boundaries
- All faults and sinkholes onsite and within 500 feet of the property

List and cross reference all water wells located within a half-mile radius of the disposal site or property boundaries shown on the USGS map in the following table. Attach additional pages as necessary to include all of the wells.

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: [Click to enter text.](#)

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: [Click to enter text.](#)

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

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

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

Attachment: [Click to enter text.](#)

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

A. Soil map

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

Attachment: [Click to enter text.](#)

B. Soil analyses

Attach the laboratory results sheets from the soil analyses. **Note:** for renewal applications, the current annual soil analyses required by the permit are acceptable as long as the test date is less than one year prior to the submission of the application.

Attachment: [Click to enter text.](#)

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

[illegible]

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

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

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

N/A - Renewal

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

Area under irrigation, in acres: [Click to enter text.](#)

Design application frequency:

hours/day [Click to enter text.](#) And days/week [Click to enter text.](#)

Land grade (slope):

average percent (%): [Click to enter text.](#)

maximum percent (%): [Click to enter text.](#)

Design application rate in acre-feet/acre/year: [Click to enter text.](#)

Design total nitrogen loading rate, in lbs N/acre/year: [Click to enter text.](#)

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

Method of application: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

C. Evapotranspiration beds

Number of beds: [Click to enter text.](#)

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

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

Void ratio of soil in the beds: [Click to enter text.](#)

Storage volume within the beds, in acre-feet: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

D. Overland flow

Area used for application, in acres: [Click to enter text.](#)

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

Design application rate, in gpm/foot of slope width: [Click to enter text.](#)

Slope length, in feet: [Click to enter text.](#)

Design BOD₅ loading rate, in lbs BOD₅/acre/day: [Click to enter text.](#)

Design application frequency:

hours/day: [Click to enter text.](#) **And** days/week: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

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

Application area, in acres: [Click to enter text.](#)

Area of drainfield, in square feet: [Click to enter text.](#)

Application rate, in gal/square foot/day: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

Area of trench, in square feet: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

Number of beds: [Click to enter text.](#)

Dosing amount per area, in inches/day: [Click to enter text.](#)

Infiltration rate, in inches/hour: [Click to enter text.](#)

Storage volume, in gallons: [Click to enter text.](#)

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

Soil Classification: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

Section 2. Edwards Aquifer (Instructions Page 74)

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

- ☐ Yes ☐ No

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

- ☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL

(SADDS) LAND DISPOSAL OF EFFLUENT

N/A - Renewal

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

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

Section 1. Administrative Information (Instructions Page 75)

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

B. [Click to enter text.](#) Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

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

[Click to enter text.](#)

C. Owner of the subsurface area drip dispersal system: [Click to enter text.](#)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

E. Owner of the land where the subsurface area drip dispersal system is located: [Click to enter text.](#)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

A. Type of system

- ☐ Subsurface Drip Irrigation
- ☐ Surface Drip Irrigation
- ☐ Other, specify: [Click to enter text.](#)

B. Irrigation operations

Application area, in acres: [Click to enter text.](#)

Infiltration Rate, in inches/hour: [Click to enter text.](#)

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

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

Storage volume, in gallons: [Click to enter text.](#)

Major soil series: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: [Click to enter text.](#)

Nitrogen application rate, in lbs/gal/day: [Click to enter text.](#)

D. Dosing information

Number of doses per day: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

Rest period between doses, in hours: [Click to enter text.](#)

Dosing amount per area, in inches/day: [Click to enter text.](#)

Number of zones: [Click to enter text.](#)

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

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

Attachment: [Click to enter text.](#)

B. Soil evaluation

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

Attachment: [Click to enter text.](#)

C. Site preparation plan

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

Attachment: [Click to enter text.](#)

D. Soil sampling/testing

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

Attachment: [Click to enter text.](#)

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: [Click to enter text.](#)

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

A. Buffer Map

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

Attachment: [Click to enter text.](#)

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: [Click to enter text.](#)

Section 6. Edwards Aquifer (Instructions Page 76)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

See Appendix G

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☒

Composite ☐

Date and time sample(s) collected: 07/18/2023 @ 9:30

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	14.3	14.3	1	50
Aldrin	.00113	.00113	1	0.01
Aluminum	.0842	.0842	1	2.5
Anthracene	1.5	1.5	1	10
Antimony	1.05	1.05	1	5
Arsenic	5.2	5.2	1	0.5
Barium	93	93	1	3
Benzene	.46	.46	1	10
Benzidine	4.8	4.8	1	50
Benzo(a)anthracene	.173	.173	1	5
Benzo(a)pyrene	.364	.364	1	5
Bis(2-chloroethyl)ether	2.16	2.16	1	10
Bis(2-ethylhexyl)phthalate	.277	.277	1	10
Bromodichloromethane	.552	.552	1	10
Bromoform	.633	.633	1	10
Cadmium	.085	.085	1	1
Carbon Tetrachloride	.896	.896	1	2
Carbaryl	1.85	1.85	1	5
Chlordane*	.103	.103	1	0.2
Chlorobenzene	.530	.530	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	.547	.547	1	10
Chloroform	.643	.643	1	10
Chlorpyrifos	N/A	N/A	N/A	0.05
Chromium (Total)	.392	.392	1	3
Chromium (Tri) (*1)	<2	<2	1	N/A
Chromium (Hex)	2	2	1	3
Copper	5.47	5.47	1	2
Chrysene	.222	.222	1	5
p-Chloro-m-Cresol	1.57	1.57	1	10
4,6-Dinitro-o-Cresol	1.44	1.44	1	50
p-Cresol	2.62	2.62	1	10
Cyanide (*2)	2.13	2.13	1	10
4,4'- DDD	.000814	.000814	1	0.1
4,4'- DDE	.00109	.00109	1	0.1
4,4'- DDT	.00379	.00379	1	0.02
2,4-D	.0541	.0541	1	0.7
Demeton (O and S)	N/A	N/A	N/A	0.20
Diazinon	N/A	N/A	N/A	0.5/0.1
1,2-Dibromoethane	.999	.999	1	10
m-Dichlorobenzene	.513	.513	1	10
o-Dichlorobenzene	.509	.509	1	10
p-Dichlorobenzene	.513	.513	1	10
3,3'-Dichlorobenzidine	.341	.341	1	5
1,2-Dichloroethane	.59	.59	1	10
1,1-Dichloroethylene	.738	.738	1	10
Dichloromethane	1.73	1.73	1	20
1,2-Dichloropropane	.667	.667	1	10
1,3-Dichloropropene	1.27	1.27	1	10
Dicofol	.05	.05	1	1
Dieldrin	.000953	.000953	1	0.02
2,4-Dimethylphenol	.649	.649	1	10
Di-n-Butyl Phthalate	.252	.252	1	10
Diuron	.166	.166	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	.00107	.00107	1	0.01
Endosulfan II (beta)	.00122	.00122	1	0.02
Endosulfan Sulfate	.00112	.00112	1	0.1
Endrin	.00156	.00156	1	0.02
Ethylbenzene	.411	.411	1	10
Fluoride	93.1	93.1	1	500
Guthion	N/A	N/A	N/A	0.1
Heptachlor	.00446	.00446	1	0.01
Heptachlor Epoxide	.00134	.00134	1	0.01
Hexachlorobenzene	.307	.307	1	5
Hexachlorobutadiene	1.26	1.26	1	10
Hexachlorocyclohexane (alpha)	.00142	.00142	1	0.05
Hexachlorocyclohexane (beta)	.00245	.00245	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	.00299	.00299	1	0.05
Hexachlorocyclopentadiene	4.58	4.58	1	10
Hexachloroethane	.526	.526	1	20
Hexachlorophene	10	10	1	10
Lead	.537	.537	1	0.5
Malathion	N/A	N/A	N/A	0.1
Mercury	.0525	.0525	1	0.005
Methoxychlor	.0039	.0039	1	2
Methyl Ethyl Ketone	8.28	8.28	1	50
Mirex	.02	.02	1	0.02
Nickel	1.7	1.7	1	2
Nitrate-Nitrogen	20.8	20.8	1	100
Nitrobenzene	1.66	1.66	1	10
N-Nitrosodiethylamine	2.02	2.02	1	20
N-Nitroso-di-n-Butylamine	1.49	1.49	1	20
Nonylphenol	N/A	N/A	N/A	333
Parathion (ethyl)	N/A	N/A	N/A	0.1
Pentachlorobenzene	1.07	1.07	1	20
Pentachlorophenol	.234	.234	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	1.42	1.42	1	10
Polychlorinated Biphenyls (PCB's) (*3)	.1	.1	1	0.2
Pyridine	2.64	2.64	1	20
Selenium	.685	.685	1	5
Silver	.118	.118	1	0.5
1,2,4,5-Tetrachlorobenzene	1.32	1.32	1	20
1,1,2,2-Tetrachloroethane	.47	.47	1	10
Tetrachloroethylene	.801	.801	1	10
Thallium	.096	.096	1	0.5
Toluene	.475	.475	1	10
Toxaphene	.0769	.0769	1	0.3
2,4,5-TP (Silvex)	.0424	.0424	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	1.69	1.69	1	10
1,1,2-Trichloroethane	.511	.511	1	10
Trichloroethylene	.791	.791	1	10
2,4,5-Trichlorophenol	2	2	1	50
TTHM (Total Trihalomethanes)	.643	.643	1	10
Vinyl Chloride	.638	.638	1	10
Zinc	68.3	68.3	1	5

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

Date and time sample(s) collected: 07/18/2023 9:30

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	1.05	1.05	1	5
Arsenic	5.2	5.2	1	0.5
Beryllium	.148	.148	1	0.5
Cadmium	.0850	.0850	1	1
Chromium (Total)	.392	.392	1	3
Chromium (Hex)	.2	.2	1	3
Chromium (Tri) (*1)	<2	<2	1	N/A
Copper	5.47	5.47	1	2
Lead	5.37	5.37	1	0.5
Mercury	.0525	.0525	1	0.005
Nickel	1.7	1.7	1	2
Selenium	.685	.685	1	5
Silver	.118	.118	1	0.5
Thallium	.096	.096	1	0.5
Zinc	68.3	68.3	1	5
Cyanide (*2)	2.13	2.13	1	10
Phenols, Total	N/A	N/A	1	10

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

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

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	11.1	11.1	1	50
Acrylonitrile	14.3	14.3	1	50
Benzene	.460	.460	1	10
Bromoform	.633	.633	1	10
Carbon Tetrachloride	.896	.896	1	2
Chlorobenzene	.530	.530	1	10
Chlorodibromomethane	.547	.547	1	10
Chloroethane	1.98	1.98	1	50
2-Chloroethylvinyl Ether	2.52	2.52	1	10
Chloroform	.643	.643	1	10
Dichlorobromomethane [Bromodichloromethane]	1.42	1.42	1	10
1,1-Dichloroethane	.635	.635	1	10
1,2-Dichloroethane	.590	.590	1	10
1,1-Dichloroethylene	.738	.738	1	10
1,2-Dichloropropane	.667	.667	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	1.27	1.27	1	10
1,2-Trans-Dichloroethylene	.945	.945	1	10
Ethylbenzene	.411	.411	1	10
Methyl Bromide	1.42	1.42	1	50
Methyl Chloride	2.04	2.04	1	50
Methylene Chloride	1.73	1.73	1	20
1,1,2,2-Tetrachloroethane	.47	.47	1	10
Tetrachloroethylene	.801	.801	1	10
Toluene	.475	.475	1	10
1,1,1-Trichloroethane	1.69	1.69	1	10
1,1,2-Trichloroethane	.511	.511	1	10
Trichloroethylene	.791	.791	1	10
Vinyl Chloride	.638	.638	1	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	.649	.649	1	10
2,4-Dichlorophenol	.314	.314	1	10
2,4-Dimethylphenol	N/A	N/A	N/A	10
4,6-Dinitro-o-Cresol	1.44	1.44	1	50
2,4-Dinitrophenol	.499	.499	1	50
2-Nitrophenol	1.67	1.67	1	20
4-Nitrophenol	4.91	4.91	1	50
P-Chloro-m-Cresol	1.57	1.57	1	10
Pentalchlorophenol	.234	.234	1	5
Phenol	.423	.423	1	10
2,4,6-Trichlorophenol	1.42	1.42	1	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	1.39	1.39	1	10
Acenaphthylene	1.41	1.41	1	10
Anthracene	1.5	1.5	1	10
Benzidine	4.8	4.8	1	50
Benzo(a)Anthracene	.173	.173	1	5
Benzo(a)Pyrene	.364	.364	1	5
3,4-Benzofluoranthene	2.04	2.04	1	10
Benzo(ghi)Perylene	2.68	2.68	1	20
Benzo(k)Fluoranthene	.375	.376	1	5
Bis(2-Chloroethoxy)Methane	1.76	1.76	1	10
Bis(2-Chloroethyl)Ether	2.16	2.16	1	10
Bis(2-Chloroisopropyl)Ether	N/A	N/A	N/A	10
Bis(2-Ethylhexyl)Phthalate	.277	.277	1	10
4-Bromophenyl Phenyl Ether	.256	.256	1	10
Butyl benzyl Phthalate	.337	.337	1	10
2-Chloronaphthalene	.462	.462	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
4-Chlorophenyl phenyl ether	1.28	1.28	1	10
Chrysene	.222	.222	1	5
Dibenzo(a,h)Anthracene	.246	.246	1	5
1,2-(o)Dichlorobenzene	.509	.509	1	10
1,3-(m)Dichlorobenzene	.513	.513	1	10
1,4-(p)Dichlorobenzene	.513	.513	1	10
3,3-Dichlorobenzidine	.341	.341	1	5
Diethyl Phthalate	1.59	1.59	1	10
Dimethyl Phthalate	.229	.229	1	10
Di-n-Butyl Phthalate	N/A	N/A	N/A	10
2,4-Dinitrotoluene	1.31	1.31	1	10
2,6-Dinitrotoluene	1.61	1.61	1	10
Di-n-Octyl Phthalate	.373	.373	1	10
1,2-Diphenylhydrazine (as Azo- benzene)	1.49	1.49	1	20
Fluoranthene	1.59	1.59	1	10
Fluorene	1.63	1.63	1	10
Hexachlorobenzene	.307	.307	1	5
Hexachlorobutadiene	.238	.238	1	10
Hexachlorocyclo-pentadiene	4.58	4.58	1	10
Hexachloroethane	.526	.526	1	20
Indeno(1,2,3-cd)pyrene	2.29	2.29	1	5
Isophorone	1.64	1.64	1	10
Naphthalene	.542	.542	1	10
Nitrobenzene	1.66	1.66	1	10
N-Nitrosodimethylamine	2.02	2.02	1	50
N-Nitrosodi-n-Propylamine	2.88	2.88	1	20
N-Nitrosodiphenylamine	1.81	1.81	1	20
Phenanthrene	1.42	1.42	1	10
Pyrene	.178	.178	1	10
1,2,4-Trichlorobenzene	.161	.161	1	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	.00113	.00113	1	0.01
alpha-BHC (Hexachlorocyclohexane)	.00142	.00142	1	0.05
beta-BHC (Hexachlorocyclohexane)	.00389	.00389	1	0.05
gamma-BHC (Hexachlorocyclohexane)	.00299	.00299	1	0.05
delta-BHC (Hexachlorocyclohexane)	.00245	.00245	1	0.05
Chlordane	1.03	1.03	1	0.2
4,4-DDT	.00379	.00379	1	0.02
4,4-DDE	.00109	.00109	1	0.1
4,4,-DDD	.000814	.000518	1	0.1
Dieldrin	.000953	.000953	1	0.02
Endosulfan I (alpha)	.00107	.00107	1	0.01
Endosulfan II (beta)	.00122	.00122	1	0.02
Endosulfan Sulfate	.00112	.00112	1	0.1
Endrin	.00156	.00156	1	0.02
Endrin Aldehyde	.00117	.00117	1	0.1
Heptachlor	.00446	.00446	1	0.01
Heptachlor Epoxide	.00134	.00134	1	0.01
PCB-1242	.0125	.0125	1	0.2
PCB-1254	.0078	.0078	1	0.2
PCB-1221	.0125	.0125	1	0.2
PCB-1232	.0125	.0125	1	0.2
PCB-1248	.0125	.0125	1	0.2
PCB-1260	.0078	.0078	1	0.2
PCB-1016	.0125	.0125	1	0.2
Toxaphene	.0769	.0769	1	0.3

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

Section 3. Dioxin/Furan Compounds

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

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

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

N/A

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.

N/A

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic 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 instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: [Click to enter text.](#)

48-hour Acute: 20

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

N/A

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
2/19/2019	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
5/21/2019	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
8/20/2019	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
11/19/2019	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
2/18/2020	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
5/19/2020	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
8/18/2020	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
11/17/2020	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
3/30/2021	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
5/18/2021	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
8/17/2021	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
11/23/2021	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
2/15/2022	<i>Daphnia pulex</i>	100	

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
	<i>Pimephales promelas</i>		
5/18/2022	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
8/17/2022	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
11/16/2022	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
2/15/2023	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	
5/10/2023	<i>Daphnia pulex</i> <i>Pimephales promelas</i>	100	

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Significant IUs - non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

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.

N/A

C. Treatment plant pass through

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

☐ Yes ☒ No

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

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

A. Substantial modifications

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

☐ Yes ☐ No

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

N/A

B. Non-substantial modifications

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

☐ Yes ☐ No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A				

D. Industrial user interruptions

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

☐ Yes ☐ No

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

N/A

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

A. General information

Company Name: N/A – No Industrial Users

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: N/A

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☐ No

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

N/A

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 _____

N/A - TPDES

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

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

Program ID: [Click to enter text.](#)

Contact Name: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

2. Agent/Consultant Contact Information

Contact Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: [Click to enter text.](#)

Contact Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

4. Facility Contact Information

Facility Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

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

Facility Contact Person: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

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

Latitude: [Click to enter text.](#)

Longitude: [Click to enter text.](#)

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: [Click to enter text.](#)

7. **Purpose**

Detailed Description regarding purpose of Injection System:

[Click to enter text.](#)

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

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

License Number: [Click to enter text.](#)

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: [Click to enter text.](#)

System(s) Construction: [Click to enter text.](#)

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: [Click to enter text.](#)
2. Receiving Formation Name of Injection Zone: [Click to enter text.](#)
3. Well/Trench Total Depth: [Click to enter text.](#)
4. Surface Elevation: [Click to enter text.](#)
5. Depth to Ground Water: [Click to enter text.](#)
6. Injection Zone Depth: [Click to enter text.](#)
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No
Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:
Name: [Click to enter text.](#)
Thickness: [Click to enter text.](#)
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer
Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume
Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.
Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection
Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: [Click to enter text.](#)
13. Maximum injection Rate/Volume/Pressure: [Click to enter text.](#)
14. Water wells within 1/4 mile radius (attach map as Attachment I): [Click to enter text.](#)
15. Injection wells within 1/4 mile radius (attach map as Attachment J): [Click to enter text.](#)
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): [Click to enter text.](#)
17. Sampling frequency: [Click to enter text.](#)
18. Known hazardous components in injection fluid: [Click to enter text.](#)

Section 5. Site History

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

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

Class V Injection Well Designations

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

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 Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☒ Renewal (Core Data Form should be submitted with the renewal form)	☐ Other	
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600632400		RN 101918977

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)						
☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership ☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)								
<i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i>								
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>				
City of Lamesa								
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)			
11. Type of Customer:		☐ Corporation		☐ Individual	Partnership: ☐ General ☐ Limited			
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship		☐ Other:				
12. Number of Employees				13. Independently Owned and Operated?				
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher				☐ Yes ☒ No				
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following								
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other: ☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant								
15. Mailing Address:	601 S. 1 st Street							
	City	Lamesa	State	TX	ZIP	79331	ZIP + 4	
16. Country Mailing Information (if outside USA)					17. E-Mail Address (if applicable)			
					directorofutilities@ci.lamesa.tx.us			

18. Telephone Number	19. Extension or Code	20. Fax Number (if applicable)
(806) 872-2124		() - - -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
City of Lamesa Wastewater Treatment Plant								
23. Street Address of the Regulated Entity: (No PO Boxes)								
	City		State		ZIP		ZIP + 4	
24. County	Dawson							

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

25. Description to Physical Location:	Located approximately 1.3 miles southeast of the intersection of State Highway 137 and Sulphur Springs Draw, southeast of Lamesa in Dawson County							
26. Nearest City	State				Nearest ZIP Code			
Lamesa	TX				79331			
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>								
27. Latitude (N) In Decimal:		32.7119			28. Longitude (W) In Decimal:		-101.94611	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
32	42	43	-101	56	46			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
4952			221320					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)								
Wastewater Treatment for the City of Lamesa								
34. Mailing Address:	601 S. 1 st Street							
	City	Lamesa	State	TX	ZIP	79331	ZIP + 4	
35. E-Mail Address:	directorofutilities@ci.lamesa.tx.us							
36. Telephone Number	37. Extension or Code				38. Fax Number (if applicable)			
(806) 872-4327					(806) 872-4338			

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010107001			

SECTION IV: Preparer Information

40. Name:	Paul Krueger, P.E.		41. Title:	Civil Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(806) 473-2200		() -	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 Lamesa	Job Title:	Utilities Director	
Name (In Print):	Ernest Ojeda		Phone:	(806) 872- 2124
Signature:			Date:	

Appendix B
Plain Language Summary



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

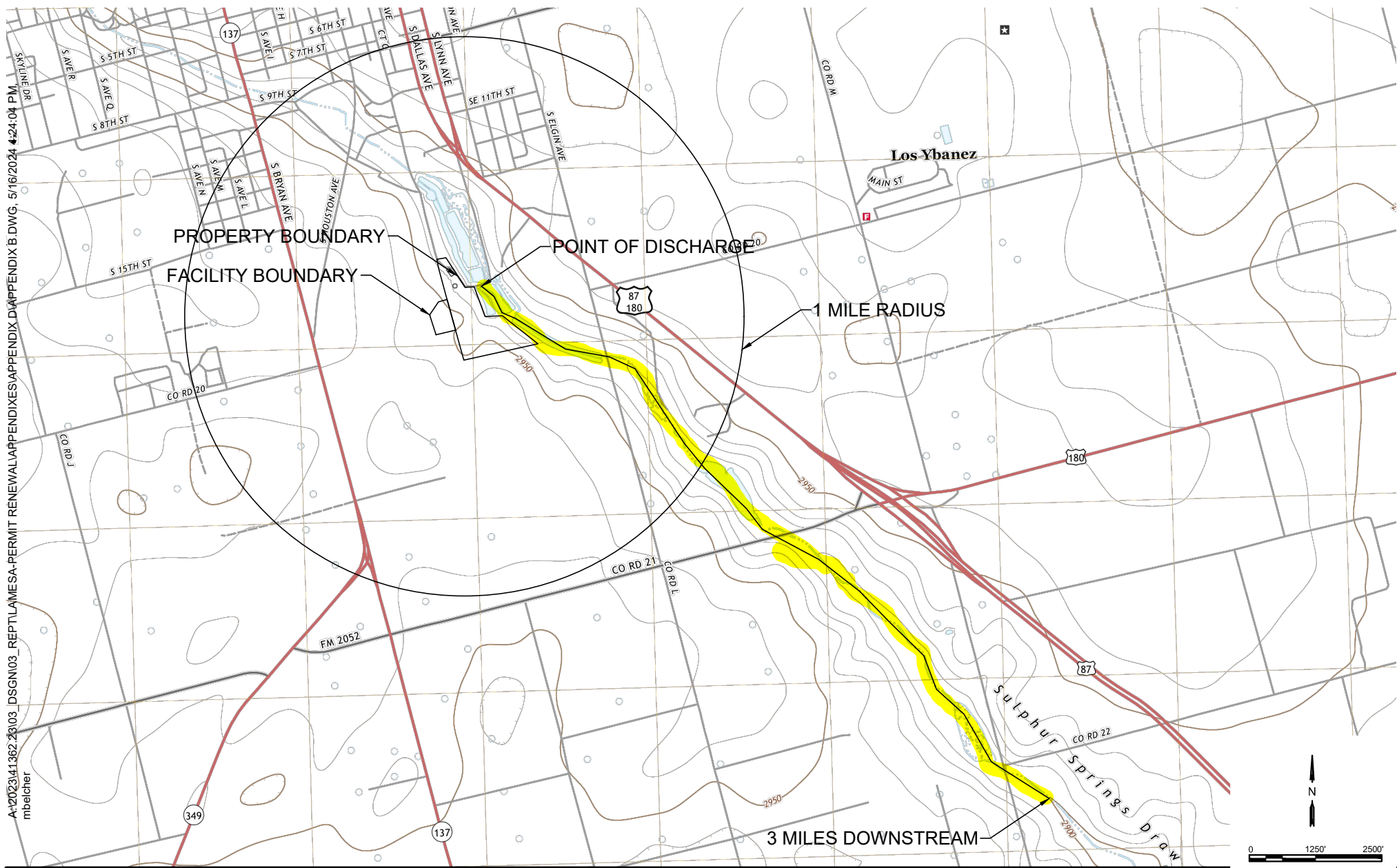
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal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

City of Lamesa (CN600632400) operates City of Levelland Wastewater Treatment Plant (RN101948977), an activated sludge treatment process using the extended aeration mode. The facility is located at 1.3 miles southeast of the intersection of State Hwy 137 and Sulphur Springs Draw, in Lamesa, Dawson County, Texas 79331. A permit renewal to discharge 2.0 million gallons a day of treated domestic wastewater.

Discharges from the facility are expected to contain Carbonaceous Biochemical Oxygen Demand, Total Suspended Solids, and Ammonia Nitrogen. Domestic wastewater is treated by activated sludge treatment process using the extended aeration mode. Treatment units include a screen, vortex grit removal, carousel aeration basin, 2 final clarifiers, and UV disinfection.

Appendix C

USGS Map



City of Lamesa Wastewater Treatment Plant

City of Lamesa
601 S. 1st Street
Lamesa, TX, 79331

Parkhill

Parkhill.com

Appendix C

USGS Map

Issue: Permit Renewal
Date: 05/17/2024
Project No: 41362.23
Sheet: 1 of 1

Appendix D

SPIF Form

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

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

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

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

The following applies to all applications:

1. Permittee: City of Lamesa

Permit No. WQ00 10107001EPA ID No. TX 0129011

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

The treatment plant is located 1.3 miles southeast of the intersection of State Hwy 137 and Sulphur Springs Draw, southeast of Lamesa in Dawson County.Mr.

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

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

First and Last Name: Ernest Ojeda

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

Title: Director of Utilities

Mailing Address: 601 S. 1st Street

City, State, Zip Code: Lamesa, TX, 79331

Phone No.: 806.201.0243 Ext.: Fax No.:

E-mail Address: directorofutilites@ci.lamesa.tx.us

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

City of Lamesa

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

The treated effluent is discharged through a 24" out fall pipe to Sulphur Springs Draw, then to Mustang Draw, then to Beals Creek, then to Colorado River. The nearest classified stream segment is Segrent 1412, described as the Colorado river below lake J.B. Thomas.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

N/A

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

N/A

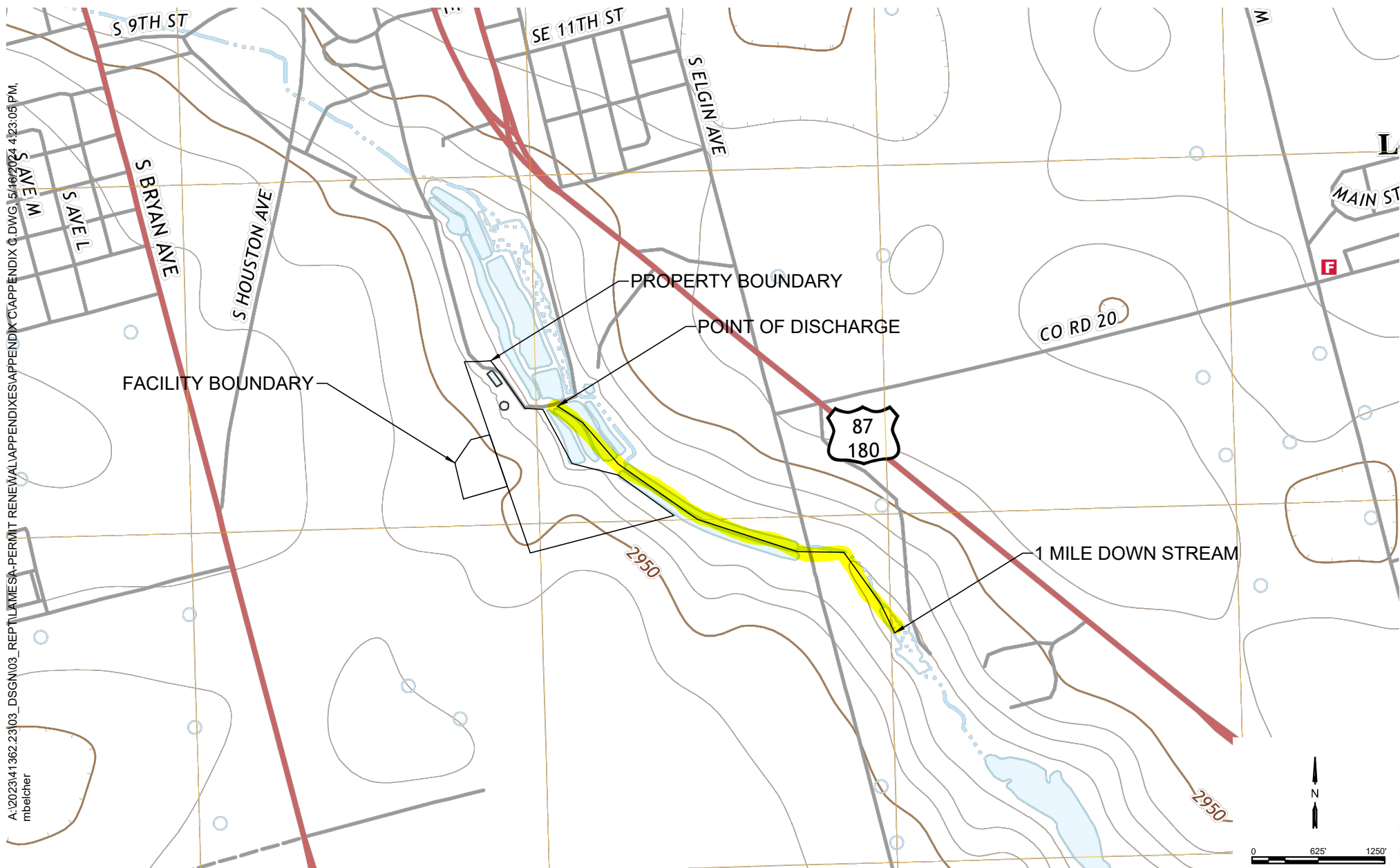
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

N/A

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

N/A



Lamesa Wastewater Treatment Plant

City of Lamesa
601 S. 1st Street
Lamesa, TX, 79331

City of Lamesa

601 S. 1st Street

Lamesa, TX, 79331

Parkhill

Parkhill.com

Appendix D

SPIF Map

Issue:
Date:
Project No:
Sheet:

Issue:

Date:

Project No:

Sheet:

Permit Renewal

04/17/2024

41362.23

1 of 1

Appendix E
Flow Diagram

Raw Wastewater
(2.0 MGD Design Flow)

Raw Waste
Pump Station

Bar/Step
Screen

Grit Removal

Extended
Aeration

Secondary
Clarification

Ultraviolet
Disinfection

To Sulphur Springs
Draw

Screenings & Grit to
Landfill

Screenings

Grit

Return Sludge

Waste Sludge

Belt Filter
Press

A:\2023\41362.23\03_DSGN\03_REPT\LAMESA-PERMIT RENEWAL\APPENDIXES\APPENDIX E.DWG, 5/16/2024 12:17:18 PM, mbelcher

City of Lamesa Wastewater Treatment Plant

City of Lamesa
601 S. 1st Street
Lamesa, TX, 79331

Parkhill

Parkhill.com

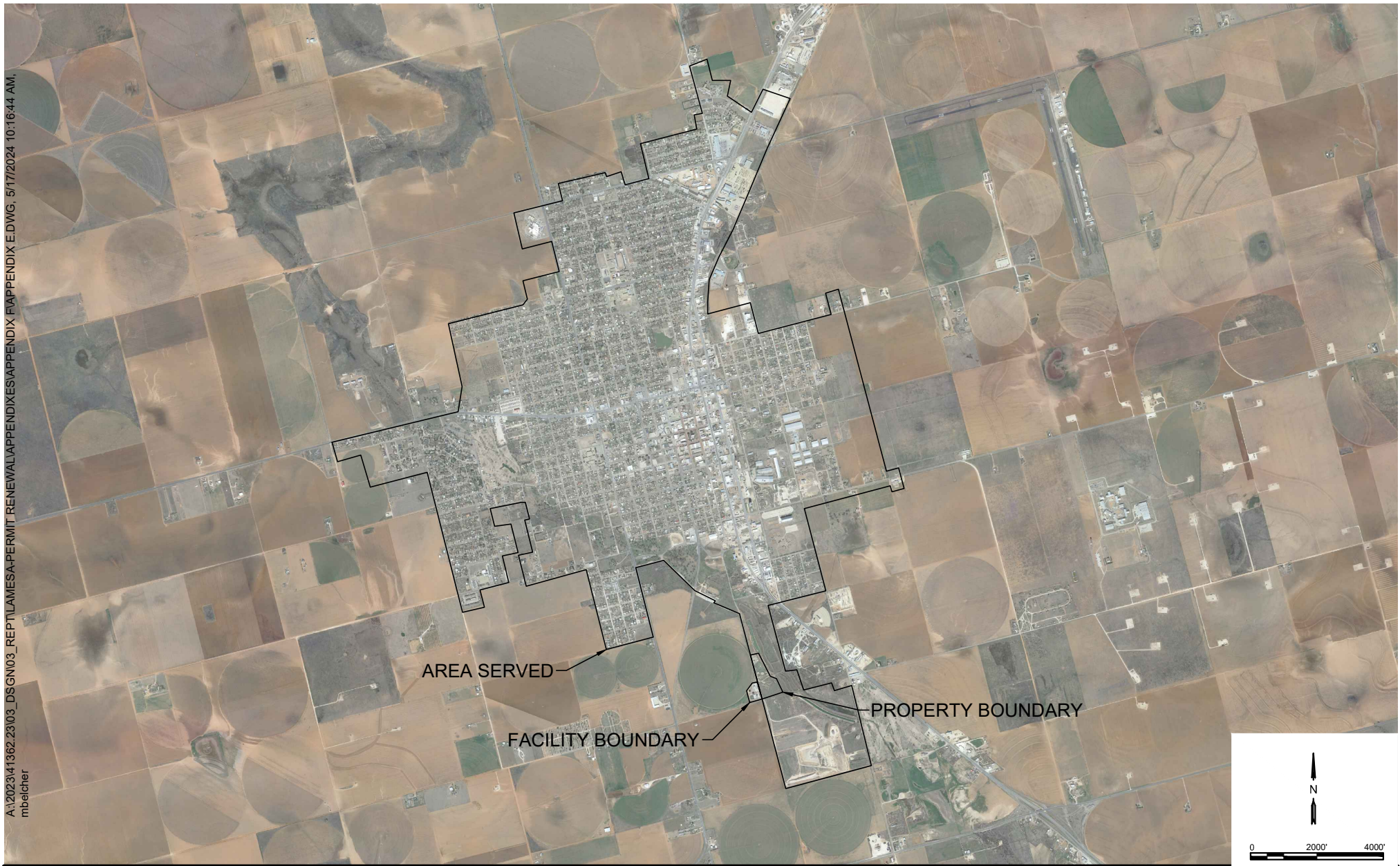
Appendix E Flow Diagram

Issue:	Permit Renewal
Date:	05/17/2023
Project No:	41362.23
Sheet:	1 of 1

Appendix F

Site Map

A:\2023\41362.23\03_DSGN\03_REPT\LAMESA-PERMIT RENEWAL\APPENDIX F\APPENDIX E.DWG, 5/17/2024 10:16:44 AM,
mbelcher



City of Lamesa Wastewater Treatment Plant

City of Lamesa
601 S. 1st Street
Lamesa, TX, 79331

Parkhill.com

Appendix F Site Map

Issue:	Permit Renewal
Date:	05/17/2024
Project No:	41362.23
Sheet:	1 of 1

Appendix G
Pollutant Analysis

ANALYTICAL REPORT

PREPARED FOR

Attn: Jessica Richey
Parkhill Smith & Cooper Inc.
4222 85th Street
Lubbock, Texas 79423

Generated 7/31/2023 1:28:59 PM

JOB DESCRIPTION

TPDES Permit Application Renewal

JOB NUMBER

820-9303-1

Eurofins Lubbock

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



Generated
7/31/2023 1:28:59 PM

Authorized for release by
John Builes, Project Manager
John.Builes@et.eurofinsus.com
(561)558-4549

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	8
Surrogate Summary	14
QC Sample Results	16
QC Association Summary	41
Lab Chronicle	48
Certification Summary	50
Method Summary	51
Sample Summary	53
Chain of Custody	54
Receipt Checklists	58



Definitions/Glossary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

Eurofins Lubbock

Definitions/Glossary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Job ID: 820-9303-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-9303-1

Receipt

The sample was received on 7/18/2023 11:50 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 625.1: The surrogate recovery for the laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-113963 and analytical batch 860-114044 was outside the control limit.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 4136223 Permit (820-9303-1). These results have been reported and qualified.

Method 625.1: The laboratory control sample (LCS) for preparation batch 860-114275 and analytical batch 860-114367 recovered outside control limits for the following analyte: Benzidine. Benzidine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method 625.1: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-114275 and analytical batch 860-114367 recovered outside control limits for the following analytes: Benzidine and Pyridine.

Method 625.1: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: 4136223 Permit (820-9303-1). These results have been reported and qualified.

Method 625.1: The following sample was re-prepared outside of preparation holding time due to QC failed on first extracted: 4136223 Permit (820-9303-1).

Method 625.1: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-113963 and analytical batch 860-114044 recovered outside control limits for multiple analytes. The associated sample was re-prepared and re-analyzed outside holding time. Both sets of data have been reported.

Method 625.1: The surrogate recovery for the laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-114275 and analytical batch 860-114367 was outside the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 608.3_Pest: Surrogate recovery for the following sample was outside the upper control limit: 4136223 Permit (820-9303-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Case Narrative

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Job ID: 820-9303-1 (Continued)

Laboratory: Eurofins Lubbock (Continued)

HPLC/IC

Method 300_ORGFMS: The following sample was diluted to bring the concentration of target analytes within the calibration range: 4136223 Permit (820-9303-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540D: Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for analysis: 1000mL.

Method 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-113846 and analytical batch 860-114071 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM5210B_Calc: The method blank result associated with batch 860-113787 was higher than the method-required limit of 0.2 mg/L.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Biology

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<0.0111	U	0.0500	0.0111	mg/L			07/19/23 19:37	1
Acrylonitrile	<0.0143	U	0.0500	0.0143	mg/L			07/19/23 19:37	1
Benzene	<0.000460	U	0.00100	0.000460	mg/L			07/19/23 19:37	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			07/19/23 19:37	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			07/19/23 19:37	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			07/19/23 19:37	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			07/19/23 19:37	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L			07/19/23 19:37	1
Chlorodibromomethane	<0.000547	U	0.00500	0.000547	mg/L			07/19/23 19:37	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			07/19/23 19:37	1
2-Chloroethyl vinyl ether	<0.00252	U	0.00500	0.00252	mg/L			07/19/23 19:37	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L			07/19/23 19:37	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			07/19/23 19:37	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			07/19/23 19:37	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			07/19/23 19:37	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			07/19/23 19:37	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L			07/19/23 19:37	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			07/19/23 19:37	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			07/19/23 19:37	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L			07/19/23 19:37	1
1,3-Dichloropropene, Total	<0.00127	U	0.00500	0.00127	mg/L			07/19/23 19:37	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			07/19/23 19:37	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L			07/19/23 19:37	1
m-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L			07/19/23 19:37	1
Methyl ethyl ketone (MEK)	<0.00828	U	0.0500	0.00828	mg/L			07/19/23 19:37	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			07/19/23 19:37	1
o-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L			07/19/23 19:37	1
p-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L			07/19/23 19:37	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			07/19/23 19:37	1
Tetrachloroethylene	<0.000801	U	0.00100	0.000801	mg/L			07/19/23 19:37	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			07/19/23 19:37	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L			07/19/23 19:37	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			07/19/23 19:37	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			07/19/23 19:37	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			07/19/23 19:37	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			07/19/23 19:37	1
Trihalomethanes, Total	<0.000643	U	0.00500	0.000643	mg/L			07/19/23 19:37	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			07/19/23 19:37	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			07/19/23 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144		07/19/23 19:37	1
4-Bromofluorobenzene (Surr)	103		74 - 124		07/19/23 19:37	1
Dibromofluoromethane (Surr)	101		75 - 131		07/19/23 19:37	1
Toluene-d8 (Surr)	101		80 - 120		07/19/23 19:37	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00139	U *	0.00570	0.00139	mg/L		07/25/23 10:28	07/26/23 00:36	1
Acenaphthylene	<0.00141	U *	0.0100	0.00141	mg/L		07/25/23 10:28	07/26/23 00:36	1

Eurofins Lubbock

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<0.00150	U	0.00570	0.00150	mg/L		07/25/23 10:28	07/26/23 00:36	1
Benzidine	<0.00480	U *1	0.0200	0.00480	mg/L		07/25/23 10:28	07/26/23 00:36	1
Benzo[a]anthracene	<0.000173	U	0.00500	0.000173	mg/L		07/25/23 10:28	07/26/23 00:36	1
Benzo[a]pyrene	<0.000364	U	0.00500	0.000364	mg/L		07/25/23 10:28	07/26/23 00:36	1
3,4-Benzofluoranthene	<0.00204	U	0.0100	0.00204	mg/L		07/25/23 10:28	07/26/23 00:36	1
Benzo[g,h,i]perylene	<0.00268	U	0.0100	0.00268	mg/L		07/25/23 10:28	07/26/23 00:36	1
Benzo[k]fluoranthene	<0.000375	U	0.00500	0.000375	mg/L		07/25/23 10:28	07/26/23 00:36	1
Bis(2-chloroethoxy)methane	<0.00176	U *-	0.0100	0.00176	mg/L		07/25/23 10:28	07/26/23 00:36	1
Bis(2-chloroethyl)ether	<0.00216	U *-	0.0100	0.00216	mg/L		07/25/23 10:28	07/26/23 00:36	1
Bis(2-ethylhexyl) phthalate	<0.000277	U	0.00500	0.000277	mg/L		07/25/23 10:28	07/26/23 00:36	1
4-Bromophenyl phenyl ether	<0.000256	U *-	0.00500	0.000256	mg/L		07/25/23 10:28	07/26/23 00:36	1
Butyl benzyl phthalate	<0.000337	U	0.00500	0.000337	mg/L		07/25/23 10:28	07/26/23 00:36	1
4-Chloro-3-methylphenol	<0.00157	U	0.00500	0.00157	mg/L		07/25/23 10:28	07/26/23 00:36	1
2-Chloronaphthalene	<0.000462	U *-	0.00500	0.000462	mg/L		07/25/23 10:28	07/26/23 00:36	1
2-Chlorophenol	<0.000649	U	0.00500	0.000649	mg/L		07/25/23 10:28	07/26/23 00:36	1
4-Chlorophenyl phenyl ether	<0.00128	U	0.0100	0.00128	mg/L		07/25/23 10:28	07/26/23 00:36	1
Chrysene	<0.000222	U	0.00500	0.000222	mg/L		07/25/23 10:28	07/26/23 00:36	1
Dibenz(a,h)anthracene	<0.000246	U	0.00500	0.000246	mg/L		07/25/23 10:28	07/26/23 00:36	1
3,3'-Dichlorobenzidine	<0.000341	U	0.00500	0.000341	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,4-Dichlorophenol	<0.000314	U *-	0.00500	0.000314	mg/L		07/25/23 10:28	07/26/23 00:36	1
Diethyl phthalate	<0.00159	U	0.00500	0.00159	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,4-Dimethylphenol	<0.000649	U *-	0.00500	0.000649	mg/L		07/25/23 10:28	07/26/23 00:36	1
Dimethyl phthalate	<0.000299	U	0.00250	0.000299	mg/L		07/25/23 10:28	07/26/23 00:36	1
Di-n-butyl phthalate	<0.000252	U	0.00500	0.000252	mg/L		07/25/23 10:28	07/26/23 00:36	1
4,6-Dinitro-o-cresol	<0.00144	U *-	0.0100	0.00144	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,4-Dinitrophenol	<0.000499	U *1	0.0100	0.000499	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,4-Dinitrotoluene	<0.00131	U	0.0100	0.00131	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,6-Dinitrotoluene	<0.00161	U *-	0.00500	0.00161	mg/L		07/25/23 10:28	07/26/23 00:36	1
Di-n-octyl phthalate	<0.000373	U	0.00500	0.000373	mg/L		07/25/23 10:28	07/26/23 00:36	1
1,2-Diphenylhydrazine	<0.00149	U	0.0100	0.00149	mg/L		07/25/23 10:28	07/26/23 00:36	1
Fluoranthene	<0.00159	U	0.00500	0.00159	mg/L		07/25/23 10:28	07/26/23 00:36	1
Fluorene	<0.00163	U *-	0.00500	0.00163	mg/L		07/25/23 10:28	07/26/23 00:36	1
Hexachlorobenzene	<0.000307	U	0.00500	0.000307	mg/L		07/25/23 10:28	07/26/23 00:36	1
Hexachlorobutadiene	<0.000238	U	0.00100	0.000238	mg/L		07/25/23 10:28	07/26/23 00:36	1
Hexachlorocyclopentadiene	<0.00458	U *-	0.0100	0.00458	mg/L		07/25/23 10:28	07/26/23 00:36	1
Hexachloroethane	<0.000526	U *-	0.00480	0.000526	mg/L		07/25/23 10:28	07/26/23 00:36	1
Indeno[1,2,3-cd]pyrene	<0.00229	U	0.0100	0.00229	mg/L		07/25/23 10:28	07/26/23 00:36	1
Isophorone	<0.00164	U	0.00500	0.00164	mg/L		07/25/23 10:28	07/26/23 00:36	1
m+p-Cresol	<0.00262	U	0.0100	0.00262	mg/L		07/25/23 10:28	07/26/23 00:36	1
Naphthalene	<0.000542	U	0.00250	0.000542	mg/L		07/25/23 10:28	07/26/23 00:36	1
Nitrobenzene	<0.00166	U *-	0.00500	0.00166	mg/L		07/25/23 10:28	07/26/23 00:36	1
4-Nitrophenol	<0.00491	U	0.00720	0.00491	mg/L		07/25/23 10:28	07/26/23 00:36	1
2-Nitrophenol	<0.00167	U	0.0100	0.00167	mg/L		07/25/23 10:28	07/26/23 00:36	1
N-Nitrosodimethylamine	<0.00202	U *-	0.0100	0.00202	mg/L		07/25/23 10:28	07/26/23 00:36	1
N-Nitrosodi-n-propylamine	<0.00288	U	0.0100	0.00288	mg/L		07/25/23 10:28	07/26/23 00:36	1
N-Nitrosodiphenylamine	<0.00181	U	0.0100	0.00181	mg/L		07/25/23 10:28	07/26/23 00:36	1
o-Cresol	<0.00162	U	0.0100	0.00162	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,2'-oxybis[1-chloropropane]	<0.00179	U *-	0.0100	0.00179	mg/L		07/25/23 10:28	07/26/23 00:36	1
Pentachlorophenol	<0.000234	U *-	0.0100	0.000234	mg/L		07/25/23 10:28	07/26/23 00:36	1

Eurofins Lubbock

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.00142	U *	0.0100	0.00142	mg/L		07/25/23 10:28	07/26/23 00:36	1
Phenol	<0.000423	U *	0.00450	0.000423	mg/L		07/25/23 10:28	07/26/23 00:36	1
Pyrene	<0.000178	U	0.00500	0.000178	mg/L		07/25/23 10:28	07/26/23 00:36	1
1,2,4,5-Tetrachlorobenzene	<0.00132	U	0.0100	0.00132	mg/L		07/25/23 10:28	07/26/23 00:36	1
1,2,4-Trichlorobenzene	<0.00161	U *	0.00500	0.00161	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,4,6-Trichlorophenol	<0.00142	U *	0.00500	0.00142	mg/L		07/25/23 10:28	07/26/23 00:36	1
2,4,5-Trichlorophenol	<0.00200	U	0.0100	0.00200	mg/L		07/25/23 10:28	07/26/23 00:36	1
Pyridine	<0.00264	U	0.0100	0.00264	mg/L		07/25/23 10:28	07/26/23 00:36	1
Pentachlorobenzene	<0.00107	U	0.0100	0.00107	mg/L		07/25/23 10:28	07/26/23 00:36	1
Hexachlorophene	<0.0100	U	0.100	0.0100	mg/L		07/25/23 10:28	07/26/23 00:36	1
N-Nitrosodi-n-butylamine	<0.00149	U	0.0100	0.00149	mg/L		07/25/23 10:28	07/26/23 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		29 - 112	07/25/23 10:28	07/26/23 00:36	1
2-Fluorophenol (Surr)	21	S1-	28 - 114	07/25/23 10:28	07/26/23 00:36	1
Nitrobenzene-d5 (Surr)	43		15 - 314	07/25/23 10:28	07/26/23 00:36	1
Phenol-d5 (Surr)	13		8 - 424	07/25/23 10:28	07/26/23 00:36	1
p-Terphenyl-d14 (Surr)	67		20 - 141	07/25/23 10:28	07/26/23 00:36	1
2,4,6-Tribromophenol (Surr)	43		31 - 132	07/25/23 10:28	07/26/23 00:36	1

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00000113	U	0.0000100	0.00000113	mg/L		07/20/23 07:48	07/20/23 15:28	1
alpha-BHC	<0.00000142	U	0.0000090	0.0000014	mg/L		07/20/23 07:48	07/20/23 15:28	1
			0	2					
beta-BHC	<0.00000389	U	0.0000180	0.0000038	mg/L		07/20/23 07:48	07/20/23 15:28	1
				9					
delta-BHC	<0.00000245	U	0.000250	0.0000024	mg/L		07/20/23 07:48	07/20/23 15:28	1
				5					
gamma-BHC (Lindane)	<0.00000299	U	0.0000100	0.0000029	mg/L		07/20/23 07:48	07/20/23 15:28	1
				9					
4,4'-DDD	<0.00000081	U	0.0000100	0.0000008	mg/L		07/20/23 07:48	07/20/23 15:28	1
	4			14					
4,4'-DDE	<0.00000109	U	0.0000100	0.0000010	mg/L		07/20/23 07:48	07/20/23 15:28	1
				9					
4,4'-DDT	<0.00000379	U	0.0000200	0.0000037	mg/L		07/20/23 07:48	07/20/23 15:28	1
				9					
Dieldrin	<0.00000095	U	0.0000100	0.0000009	mg/L		07/20/23 07:48	07/20/23 15:28	1
	3			53					
Endosulfan I	<0.00000107	U	0.0000100	0.0000010	mg/L		07/20/23 07:48	07/20/23 15:28	1
				7					
Endosulfan II	<0.00000122	U	0.0000100	0.0000012	mg/L		07/20/23 07:48	07/20/23 15:28	1
				2					
Endosulfan sulfate	<0.00000112	U	0.0000100	0.00000112	mg/L		07/20/23 07:48	07/20/23 15:28	1
Endrin	<0.00000156	U	0.0000100	0.0000015	mg/L		07/20/23 07:48	07/20/23 15:28	1
				6					
Endrin aldehyde	<0.00000118	U	0.0000100	0.00000118	mg/L		07/20/23 07:48	07/20/23 15:28	1
Heptachlor	<0.00000446	U	0.0000090	0.0000044	mg/L		07/20/23 07:48	07/20/23 15:28	1
			0	6					
Heptachlor epoxide	<0.00000134	U	0.0000100	0.0000013	mg/L		07/20/23 07:48	07/20/23 15:28	1
				4					
Toxaphene	<0.0000769	U	0.000200	0.0000769	mg/L		07/20/23 07:48	07/20/23 15:28	1
Chlordane	<0.000103	U	0.000250	0.000103	mg/L		07/20/23 07:48	07/20/23 15:28	1

Eurofins Lubbock

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	164	S1+	15 - 136	07/20/23 07:48	07/20/23 15:28	1
Tetrachloro-m-xylene (Surr)	107		18 - 126	07/20/23 07:48	07/20/23 15:28	1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:59	1
PCB-1221	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:59	1
PCB-1232	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:59	1
PCB-1242	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:59	1
PCB-1248	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:59	1
PCB-1254	<0.00000780	U	0.000100	0.0000078	mg/L		07/20/23 07:48	07/20/23 13:59	1
PCB-1260	<0.00000780	U	0.000100	0					
				0.0000078	mg/L		07/20/23 07:48	07/20/23 13:59	1
Polychlorinated biphenyls, Total	<0.000100	U	0.000100	0.000100	mg/L		07/20/23 07:48	07/20/23 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	87		18 - 126				07/20/23 07:48	07/20/23 13:59	1
DCB Decachlorobiphenyl (Surr)	107		15 - 136				07/20/23 07:48	07/20/23 13:59	1

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorophene	<0.000811	U	0.00502	0.000811	mg/L		07/23/23 19:55	07/27/23 19:12	1
Silvex (2,4,5-TP)	<0.0000424	U	0.000201	0.0000424	mg/L		07/23/23 19:55	07/26/23 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	119		45 - 150				07/23/23 19:55	07/26/23 19:41	1
2,4-Dichlorophenylacetic acid	125		45 - 150				07/23/23 19:55	07/27/23 19:12	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	391		0.500	0.250	mg/L			07/19/23 19:25	1
Fluoride	0.931		0.500	0.100	mg/L			07/19/23 19:25	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			07/19/23 19:25	1
Sulfate	197		0.500	0.200	mg/L			07/19/23 19:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	20.8		1.00	0.391	mg/L			07/19/23 19:33	10
Nitrate Nitrite as N	20.8		1.00	0.391	mg/L			07/19/23 19:33	10

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		07/22/23 06:44	07/26/23 08:09	1
Diuron	0.166		0.0900	0.0514	ug/L		07/22/23 06:44	07/26/23 08:09	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	0.0842		0.0200	0.00301	mg/L		07/21/23 20:53	07/22/23 23:57	1
Antimony	<0.00105	U	0.00200	0.00105	mg/L		07/21/23 20:53	07/22/23 23:57	1
Arsenic	0.00520		0.00400	0.000341	mg/L		07/21/23 20:53	07/22/23 23:57	1
Barium	0.0930		0.00400	0.000289	mg/L		07/21/23 20:53	07/22/23 23:57	1

Eurofins Lubbock

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.000148	U	0.00200	0.000148	mg/L		07/21/23 20:53	07/22/23 23:57	1
Cadmium	<0.0000850	U	0.00200	0.0000850	mg/L		07/21/23 20:53	07/22/23 23:57	1
Chromium	0.000392	J	0.00400	0.000325	mg/L		07/21/23 20:53	07/22/23 23:57	1
Copper	0.00547		0.00400	0.000690	mg/L		07/21/23 20:53	07/22/23 23:57	1
Lead	0.000537	J	0.00200	0.000140	mg/L		07/21/23 20:53	07/22/23 23:57	1
Nickel	0.00170	J	0.00200	0.000486	mg/L		07/21/23 20:53	07/22/23 23:57	1
Selenium	<0.000685	U	0.00200	0.000685	mg/L		07/21/23 20:53	07/22/23 23:57	1
Silver	<0.000118	U	0.00200	0.000118	mg/L		07/21/23 20:53	07/22/23 23:57	1
Thallium	<0.0000960	U	0.00200	0.0000960	mg/L		07/21/23 20:53	07/22/23 23:57	1
Zinc	0.0683		0.00400	0.000885	mg/L		07/21/23 20:53	07/22/23 23:57	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000525	U	0.000200	0.0000525	mg/L		07/24/23 20:20	07/25/23 16:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease) (1664B)	<1.57	U	5.00	1.57	mg/L			07/24/23 09:53	1
Cyanide, Total (EPA 335.4)	0.00213	J	0.00500	0.00200	mg/L		07/21/23 11:49	07/21/23 20:22	1
Ammonia (EPA 350.1)	<0.0345	U	0.100	0.0345	mg/L			07/19/23 23:41	1
Nitrogen, Kjeldahl (EPA 351.2)	0.632		0.200	0.0890	mg/L		07/24/23 16:54	07/25/23 15:28	1
Oxygen, Dissolved (EPA 360.1)	9.65	HF	1.00	1.00	mg/L			07/25/23 10:59	1
Total Phosphorus as P (EPA 365.1)	2.97		0.0612	0.0293	mg/L		07/24/23 18:08	07/25/23 16:13	3.06
Total Phosphorus as PO4 (EPA 365.1)	9.11		0.188	0.0900	mg/L		07/24/23 18:08	07/25/23 16:13	3.06
Chemical Oxygen Demand (Hach 8000)	27.0		20.0	3.36	mg/L			07/25/23 10:00	1
Nitrogen, Organic (EPA Nitrogen,Org)	0.632		0.200	0.0614	mg/L			07/26/23 10:27	1
Alkalinity (SM 2320B)	1360		4.00	4.00	mg/L			07/20/23 12:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			07/20/23 12:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	822		4.00	4.00	mg/L			07/20/23 12:24	1
Specific Conductance (SM 2510B)	2080		10.0	10.0	umho/cm @ 25C			07/21/23 12:01	1
Total Dissolved Solids (SM 2540C)	1170		20.0	20.0	mg/L			07/23/23 09:45	1
Total Suspended Solids (SM 2540D)	<8.00	U	8.00	8.00	mg/L			07/25/23 10:18	1
Cr (III) (SM 3500 CR B)	<0.00200	U	0.0100	0.00200	mg/L			07/25/23 15:38	1
Chlorine, Total Residual (SM 4500 Cl G)	<0.0500	U HF	0.0500	0.0500	mg/L			07/24/23 13:42	1
pH (SM 4500 H+ B)	7.8	HF			SU			07/20/23 17:46	1
Temperature (SM 4500 H+ B)	22.2	HF			Degrees C			07/20/23 17:46	1
Sulfide (SM 4500 S2 D)	<0.0400	U	0.100	0.0400	mg/L			07/25/23 15:32	1
Biochemical Oxygen Demand (SM 5210B)	<2.14	U	2.14	2.14	mg/L		07/19/23 13:00	07/19/23 15:23	1
Total Organic Carbon (SM 5310C)	1.35		1.00	0.500	mg/L			07/24/23 12:20	1
Chromium, hexavalent (SM3500 CR B)	<0.00200	U	0.0100	0.00200	mg/L			07/19/23 13:37	1
Carbonaceous Biochemical Oxygen Demand (SM5210B CBOD)	<2.14	U	2.14	2.14	mg/L		07/19/23 16:08	07/19/23 18:22	1
Nitrogen, Total (EPA Total Nitrogen)	21.4		0.200	0.0614	mg/L			07/30/23 15:28	1

Eurofins Lubbock

Client Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Method: SM 9223B - Coliforms, Total, and E.Coli (Colilert - Quanti Tray)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Total	11		1.0	1.0	MPN/100mL			07/18/23 16:14	1
Escherichia coli	1.0		1.0	1.0	MPN/100mL			07/18/23 16:14	1

Surrogate Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
820-9303-1	4136223 Permit	100	103	101	101
LCS 860-112934/14	Lab Control Sample	96	99	101	100
LCSD 860-112934/15	Lab Control Sample Dup	98	102	100	101
MB 860-112934/21	Method Blank	101	103	103	100
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (29-112)	2FP (28-114)	NBZ (15-314)	PHL (8-424)	TPHd14 (20-141)	TBP (31-132)
820-9303-1	4136223 Permit	51	21 S1-	43	13	67	43
LCS 860-113963/2-A	Lab Control Sample	51	19 S1-	46	12	75	58
LCSD 860-113963/3-A	Lab Control Sample Dup	53	19 S1-	47	13	83	67
MB 860-113963/1-A	Method Blank	74	30	68	17	79	49
Surrogate Legend							
FBP = 2-Fluorobiphenyl (Surr)							
2FP = 2-Fluorophenol (Surr)							
NBZ = Nitrobenzene-d5 (Surr)							
PHL = Phenol-d5 (Surr)							
TPHd14 = p-Terphenyl-d14 (Surr)							
TBP = 2,4,6-Tribromophenol (Surr)							

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (15-136)	TCX1 (18-126)
820-9303-1	4136223 Permit	164 S1+	107
LCS 860-113167/2-A	Lab Control Sample	131	101
LCSD 860-113167/3-A	Lab Control Sample Dup	121	94
MB 860-113167/1-A	Method Blank	128	98
Surrogate Legend			
DCB = DCB Decachlorobiphenyl (Surr)			
TCX = Tetrachloro-m-xylene (Surr)			

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (18-126)	DCB1 (15-136)
820-9303-1	4136223 Permit	87	107

Eurofins Lubbock

Surrogate Summary

Client: Parkhill Smith & Cooper Inc.

Job ID: 820-9303-1

Project/Site: TPDES Permit Application Renewal

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TCX1 (18-126)	DCB1 (15-136)				
LCS 860-113167/4-A	Lab Control Sample	84	125				
LCSD 860-113167/5-A	Lab Control Sample Dup	82	115				
MB 860-113167/1-A	Method Blank	80	121				
Surrogate Legend							
TCX = Tetrachloro-m-xylene (Surr)							
DCB = DCB Decachlorobiphenyl (Surr)							

Method: 615 - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCPAA1 (45-150)					
820-9303-1	4136223 Permit	119					
820-9303-1	4136223 Permit	125					
LCS 860-113651/2-A	Lab Control Sample	130					
LCS 860-113651/4-A	Lab Control Sample	128					
LCSD 860-113651/3-A	Lab Control Sample Dup	111					
LCSD 860-113651/5-A	Lab Control Sample Dup	112					
MB 860-113651/1-A	Method Blank	118					
Surrogate Legend							
DCPAA = 2,4-Dichlorophenylacetic acid							

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-112934/21

Matrix: Water

Analysis Batch: 112934

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<0.0111	U	0.0500	0.0111	mg/L			07/19/23 14:08	1
Acrylonitrile	<0.0143	U	0.0500	0.0143	mg/L			07/19/23 14:08	1
Benzene	<0.000460	U	0.00100	0.000460	mg/L			07/19/23 14:08	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			07/19/23 14:08	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			07/19/23 14:08	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			07/19/23 14:08	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			07/19/23 14:08	1
Chlorobenzene	<0.000530	U	0.00100	0.000530	mg/L			07/19/23 14:08	1
Chlorodibromomethane	<0.000547	U	0.00500	0.000547	mg/L			07/19/23 14:08	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			07/19/23 14:08	1
2-Chloroethyl vinyl ether	<0.00252	U	0.00500	0.00252	mg/L			07/19/23 14:08	1
Chloroform	<0.000643	U	0.00100	0.000643	mg/L			07/19/23 14:08	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			07/19/23 14:08	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			07/19/23 14:08	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			07/19/23 14:08	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			07/19/23 14:08	1
1,2-Dichloroethane	<0.000590	U	0.00100	0.000590	mg/L			07/19/23 14:08	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			07/19/23 14:08	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			07/19/23 14:08	1
1,2-Dichloropropane	<0.000667	U	0.00500	0.000667	mg/L			07/19/23 14:08	1
1,3-Dichloropropene, Total	<0.00127	U	0.00500	0.00127	mg/L			07/19/23 14:08	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			07/19/23 14:08	1
Hexachlorobutadiene	<0.00126	U	0.00500	0.00126	mg/L			07/19/23 14:08	1
m-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L			07/19/23 14:08	1
Methyl ethyl ketone (MEK)	<0.00828	U	0.0500	0.00828	mg/L			07/19/23 14:08	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			07/19/23 14:08	1
o-Dichlorobenzene	<0.000509	U	0.00100	0.000509	mg/L			07/19/23 14:08	1
p-Dichlorobenzene	<0.000513	U	0.00100	0.000513	mg/L			07/19/23 14:08	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			07/19/23 14:08	1
Tetrachloroethylene	<0.000801	U	0.00100	0.000801	mg/L			07/19/23 14:08	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			07/19/23 14:08	1
trans-1,2-Dichloroethene	<0.000945	U	0.00100	0.000945	mg/L			07/19/23 14:08	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			07/19/23 14:08	1
1,1,1-Trichloroethane	<0.00169	U	0.00500	0.00169	mg/L			07/19/23 14:08	1
1,1,2-Trichloroethane	<0.000511	U	0.00100	0.000511	mg/L			07/19/23 14:08	1
Trichloroethene	<0.000791	U	0.00500	0.000791	mg/L			07/19/23 14:08	1
Trihalomethanes, Total	<0.000643	U	0.00500	0.000643	mg/L			07/19/23 14:08	1
Vinyl chloride	<0.000638	U	0.00200	0.000638	mg/L			07/19/23 14:08	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			07/19/23 14:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		07/19/23 14:08	1
4-Bromofluorobenzene (Surr)	103		74 - 124		07/19/23 14:08	1
Dibromofluoromethane (Surr)	103		75 - 131		07/19/23 14:08	1
Toluene-d8 (Surr)	100		80 - 120		07/19/23 14:08	1

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-112934/14

Matrix: Water

Analysis Batch: 112934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	0.250	0.2751		mg/L		110	60 - 140
Acrylonitrile	0.500	0.5030		mg/L		101	60 - 140
Benzene	0.0500	0.05599		mg/L		112	75 - 125
Bromodichloromethane	0.0500	0.05661		mg/L		113	75 - 125
Bromoform	0.0500	0.05774		mg/L		115	70 - 130
Bromomethane	0.0500	0.05168		mg/L		103	60 - 140
Carbon tetrachloride	0.0500	0.05448		mg/L		109	70 - 130
Chlorobenzene	0.0500	0.05614		mg/L		112	65 - 135
Chlorodibromomethane	0.0500	0.05731		mg/L		115	73 - 125
Chloroethane	0.0500	0.06200		mg/L		124	60 - 140
2-Chloroethyl vinyl ether	0.0500	0.05912		mg/L		118	50 - 150
Chloroform	0.0500	0.05916		mg/L		118	70 - 121
Chloromethane	0.0500	0.04988		mg/L		100	60 - 140
cis-1,3-Dichloropropene	0.0500	0.05750		mg/L		115	74 - 125
1,2-Dibromoethane	0.0500	0.05796		mg/L		116	73 - 125
1,1-Dichloroethane	0.0500	0.05775		mg/L		115	70 - 130
1,2-Dichloroethane	0.0500	0.05685		mg/L		114	72 - 130
1,1-Dichloroethene	0.0500	0.05422		mg/L		108	50 - 150
Methylene Chloride	0.0500	0.04168		mg/L		83	71 - 125
1,2-Dichloropropane	0.0500	0.05751		mg/L		115	74 - 125
Ethylbenzene	0.0500	0.05613		mg/L		112	75 - 125
Hexachlorobutadiene	0.0500	0.05508		mg/L		110	75 - 125
m-Dichlorobenzene	0.0500	0.05532		mg/L		111	75 - 125
Methyl ethyl ketone (MEK)	0.250	0.2872		mg/L		115	60 - 140
Naphthalene	0.0500	0.05804		mg/L		116	70 - 130
o-Dichlorobenzene	0.0500	0.05565		mg/L		111	75 - 125
p-Dichlorobenzene	0.0500	0.05539		mg/L		111	75 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.05442		mg/L		109	74 - 125
Tetrachloroethylene	0.0500	0.04857		mg/L		97	71 - 125
Toluene	0.0500	0.05592		mg/L		112	70 - 130
trans-1,2-Dichloroethene	0.0500	0.04781		mg/L		96	75 - 125
1,2,4-Trichlorobenzene	0.0500	0.05745		mg/L		115	75 - 135
1,1,1-Trichloroethane	0.0500	0.05736		mg/L		115	70 - 130
1,1,2-Trichloroethane	0.0500	0.05644		mg/L		113	70 - 130
Trichloroethene	0.0500	0.05559		mg/L		111	75 - 135
Vinyl chloride	0.0500	0.05667		mg/L		113	60 - 140
trans-1,3-Dichloropropene	0.0500	0.05842		mg/L		117	66 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-112934/15

Matrix: Water

Analysis Batch: 112934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	0.250	0.2271		mg/L		91	60 - 140	19	25
Acrylonitrile	0.500	0.4597		mg/L		92	60 - 140	9	25
Benzene	0.0500	0.04972		mg/L		99	75 - 125	12	25
Bromodichloromethane	0.0500	0.05011		mg/L		100	75 - 125	12	25
Bromoform	0.0500	0.05230		mg/L		105	70 - 130	10	25
Bromomethane	0.0500	0.04491		mg/L		90	60 - 140	14	25
Carbon tetrachloride	0.0500	0.04789		mg/L		96	70 - 130	13	25
Chlorobenzene	0.0500	0.04945		mg/L		99	65 - 135	13	25
Chlorodibromomethane	0.0500	0.05106		mg/L		102	73 - 125	12	25
Chloroethane	0.0500	0.04979		mg/L		100	60 - 140	22	25
2-Chloroethyl vinyl ether	0.0500	0.05342		mg/L		107	50 - 150	10	25
Chloroform	0.0500	0.05157		mg/L		103	70 - 121	14	25
Chloromethane	0.0500	0.05329		mg/L		107	60 - 140	7	25
cis-1,3-Dichloropropene	0.0500	0.05081		mg/L		102	74 - 125	12	25
1,2-Dibromoethane	0.0500	0.05263		mg/L		105	73 - 125	10	25
1,1-Dichloroethane	0.0500	0.05205		mg/L		104	70 - 130	10	25
1,2-Dichloroethane	0.0500	0.05099		mg/L		102	72 - 130	11	25
1,1-Dichloroethene	0.0500	0.04238		mg/L		85	50 - 150	25	25
Methylene Chloride	0.0500	0.04016		mg/L		80	71 - 125	4	25
1,2-Dichloropropane	0.0500	0.05043		mg/L		101	74 - 125	13	25
Ethylbenzene	0.0500	0.04929		mg/L		99	75 - 125	13	25
Hexachlorobutadiene	0.0500	0.05100		mg/L		102	75 - 125	8	25
m-Dichlorobenzene	0.0500	0.05076		mg/L		102	75 - 125	9	25
Methyl ethyl ketone (MEK)	0.250	0.2621		mg/L		105	60 - 140	9	25
Naphthalene	0.0500	0.05437		mg/L		109	70 - 130	7	25
o-Dichlorobenzene	0.0500	0.05075		mg/L		101	75 - 125	9	25
p-Dichlorobenzene	0.0500	0.05061		mg/L		101	75 - 125	9	25
1,1,2,2-Tetrachloroethane	0.0500	0.05122		mg/L		102	74 - 125	6	25
Tetrachloroethylene	0.0500	0.04283		mg/L		86	71 - 125	13	25
Toluene	0.0500	0.04893		mg/L		98	70 - 130	13	25
trans-1,2-Dichloroethene	0.0500	0.04194		mg/L		84	75 - 125	13	25
1,2,4-Trichlorobenzene	0.0500	0.05280		mg/L		106	75 - 135	8	25
1,1,1-Trichloroethane	0.0500	0.04977		mg/L		100	70 - 130	14	25
1,1,2-Trichloroethane	0.0500	0.05104		mg/L		102	70 - 130	10	25
Trichloroethene	0.0500	0.04916		mg/L		98	75 - 135	12	25
Vinyl chloride	0.0500	0.05143		mg/L		103	60 - 140	10	25
trans-1,3-Dichloropropene	0.0500	0.05207		mg/L		104	66 - 125	11	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	101		80 - 120

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-113963/1-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.00139	U	0.00570	0.00139	mg/L		07/25/23 10:28	07/26/23 00:12	1
Acenaphthylene	<0.00141	U	0.0100	0.00141	mg/L		07/25/23 10:28	07/26/23 00:12	1
Anthracene	<0.00150	U	0.00570	0.00150	mg/L		07/25/23 10:28	07/26/23 00:12	1
Benzidine	<0.00480	U	0.0200	0.00480	mg/L		07/25/23 10:28	07/26/23 00:12	1
Benzo[a]anthracene	<0.000173	U	0.00500	0.000173	mg/L		07/25/23 10:28	07/26/23 00:12	1
Benzo[a]pyrene	<0.000364	U	0.00500	0.000364	mg/L		07/25/23 10:28	07/26/23 00:12	1
3,4-Benzofluoranthene	<0.00204	U	0.0100	0.00204	mg/L		07/25/23 10:28	07/26/23 00:12	1
Benzo[g,h,i]perylene	<0.00268	U	0.0100	0.00268	mg/L		07/25/23 10:28	07/26/23 00:12	1
Benzo[k]fluoranthene	<0.000375	U	0.00500	0.000375	mg/L		07/25/23 10:28	07/26/23 00:12	1
Bis(2-chloroethoxy)methane	<0.00176	U	0.0100	0.00176	mg/L		07/25/23 10:28	07/26/23 00:12	1
Bis(2-chloroethyl)ether	<0.00216	U	0.0100	0.00216	mg/L		07/25/23 10:28	07/26/23 00:12	1
Bis(2-ethylhexyl) phthalate	<0.000277	U	0.00500	0.000277	mg/L		07/25/23 10:28	07/26/23 00:12	1
4-Bromophenyl phenyl ether	<0.000256	U	0.00500	0.000256	mg/L		07/25/23 10:28	07/26/23 00:12	1
Butyl benzyl phthalate	<0.000337	U	0.00500	0.000337	mg/L		07/25/23 10:28	07/26/23 00:12	1
4-Chloro-3-methylphenol	<0.00157	U	0.00500	0.00157	mg/L		07/25/23 10:28	07/26/23 00:12	1
2-Chloronaphthalene	<0.000462	U	0.00500	0.000462	mg/L		07/25/23 10:28	07/26/23 00:12	1
2-Chlorophenol	<0.000649	U	0.00500	0.000649	mg/L		07/25/23 10:28	07/26/23 00:12	1
4-Chlorophenyl phenyl ether	<0.00128	U	0.0100	0.00128	mg/L		07/25/23 10:28	07/26/23 00:12	1
Chrysene	<0.000222	U	0.00500	0.000222	mg/L		07/25/23 10:28	07/26/23 00:12	1
Dibenz(a,h)anthracene	<0.000246	U	0.00500	0.000246	mg/L		07/25/23 10:28	07/26/23 00:12	1
3,3'-Dichlorobenzidine	<0.000341	U	0.00500	0.000341	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,4-Dichlorophenol	<0.000314	U	0.00500	0.000314	mg/L		07/25/23 10:28	07/26/23 00:12	1
Diethyl phthalate	<0.00159	U	0.00500	0.00159	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,4-Dimethylphenol	<0.000649	U	0.00500	0.000649	mg/L		07/25/23 10:28	07/26/23 00:12	1
Dimethyl phthalate	<0.000299	U	0.00250	0.000299	mg/L		07/25/23 10:28	07/26/23 00:12	1
Di-n-butyl phthalate	<0.000252	U	0.00500	0.000252	mg/L		07/25/23 10:28	07/26/23 00:12	1
4,6-Dinitro-o-cresol	<0.00144	U	0.0100	0.00144	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,4-Dinitrophenol	<0.000499	U	0.0100	0.000499	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,4-Dinitrotoluene	<0.00131	U	0.0100	0.00131	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,6-Dinitrotoluene	<0.00161	U	0.00500	0.00161	mg/L		07/25/23 10:28	07/26/23 00:12	1
Di-n-octyl phthalate	<0.000373	U	0.00500	0.000373	mg/L		07/25/23 10:28	07/26/23 00:12	1
1,2-Diphenylhydrazine	<0.00149	U	0.0100	0.00149	mg/L		07/25/23 10:28	07/26/23 00:12	1
Fluoranthene	<0.00159	U	0.00500	0.00159	mg/L		07/25/23 10:28	07/26/23 00:12	1
Fluorene	<0.00163	U	0.00500	0.00163	mg/L		07/25/23 10:28	07/26/23 00:12	1
Hexachlorobenzene	<0.000307	U	0.00500	0.000307	mg/L		07/25/23 10:28	07/26/23 00:12	1
Hexachlorobutadiene	<0.000238	U	0.00100	0.000238	mg/L		07/25/23 10:28	07/26/23 00:12	1
Hexachlorocyclopentadiene	<0.00458	U	0.0100	0.00458	mg/L		07/25/23 10:28	07/26/23 00:12	1
Hexachloroethane	<0.000526	U	0.00480	0.000526	mg/L		07/25/23 10:28	07/26/23 00:12	1
Indeno[1,2,3-cd]pyrene	<0.00229	U	0.0100	0.00229	mg/L		07/25/23 10:28	07/26/23 00:12	1
Isophorone	<0.00164	U	0.00500	0.00164	mg/L		07/25/23 10:28	07/26/23 00:12	1
m+p-Cresol	<0.00262	U	0.0100	0.00262	mg/L		07/25/23 10:28	07/26/23 00:12	1
Naphthalene	<0.000542	U	0.00250	0.000542	mg/L		07/25/23 10:28	07/26/23 00:12	1
Nitrobenzene	<0.00166	U	0.00500	0.00166	mg/L		07/25/23 10:28	07/26/23 00:12	1
4-Nitrophenol	<0.00491	U	0.00720	0.00491	mg/L		07/25/23 10:28	07/26/23 00:12	1
2-Nitrophenol	<0.00167	U	0.0100	0.00167	mg/L		07/25/23 10:28	07/26/23 00:12	1
N-Nitrosodimethylamine	<0.00202	U	0.0100	0.00202	mg/L		07/25/23 10:28	07/26/23 00:12	1
N-Nitrosodi-n-propylamine	<0.00288	U	0.0100	0.00288	mg/L		07/25/23 10:28	07/26/23 00:12	1
N-Nitrosodiphenylamine	<0.00181	U	0.0100	0.00181	mg/L		07/25/23 10:28	07/26/23 00:12	1

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-113963/1-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Cresol	<0.00162	U	0.0100	0.00162	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,2'-oxybis[1-chloropropane]	<0.00179	U	0.0100	0.00179	mg/L		07/25/23 10:28	07/26/23 00:12	1
Pentachlorophenol	<0.000234	U	0.0100	0.000234	mg/L		07/25/23 10:28	07/26/23 00:12	1
Phenanthrene	<0.00142	U	0.0100	0.00142	mg/L		07/25/23 10:28	07/26/23 00:12	1
Phenol	<0.000423	U	0.00450	0.000423	mg/L		07/25/23 10:28	07/26/23 00:12	1
Pyrene	<0.000178	U	0.00500	0.000178	mg/L		07/25/23 10:28	07/26/23 00:12	1
1,2,4,5-Tetrachlorobenzene	<0.00132	U	0.0100	0.00132	mg/L		07/25/23 10:28	07/26/23 00:12	1
1,2,4-Trichlorobenzene	<0.00161	U	0.00500	0.00161	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,4,6-Trichlorophenol	<0.00142	U	0.00500	0.00142	mg/L		07/25/23 10:28	07/26/23 00:12	1
2,4,5-Trichlorophenol	<0.00200	U	0.0100	0.00200	mg/L		07/25/23 10:28	07/26/23 00:12	1
Pyridine	<0.00264	U	0.0100	0.00264	mg/L		07/25/23 10:28	07/26/23 00:12	1
Pentachlorobenzene	<0.00107	U	0.0100	0.00107	mg/L		07/25/23 10:28	07/26/23 00:12	1
Hexachlorophene	<0.0100	U	0.100	0.0100	mg/L		07/25/23 10:28	07/26/23 00:12	1
N-Nitrosodi-n-butylamine	<0.00149	U	0.0100	0.00149	mg/L		07/25/23 10:28	07/26/23 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	74		29 - 112	07/25/23 10:28	07/26/23 00:12	1
2-Fluorophenol (Surr)	30		28 - 114	07/25/23 10:28	07/26/23 00:12	1
Nitrobenzene-d5 (Surr)	68		15 - 314	07/25/23 10:28	07/26/23 00:12	1
Phenol-d5 (Surr)	17		8 - 424	07/25/23 10:28	07/26/23 00:12	1
p-Terphenyl-d14 (Surr)	79		20 - 141	07/25/23 10:28	07/26/23 00:12	1
2,4,6-Tribromophenol (Surr)	49		31 - 132	07/25/23 10:28	07/26/23 00:12	1

Lab Sample ID: LCS 860-113963/2-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0400	0.01867	*-	mg/L		47	60 - 132
Acenaphthylene	0.0400	0.02015	*-	mg/L		50	54 - 126
Anthracene	0.0400	0.02463		mg/L		62	43 - 120
Benzidine	0.0400	0.01109	J	mg/L		28	25 - 125
Benzo[a]anthracene	0.0400	0.02748		mg/L		69	42 - 133
Benzo[a]pyrene	0.0400	0.02508		mg/L		63	32 - 148
3,4-Benzofluoranthene	0.0400	0.02749		mg/L		69	42 - 140
Benzo[g,h,i]perylene	0.0400	0.02741		mg/L		69	13 - 195
Benzo[k]fluoranthene	0.0400	0.02784		mg/L		70	25 - 146
Bis(2-chloroethoxy)methane	0.0400	0.01875	*-	mg/L		47	49 - 165
Bis(2-chloroethyl)ether	0.0400	0.01653	*-	mg/L		41	43 - 126
Bis(2-ethylhexyl) phthalate	0.0400	0.02510		mg/L		63	29 - 137
4-Bromophenyl phenyl ether	0.0400	0.02259	*-	mg/L		56	65 - 120
Butyl benzyl phthalate	0.0400	0.02531		mg/L		63	12 - 140
4-Chloro-3-methylphenol	0.0400	0.01770		mg/L		44	41 - 128
2-Chloronaphthalene	0.0400	0.01856	*-	mg/L		46	65 - 120
2-Chlorophenol	0.0400	0.01471		mg/L		37	36 - 120
4-Chlorophenyl phenyl ether	0.0400	0.02043		mg/L		51	38 - 145
Chrysene	0.0400	0.02660		mg/L		67	44 - 140
Dibenz(a,h)anthracene	0.0400	0.02676		mg/L		67	16 - 200

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-113963/2-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
3,3'-Dichlorobenzidine	0.0400	0.02767		mg/L		69	18 - 213
2,4-Dichlorophenol	0.0400	0.01902	*-	mg/L		48	52 - 122
Diethyl phthalate	0.0400	0.02424		mg/L		61	17 - 120
2,4-Dimethylphenol	0.0400	0.01634	*-	mg/L		41	42 - 120
Dimethyl phthalate	0.0400	0.02255		mg/L		56	25 - 120
Di-n-butyl phthalate	0.0400	0.02479		mg/L		62	8 - 120
4,6-Dinitro-o-cresol	0.0400	0.02064	*-	mg/L		52	53 - 130
2,4-Dinitrophenol	0.0400	0.01205		mg/L		30	12 - 173
2,4-Dinitrotoluene	0.0400	0.02350		mg/L		59	48 - 127
2,6-Dinitrotoluene	0.0400	0.02180	*-	mg/L		54	68 - 137
Di-n-octyl phthalate	0.0400	0.02512		mg/L		63	19 - 132
1,2-Diphenylhydrazine	0.0400	0.02059		mg/L		51	28 - 136
Fluoranthene	0.0400	0.02806		mg/L		70	43 - 121
Fluorene	0.0400	0.02052	*-	mg/L		51	70 - 120
Hexachlorobenzene	0.0400	0.02370		mg/L		59	8 - 142
Hexachlorobutadiene	0.0400	0.01607		mg/L		40	38 - 120
Hexachlorocyclopentadiene	0.0400	0.01404	*-	mg/L		35	41 - 125
Hexachloroethane	0.0400	0.01350	*-	mg/L		34	55 - 120
Indeno[1,2,3-cd]pyrene	0.0400	0.02649		mg/L		66	13 - 151
Isophorone	0.0400	0.01889		mg/L		47	47 - 180
m+p-Cresol	0.0400	0.01067		mg/L		27	14 - 176
Naphthalene	0.0400	0.01752		mg/L		44	36 - 120
Nitrobenzene	0.0400	0.01805	*-	mg/L		45	54 - 158
4-Nitrophenol	0.0400	0.006527	J	mg/L		16	13 - 129
2-Nitrophenol	0.0400	0.01822		mg/L		46	45 - 167
N-Nitrosodimethylamine	0.0400	0.007145	J *-	mg/L		18	20 - 125
N-Nitrosodi-n-propylamine	0.0400	0.01767		mg/L		44	14 - 198
N-Nitrosodiphenylamine	0.0400	0.02359		mg/L		59	2 - 196
o-Cresol	0.0400	0.01203		mg/L		30	14 - 176
2,2'-oxybis[1-chloropropane]	0.0400	0.01600	*-	mg/L		40	63 - 139
Pentachlorophenol	0.0400	0.01478	*-	mg/L		37	38 - 152
Phenanthrene	0.0400	0.02333	*-	mg/L		58	65 - 120
Phenol	0.0400	0.004743	*-	mg/L		12	17 - 120
Pyrene	0.0400	0.02791		mg/L		70	70 - 120
1,2,4,5-Tetrachlorobenzene	0.0400	0.01802		mg/L		45	41 - 125
1,2,4-Trichlorobenzene	0.0400	0.01683	*-	mg/L		42	57 - 130
2,4,6-Trichlorophenol	0.0400	0.01943	*-	mg/L		49	52 - 129
2,4,5-Trichlorophenol	0.0400	0.02037		mg/L		51	35 - 111
Pyridine	0.0400	0.004087	J	mg/L		10	5 - 94
Pentachlorobenzene	0.0400	0.02000		mg/L		50	25 - 131
N-Nitrosodi-n-butylamine	0.0400	0.01640		mg/L		41	33 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	51		29 - 112
2-Fluorophenol (Surr)	19	S1-	28 - 114
Nitrobenzene-d5 (Surr)	46		15 - 314
Phenol-d5 (Surr)	12		8 - 424
p-Terphenyl-d14 (Surr)	75		20 - 141

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-113963/2-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113963

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4,6-Tribromophenol (Surr)	58		31 - 132

Lab Sample ID: LCSD 860-113963/3-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0400	0.02025	*-	mg/L		51	60 - 132	8	29
Acenaphthylene	0.0400	0.02178		mg/L		54	54 - 126	8	30
Anthracene	0.0400	0.02808		mg/L		70	43 - 120	13	30
Benzidine	0.0400	0.01785	J *1	mg/L		45	25 - 125	47	30
Benzo[a]anthracene	0.0400	0.03046		mg/L		76	42 - 133	10	30
Benzo[a]pyrene	0.0400	0.02806		mg/L		70	32 - 148	11	30
3,4-Benzofluoranthene	0.0400	0.03180		mg/L		80	42 - 140	15	30
Benzo[g,h,i]perylene	0.0400	0.02974		mg/L		74	13 - 195	8	30
Benzo[k]fluoranthene	0.0400	0.02819		mg/L		70	25 - 146	1	30
Bis(2-chloroethoxy)methane	0.0400	0.01896	*-	mg/L		47	49 - 165	1	30
Bis(2-chloroethyl)ether	0.0400	0.01600	*-	mg/L		40	43 - 126	3	30
Bis(2-ethylhexyl) phthalate	0.0400	0.02848		mg/L		71	29 - 137	13	30
4-Bromophenyl phenyl ether	0.0400	0.02509	*-	mg/L		63	65 - 120	10	26
Butyl benzyl phthalate	0.0400	0.02875		mg/L		72	12 - 140	13	30
4-Chloro-3-methylphenol	0.0400	0.02034		mg/L		51	41 - 128	14	30
2-Chloronaphthalene	0.0400	0.01887	*-	mg/L		47	65 - 120	2	15
2-Chlorophenol	0.0400	0.01494		mg/L		37	36 - 120	2	30
4-Chlorophenyl phenyl ether	0.0400	0.02255		mg/L		56	38 - 145	10	30
Chrysene	0.0400	0.02930		mg/L		73	44 - 140	10	30
Dibenz(a,h)anthracene	0.0400	0.02936		mg/L		73	16 - 200	9	30
3,3'-Dichlorobenzidine	0.0400	0.03142		mg/L		79	18 - 213	13	30
2,4-Dichlorophenol	0.0400	0.01987	*-	mg/L		50	52 - 122	4	30
Diethyl phthalate	0.0400	0.02724		mg/L		68	17 - 120	12	30
2,4-Dimethylphenol	0.0400	0.01729		mg/L		43	42 - 120	6	30
Dimethyl phthalate	0.0400	0.02494		mg/L		62	25 - 120	10	30
Di-n-butyl phthalate	0.0400	0.02843		mg/L		71	8 - 120	14	28
4,6-Dinitro-o-cresol	0.0400	0.02608		mg/L		65	53 - 130	23	30
2,4-Dinitrophenol	0.0400	0.01795	*1	mg/L		45	12 - 173	39	30
2,4-Dinitrotoluene	0.0400	0.02704		mg/L		68	48 - 127	14	25
2,6-Dinitrotoluene	0.0400	0.02479	*-	mg/L		62	68 - 137	13	29
Di-n-octyl phthalate	0.0400	0.02978		mg/L		74	19 - 132	17	30
1,2-Diphenylhydrazine	0.0400	0.02281		mg/L		57	28 - 136	10	30
Fluoranthene	0.0400	0.03217		mg/L		80	43 - 121	14	30
Fluorene	0.0400	0.02250	*-	mg/L		56	70 - 120	9	23
Hexachlorobenzene	0.0400	0.02648		mg/L		66	8 - 142	11	30
Hexachlorobutadiene	0.0400	0.01529		mg/L		38	38 - 120	5	30
Hexachlorocyclopentadiene	0.0400	0.01475	*-	mg/L		37	41 - 125	5	30
Hexachloroethane	0.0400	0.01292	*-	mg/L		32	55 - 120	4	30
Indeno[1,2,3-cd]pyrene	0.0400	0.02880		mg/L		72	13 - 151	8	30
Isophorone	0.0400	0.01959		mg/L		49	47 - 180	4	30
m+p-Cresol	0.0400	0.01126		mg/L		28	14 - 176	5	30

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-113963/3-A

Matrix: Water

Analysis Batch: 114044

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113963

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Naphthalene	0.0400	0.01730		mg/L		43	36 - 120	1	30
Nitrobenzene	0.0400	0.01827	*-	mg/L		46	54 - 158	1	30
4-Nitrophenol	0.0400	0.008061		mg/L		20	13 - 129	21	30
2-Nitrophenol	0.0400	0.01969		mg/L		49	45 - 167	8	30
N-Nitrosodimethylamine	0.0400	0.007143	J *	mg/L		18	20 - 125	0	30
N-Nitrosodi-n-propylamine	0.0400	0.01829		mg/L		46	14 - 198	3	30
N-Nitrosodiphenylamine	0.0400	0.02629		mg/L		66	2 - 196	11	30
o-Cresol	0.0400	0.01268		mg/L		32	14 - 176	5	30
2,2'-oxybis[1-chloropropane]	0.0400	0.01603	*-	mg/L		40	63 - 139	0	30
Pentachlorophenol	0.0400	0.01933		mg/L		48	38 - 152	27	30
Phenanthrene	0.0400	0.02610		mg/L		65	65 - 120	11	30
Phenol	0.0400	0.005130	*-	mg/L		13	17 - 120	8	30
Pyrene	0.0400	0.03052		mg/L		76	70 - 120	9	30
1,2,4,5-Tetrachlorobenzene	0.0400	0.01800		mg/L		45	41 - 125	0	30
1,2,4-Trichlorobenzene	0.0400	0.01643	*-	mg/L		41	57 - 130	2	30
2,4,6-Trichlorophenol	0.0400	0.02233		mg/L		56	52 - 129	14	30
2,4,5-Trichlorophenol	0.0400	0.02368		mg/L		59	35 - 111	15	30
Pyridine	0.0400	0.004986	J	mg/L		12	5 - 94	20	30
Pentachlorobenzene	0.0400	0.02133		mg/L		53	25 - 131	6	30
N-Nitrosodi-n-butylamine	0.0400	0.01807		mg/L		45	33 - 141	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	53		29 - 112
2-Fluorophenol (Surr)	19	S1-	28 - 114
Nitrobenzene-d5 (Surr)	47		15 - 314
Phenol-d5 (Surr)	13		8 - 424
p-Terphenyl-d14 (Surr)	83		20 - 141
2,4,6-Tribromophenol (Surr)	67		31 - 132

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-113167/1-A

Matrix: Water

Analysis Batch: 113174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00000113	U	0.0000100	0.00000113	mg/L		07/20/23 07:48	07/20/23 12:18	1
alpha-BHC	<0.00000142	U	0.0000090	0.0000014	mg/L		07/20/23 07:48	07/20/23 12:18	1
beta-BHC	<0.00000389	U	0.0000180	0.0000038	mg/L		07/20/23 07:48	07/20/23 12:18	1
delta-BHC	<0.00000245	U	0.000250	0.0000024	mg/L		07/20/23 07:48	07/20/23 12:18	1
gamma-BHC (Lindane)	<0.00000299	U	0.0000100	0.0000029	mg/L		07/20/23 07:48	07/20/23 12:18	1
4,4'-DDD	<0.00000081	U	0.0000100	0.0000008	mg/L		07/20/23 07:48	07/20/23 12:18	1
4,4'-DDE	<0.00000109	U	0.0000100	0.0000010	mg/L		07/20/23 07:48	07/20/23 12:18	1

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: MB 860-113167/1-A

Matrix: Water

Analysis Batch: 113174

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.00000379	U	0.0000200	0.00000379	mg/L		07/20/23 07:48	07/20/23 12:18	1
Dieldrin	<0.00000095	U	0.0000100	0.00000095	mg/L		07/20/23 07:48	07/20/23 12:18	1
Endosulfan I	<0.00000107	U	0.0000100	0.00000107	mg/L		07/20/23 07:48	07/20/23 12:18	1
Endosulfan II	<0.00000122	U	0.0000100	0.00000122	mg/L		07/20/23 07:48	07/20/23 12:18	1
Endosulfan sulfate	<0.00000112	U	0.0000100	0.00000112	mg/L		07/20/23 07:48	07/20/23 12:18	1
Endrin	<0.00000156	U	0.0000100	0.00000156	mg/L		07/20/23 07:48	07/20/23 12:18	1
Endrin aldehyde	<0.00000118	U	0.0000100	0.00000118	mg/L		07/20/23 07:48	07/20/23 12:18	1
Heptachlor	<0.00000446	U	0.0000090	0.00000446	mg/L		07/20/23 07:48	07/20/23 12:18	1
Heptachlor epoxide	<0.00000134	U	0.0000100	0.00000134	mg/L		07/20/23 07:48	07/20/23 12:18	1
Toxaphene	<0.0000769	U	0.000200	0.0000769	mg/L		07/20/23 07:48	07/20/23 12:18	1
Chlordane	<0.000103	U	0.000250	0.000103	mg/L		07/20/23 07:48	07/20/23 12:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	128		15 - 136				07/20/23 07:48	07/20/23 12:18	1
Tetrachloro-m-xylene (Surr)	98		18 - 126				07/20/23 07:48	07/20/23 12:18	1

Lab Sample ID: LCS 860-113167/2-A

Matrix: Water

Analysis Batch: 113174

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.000100	0.0001153		mg/L		115	42 - 140
alpha-BHC	0.000100	0.0001115		mg/L		111	37 - 140
beta-BHC	0.000100	0.0001384		mg/L		138	17 - 147
delta-BHC	0.000100	0.00009904	J	mg/L		99	19 - 140
gamma-BHC (Lindane)	0.000100	0.0001148		mg/L		115	34 - 140
4,4'-DDD	0.000100	0.0001344		mg/L		134	31 - 141
4,4'-DDE	0.000100	0.0001226		mg/L		123	30 - 145
4,4'-DDT	0.000100	0.0001347		mg/L		135	25 - 160
Dieldrin	0.000100	0.0001233		mg/L		123	36 - 146
Endosulfan I	0.000100	0.0001252		mg/L		125	45 - 153
Endosulfan II	0.000100	0.0001287		mg/L		129	22 - 171
Endosulfan sulfate	0.000100	0.0001245		mg/L		125	26 - 144
Endrin	0.000100	0.0001267		mg/L		127	30 - 147
Endrin aldehyde	0.000100	0.0001171		mg/L		117	60 - 130
Heptachlor	0.000100	0.0001149		mg/L		115	34 - 140
Heptachlor epoxide	0.000100	0.0001189		mg/L		119	37 - 142
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	131		15 - 136				
Tetrachloro-m-xylene (Surr)	101		18 - 126				

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCSD 860-113167/3-A

Matrix: Water

Analysis Batch: 113174

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.000100	0.0001141		mg/L		114	42 - 140	1	30
alpha-BHC	0.000100	0.0001136		mg/L		114	37 - 140	2	30
beta-BHC	0.000100	0.0001342		mg/L		134	17 - 147	3	30
delta-BHC	0.000100	0.00009733	J	mg/L		97	19 - 140	2	30
gamma-BHC (Lindane)	0.000100	0.0001160		mg/L		116	34 - 140	1	30
4,4'-DDD	0.000100	0.0001296		mg/L		130	31 - 141	4	30
4,4'-DDE	0.000100	0.0001171		mg/L		117	30 - 145	5	30
4,4'-DDT	0.000100	0.0001300		mg/L		130	25 - 160	4	30
Dieldrin	0.000100	0.0001212		mg/L		121	36 - 146	2	30
Endosulfan I	0.000100	0.0001264		mg/L		126	45 - 153	1	30
Endosulfan II	0.000100	0.0001252		mg/L		125	22 - 171	3	30
Endosulfan sulfate	0.000100	0.0001206		mg/L		121	26 - 144	3	30
Endrin	0.000100	0.0001231		mg/L		123	30 - 147	3	30
Endrin aldehyde	0.000100	0.0001145		mg/L		115	60 - 130	2	30
Heptachlor	0.000100	0.0001160		mg/L		116	34 - 140	1	30
Heptachlor epoxide	0.000100	0.0001179		mg/L		118	37 - 142	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	121		15 - 136
Tetrachloro-m-xylene (Surr)	94		18 - 126

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 860-113167/1-A

Matrix: Water

Analysis Batch: 113186

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:25	1
PCB-1221	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:25	1
PCB-1232	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:25	1
PCB-1242	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:25	1
PCB-1248	<0.0000125	U	0.000100	0.0000125	mg/L		07/20/23 07:48	07/20/23 13:25	1
PCB-1254	<0.00000780	U	0.000100	0.0000078	mg/L		07/20/23 07:48	07/20/23 13:25	1
PCB-1260	<0.00000780	U	0.000100	0.0000078	mg/L		07/20/23 07:48	07/20/23 13:25	1
Polychlorinated biphenyls, Total	<0.000100	U	0.000100	0.000100	mg/L		07/20/23 07:48	07/20/23 13:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	80		18 - 126	07/20/23 07:48	07/20/23 13:25	1
DCB Decachlorobiphenyl (Surr)	121		15 - 136	07/20/23 07:48	07/20/23 13:25	1

Lab Sample ID: LCS 860-113167/4-A

Matrix: Water

Analysis Batch: 113186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.00100	0.0007608		mg/L		76	61 - 103

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 860-113167/4-A

Matrix: Water

Analysis Batch: 113186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1260	0.00100	0.0008231		mg/L		82	37 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	84		18 - 126
DCB Decachlorobiphenyl (Surr)	125		15 - 136

Lab Sample ID: LCSD 860-113167/5-A

Matrix: Water

Analysis Batch: 113186

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113167

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.00100	0.0007988		mg/L		80	61 - 103	5	24
PCB-1260	0.00100	0.0008625		mg/L		86	37 - 130	5	28

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	82		18 - 126
DCB Decachlorobiphenyl (Surr)	115		15 - 136

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-113651/1-A

Matrix: Water

Analysis Batch: 114272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113651

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorophene	<0.000811	U	0.00502	0.000811	mg/L		07/23/23 19:55	07/26/23 17:23	1
Silvex (2,4,5-TP)	<0.0000424	U	0.000201	0.0000424	mg/L		07/23/23 19:55	07/26/23 17:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	118		45 - 150	07/23/23 19:55	07/26/23 17:23	1

Lab Sample ID: LCS 860-113651/2-A

Matrix: Water

Analysis Batch: 114272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silvex (2,4,5-TP)	0.00201	0.001916		mg/L		95	55 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	130		45 - 150

Lab Sample ID: LCS 860-113651/4-A

Matrix: Water

Analysis Batch: 114272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorophene	0.00803	0.007690		mg/L		96	60 - 135

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCS 860-113651/4-A

Matrix: Water

Analysis Batch: 114272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113651

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	128		45 - 150

Lab Sample ID: LCSD 860-113651/3-A

Matrix: Water

Analysis Batch: 114272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113651

	Spike	LCSD	LCSD					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Silvex (2,4,5-TP)	0.00202	0.001681		mg/L		83	55 - 140	13	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	111		45 - 150

Lab Sample ID: LCSD 860-113651/5-A

Matrix: Water

Analysis Batch: 114272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113651

	Spike	LCSD	LCSD					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Hexachlorophene	0.00802	0.006777		mg/L		85	60 - 135	13	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2,4-Dichlorophenylacetic acid	112		45 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-112992/49

Matrix: Water

Analysis Batch: 112992

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.250	U	0.500	0.250	mg/L			07/19/23 17:02	1
Fluoride	<0.100	U	0.500	0.100	mg/L			07/19/23 17:02	1
Sulfate	<0.200	U	0.500	0.200	mg/L			07/19/23 17:02	1

Lab Sample ID: LCS 860-112992/50

Matrix: Water

Analysis Batch: 112992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	10.0	9.911		mg/L		99	90 - 110	
Fluoride	10.0	10.30		mg/L		103	90 - 110	
Sulfate	10.0	9.487		mg/L		95	90 - 110	

Lab Sample ID: LCSD 860-112992/51

Matrix: Water

Analysis Batch: 112992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	10.0	9.955		mg/L		100	90 - 110	0	20
Fluoride	10.0	10.31		mg/L		103	90 - 110	0	20

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-112992/51

Matrix: Water

Analysis Batch: 112992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.516		mg/L		95	90 - 110	0	20

Lab Sample ID: LLCS 860-112992/52

Matrix: Water

Analysis Batch: 112992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.4730	J	mg/L		95	50 - 150
Fluoride	0.500	0.3615	J	mg/L		72	50 - 150
Sulfate	0.500	0.4962	J	mg/L		99	50 - 150

Lab Sample ID: MB 860-112993/3

Matrix: Water

Analysis Batch: 112993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			07/19/23 11:05	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			07/19/23 11:05	1
Nitrate Nitrite as N	<0.0391	U	0.100	0.0391	mg/L			07/19/23 11:05	1

Lab Sample ID: MB 860-112993/49

Matrix: Water

Analysis Batch: 112993

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			07/19/23 17:02	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			07/19/23 17:02	1
Nitrate Nitrite as N	<0.0391	U	0.100	0.0391	mg/L			07/19/23 17:02	1

Lab Sample ID: LCS 860-112993/50

Matrix: Water

Analysis Batch: 112993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.11		mg/L		101	80 - 120
Nitrite as N	10.0	9.646		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-112993/51

Matrix: Water

Analysis Batch: 112993

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.13		mg/L		101	80 - 120	0	20
Nitrite as N	10.0	9.714		mg/L		97	80 - 120	1	20

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-112993/6

Matrix: Water

Analysis Batch: 112993

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.06606	J	mg/L		66	50 - 150
Nitrite as N	0.100	0.06965	J	mg/L		70	50 - 150

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-113552/1-A

Matrix: Water

Analysis Batch: 114338

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113552

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		07/22/23 06:44	07/26/23 05:24	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		07/22/23 06:44	07/26/23 05:24	1

Lab Sample ID: LCS 860-113552/2-A

Matrix: Water

Analysis Batch: 114338

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113552

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	113.8		ug/L		114	70 - 130
Diuron	2.00	2.591		ug/L		130	70 - 130

Lab Sample ID: LCSD 860-113552/3-A

Matrix: Water

Analysis Batch: 114338

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113552

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	113.7		ug/L		114	70 - 130	0	20
Diuron	2.00	2.556		ug/L		128	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 860-113539/1-A

Matrix: Water

Analysis Batch: 113641

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 113539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.00301	U	0.0200	0.00301	mg/L		07/21/23 20:53	07/22/23 22:59	1
Antimony	<0.00105	U	0.00200	0.00105	mg/L		07/21/23 20:53	07/22/23 22:59	1
Arsenic	<0.000341	U	0.00400	0.000341	mg/L		07/21/23 20:53	07/22/23 22:59	1
Barium	<0.000289	U	0.00400	0.000289	mg/L		07/21/23 20:53	07/22/23 22:59	1
Beryllium	<0.000148	U	0.00200	0.000148	mg/L		07/21/23 20:53	07/22/23 22:59	1
Cadmium	<0.0000850	U	0.00200	0.0000850	mg/L		07/21/23 20:53	07/22/23 22:59	1
Chromium	<0.000325	U	0.00400	0.000325	mg/L		07/21/23 20:53	07/22/23 22:59	1
Copper	<0.000690	U	0.00400	0.000690	mg/L		07/21/23 20:53	07/22/23 22:59	1
Lead	<0.000140	U	0.00200	0.000140	mg/L		07/21/23 20:53	07/22/23 22:59	1
Nickel	<0.000486	U	0.00200	0.000486	mg/L		07/21/23 20:53	07/22/23 22:59	1
Selenium	<0.000685	U	0.00200	0.000685	mg/L		07/21/23 20:53	07/22/23 22:59	1
Silver	<0.000118	U	0.00200	0.000118	mg/L		07/21/23 20:53	07/22/23 22:59	1
Thallium	<0.0000960	U	0.00200	0.0000960	mg/L		07/21/23 20:53	07/22/23 22:59	1
Zinc	<0.000885	U	0.00400	0.000885	mg/L		07/21/23 20:53	07/22/23 22:59	1

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: LCS 860-113539/2-A

Matrix: Water

Analysis Batch: 113641

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 113539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Aluminum	0.500	0.4639		mg/L		93	85 - 115	
Antimony	0.100	0.08663		mg/L		87	85 - 115	
Arsenic	0.100	0.09080		mg/L		91	85 - 115	
Barium	0.100	0.09239		mg/L		92	85 - 115	
Beryllium	0.100	0.08892		mg/L		89	85 - 115	
Cadmium	0.100	0.09030		mg/L		90	85 - 115	
Chromium	0.100	0.08940		mg/L		89	85 - 115	
Copper	0.100	0.08903		mg/L		89	85 - 115	
Lead	0.100	0.09067		mg/L		91	85 - 115	
Nickel	0.100	0.08997		mg/L		90	85 - 115	
Selenium	0.100	0.08990		mg/L		90	85 - 115	
Silver	0.0500	0.04707		mg/L		94	85 - 115	
Thallium	0.100	0.09046		mg/L		90	85 - 115	
Zinc	0.100	0.09075		mg/L		91	85 - 115	

Lab Sample ID: LCSD 860-113539/3-A

Matrix: Water

Analysis Batch: 113641

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 113539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
							Limits			
Aluminum	0.500	0.4668		mg/L		93	85 - 115		1	20
Antimony	0.100	0.08848		mg/L		88	85 - 115		2	20
Arsenic	0.100	0.09045		mg/L		90	85 - 115		0	20
Barium	0.100	0.09221		mg/L		92	85 - 115		0	20
Beryllium	0.100	0.08999		mg/L		90	85 - 115		1	20
Cadmium	0.100	0.09051		mg/L		91	85 - 115		0	20
Chromium	0.100	0.08896		mg/L		89	85 - 115		0	20
Copper	0.100	0.08889		mg/L		89	85 - 115		0	20
Lead	0.100	0.09083		mg/L		91	85 - 115		0	20
Nickel	0.100	0.08976		mg/L		90	85 - 115		0	20
Selenium	0.100	0.09009		mg/L		90	85 - 115		0	20
Silver	0.0500	0.04692		mg/L		94	85 - 115		0	20
Thallium	0.100	0.09006		mg/L		90	85 - 115		0	20
Zinc	0.100	0.09085		mg/L		91	85 - 115		0	20

Lab Sample ID: LLCS 860-113539/4-A

Matrix: Water

Analysis Batch: 113641

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 113539

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	
							Limits	
Aluminum	0.0200	0.01542	J	mg/L		77	50 - 150	
Antimony	0.00200	0.002278		mg/L		114	50 - 150	
Arsenic	0.00400	0.003612	J	mg/L		90	50 - 150	
Barium	0.00400	0.003627	J	mg/L		91	50 - 150	
Beryllium	0.00200	0.001714	J	mg/L		86	50 - 150	
Cadmium	0.00200	0.001775	J	mg/L		89	50 - 150	
Chromium	0.00400	0.003911	J	mg/L		98	50 - 150	
Copper	0.00400	0.003629	J	mg/L		91	50 - 150	
Lead	0.00200	0.001761	J	mg/L		88	50 - 150	

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LLCS 860-113539/4-A

Matrix: Water

Analysis Batch: 113641

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 113539

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.00200	0.001767	J	mg/L		88	50 - 150
Selenium	0.00200	0.002157		mg/L		108	50 - 150
Silver	0.00200	0.001845	J	mg/L		92	50 - 150
Thallium	0.00200	0.001790	J	mg/L		90	50 - 150
Zinc	0.00400	0.003507	J	mg/L		88	50 - 150

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 860-113872/10-A

Matrix: Water

Analysis Batch: 114081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0000525	U	0.000200	0.0000525	mg/L		07/24/23 20:19	07/25/23 16:06	1

Lab Sample ID: LCS 860-113872/11-A

Matrix: Water

Analysis Batch: 114081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.001939		mg/L		97	85 - 115

Lab Sample ID: LCSD 860-113872/12-A

Matrix: Water

Analysis Batch: 114081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.001924		mg/L		96	85 - 115	1	20

Lab Sample ID: LLCS 860-113872/13-A

Matrix: Water

Analysis Batch: 114081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113872

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.000200	0.0002280		mg/L		114	50 - 150

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 860-113695/1

Matrix: Water

Analysis Batch: 113695

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.57	U	5.00	1.57	mg/L			07/24/23 09:53	1

Lab Sample ID: LCS 860-113695/2

Matrix: Water

Analysis Batch: 113695

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil & Grease)	40.0	35.50		mg/L		89	78 - 114

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: LCSD 860-113695/3

Matrix: Water

Analysis Batch: 113695

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	36.80		mg/L		92	78 - 114	4	18

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 860-113429/30-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0231	U	0.0577	0.0231	mg/L		07/21/23 14:28	07/21/23 20:29	1

Lab Sample ID: MB 860-113429/47-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.00200	U	0.00500	0.00200	mg/L		07/21/23 14:39	07/21/23 21:00	1

Lab Sample ID: MB 860-113429/4-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.00200	U	0.00500	0.00200	mg/L		07/21/23 11:49	07/21/23 19:47	1

Lab Sample ID: LCS 860-113429/48-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.100	0.09726		mg/L		97	90 - 110		

Lab Sample ID: LCS 860-113429/5-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.100	0.09719		mg/L		97	90 - 110		

Lab Sample ID: LCSD 860-113429/32-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1.15	1.140		mg/L		99	90 - 110	0	20

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCSD 860-113429/49-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113429

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	0.100	0.09590		mg/L		96	90 - 110	1	20

Lab Sample ID: LLCS 860-113429/6-A

Matrix: Water

Analysis Batch: 113542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113429

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total	0.00500	0.004437	J	mg/L		89	50 - 150		

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 860-113251/134

Matrix: Water

Analysis Batch: 113251

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.0345	U	0.100	0.0345	mg/L			07/19/23 23:15	1

Lab Sample ID: LCS 860-113251/135

Matrix: Water

Analysis Batch: 113251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia	1.00	1.086		mg/L		109	90 - 110		

Lab Sample ID: LCSD 860-113251/136

Matrix: Water

Analysis Batch: 113251

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	1.00	1.094		mg/L		109	90 - 110	1	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-113822/4-A

Matrix: Water

Analysis Batch: 114070

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113822

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	<0.0890	U	0.200	0.0890	mg/L		07/24/23 16:54	07/25/23 15:22	1

Lab Sample ID: LCS 860-113822/6-A

Matrix: Water

Analysis Batch: 114070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113822

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrogen, Kjeldahl	2.00	1.994		mg/L		100	90 - 110		

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCSD 860-113822/7-A

Matrix: Water

Analysis Batch: 114070

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113822

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	2.00	1.989		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-113822/5-A

Matrix: Water

Analysis Batch: 114070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113822

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	0.200	0.2109		mg/L		105	50 - 150		

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 860-113846/31-A

Matrix: Water

Analysis Batch: 114071

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 113846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Phosphorus as P	<0.00959	U	0.0200	0.00959	mg/L		07/24/23 18:08	07/25/23 15:46	1
Total Phosphorus as PO4	<0.0294	U	0.0613	0.0294	mg/L		07/24/23 18:08	07/25/23 15:46	1

Lab Sample ID: LCS 860-113846/32-A

Matrix: Water

Analysis Batch: 114071

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 113846

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	0.250	0.2486		mg/L		99	90 - 110		
Total Phosphorus as PO4	0.766	0.7622		mg/L		99	90 - 120		

Lab Sample ID: LCSD 860-113846/33-A

Matrix: Water

Analysis Batch: 114071

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 113846

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	0.250	0.2492		mg/L		100	90 - 110	0	20
Total Phosphorus as PO4	0.766	0.7640		mg/L		100	90 - 120	0	20

Lab Sample ID: 820-9303-1 MS

Matrix: Water

Analysis Batch: 114071

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Prep Batch: 113846

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	2.97		0.250	3.124	4	mg/L		62	90 - 110		
Total Phosphorus as PO4	9.11		0.766	9.578	4	mg/L		62	90 - 120		

Lab Sample ID: 820-9303-1 MSD

Matrix: Water

Analysis Batch: 114071

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Prep Batch: 113846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Phosphorus as P	2.97		0.250	3.117	4	mg/L		59	90 - 110	0	20
Total Phosphorus as PO4	9.11		0.766	9.557	4	mg/L		59	90 - 120	0	20

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: 8000 - COD

Lab Sample ID: MB 860-113943/3

Matrix: Water

Analysis Batch: 113943

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<3.36	U	20.0	3.36	mg/L			07/25/23 09:54	1

Lab Sample ID: LCS 860-113943/4

Matrix: Water

Analysis Batch: 113943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	100	104.0		mg/L		104	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-113305/3

Matrix: Water

Analysis Batch: 113305

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			07/20/23 11:33	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/20/23 11:33	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			07/20/23 11:33	1

Lab Sample ID: LCS 860-113305/4

Matrix: Water

Analysis Batch: 113305

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	251.3		mg/L		101	85 - 115

Lab Sample ID: LCSD 860-113305/5

Matrix: Water

Analysis Batch: 113305

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	253.6		mg/L		101	85 - 115	1	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-113430/2

Matrix: Water

Analysis Batch: 113430

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<10.0	U	10.0	10.0	umho/cm @ 25C			07/21/23 12:01	1

Lab Sample ID: LCS 860-113430/3

Matrix: Water

Analysis Batch: 113430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Specific Conductance	1410	1422		umho/cm @ 25C		101	85 - 115

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCSD 860-113430/4

Matrix: Water

Analysis Batch: 113430

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Specific Conductance	1410	1424		umho/cm @ 25C		101	85 - 115	0	20

Lab Sample ID: 820-9303-1 DU

Matrix: Water

Analysis Batch: 113430

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	2080		2082		umho/cm @ 25C		0.1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-113611/1

Matrix: Water

Analysis Batch: 113611

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			07/23/23 09:45	1

Lab Sample ID: LCS 860-113611/2

Matrix: Water

Analysis Batch: 113611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1007		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-113611/3

Matrix: Water

Analysis Batch: 113611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1007		mg/L		101	80 - 120	0	10

Lab Sample ID: LLCS 860-113611/4

Matrix: Water

Analysis Batch: 113611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	<5.00	U	mg/L		90	50 - 150

Lab Sample ID: 820-9303-1 DU

Matrix: Water

Analysis Batch: 113611

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1170		1196		mg/L		2	10

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 860-113947/1

Matrix: Water

Analysis Batch: 113947

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.00	U	4.00	4.00	mg/L			07/25/23 10:18	1

Lab Sample ID: LCS 860-113947/2

Matrix: Water

Analysis Batch: 113947

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	106.0		mg/L		106	80 - 120

Lab Sample ID: LCSD 860-113947/3

Matrix: Water

Analysis Batch: 113947

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	100	107.0		mg/L		107	80 - 120	1	10

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 860-113790/3

Matrix: Water

Analysis Batch: 113790

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	<0.0500	U	0.0500	0.0500	mg/L			07/24/23 13:42	1

Lab Sample ID: LCS 860-113790/4

Matrix: Water

Analysis Batch: 113790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine, Total Residual	0.250	0.2591		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-113790/5

Matrix: Water

Analysis Batch: 113790

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorine, Total Residual	0.250	0.2670		mg/L		107	85 - 115	3	20

Lab Sample ID: 820-9303-1 MS

Matrix: Water

Analysis Batch: 113790

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine, Total Residual	<0.0500	U HF	0.250	0.2591		mg/L		104	90 - 110

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: SM 4500 Cl G - Chlorine, Residual (Continued)

Lab Sample ID: 820-9303-1 MSD

Matrix: Water

Analysis Batch: 113790

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorine, Total Residual	<0.0500	U HF	0.250	0.2591		mg/L		104	90 - 110	0	20

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-114017/3

Matrix: Water

Analysis Batch: 114017

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.0400	U	0.100	0.0400	mg/L			07/25/23 15:32	1

Lab Sample ID: LCS 860-114017/4

Matrix: Water

Analysis Batch: 114017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	1.00	0.9684		mg/L		97	90 - 110

Lab Sample ID: LCSD 860-114017/5

Matrix: Water

Analysis Batch: 114017

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	1.00	0.9699		mg/L		97	90 - 110	0	20

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: SCB 860-113787/2

Matrix: Water

Analysis Batch: 113787

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.7740		0.0000020 0	0.0000020 0	mg/L			07/19/23 13:41	1

Lab Sample ID: USB 860-113787/1

Matrix: Water

Analysis Batch: 113787

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.2650		0.0000020 0	0.0000020 0	mg/L			07/19/23 13:40	1

Lab Sample ID: LCS 860-113787/3

Matrix: Water

Analysis Batch: 113787

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Biochemical Oxygen Demand	198	207.6		mg/L		105	85 - 115

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: SM 5310C - TOC

Lab Sample ID: MB 860-113874/3

Matrix: Water

Analysis Batch: 113874

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.500	U	1.00	0.500	mg/L			07/24/23 11:34	1

Lab Sample ID: LCS 860-113874/4

Matrix: Water

Analysis Batch: 113874

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	5.00	5.232		mg/L		105	90 - 110

Lab Sample ID: LCSD 860-113874/5

Matrix: Water

Analysis Batch: 113874

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	5.00	5.235		mg/L		105	90 - 110	0	20

Lab Sample ID: LLCS 860-113887/16

Matrix: Water

Analysis Batch: 113887

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.00	1.212		mg/L		121	50 - 150

Method: SM3500 CR B - Chromium,Hexavalent

Lab Sample ID: MB 860-113065/3

Matrix: Water

Analysis Batch: 113065

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	<0.00200	U	0.0100	0.00200	mg/L			07/19/23 13:37	1

Lab Sample ID: LCS 860-113065/4

Matrix: Water

Analysis Batch: 113065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	0.200	0.2022		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-113065/5

Matrix: Water

Analysis Batch: 113065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	0.200	0.2035		mg/L		102	80 - 120	1	20

Eurofins Lubbock

QC Sample Results

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method: SM3500 CR B - Chromium,Hexavalent (Continued)

Lab Sample ID: 820-9303-1 MS

Matrix: Water

Analysis Batch: 113065

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	<0.00200	U	0.200	0.1848		mg/L		92	80 - 120

Lab Sample ID: 820-9303-1 MSD

Matrix: Water

Analysis Batch: 113065

Client Sample ID: 4136223 Permit

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	<0.00200	U	0.200	0.1861		mg/L		93	80 - 120	1	20

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: SCB 860-113823/2

Matrix: Water

Analysis Batch: 113823

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	0.9600		0.0000020 0	0.0000020 0	mg/L			07/19/23 17:53	1

Lab Sample ID: USB 860-113823/1

Matrix: Water

Analysis Batch: 113823

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen Demand	0.1700		0.0000020 0	0.0000020 0	mg/L			07/19/23 17:51	1

Lab Sample ID: LCS 860-113823/3

Matrix: Water

Analysis Batch: 113823

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbonaceous Biochemical Oxygen Demand	198	206.7		mg/L		104	85 - 115

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

GC/MS VOA

Analysis Batch: 112934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	624.1	
MB 860-112934/21	Method Blank	Total/NA	Water	624.1	
LCS 860-112934/14	Lab Control Sample	Total/NA	Water	624.1	
LCSD 860-112934/15	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 113963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	625	
MB 860-113963/1-A	Method Blank	Total/NA	Water	625	
LCS 860-113963/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-113963/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 114044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	625.1	113963
MB 860-113963/1-A	Method Blank	Total/NA	Water	625.1	113963
LCS 860-113963/2-A	Lab Control Sample	Total/NA	Water	625.1	113963
LCSD 860-113963/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	113963

Prep Batch: 114275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1 - RE	4136223 Permit	Total/NA	Water	625	
MB 860-114275/1-A	Method Blank	Total/NA	Water	625	
LCS 860-114275/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 860-114275/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 114367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1 - RE	4136223 Permit	Total/NA	Water	625.1	114275
MB 860-114275/1-A	Method Blank	Total/NA	Water	625.1	114275
LCS 860-114275/2-A	Lab Control Sample	Total/NA	Water	625.1	114275
LCSD 860-114275/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	114275

GC Semi VOA

Prep Batch: 113167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	608	
MB 860-113167/1-A	Method Blank	Total/NA	Water	608	
LCS 860-113167/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 860-113167/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 860-113167/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 860-113167/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 113174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	608.3	113167
MB 860-113167/1-A	Method Blank	Total/NA	Water	608.3	113167
LCS 860-113167/2-A	Lab Control Sample	Total/NA	Water	608.3	113167
LCSD 860-113167/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	113167

Eurofins Lubbock

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

GC Semi VOA

Analysis Batch: 113186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	608.3	113167
MB 860-113167/1-A	Method Blank	Total/NA	Water	608.3	113167
LCS 860-113167/4-A	Lab Control Sample	Total/NA	Water	608.3	113167
LCSD 860-113167/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	113167

Prep Batch: 113651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	3511	
MB 860-113651/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-113651/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-113651/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-113651/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-113651/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 114272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	615	113651
MB 860-113651/1-A	Method Blank	Total/NA	Water	615	113651
LCS 860-113651/2-A	Lab Control Sample	Total/NA	Water	615	113651
LCS 860-113651/4-A	Lab Control Sample	Total/NA	Water	615	113651
LCSD 860-113651/3-A	Lab Control Sample Dup	Total/NA	Water	615	113651
LCSD 860-113651/5-A	Lab Control Sample Dup	Total/NA	Water	615	113651

Analysis Batch: 114462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	615	113651

HPLC/IC

Analysis Batch: 112992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	300.0	
MB 860-112992/49	Method Blank	Total/NA	Water	300.0	
LCS 860-112992/50	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112992/51	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112992/52	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 112993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	300.0	
820-9303-1 - DL	4136223 Permit	Total/NA	Water	300.0	
MB 860-112993/3	Method Blank	Total/NA	Water	300.0	
MB 860-112993/49	Method Blank	Total/NA	Water	300.0	
LCS 860-112993/50	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-112993/51	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-112993/6	Lab Control Sample	Total/NA	Water	300.0	

Prep Batch: 113552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	CWA_Prep	
MB 860-113552/1-A	Method Blank	Total/NA	Water	CWA_Prep	

Eurofins Lubbock

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

HPLC/IC (Continued)

Prep Batch: 113552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-113552/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-113552/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 114338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	632	113552
MB 860-113552/1-A	Method Blank	Total/NA	Water	632	113552
LCS 860-113552/2-A	Lab Control Sample	Total/NA	Water	632	113552
LCSD 860-113552/3-A	Lab Control Sample Dup	Total/NA	Water	632	113552

Metals

Prep Batch: 113539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total Recoverable	Water	200.8	
MB 860-113539/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 860-113539/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 860-113539/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 860-113539/4-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 113641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total Recoverable	Water	200.8	113539
MB 860-113539/1-A	Method Blank	Total Recoverable	Water	200.8	113539
LCS 860-113539/2-A	Lab Control Sample	Total Recoverable	Water	200.8	113539
LCSD 860-113539/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	113539
LLCS 860-113539/4-A	Lab Control Sample	Total Recoverable	Water	200.8	113539

Prep Batch: 113872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	245.1	
MB 860-113872/10-A	Method Blank	Total/NA	Water	245.1	
LCS 860-113872/11-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 860-113872/12-A	Lab Control Sample Dup	Total/NA	Water	245.1	
LLCS 860-113872/13-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 114081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	245.1	113872
MB 860-113872/10-A	Method Blank	Total/NA	Water	245.1	113872
LCS 860-113872/11-A	Lab Control Sample	Total/NA	Water	245.1	113872
LCSD 860-113872/12-A	Lab Control Sample Dup	Total/NA	Water	245.1	113872
LLCS 860-113872/13-A	Lab Control Sample	Total/NA	Water	245.1	113872

General Chemistry

Analysis Batch: 113065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM3500 CR B	
MB 860-113065/3	Method Blank	Total/NA	Water	SM3500 CR B	
LCS 860-113065/4	Lab Control Sample	Total/NA	Water	SM3500 CR B	
LCSD 860-113065/5	Lab Control Sample Dup	Total/NA	Water	SM3500 CR B	

Eurofins Lubbock

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

General Chemistry (Continued)

Analysis Batch: 113065 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1 MS	4136223 Permit	Total/NA	Water	SM3500 CR B	
820-9303-1 MSD	4136223 Permit	Total/NA	Water	SM3500 CR B	

Prep Batch: 113078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	BOD Prep	

Prep Batch: 113123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	BOD Prep	

Analysis Batch: 113251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	350.1	
MB 860-113251/134	Method Blank	Total/NA	Water	350.1	
LCS 860-113251/135	Lab Control Sample	Total/NA	Water	350.1	
LCSD 860-113251/136	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 113305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 2320B	
MB 860-113305/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-113305/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-113305/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 113328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 113429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	Distill/CN	
MB 860-113429/30-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-113429/47-A	Method Blank	Total/NA	Water	Distill/CN	
MB 860-113429/4-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 860-113429/48-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCS 860-113429/5-A	Lab Control Sample	Total/NA	Water	Distill/CN	
LCSD 860-113429/32-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LCSD 860-113429/49-A	Lab Control Sample Dup	Total/NA	Water	Distill/CN	
LLCS 860-113429/6-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 113430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 2510B	
MB 860-113430/2	Method Blank	Total/NA	Water	SM 2510B	
LCS 860-113430/3	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 860-113430/4	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
820-9303-1 DU	4136223 Permit	Total/NA	Water	SM 2510B	

Eurofins Lubbock

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

General Chemistry

Analysis Batch: 113542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	335.4	113429
MB 860-113429/30-A	Method Blank	Total/NA	Water	335.4	113429
MB 860-113429/47-A	Method Blank	Total/NA	Water	335.4	113429
MB 860-113429/4-A	Method Blank	Total/NA	Water	335.4	113429
LCS 860-113429/48-A	Lab Control Sample	Total/NA	Water	335.4	113429
LCS 860-113429/5-A	Lab Control Sample	Total/NA	Water	335.4	113429
LCSD 860-113429/32-A	Lab Control Sample Dup	Total/NA	Water	335.4	113429
LCSD 860-113429/49-A	Lab Control Sample Dup	Total/NA	Water	335.4	113429
LLCS 860-113429/6-A	Lab Control Sample	Total/NA	Water	335.4	113429

Analysis Batch: 113611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 2540C	
MB 860-113611/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-113611/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-113611/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-113611/4	Lab Control Sample	Total/NA	Water	SM 2540C	
820-9303-1 DU	4136223 Permit	Total/NA	Water	SM 2540C	

Analysis Batch: 113695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	1664B	
MB 860-113695/1	Method Blank	Total/NA	Water	1664B	
LCS 860-113695/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 860-113695/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 113787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 5210B	113078
SCB 860-113787/2	Method Blank	Total/NA	Water	SM 5210B	
USB 860-113787/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 860-113787/3	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 113790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 4500 CI G	
MB 860-113790/3	Method Blank	Total/NA	Water	SM 4500 CI G	
LCS 860-113790/4	Lab Control Sample	Total/NA	Water	SM 4500 CI G	
LCSD 860-113790/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 CI G	
820-9303-1 MS	4136223 Permit	Total/NA	Water	SM 4500 CI G	
820-9303-1 MSD	4136223 Permit	Total/NA	Water	SM 4500 CI G	

Prep Batch: 113822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	351.2	
MB 860-113822/4-A	Method Blank	Total/NA	Water	351.2	
LCS 860-113822/6-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 860-113822/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	
LLCS 860-113822/5-A	Lab Control Sample	Total/NA	Water	351.2	

Eurofins Lubbock

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

General Chemistry

Analysis Batch: 113823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM5210B CBOD	113123
SCB 860-113823/2	Method Blank	Total/NA	Water	SM5210B CBOD	
USB 860-113823/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 860-113823/3	Lab Control Sample	Total/NA	Water	SM5210B CBOD	

Prep Batch: 113846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	365.2/365.3/365	
MB 860-113846/31-A	Method Blank	Total/NA	Water	365.2/365.3/365	
LCS 860-113846/32-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 860-113846/33-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
820-9303-1 MS	4136223 Permit	Total/NA	Water	365.2/365.3/365	
820-9303-1 MSD	4136223 Permit	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 113874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 5310C	
MB 860-113874/3	Method Blank	Total/NA	Water	SM 5310C	
LCS 860-113874/4	Lab Control Sample	Total/NA	Water	SM 5310C	
LCSD 860-113874/5	Lab Control Sample Dup	Total/NA	Water	SM 5310C	

Analysis Batch: 113887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-113887/16	Lab Control Sample	Total/NA	Water	SM 5310C	

Analysis Batch: 113943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	8000	
MB 860-113943/3	Method Blank	Total/NA	Water	8000	
LCS 860-113943/4	Lab Control Sample	Total/NA	Water	8000	

Analysis Batch: 113947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 2540D	
MB 860-113947/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 860-113947/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 860-113947/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Analysis Batch: 113972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	360.1	

Analysis Batch: 114017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 4500 S2 D	
MB 860-114017/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-114017/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-114017/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Eurofins Lubbock

QC Association Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

General Chemistry

Analysis Batch: 114059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 114070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	351.2	113822
MB 860-113822/4-A	Method Blank	Total/NA	Water	351.2	113822
LCS 860-113822/6-A	Lab Control Sample	Total/NA	Water	351.2	113822
LCSD 860-113822/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	113822
LLCS 860-113822/5-A	Lab Control Sample	Total/NA	Water	351.2	113822

Analysis Batch: 114071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	365.1	113846
MB 860-113846/31-A	Method Blank	Total/NA	Water	365.1	113846
LCS 860-113846/32-A	Lab Control Sample	Total/NA	Water	365.1	113846
LCSD 860-113846/33-A	Lab Control Sample Dup	Total/NA	Water	365.1	113846
820-9303-1 MS	4136223 Permit	Total/NA	Water	365.1	113846
820-9303-1 MSD	4136223 Permit	Total/NA	Water	365.1	113846

Analysis Batch: 114179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	Nitrogen,Org	

Analysis Batch: 114830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	Total Nitrogen	

Biology

Analysis Batch: 1840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-9303-1	4136223 Permit	Total/NA	Water	9223B	

Lab Chronicle

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	112934	07/19/23 19:37	TTD	EET HOU
Total/NA	Prep	625			1000 mL	1.00 mL	113963	07/25/23 10:28	DR	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	114044	07/26/23 00:36	PXS	EET HOU
Total/NA	Prep	625	RE		1000 mL	1.00 mL	114275	07/26/23 14:35	DR	EET HOU
Total/NA	Analysis	625.1	RE	1	1 mL	1 mL	114367	07/27/23 14:51	LPL	EET HOU
Total/NA	Prep	608			1000 mL	1.00 mL	113167	07/20/23 07:48	DR	EET HOU
Total/NA	Analysis	608.3		1			113186	07/20/23 13:59	WP	EET HOU
Total/NA	Prep	608			1000 mL	1.00 mL	113167	07/20/23 07:48	DR	EET HOU
Total/NA	Analysis	608.3		1			113174	07/20/23 15:28	WP	EET HOU
Total/NA	Prep	3511			49.8 mL	4 mL	113651	07/23/23 19:55	JN	EET HOU
Total/NA	Analysis	615		1			114272	07/26/23 19:41	WP	EET HOU
Total/NA	Prep	3511			49.8 mL	4 mL	113651	07/23/23 19:55	JN	EET HOU
Total/NA	Analysis	615		1			114462	07/27/23 19:12	WP	EET HOU
Total/NA	Analysis	300.0		1			112992	07/19/23 19:25	WP	EET HOU
Total/NA	Analysis	300.0		1			112993	07/19/23 19:25	WP	EET HOU
Total/NA	Analysis	300.0	DL	10			112993	07/19/23 19:33	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	113552	07/22/23 06:44	DR	EET HOU
Total/NA	Analysis	632		1			114338	07/26/23 08:09	AA	EET HOU
Total Recoverable	Prep	200.8			50 mL	50 mL	113539	07/21/23 20:53	AGR	EET HOU
Total Recoverable	Analysis	200.8		1			113641	07/22/23 23:57	DP	EET HOU
Total/NA	Prep	245.1			50 mL	50 mL	113872	07/24/23 20:20	AGR	EET HOU
Total/NA	Analysis	245.1		1			114081	07/25/23 16:30	SHZ	EET HOU
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	113695	07/24/23 09:53	JCM	EET HOU
Total/NA	Prep	Distill/CN			6 mL	6 mL	113429	07/21/23 11:49	CL	EET HOU
Total/NA	Analysis	335.4		1			113542	07/21/23 20:22	CL	EET HOU
Total/NA	Analysis	350.1		1	10 mL	10 mL	113251	07/19/23 23:41	ADL	EET HOU
Total/NA	Prep	351.2			20 mL	20 mL	113822	07/24/23 16:54	LD	EET HOU
Total/NA	Analysis	351.2		1			114070	07/25/23 15:28	AA	EET HOU
Total/NA	Analysis	360.1		1			113972	07/25/23 10:59	HN	EET HOU
Total/NA	Prep	365.2/365.3/365			10 mL	10 mL	113846	07/24/23 18:08	LD	EET HOU
Total/NA	Analysis	365.1		3.06			114071	07/25/23 16:13	AA	EET HOU
Total/NA	Analysis	8000		1	2 mL	2 mL	113943	07/25/23 10:00	HN	EET HOU
Total/NA	Analysis	Nitrogen.Org		1			114179	07/26/23 10:27	MC	EET HOU
Total/NA	Analysis	SM 2320B		1			113305	07/20/23 12:24	TL	EET HOU
Total/NA	Analysis	SM 2510B		1			113430	07/21/23 12:01	TL	EET HOU
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	113611	07/23/23 09:45	OH	EET HOU
Total/NA	Analysis	SM 2540D		1	500 mL	1000 mL	113947	07/25/23 10:18	OH	EET HOU
Total/NA	Analysis	SM 3500 CR B		1			114059	07/25/23 15:38	MC	EET HOU
Total/NA	Analysis	SM 4500 CI G		1	10 mL	10 mL	113790	07/24/23 13:42	SCI	EET HOU
Total/NA	Analysis	SM 4500 H+ B		1			113328	07/20/23 17:46	TL	EET HOU
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	114017	07/25/23 15:32	SCI	EET HOU

Eurofins Lubbock

Lab Chronicle

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Client Sample ID: 4136223 Permit

Lab Sample ID: 820-9303-1

Date Collected: 07/18/23 09:30

Matrix: Water

Date Received: 07/18/23 11:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	BOD Prep					113078	07/19/23 13:00	ALL	EET HOU
Total/NA	Analysis	SM 5210B		1	280 mL	300 mL	113787	07/19/23 15:23	HN	EET HOU
Total/NA	Analysis	SM 5310C		1	40 mL	40 mL	113874	07/24/23 12:20	YG	EET HOU
Total/NA	Analysis	SM3500 CR B		1	25 mL	25 mL	113065	07/19/23 13:37	TL	EET HOU
Total/NA	Prep	BOD Prep					113123	07/19/23 16:08	ALL	EET HOU
Total/NA	Analysis	SM5210B CBOD		1	280 mL	300 mL	113823	07/19/23 18:22	HN	EET HOU
Total/NA	Analysis	Total Nitrogen		1			114830	07/30/23 15:28	MC	EET HOU
Total/NA	Analysis	9223B		1	100 mL	100 mL	1840	07/18/23 16:14	LT	EET LUB

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET LUB = Eurofins Lubbock, 6701 Aberdeen Ave., Suite 8, Lubbock, TX 79424, TEL (806)794-1296

Accreditation/Certification Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Laboratory: Eurofins Lubbock

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704219-23-29	03-03-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
9223B		Water	Coliform, Total

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
365.1	365.2/365.3/365	Water	Total Phosphorus as PO4
608.3	608	Water	Polychlorinated biphenyls, Total
615	3511	Water	Hexachlorophene
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,3-Dichloropropene, Total
624.1		Water	Hexachlorobutadiene
624.1		Water	Naphthalene
624.1		Water	Trihalomethanes, Total
625.1	625	Water	Hexachlorophene
625.1	625	Water	m+p-Cresol
632	CWA_Prep	Water	Diuron
Nitrogen,Org		Water	Nitrogen, Organic
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 3500 CR B		Water	Cr (III)
SM 4500 H+ B		Water	Temperature
Total Nitrogen		Water	Nitrogen, Total

Method Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET HOU
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET HOU
608.3	Organochlorine Pesticides in Water	EPA	EET HOU
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET HOU
615	Herbicides (GC)	EPA-01	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
200.8	Metals (ICP/MS)	EPA	EET HOU
245.1	Mercury (CVAA)	EPA	EET HOU
1664B	HEM and SGT-HEM	1664B	EET HOU
335.4	Cyanide, Total	EPA	EET HOU
350.1	Nitrogen, Ammonia	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
360.1	Oxygen, Dissolved	EPA	EET HOU
365.1	Phosphorus, Total	EPA	EET HOU
8000	COD	Hach	EET HOU
Nitrogen,Org	Nitrogen, Organic	EPA	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 2540D	Solids, Total Suspended (TSS)	SM	EET HOU
SM 3500 CR B	Chromium, Trivalent	SM	EET HOU
SM 4500 Cl G	Chlorine, Residual	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
SM 5210B	BOD, 5-Day	SM	EET HOU
SM 5310C	TOC	SM	EET HOU
SM3500 CR B	Chromium,Hexavalent	SM	EET HOU
SM5210B CBOD	Carbonaceous BOD, 5 Day	SM	EET HOU
Total Nitrogen	Nitrogen, Total	EPA	EET HOU
9223B	Coliforms, Total, and E.Coli (Colilert - Quanti Tray)	SM	EET LUB
200.8	Preparation, Total Recoverable Metals	EPA	EET HOU
245.1	Preparation, Mercury	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
365.2/365.3/365	Phosphorus, Total	EPA	EET HOU
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
625	Liquid-Liquid Extraction	EPA	EET HOU
BOD Prep	Preparation, BOD	SM	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
Distill/CN	Distillation, Cyanide	None	EET HOU

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

Hach = Hach Company

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Eurofins Lubbock

Method Summary

Client: Parkhill Smith & Cooper Inc.

Job ID: 820-9303-1

Project/Site: TPDES Permit Application Renewal

Method	Method Description	Protocol	Laboratory
Laboratory References:			
	EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200		
	EET LUB = Eurofins Lubbock, 6701 Aberdeen Ave., Suite 8, Lubbock, TX 79424, TEL (806)794-1296		

Sample Summary

Client: Parkhill Smith & Cooper Inc.
Project/Site: TPDES Permit Application Renewal

Job ID: 820-9303-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-9303-1	4136223 Permit	Water	07/18/23 09:30	07/18/23 11:50

1

2

3

4

5

6

7

8

9

10

11

12

13

14

9303

ins

Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199



820-9303 Chain of Custody

[illegible]

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Login Sample Receipt Checklist

Client: Parkhill Smith & Cooper Inc.

Job Number: 820-9303-1

Login Number: 9303

List Source: Eurofins Lubbock

List Number: 1

Creator: Triplett, Colby

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Parkhill Smith & Cooper Inc.

Job Number: 820-9303-1

Login Number: 9303

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 07/19/23 12:50 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Candice Calhoun

From: Paul Krueger <PKrueger@Parkhill.com>
Sent: Wednesday, June 19, 2024 5:11 PM
To: Candice Calhoun; directorofutilities@ci.lamesa.tx.us
Cc: jhines@ci.lamesa.tx.us; Marshall Belcher
Subject: RE: Application to Renew Permit No. WQ0010107001; City of Lamesa
Attachments: Lamesa WWTP_NOD1 Response.pdf; WQ0010107001_PLS.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Good Afternoon Ms. Calhoun,

Please find our attached response to your NOD letter. As requested, a Microsoft Word version of the Plain Language Summary is also attached to this email. Thank you for your assistance with this renewal application and please feel free to contact me if you have any questions or need additional information.

Thank you,

Paul Krueger, PE
Civil Engineer

Parkhill
806.473.3715 | Parkhill.com

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, June 6, 2024 5:19 PM
To: directorofutilities@ci.lamesa.tx.us
Cc: Paul Krueger <PKrueger@Parkhill.com>
Subject: Application to Renew Permit No. WQ0010107001; City of Lamesa
Importance: High

Good afternoon, Mr. Ojeda,

The attached Notice of Deficiency (NOD) letter dated June 6, 2024, requests additional information needed to declare the application administratively complete. Please send complete response by June 21, 2024.

Please let me know if you have any questions.

Regards,



Candice Calhoun
Texas Commission on Environmental
Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

Candice Calhoun

From: Joe Hines <jhines@ci.lamesa.tx.us>
Sent: Wednesday, June 19, 2024 4:27 PM
To: Candice Calhoun; Paul Krueger; Ernest Ogeda
Subject: RE: Application to Renew Permit No. WQ0010107001; City of Lamesa
Attachments: Section 14 signed and notarized 6-19-24.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Will this work?

Thank you,

Joe Hines
City Manager
City of Lamesa, Tx
806-872-4321 Office

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Wednesday, June 19, 2024 8:51 AM
To: Joe Hines <jhines@ci.lamesa.tx.us>; Paul Krueger <PKrueger@Parkhill.com>; Ernest Ogeda <directorofutilities@ci.lamesa.tx.us>
Subject: RE: Application to Renew Permit No. WQ0010107001; City of Lamesa
Importance: High

Good morning,

I was able to locate the signature page, in the original, hard copy, of the application. However, the signature page was not notarized. Please provide a signed and notarized signature page for the application. The person who signs the signature page will need to match the individual listed in Section 3, item A, of the Administrative Report 1.0. The signature page does not need to be mailed in, you can send it via email, to me.

The signature page, that we received, has been attached to this email.

Regards,



Candice Calhoun
Texas Commission on Environmental
Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

Candice Calhoun

From: Ernest Ogeda <directorofutilities@ci.lamesa.tx.us>
Sent: Monday, June 17, 2024 5:17 PM
To: Candice Calhoun
Cc: Dionicio Garza, Jr.
Subject: Application to Renew Permit No. WQ0010107001; City of Lamesa
Attachments: Municipal TPDES and TLAP PLS Form.docx

Follow Up Flag: Follow up
Flag Status: Completed

June 19, 2024

Ms. Candice Calhoun
Texas Commission of Environmental Quality
Applications Review and Processing Team (MC-148)
Water Quality Division
P.O. Box 13087
Austin, TX 78711-3087

Re: Application to Renew Permit No.: WQ0010107001 (EPA I.D. No. TX0129011)
Applicant Name: City of Lamesa (CN600632400)
Site Name: City of Lamesa WWTP (RN101918977)
Type of Application: Renewal

Dear Ms. Calhoun

We have received the Notice of Deficiency letter on the above referenced application in your e-mail dated June 6, 2024. Our response is provided below.

1. Comment: Administrative Report, 1.0 Section 14 – The signature page was inadvertently left blank. Please provide an e-copy of the signed, dated, and notarized signature page.

Response: An e-copy has been attached to this response under Attachment 1.

2. Comment: Core Data Form, Section III, item 25-28 – The description to the physical location provided differs from the description listed in the current permit. Please provide an updated core data form to show the correct description to the physical location. The description must include the distance in feet or miles from road intersections.

Response: An updated Core Data Form has been attached to this response under Attachment 2.

3. Comment: Core Data Form, Section V – The signature and date for the Authorized Signature was inadvertently left blank. Please provide an updated core data form with a signature and date for the Authorized Signature.

Response: An updated Core Data Form has been attached to this response under Attachment 2.

4. Comment: Plain Language Summary (PLS) – The Site Name and the RN number provided on the English plain language summary (PLS) was inadvertently incorrect. The facility location will also need to be updated, per item 2 of this letter. Please provide an updated PLS by using the Plain Language Summary (PLS) Template attached to this letter. Please provide the PLS in a Microsoft Word Document.

Response: An updated PLS has been provided in Attachment 3. A Microsoft Word Document version will also be sent via email.

5. 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 Lamesa, 601 South 1st Street, Lamesa, Texas 79331, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge

Elimination System (TPDES) Permit No. WQ0010107001 (EPA I.D. No. TX0129011) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located **approximately 2,600 feet east-northeast of the intersection of County Road 20 and State Highway 137**, near the City of Lamesa, in Dawson County, Texas 79331. The discharge route is from the plant site via pipe to Sulphur Springs Draw; thence following the route, in specified order, Natural Dam Lake, Sulphur Springs Draw, Beals Creek, and Colorado River below Lake J.B. Thomas. TCEQ received this application on June 3, 2024. The permit application will be available for viewing and copying at Lamesa City Hall, 601 South 1st Street, Lamesa, Dawson County, Texas. Prior to the date, this notice was 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/pendingpermits/tpdes-applications>.

This link to an electronic map of the site, or facility's general location, is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application at <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-101.946111,32.711944&level=18>.

Response: All information above is correct and the updated facility location has been provided.

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

By 
Paul Krueger, PE
Civil Engineer

PSK/mb/pp
Enclosures

Section 14 Signature Page
Core Data Form
Plain Language Summary (PLS)

Attachment 1

Signature Page

Section 14. Signature Page (Instructions Page 39)

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

Permit Number: WQ0010107001

Applicant: City of Lamesa

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): Josh Stevens

Signatory title: Mayor

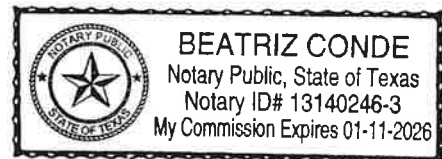
Signature:  Date: 6/19/2024
(Use blue ink)

Subscribed and Sworn to before me by the said Josh Stevens (Mayor)
on this 19th day of June, 2024.
My commission expires on the 11th day of January, 2026.


Notary Public

Dawson
County, Texas

[SEAL]



Attachment 2

Updated 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 Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☒ Renewal (Core Data Form should be submitted with the renewal form)		☐ Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600632400		RN 101918977

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)							
☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership									
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)									
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)			<i>If new Customer, enter previous Customer below:</i>						
City of Lamesa									
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)						
11. Type of Customer:		☐ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited					
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship		☐ Other:					
12. Number of Employees			13. Independently Owned and Operated?						
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher			☐ Yes ☒ No						
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following									
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:									
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant									
15. Mailing Address:	601 S. 1 st Street								
	City	Lamesa	State	TX	ZIP	79331	ZIP + 4		
16. Country Mailing Information (if outside USA)					17. E-Mail Address (if applicable)				
					directorofutilities@ci.lamesa.tx.us				

18. Telephone Number (806) 872-2124	19. Extension or Code	20. Fax Number (if applicable) () -
---	------------------------------	--

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If "New Regulated Entity" is selected, a new permit application is also required.) ☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information							
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>							
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.) City of Lamesa Wastewater Treatment Plant							
23. Street Address of the Regulated Entity: (No PO Boxes)							
	City		State		ZIP		ZIP + 4
24. County	Dawson						

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

25. Description to Physical Location:		Located approximately 2600 ft east-northeast of the intersection of County Road 20 and State Highway 137, in Dawson County, Texas.					
26. Nearest City					State		Nearest ZIP Code
Lamesa					TX		79331
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>							
27. Latitude (N) In Decimal:		32.7119			28. Longitude (W) In Decimal:		-101.94611
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds		
32	42	43	-101	56	46		
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)	
4952				221320			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) Wastewater Treatment for the City of Lam							
34. Mailing Address:		601 S. 1 st Street					
	City	Lamesa	State	TX	ZIP	79331	ZIP + 4
35. E-Mail Address:		directorofutilities@ci.lamesa.tx.us					
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)	
(806) 872-4327						(806) 872-4338	

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

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:
	WQ0010107001			

SECTION IV: Preparer Information

40. Name:	Paul Krueger, P.E.		41. Title:	Civil Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address	
(806) 473-2200		() -	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 Lamesa	Job Title:	Utilities Director	
Name (In Print):	Ernest Ojeda	Phone:	(806) 872- 2124	
Signature:			Date:	06/10/2024

Attachment 3

Updated PLS



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS 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 Lamesa (CN600632400) operates City of Lamesa Wastewater Treatment Plant (RN101918977), an activated sludge treatment process using the extended aeration mode. The facility is located at approximately 2,600 feet east-northeast of the intersection of County Road 20 and State Highway 137, in Lamesa, Dawson County, Texas 79331. Application is being submitted for a standard renewal without changes. <<For TLAP applications include the following sentence, otherwise delete:>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain CBOD, TSS, and Ammonia Nitrogen. Domestic wastewater is treated by activated sludge process using the extended aeration mode. Treatment units include a screen, vortex grit removal, carousel aeration basin, 2 final clarifiers, and UV disinfection.



TPDES PERMIT NO.
WQ0010107001
*[For TCEQ office use only - EPA I.D.
No. TX0129011]*

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

This is a renewal that replaces TPDES
Permit No. WQ0010107001 issued on
April 13, 2015.

PERMIT TO DISCHARGE WASTES

under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City of Lamesa

whose mailing address is

601 South 1st Street
Lamesa, Texas 79331

is authorized to treat and discharge wastes from the City of Lamesa Wastewater Treatment
Plant, SIC Code 4952

located approximately 2,600 feet east-northeast of the intersection of County Road 20 and State
Highway 137, in Dawson County, Texas 79331

via pipe to Sulphur Springs Draw, thence to Natural Dam Lake, thence to Sulphur Springs Draw,
thence to Beals Creek, thence to the Colorado River Below Lake J.B. Thomas in Segment No.
1412 of the Colorado River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth
in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ),
the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does
not grant to the permittee the right to use private or public property for conveyance of
wastewater along the discharge route described in this permit. This includes, but is not limited
to, property belonging to any individual, partnership, corporation, or other entity. Neither does
this permit authorize any invasion of personal rights nor any violation of federal, state, or local
laws or regulations. It is the responsibility of the permittee to acquire property rights as may be
necessary to use the discharge route.

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

ISSUED DATE: **December 6, 2019**

A handwritten signature in black ink, appearing to read "T. G. Baker".

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSOutfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

The annual average flow of effluent shall not exceed 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,819 gallons per minute.

Effluent Characteristic	Discharge Limitations			Min. Self-Monitoring Requirements		
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (167)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (250)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (50)	6	10	15	Two/week	Composite
Total Aluminum	Report (Report)	N/A	Report	N/A	One/week	Composite
<i>E. coli</i> , CFU or MPN per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 4.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 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. 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 one million gallons per day or greater permitted flow.
- b. 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.
- c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.
- d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.
- e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.
- f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

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.
- d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

- e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the n th root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.
 - f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).
 - g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), 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 that have not been classified as hazardous waste separated from wastewater by unit processes.
- 6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided 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 and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Compliance Monitoring Team of the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Clean Water Act (CWA); TWC §§ 26, 27, and 28; and THSC § 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 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 § 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 use and disposal activities, which shall be retained for a period

of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) 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, application or certification. 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 the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

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 Compliance Monitoring Team of 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 Compliance Monitoring Team of the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective September 1, 2020, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. 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 that exceeds any effluent limitation in the permit.
 - iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES 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 Compliance Monitoring Team of 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 Compliance Monitoring Team of the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.
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 Compliance Monitoring Team of 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 µg/L);
 - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/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 µg/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).

11. All POTWs must provide adequate notice to the Executive Director of the following:

- a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;
- b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and
- c. For the purpose of this paragraph, adequate notice shall include information on:
 - i. The quality and quantity of effluent introduced into the POTW; and
 - ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

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 that 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 TWC§ 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 Other Requirements section of this permit.
- h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.
- i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 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) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 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 TWC § 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 to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or
 - iii. 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 TWC § 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.
- f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or

prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

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 that requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Relationship to Water Rights

Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

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

9. 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.

10. 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.

11. 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 and the permit number(s);
 - ii. the bankruptcy court in which the petition for bankruptcy was filed; and
 - iii. 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 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 TWC § 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 required for TPDES permit applications, effluent data, including effluent data in permits, draft permits and permit applications, and other 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 that 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% 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% 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% 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 judgment 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. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.
11. Facilities that 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 221) 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 Registration 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 § 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.

- 12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

TCEQ Revision 08/2008

SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge 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 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 Sewage Sludge. This provision does not authorize the permittee to land apply sludge on property owned, leased or under the direct control of the permittee.**

SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge 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.
2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge 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 to assure compliance with these regulations.
3. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

B. Testing Requirements

1. Sewage sludge shall be tested annually 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 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 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 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 7) 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. This annual report shall be submitted to the TCEQ Regional Office (MC Region 7) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

TABLE 1

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

* 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 pathogen requirements.

- a. For sewage sludge to be classified as Class A 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:

Alternative 1 - 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)(2)(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 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:

Alternative 2 - 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

Alternative 4 - 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 sewage sludge may be classified a Class A sewage sludge 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 criteria for sewage sludge.

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).

Alternative 2 - 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.

Alternative 3 - 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 sludge is land applied:

- i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on 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 sewage sludge when the sewage sludge remains 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 sewage sludge.
- v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
- vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge 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 sewage sludge.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.

ix. Land application of sludge 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.

Alternative 1 - 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 sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -

- i. Sewage sludge 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 sewage sludge that is incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test - annually
PCBs - annually

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):

<u>Amount of sewage sludge (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
0 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 sewage sludge 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 treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and de-gritting), 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, or sewage sludge for disposal at a mono-fill) 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 CLASS B 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 Class 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

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

Table 3

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

*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 pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk sewage sludge 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 enters a wetland or other waters in the State.
2. Bulk sewage sludge not meeting Class A 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 sewage sludge 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 sewage sludge sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the sewage sludge 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 sewage sludge 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 sewage sludge is 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 sewage sludge is 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 sewage sludge 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 sewage sludge.
2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

E. Record keeping Requirements

The sludge 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 sewage sludge 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 five years. 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 sludge, 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 sewage sludge is 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 sewage sludge or a sewage sludge 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 indefinitely. 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 treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which sludge is applied.
 - c. The number of acres in each site on which bulk sludge is applied.
 - d. The date and time sludge is 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 to the TCEQ Regional Office (MC Region 7) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year the following information. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and de-gritting), 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 mono-fill) 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 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 disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge 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 sludge, 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 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 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 sewage sludge is applied.
 - c. The date and time bulk sewage sludge is applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk sewage sludge applied to each site.
 - e. The amount of sewage sludge (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
DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL**

- A. The permittee shall handle and dispose of sewage sludge 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 meets 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 and supplies that sewage sludge to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.
- D. Sewage sludge shall be tested annually 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 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 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 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 7) 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 7) and the Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30 of each year.

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

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

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

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

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 7) and Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and de-gritting), 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 production in dry tons/year.
4. Amount of sludge disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge transported interstate in dry tons/year.
6. A certification that the sewage sludge 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 TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING

These provisions apply to sludge that is transported to another wastewater treatment facility or facility that further processes sludge. These provisions are intended to allow transport of sludge to facilities that have been authorized to accept sludge. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge, 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 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 may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:
 - a. the amount of sludge 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.
2. For sludge 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 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 the following information annually to the TCEQ Regional Office (MC Region 7) and Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 30th of each year. Effective September 1, 2020, the permittee must submit this annual report using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

1. Identify in the following categories (as applicable) the sewage sludge treatment process or processes at the facility: preliminary operations (e.g., sludge grinding and de-gritting), 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 production;
3. the amount of sludge transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

TCEQ Revision 01/2016

OTHER REQUIREMENTS

1. 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 B facility must be operated by a chief operator or an operator holding a Category B 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 that 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.

2. The facility is not located in the Coastal Management Program boundary.
3. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.
4. The permittee shall comply with the requirements of 30 TAC § 309.13 (a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
5. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, daily may be reduced to 5/week. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule, if necessary, to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:
 - a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;
 - b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;
 - c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;
 - d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
 - e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;
 - f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;
 - g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and
 - h. Any trucked or hauled pollutants except at discharge points designated by the POTW.
2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [rev. *Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].
3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:
 - a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and
 - b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Any notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised July 2007

BIOMONITORING REQUIREMENTS**48-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER**

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. **Scope, Frequency, and Methodology**

- a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival of the test organisms.
- b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute static renewal 48-hour definitive toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.
 - 2) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and submit a valid test for each test species during the required reporting period for that species. A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution. A repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.
- d. This permit may be amended to require a WET limit, a chemical-specific limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. Testing Frequency Reduction

- 1) If none of the first four consecutive quarterly tests demonstrates significant lethal effects, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.
- 2) If one or more of the first four consecutive quarterly tests demonstrates significant lethal effects, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant lethal effects, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fails to meet any of the following criteria:

- 1) a control mean survival of 90% or greater; and
- 2) a coefficient of variation percent (CV%) of 40 or less for both the control and critical dilution. However, if significant lethality is demonstrated, a CV% greater than 40 shall not invalidate the test. The CV% requirement does not apply when significant lethality occurs.

b. Statistical Interpretation

- 1) For the water flea and fathead minnow tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.
- 2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test results are interpreted and reported correctly. The document entitled "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.
- 3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 90% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.
- 4) The NOEC is defined as the greatest effluent dilution at which no significant lethality is demonstrated. The Lowest Observed Effect

Concentration (LOEC) is defined as the lowest effluent dilution at which significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference the survival of the test organism in a specified effluent dilution when compared to the survival of the test organism in the control.

- 5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.
- 6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 2 will be used when making a determination of test acceptability.
- 7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

- 1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:
 - a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or
 - b) use the closest downstream perennial water unaffected by the discharge.
- 2) Where the receiving water proves unsatisfactory as a result of preexisting instream toxicity (i.e. fails to fulfill the test acceptance criteria Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:
 - a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;
 - b) the test indicating receiving water toxicity was carried out to completion; and

- c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.
- 3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.
- d. Samples and Composites
 - 1) The permittee shall collect a minimum of two composite samples from Outfall 001. The second composite sample will be used for the renewal of the dilution concentrations for each toxicity test.
 - 2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for the subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b for every valid and invalid toxicity test initiated, whether carried to completion or not.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

- 1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.
 - 2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.
 - 4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.
- c. Enter the following codes for the appropriate parameters for valid tests only:
- 1) For the water flea, Parameter TEM3D, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For the water flea, Parameter TOM3D, report the NOEC for survival.
 - 3) For the water flea, Parameter TXM3D, report the LOEC for survival.
 - 4) For the fathead minnow, Parameter TEM6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 5) For the fathead minnow, Parameter TOM6C, report the NOEC for survival.
 - 6) For the fathead minnow, Parameter TXM6C, report the LOEC for survival.
- d. Enter the following codes for retests only:
- 1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."
 - 2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply only when a toxicity test demonstrates significant lethality. Significant lethality was defined in Part 2.b.

- a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates significant lethality. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.
- c. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:
 - 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

- 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:
- 1) results and interpretation of any chemical specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply

as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.
- h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

Date Time Date Time

Dates and Times No. 1 FROM: _____ TO: _____

Composites No. 2 FROM: _____ TO: _____

Collected

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	32%	42%	56%	75%	100%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

*Coefficient of Variation = Standard Deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (100%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

- 1) NOEC survival = _____ % effluent
- 2) LOEC survival = _____ % effluent

TABLE 1 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

Date Time Date Time

Dates and Times No. 1 FROM: _____ TO: _____

Composites No. 2 FROM: _____ TO: _____

Collected

Test initiated: _____ am/pm _____ date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	32%	42%	56%	75%	100%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

* Coefficient of Variation = standard deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (100%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____ % effluent

2) LOEC survival = _____ % effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

- a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.
- b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:
 - 1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.
 - 2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

- c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.
- e. As the dilution series specified in the 48-Hour Acute Biomonitoring Requirements includes a 100% effluent concentration, the results from those tests may fulfill the requirements of this section; any tests performed in the proper time interval may be substituted. Compliance will be evaluated as specified in Part 1.a. The 50% survival in 100% effluent for a 24-hour period standard applies to all tests utilizing a 100% effluent dilution, regardless of whether the results are submitted to comply with the minimum testing frequency.

2. Required Toxicity Testing Conditions

- a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.
- b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.
- c. Samples and Composites
 - 1) The permittee shall collect one composite sample from Outfall 001.
 - 2) The permittee shall collect the composite sample such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.
 - 3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The sample shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.
 - 4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.
 - 5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

- a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.
- b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.
 - 1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.
 - 2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, and October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

- c. Enter the following codes for the appropriate parameters for valid tests only:
 - 1) For the water flea, Parameter TIE3D, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
 - 2) For the fathead minnow, Parameter TIE6C, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
- d. Enter the following codes for retests only:
 - 1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."
 - 2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

- a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50%, and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.
- b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

- a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.
- b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to

a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

- 1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;
 - 2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;
 - 3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and
 - 4) Project Organization - The TRE Action Plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.
- c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.
- d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE Activities Reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

- 1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;
 - 2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;
 - 3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;
 - 4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;
 - 5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and
 - 6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.
- e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.
- f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

- g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant

an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in Part 5.h. The report shall also specify a corrective action schedule for implementing the selected control mechanism.

- h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

- i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementing corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.
- j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN*						

Enter percent effluent corresponding to the LC₅₀ below:

24-hour LC₅₀ = _____% effluent

TABLE 2 (SHEET 2 OF 2)
FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24-hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010107001, EPA I.D. No. TX0129011, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: City of Lamesa
601 South 1st Street
Lamesa, Texas 79331

Prepared By: Sonia Bhuiya
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-1205

Date: June 16, 2025

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2.0 million gallons per day (MGD). The existing wastewater treatment facility serves the City of Lamesa.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located approximately 2,600 feet east-northeast of the intersection of County Road 20 and State Highway 137, in Dawson County, Texas 79331.

Outfall Location:

Outfall Number	Latitude	Longitude
001	32.713573 N	101.943213 W

The treated effluent is discharged via pipe to Sulphur Springs Draw, thence to Natural Dam Lake, thence to Sulphur Springs Draw, thence to Beals Creek, thence to the Colorado River Below Lake J.B. Thomas in Segment No. 1412 of the Colorado River Basin. The unclassified receiving water use is minimal aquatic life use for Sulphur Springs Draw. The designated uses for Segment No. 1412 are primary contact recreation

and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of Lamesa Wastewater Treatment Facility (WWTF) is an activated sludge process plant operated in the extended aeration mode. Treatment units include a barscreen, a fine screen, a vortex removal unit, a carousel aeration basin, a final clarifier, a belt filter press, and an ultraviolet light (UV) disinfection chamber. 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 Lamesa Landfill, Permit No. 517A, in Dawson 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.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The City of Lamesa WWTF does not appear to receive significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period May 2019 through May 2025. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and total Aluminum. The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

<u>Parameter</u>	<u>Average of Daily Avg</u>
Flow, MGD	1.24
CBOD ₅ , mg/l	3.81
TSS, mg/l	4.0
NH ₃ -N, mg/l	0.18
<i>E. coli</i> , CFU or MPN per 100 ml	1
Total Aluminum, mg/l	0.14

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 3,819 gallons per minute.

City of Lamesa TPDES Permit No. WQ0010107001
Fact Sheet and Executive Director's Preliminary Decision

<u>Parameter</u>	<u>30-Day Average</u>		<u>7-Day</u>	<u>Daily</u>
	<u>mg/l</u>	<u>lbs/day</u>	<u>Average</u> <u>mg/l</u>	<u>Maximum</u> <u>mg/l</u>
CBOD ₅	10	167	15	25
TSS	15	250	25	40
NH ₃ -N	3	50	6	10
Total Aluminum	Report	Report	N/A	Report
DO (minimum)	4.0	N/A	N/A	N/A
<i>E. coli</i> , CFU or MPN/100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The permittee shall utilize a UV system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

<u>Parameter</u>	<u>Monitoring Requirement</u>
Flow, MGD	Continuous
CBOD ₅	Two/week
TSS	Two/week
NH ₃ -N	Two/week
Total Aluminum	One/week
DO	Two/week
<i>E. coli</i>	Daily

B. SEWAGE SLUDGE REQUIREMENTS

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 Lamesa Landfill, Permit No. 517A, in Dawson 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.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*]. The permit includes specific requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

- (1) The draft permit includes 48-hour acute freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 32%, 42%, 56%, 75%, and 100%. The low-flow effluent concentration (critical dilution) is defined as 100% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.
 - (a) Acute static renewal 48-hour definitive toxicity tests using the water flea (*Daphnia pulex*) or (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
 - (b) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.
- (2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months:
 - (a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).
 - (b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to via pipe to Sulphur Springs Draw, thence to Natural Dam Lake, thence to Sulphur Springs Draw, thence to Beals Creek, thence to the Colorado River Below Lake J.B. Thomas in Segment No. 1412 of the Colorado River Basin. The unclassified receiving water use is minimal aquatic life use for Sulphur Springs Draw. The designated uses for Segment No. 1412 are primary contact recreation and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment 1412 is currently listed on the State's inventory of impaired and threatened waters (2022 CWA § 303(d) list). The listing is specifically for elevated bacteria levels from the confluence of Beals Creek upstream to the dam below Barber Reservoir pump station (Assessment Unit [AU] 1412_02). Beals Creek is also listed on the 2022 303(d) list for elevated bacteria levels from the confluence of Guthrie Draw upstream to the

confluence of Mustang Draw and Sulphur Springs Draw (AU 1412B_03). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. To ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been continued in the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 1170 mg/l total dissolved solids (TDS), 197 mg/l sulfate, and 391 mg/l chloride present in the effluent. The segment criteria for Segment No. 1412 are 9210 mg/l for TDS, 1570 mg/l for sulfate, and 4,740 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate. See Attachment A of this Fact Sheet.

One finalized Total Maximum Daily Load (TMDL) Project is applicable to Segment 1412: *Two Total Maximum Daily Loads for Total Dissolved Solids and Sulfate in E.V. Spence Reservoir for Segment 1411* (Project No. 4). However, this discharge is located outside the scope of the TMDL project.

On June 14, 2002, the report *Two Total Maximum Daily Loads for Total Dissolved Solids and Sulfate in E.V. Spence Reservoir* was adopted with revisions by the TNRC, predecessor to the TCEQ. The Environmental Protection EPA) approved the TMDL on May 9, 2003. Wastewater treatment plants were not determined to be significant contributors of TDS or sulfate to the reservoir. The need for effluent limits or monitoring of these constituents is assessed using routine procedures. Effluent data provided in the application for sulfate, TDS, and chloride was screened in accordance with the *Procedures to Implement the Texas Surface Water Quality Standards*, June 2010. The draft permit does not include effluent limits or monitoring requirements for sulfate, TDS, or chloride based on this screening.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The existing effluent limits have been reviewed for consistency with the State of Texas Water Quality Management Plan (WQMP). The existing

limits are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the *Procedures to Implement the Texas Surface Water Quality Standards*, (IP) (June 2010) is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

There is no mixing zone or zone of initial dilution for this discharge directly to an intermittent stream; acute freshwater criteria apply at the end of pipe. Chronic freshwater criteria do not apply to discharges to intermittent streams where there is no perennial waterbody within three miles downstream from the point of discharge. The following critical effluent percentage is being used:

Acute Effluent %: 100%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded.

From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and

a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12).

Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and TSS according to the segment-specific values contained in the TCEQ guidance document *Procedures to Implement the Texas Surface Water Quality Standards*. The segment values are 514 mg/l for hardness (as calcium carbonate), 1700 mg/l chlorides, 7.6 standard units for pH, and 14 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

The discharge point is located at a distance greater than three miles upstream of perennial waters. Human health screening is not applicable because of the distance between the discharge point and perennial waters that support fisheries.

(b) PERMIT ACTION

None.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1412, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

(b) PERMIT ACTION

None.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes 48-hour acute freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twenty-two 48-hour acute tests, with zero demonstrations of significant toxicity (i.e., zero failures).

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of 48-hour acute WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made, and WET limits are not required. Both test species are eligible for the testing frequency reduction.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to

be the result of the permittee's discharge to the receiving stream or water body.

(6) **WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)**

(a) **SCREENING**

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed ten 24-hour acute tests, with zero demonstrations of significant lethality (i.e., zero failures).

(b) **PERMIT ACTION**

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

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

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

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

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person

is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

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

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

For additional information about this application, contact Sonia Bhuiya at (512) 239-1205.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010107001 issued on December 6, 2019.

B. APPLICATION

Application received on June 3, 2024, and additional information received on June 26, 2025.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the

U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 1 - Discharge to an Intermittent Stream

Applicant Name:	City of Lamesa
Permit Number, Outfall:	10107-001
Segment Number:	001

Enter values needed for screening:			Data Source (edit if different)
TDS CC - segment criterion - TDS	20000	mg/L	2010 TSWQS, Appendix A
Cl CC - segment criterion - chloride	11000	mg/L	2010 TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	2500	mg/L	2010 TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	1170	mg/L	Permit application
Cl CE - average effluent concentration - chloride	391	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	197	mg/L	Permit application

TDS Screening

The TDS screening value is determined by first calculating an initial TDS concentration, C_{TDS} , as follows:

$$C_{TDS} = (TDS\ CC / 500\ mg/L) * 2,500\ mg/L$$

Where:

- C_{TDS} = TDS concentration used to determine C_{sv} screening value
- TDS CC = TDS criterion at the first downstream segment
- 500 mg/L = the median TDS concentration in Texas streams
- 2,500 mg/L = the minimum TDS screening value

$$C_{TDS} = 100000\ mg/L$$

The next step is to use the initial C_{TDS} to set the actual TDS screening value, C_{sv} , using the following table:

If C_{TDS}		Then TDS C_{sv}
$\leq 2,500\ mg/L$	=	2,500 mg/L
$> 2,500\ mg/L$ but $\leq 6,000\ mg/L$	=	C_{TDS}
$> 6,000\ mg/L$	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (C_{sv}):

Specific Type of Intermittent Stream	If C _{TDS} is	Default C _{sv} =
Dry except for short-term flow in immediate response to rainfall.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C _{TDS}
Constructed ditch conveying stormwater and wastewater, considered water in the state.	< 4,000 mg/L	4,000 mg/L
	≥ 4,000 mg/L	C _{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS C_{sv} is established, the next step is to compare the effluent TDS concentration, TDS CE, to the screening value. Control measures, which may include effluent limitations, are considered for TDS if the effluent TDS is greater than the screening value.

Values needed for Screening	Data Source
TDS CE - average effluent TDS concentration	1170 mg/L Permit application
TDS C _{sv} - TDS screening value	6000 mg/L Determined above

No control measures needed if: 1170 ≤ 6000
Consider control measures if: 1170 > 6000

No control measures needed for TDS

Chloride Screening

If TDS limits are necessary or there are concerns about chloride, additional screening can be performed for chloride. First calculate the screening value for chloride, Cl C_{sv}, as follows:

$$\text{Cl C}_{sv} = (\text{TDS C}_{sv} / \text{TDS CC}) * \text{Cl CC}$$

Where:
Cl C_{sv} = chloride screening value
TDS C_{sv} = TDS screening value
TDS CC = TDS criterion at the first downstream segment
Cl CC = chloride criterion at the first downstream segment

Cl C_{sv} = 3300 mg/L

Once the Cl C_{sv} is established, the next step is to compare the effluent chloride concentration, Cl CE, to the screening value. Control measures, which may include effluent limitations, are considered for chloride if the effluent chloride is greater than the screening value.

Values needed for Screening			Data Source
Cl CE - average effluent chloride concentration	391	mg/L	Permit application
Cl Csv - chloride screening value	3300	mg/L	Determined above

No control measures needed if: 391 ≤ 3300
Consider control measures if: 391 > 3300

No control measures needed for chloride

Sulfate Screening

If TDS limits are necessary or there are concerns about sulfate, additional screening can be performed for sulfate. First calculate the screening value for sulfate, SO₄ Csv, as follows:

$$\text{SO}_4 \text{ Csv} = (\text{TDS Csv} / \text{TDS CC}) * \text{SO}_4 \text{ CC}$$

Where:
SO₄ Csv = sulfate screening value
TDS Csv = TDS screening value
TDS CC = TDS criterion at the first downstream segment
SO₄ CC = sulfate criterion at the first downstream segment

SO₄ Csv = 750 mg/L

Once the SO₄ Csv is established, the next step is to compare the effluent sulfate concentration, SO₄ CE, to the screening value. Control measures, which may include effluent limitations, are considered for sulfate if the effluent sulfate is greater than the screening value.

Values needed for Screening			Data Source
SO ₄ CE - average effluent sulfate concentration	197	mg/L	Permit application
SO ₄ Csv - sulfate screening value	750	mg/L	Determined above

No control measures needed if: 197 ≤ 750
Consider control measures if: 197 > 750

No control measures needed for sulfate

City of Lamesa TPDES Permit No. WQ0010107001
Fact Sheet and Executive Director's Preliminary Decision

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTTOX MENU #1 - INTERMITTENT STREAM

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life

"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Lamesa
TPDES Permit No:	WQ0010107001
Outfall No:	001
Prepared By:	Sonia Bhuiya
Date:	June 16, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Sulphur Springs Draw
Segment No:	1412
TSS (mg/L):	14
pH (Standard Units):	7.6
Hardness (mg/L as CaCO ₃):	514
Chloride (mg/L):	1700
Effluent Flow for Aquatic Life (MGD):	
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Acute Aquatic Life:	100

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

<i>Stream/River Metal</i>	<i>Intercept (b)</i>	<i>Slope (m)</i>	<i>Partition Coefficient (Kp)</i>	<i>Dissolved Fraction (Cd/Ct)</i>	<i>Source</i>	<i>Water Effect Ratio (WER)</i>	<i>Source</i>
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	69715.05	0.506		1.00	Assumed
Cadmium	6.60	-1.13	201778.70	0.261		1.00	Assumed
Chromium (total)	6.52	-0.93	284512.22	0.201		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	284512.22	0.201		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	148547.47	0.325		1.00	Assumed
Lead	6.45	-0.80	341269.57	0.173		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	108819.57	0.396		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	158302.63	0.311		1.00	Assumed
Zinc	6.10	-0.70	198477.09	0.265		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	3.00	1.72	2.52	5.34
Aluminum	991	991	568	834	1765
Arsenic	340	672	385	565	1197
Cadmium	42.0389	161	92.1	135	286
Carbaryl	2.0	2.00	1.15	1.68	3.56

City of Lamesa TPDES Permit No. WQ0010107001
Fact Sheet and Executive Director's Preliminary Decision

Chlordane	2.4	2.40	1.38	2.02	4.27
Chlorpyrifos	0.083	0.0830	0.0476	0.0699	0.147
Chromium (trivalent)	2177.576	10851	6218	9140	19337
Chromium (hexavalent)	15.7	15.7	9.00	13.2	27.9
Copper	66.40689	205	117	172	364
Cyanide (free)	45.8	45.8	26.2	38.5	81.6
4,4'-DDT	1.1	1.10	0.630	0.926	1.96
Demeton	N/A	N/A	N/A	N/A	N/A
Diazinon	0.17	0.170	0.0974	0.143	0.302
Dicofol [Kelthane]	59.3	59.3	34.0	49.9	105
Dieldrin	0.24	0.240	0.138	0.202	0.427
Diuron	210	210	120	176	374
Endosulfan I (<i>alpha</i>)	0.22	0.220	0.126	0.185	0.392
Endosulfan II (<i>beta</i>)	0.22	0.220	0.126	0.185	0.392
Endosulfan sulfate	0.22	0.220	0.126	0.185	0.392
Endrin	0.086	0.0860	0.0493	0.0724	0.153
Guthion [Azinphos Methyl]	N/A	N/A	N/A	N/A	N/A
Heptachlor	0.52	0.520	0.298	0.438	0.926
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	1.13	0.645	0.948	2.00
Lead	362.4845	2094	1200	1764	3732
Malathion	N/A	N/A	N/A	N/A	N/A
Mercury	2.4	2.40	1.38	2.02	4.27
Methoxychlor	N/A	N/A	N/A	N/A	N/A
Mirex	N/A	N/A	N/A	N/A	N/A
Nickel	1870.421	4720	2705	3975	8411
Nonylphenol	28	28.0	16.0	23.5	49.8
Parathion (ethyl)	0.065	0.0650	0.0372	0.0547	0.115
Pentachlorophenol	15.94268	15.9	9.14	13.4	28.4
Phenanthrene	30	30.0	17.2	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	2.00	1.15	1.68	3.56
Selenium	20	20.0	11.5	16.8	35.6
Silver	0.8	28.6	16.4	24.1	51.0
Toxaphene	0.78	0.780	0.447	0.657	1.38
Tributyltin [TBT]	0.13	0.130	0.0745	0.109	0.231
2,4,5 Trichlorophenol	136	136	77.9	114	242
Zinc	469.0879	1773	1016	1493	3158

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

	70% of Daily Avg. (µg/L)	85% of Daily Avg. (µg/L)
Aquatic Life		
Parameter	(µg/L)	(µg/L)
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	396	481
Cadmium	94.8	115
Carbaryl	1.17	1.43
Chlordane	1.41	1.71
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	6398	7769
Chromium (hexavalent)	9.25	11.2
Copper	120	146

City of Lamesa TPDES Permit No. WQ0010107001
Fact Sheet and Executive Director's Preliminary Decision

Cyanide (free)	27.0	32.7
4,4'-DDT	0.648	0.787
Demeton	N/A	N/A
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.141	0.171
Diuron	123	150
Endosulfan I (<i>alpha</i>)	0.129	0.157
Endosulfan II (<i>beta</i>)	0.129	0.157
Endosulfan sulfate	0.129	0.157
Endrin	0.0507	0.0615
Guthion [Azinphos Methyl]	N/A	N/A
Heptachlor	0.306	0.372
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.663	0.806
Lead	1234	1499
Malathion	N/A	N/A
Mercury	1.41	1.71
Methoxychlor	N/A	N/A
Mirex	N/A	N/A
Nickel	2782	3379
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	9.40	11.4
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	1.17	1.43
Selenium	11.7	14.3
Silver	16.8	20.5
Toxaphene	0.459	0.558
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	1045	1269