Technical Package Cover Page

This file contains the following documents:

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

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's 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 blanks below to describe your facility and application. 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 Texas Administrative Code §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

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.

Mauriceville Municipal Utility District (CN600634885) operates the MMUD Waste Water Treatment Plant (RN102286952). The facility is located at 8100 Zavalla Road, which is west of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, near the city of Orange, in Orange County, Texas 77626.

This application is for a renewal to discharge at annual average flow of 1.7 million gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical

Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include bar screen, facultative lagoon, free water surface constructed wetlands, with proposed chlorine contact chamber, and de-chlorination basin where effluent is then discharge at outfall.

INSTRUCTIONS

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

Examples

Example 1: Domestic Wastewater TPDES Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 2: TPDES New Application

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

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: TLAP Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0013839001

APPLICATION. Mauriceville Municipal Utility District, P.O. Box 1000, Mauriceville, Texas 77626, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0013839001 (EPA I.D. No. TX0114839) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 1,700,000 gallons per day. The domestic wastewater treatment facility is located at 8100 Zavalla Road, near the city of Orange, in Orange County, Texas 77626. The discharge route is from the plant site to an unnamed ditch; thence to County Line Relief Ditch; thence to Sabine River Above Tidal. TCEQ received this application on February 17, 2025. The permit application will be available for viewing and copying at Mauriceville MUD Office, Front Desk, 15509 Farm-to-Market Road 1442, Orange, in Orange 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=-93.814722,30.230277&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.**

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 Mauriceville Municipal Utility District at the address stated above or by calling Mr. Brad Haeggquist, General Manager, at 409-745-4882.

Issuance Date: March 7, 2025

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0013839001

APPLICATION AND PRELIMINARY DECISION. Mauriceville Municipal Utility District, P.O. Box 1000, Mauriceville, Texas 77626, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0013839001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 1,700,000 gallons per day. TCEQ received this application on February 17, 2025.

The facility is located at 8100 Zavalla Road, in Orange County, Texas 77626. The treated effluent is discharged to an unnamed ditch, thence to County Line Relief Ditch, thence to Sabine River Above Tidal in Segment No. 0502 of the Sabine River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and for the County Line Relief Ditch upnstream of Hwy 87, and limited aquatic life use for the County Line Relief Ditch downstream of Hwy 87. The designated uses for Segment No. 0502 are primary contact recreation, public water supply, 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=-93.814722,30.230277&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 Mauriceville MUD Office, Front Desk, 15509 Farm-to-Market Road 1442, Orange, in Orange County. 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.

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 Mauriceville Municipal Utility District at the address stated above or by calling Mr. Brad Haeggquist, General Manager, at 409-745-4882.

Issuance Date: July 25, 2025

TPDES PERMIT NO.
WQ0013839001
[For TCEQ office use only - EPA I.D. No. TX0114839]

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

This is a renewal that replaces TPDES Permit No. WQ0013839001 issued on August 20, 2020.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

Mauriceville Municipal Utility District

whose mailing address is

P.O. Box 1000
Mauriceville, Texas 77626

is authorized to treat and discharge wastes from the Mauriceville Wastewater Treatment Facility, SIC Code 4952

located at 8100 Zavalla Road, in Orange County, Texas 77626

to an unnamed ditch, thence to County Line Relief Ditch, thence to Sabine River Above Tidal in Segment No. 0502 of the Sabine 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:

For the Commission

INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 1.70 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The daily average flow of effluent shall not exceed 0.95 million gallons per day MGD.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	20 (158)	30	45	65	One/week	Composite
Total Suspended Solids	45 (357)	135	N/A	N/A	One/week	Composite
Ammonia Nitrogen						
March - November	4 (32)	5	7	15	One/week	Composite
December – February	Report (Report)	N/A	Report	N/A	One/week	Composite
Total Dissolved Solids	Report (Report)	N/A	Report	N/A	One/week	Composite
Sulfates	Report (Report)	N/A	Report	N/A	One/ week	Composite
Total Chlorides	Report (Report)	N/A	Report	N/A	One/ week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on daily average flow) and shall be monitored daily by grab sample. 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 twice per month 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 5.0 mg/l and shall be monitored once per week by grab sample.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 1.70 million gallons per day (MGD) facility 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 1.70 MGD.

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)						
June- September	12 (170)	30	45	65	Two/week	Composite
October- May	20 (284)	30	45	65	Two/week	Composite
Total Suspended Solids	45 (638)	135	N/A	N/A	Two/week	Composite
Ammonia Nitrogen	4 (57)	5	7	15	Two/week	Composite
Total Dissolved Solids	Report (Report)	N/A	Report	N/A	Two/week	Composite
Sulfates	Report (Report)	N/A	Report	N/A	Two/week	Composite
Total Chlorides	Report (Report)	N/A	Report	N/A	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on daily average flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. 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 5.0 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 nth 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. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING 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 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 or biosolids 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 Enforcement

Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. 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. 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 Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. 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 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;

ii. the permit number(s);

iii. the bankruptcy court in which the petition for bankruptcy was filed; and

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30

TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under 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 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

    d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and 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.

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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 or biosolids by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized with the TCEQ. This provision does not authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does not authorize the permittee to land apply biosolids on property owned, leased or under the direct control of the permittee.**

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

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge 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 land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested prior to sludge disposal in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 10) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 10) and the Enforcement Division (MC 224).

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

TABLE 1

Pollutant	Ceiling Concentration (Milligrams per kilogram)*
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 biosolids pathogen requirements.

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

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)(3)(A) for specific information;

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

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

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

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 biosolids may be classified a Class A biosolids if a variance request is submitted in writing that is supported by substantial documentation demonstrating equivalent methods for reducing odors and written approval is granted by the executive director. The executive director may deny the variance request or revoke that approved variance if it is determined that the variance may potentially endanger human health or the environment, or create nuisance odor conditions.

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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 biosolids are land applied:

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain 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 biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

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

4. Vector Attraction Reduction Requirements

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

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. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids 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	- prior to sludge disposal
PCBs	- prior to sludge disposal

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

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
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 biosolids applied to the land (dry wt. basis).*

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

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

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

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

SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE OR BIOSOLIDS FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or 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 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

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

Table 3

Pollutant	Monthly Average Concentration (milligrams per kilogram)*
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 biosolids pathogen reduction requirements as defined above in Section I.B.3.

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids 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 biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

   a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

   b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

   c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

   a. The location, by street address, and specific latitude and longitude, of each land application site.

   b. The approximate time period bulk biosolids will be applied to the site.

   c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

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

period of 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 biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative 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 biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 10) and the Enforcement Division (MC 224).

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

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

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

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

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.

D. Sewage sludge or biosolids shall be tested prior to sludge disposal in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 10) 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 10) and the Enforcement Division (MC 224), by September 30 of each year.

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

F. Record Keeping Requirements

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

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

2. The description (including procedures followed and results) of all TCLP tests performed.

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

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 10) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 10) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

TCEQ Revision 06/2020

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.

   For the Final phase this Category B facility must be operated by a chief operator or an operator holding a Class B license or higher. In the Interim phase the Category C facility must be operated by a chief operator or an operator holding a Class C 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. The permittee shall design the constructed wetlands system to optimize suspended and floatable solids removal.

4. There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

5. The permittee has submitted an Operation & Maintenance (O & M) Manual to the Wastewater Permits Section (MC 148) which includes the following on July 10, 2025:

   a. plant harvesting schedule;
   b. planting and replanting schedule;
   c. demonstrate how the decayed plants will be removed from the cells;
   d. how the system will be designed when the elevation in the cells changes;
   e. vector control within the cells;
   f. how the system will handle or prevent floating solids entering into the wetland cells;
   g. operating plan.

6. The permittee shall initiate minimum monitoring requirements within 45 days of initial discharge from the treatment plant. Monitoring shall be done for the following parameters according to the schedule below:

   a. Grab sample at splitter box between the facultative lagoon and the wetland cells.
   b. Composite sample from the outflow from each operational wetland cell. The sample for each operational wetland cell shall be from the combined flow from the outlet structures within that individual wetland cell. Wetland cells not in operation at the time of sampling do not require monitoring.

Parameters	Sample locations (in the wetland cells)	Sampling Frequency
CBOD5	outflow(s)	One/week
TSS	outflow(s)	One/week
Temperature	outflow(s)	One/week
Dissolved Oxygen	outflow(s)	One/week
pH	outflow(s)	One/week
Conductivity	Inflow(s) and outflow(s)	One/week
SO4-2	Inflow(s) and outflow(s)	One/week
Flow	Inflow(s) and outflow(s)	One/day
Rainfall	Adjacent to wetland	One/day
Plant cover for dominant species	Inflow(s) and outflow(s)	One/year

The results of these water analyses shall be sent to the Texas Commission on Environmental Quality Region 10 Office and the Enforcement Division (MC 224) during the month of September of each year.

7. **Within 60 days of permit issuance,** the permittee shall submit sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The evidence of legal restrictions shall be submitted to the Executive Director in care of the TCEQ Wastewater Permitting Section (MC 148). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). See Attachment A.

   This provision is continued from the permit issued on December 10, 2015 and August 20, 2020, and which has not been complied with to date.

8. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

9. Constructed wetlands facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of lining are acceptable.

   A. Soil liner requirements:

      1. All placed clay or in-situ soils used for basin liners shall be certified by adequate geotechnical test results. For all in-situ soils, the design engineer shall present adequate soil borings information which ensures the homogeneousness of the selected soil. Placed clay or in-situ soils shall have a measured permeability of less than 10^{-7} cm/sec. and/or the following characteristics:

         a. more than 30% passing a #200 mesh sieve
         b. liquid limit greater than 30%
         c. plasticity index greater than 15
         d. no clods larger than two (2) inches
         e. minimum compacted thickness of two feet for placed clay liners and four feet for in-situ soils

      2. All placed clay liners shall be installed according to the following criteria. However, when using in-situ soils for the required liner, only the upper six inches should be

reworked as follows:

a. maximum loose lift of eight inches, six inches compacted
b. minimum compaction effort of 95 percent Standard Proctor (ASTM D-698)
c. liners shall be keyed into the existing in-situ soils

B. Synthetic liner requirements:

All synthetic liners shall have a minimum thickness of 30 mils and contain underdrain leak detection which shall consist of leachate collection and detection systems. Proper installation of the materials mentioned in subparagraph (a) of this requirement shall be described in the project's specifications. The liner material shall be resistant to or protected from ultra-violet (UV) light degradation.

C. An alternate method of pond lining may be utilized with prior approval from the Executive Director.

The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed lining meets the appropriate criteria above. The certification shall be sent to the TCEQ Regional Office (MC Region 10) and the Enforcement Division (MC 224).

10. 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, one/week may be reduced to two/month in the Interim and Final phases. **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.

11. Prior to the construction of the Final phase treatment facilities, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary transmittal letter in accordance with the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications, and a final engineering design report which comply with 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the effluent limitations required on Pages 2b and 2c of this permit.

The plans and specifications of the chlorination system for the 0.95 MGD facility were approved on March 11, 2015 (Log No. 0215/095).

12. Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of pond lining are acceptable.

    a. In-situ clay soils or placed and compacted clay soils meeting the following requirements:

        l) More than 30% passing a No. 200 mesh sieve
        2) Liquid limit greater than 30%
        3) Plasticity index greater than 15
        4) A minimum thickness of 2 feet
        5) Permeability equal to or less than $1x10^{-7}$ cm/sec (*)
        6) Soil compaction will be 95% standard proctor at optimum moisture content (*)

        (*) For new and/or modified ponds only.

    b. Membrane lining with a minimum thickness of 20 mils, and an underdrain leak detection system.

    c. An alternate method of pond lining may be utilized with prior approval from the Executive Director.

    The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above. The certification shall be sent to the TCEQ Regional Office (MC Region 10) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division.

13. The permittee shall notify the TCEQ Regional Office (MC Region 10), and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to the completion of the Final phase facility, on Notification of Completion Form 20007.

14. The following items shall be considered as a part of the wetland design criteria.

    a. Algal mat removal. Provisions shall be made for algal mat removal from primary treated effluent prior to entering into the wetland units. These provisions may include bar screens, adjustable inlets, baffles, and other methods as approved by the commission.

    b. The permittee must comply with the following configuration standards:

        (A) Multiple units. The treatment system shall be divided into multiple units that can be operated separately. Each unit shall have the ability to be completely drained.

        (B) Length to width ratio. The units shall be designed to operate as plug flow channels. A proper length to width ratio to achieve this condition should be considered in the design of each system.

        (C) Switching capability. The design shall allow for each unit to be taken out of service at any time and its flows routed to another unit. The treatment system must be capable of treating the daily average flow with the largest unit out of service.

        (D) Wind protection. All free water surface (FWS) systems shall be situated so as to minimize the adverse effects of the prevailing winds.

15. The total dissolved solids, sulfates and total chloride reporting requirements at Outfall 001 will expire at the expiration of this permit. The reported values will be evaluated, and the reporting requirements may be reinstated or an effluent limit added at the next permit action.

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. Within 90 days of initial discharge of the 1.70 MGD facility, 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

Dates and Times Composites Collected — Date Time / Date Time

No. 1 FROM: _____ TO:_____

No. 2 FROM: _____ TO:_____

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

Dates and Times Composites Collected — Date Time / Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO:_____

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. Within 90 days of initial discharge of the 1.70 MGD facility, 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 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Ttesting 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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

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		

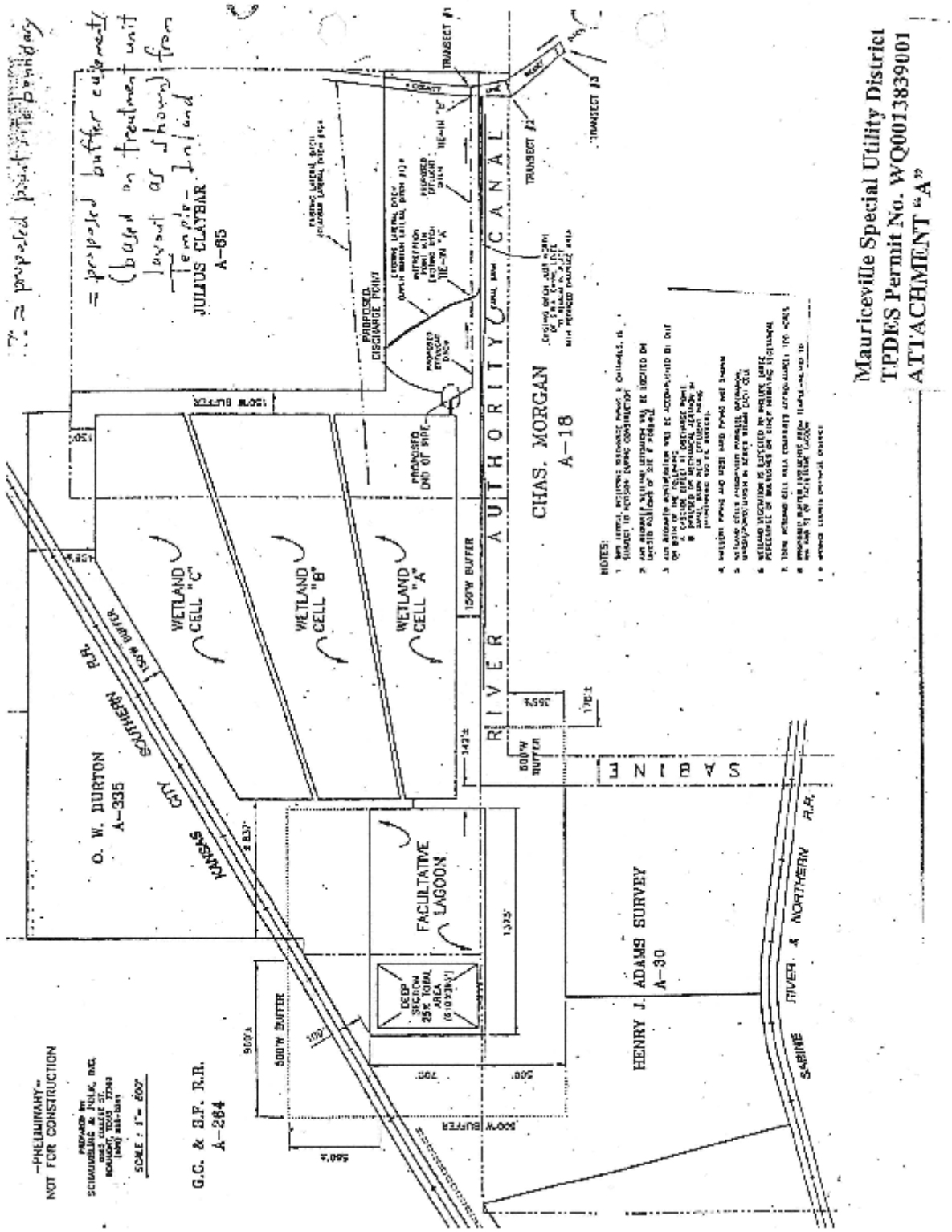
PERCENT SURVIVAL

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

Attachment A: Buffer Zone Map
Mauriceville Municipal Utility District
TPDES Permit No. WQ0013839001



FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0013839001, EPA I.D. No. TX0114839, to discharge to water in the state.

Issuing Office: Texas Commission on Environmental Quality
P.O. Box 13087
Austin, Texas 78711-3087

Applicant: Mauriceville Municipal Utility District
P.O. Box 1000
Mauriceville, Texas 77626

Prepared By: Sumitra Pokharel
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-4722

Date: June 30, 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 a daily average flow not to exceed 0.95 million gallons per day (MGD) in the Interim phase, and an annual average flow not to exceed 1.70 MGD in the Final phase. The existing wastewater treatment facility serves the Mauriceville Municipal Utility District.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 8100 Zavalla Road, in Orange County, Texas 77626.

Outfall Location:

Outfall Number	Latitude	Longitude
001	30.227700 N	93.807200 W

The treated effluent is discharged to an unnamed ditch, thence to County Line Relief Ditch, thence to Sabine River Above Tidal in Segment No. 0502 of the Sabine River Basin. The unclassified receiving water uses are minimal aquatic life use for the unnamed ditch and for the County Line Relief Ditch upnstream of Hwy 87, and limited aquatic life use for County Line Relief Ditch downstream of Hwy 87. The designated uses for Segment No. 0502 are primary contact recreation, public water supply, and

high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Mauriceville Wastewater Treatment Facility is free water surface wetland system combined with a pond system. Treatment units in both Interim and Final phases include an off-site lift station, a bar screen, a facultative lagoon, three free water surface constructed wetland cells in parallel followed by aeration by cascade, diffused air or surface aeration, a chlorine contact chamber and a dechlorination basin. The facility is operating in the Interim phase.

The facility is a pond system and sludge from the ponds has not been removed for sludge disposal to date. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period January 2023 through January 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 ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), Total Dissolved Solids (TDS), Total Chlorides (Cl), and Sulfates (TS). 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.

Parameter	Average of Daily Avg
Flow, MGD	0.59
$CBOD_5$, mg/l	3.6
TSS, mg/l	8
NH_3-N, mg/l	3.44
Chloride, mg/l	97.32
TDS, mg/l	425
Sulfates	5.3
E. coli, CFU or MPN per 100 ml	1

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. INTERIM PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The daily average flow of effluent shall not exceed 0.95 MGD.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	20	158	30	45
TSS	45	357	135	N/A
NH_3-N	4	32	False	False
March–November	4	32	5	7
December–February	Report	Report	N/A	Report
Total Dissolved Solids	Report	Report	N/A	Report
Sulfates	Report	Report	N/A	Report
Total Chlorides	Report	Report	N/A	Report
DO (minimum)	5.0	N/A	N/A	N/A
E. coli, CFU or MPN per 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 twice per month 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 effluent shall contain a total chlorine residual of at least 1.0 mg/l and shall not exceed a total chlorine residual of 4.0 mg/l after a detention time of at least 20 minutes (based on daily average flow) and shall be monitored daily by grab sample. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	One/week
TSS	One/week
NH_3-N	One/week
Total Dissolved Solids	One/week
Sulfates	One/week
Total Chlorides	One/week
DO	One/week
E. coli	One/week

B. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 1.70 MGD.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$				
June–September	12	170	30	45
October–May	20	284	30	45
TSS	45	638	135	N/A
NH_3-N	4	57	5	7
Total Dissolved Solids	Report	Report	N/A	Report
Sulfates	Report	Report	N/A	Report
Total Chlorides	Report	Report	N/A	Report
DO (minimum)	5.0	N/A	N/A	N/A

E. coli, 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 effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on daily average flow) and shall be monitored daily by grab sample. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
TDS	Two/week
Sulfates	Two/week
Total Chlorides	Two/week
DO	Two/week
E. coli	One/week

C. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The facility is a pond system and sludge from the ponds has not been removed for sludge disposal to date. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

D. 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.

E. 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*).

H. SUMMARY OF CHANGES FROM APPLICATION

None.

I. SUMMARY OF CHANGES FROM EXISTING PERMIT

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated.

Other Requirement No. 15 has been added to the draft permit.

Other Requirement Nos. 5 and 7 of the existing permit have been revised in the drat permit.

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 an unnamed ditch, thence to County Line Relief Ditch, thence to Sabine River Above Tidal in Segment No. 0502 of the Sabine River Basin. The unclassified receiving water uses are minimal aquatic life use for Unnamed ditch and County Line Relief Ditch upnstream of Hwy 87 and limited aquatic life use for County Line Relief Ditch downstream of Hwy 87. The designated uses for Segment No. 0502 are primary contact recreation, public water supply, 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) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (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 Texas Commission on Environmental Quality 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 No. 0502 is not currently listed on the State's inventory of impaired and threatened waters (the 2024 CWA § 303(d) list).

The pollutant analysis of treated effluent provided by the permittee in the application indicated 318 mg/l total dissolved solids (TDS), <4.0 mg/l sulfate, and 74.5 mg/l chloride present in the effluent. The segment criteria for Segment No. 0502 are 200 mg/l for TDS, 50 mg/l for sulfate, and 50 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.

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 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, 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 LTA 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 total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "Procedures to Implement the Texas Surface Water Quality Standards, June 2010." The segment values are 24 mg/l for hardness (as calcium carbonate), 15 mg/l chlorides, 6.5 standard units for pH, and 12 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. 0502, which receives the discharge from this facility, is designated as a public water supply. The discharge point is located at a distance greater than three miles from the classified segment. 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 due to the distance between the discharge point and the classified segment.

(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 applicant is not currently monitoring whole effluent toxicity because the requirements do not take effect until the 1.70 MGD phase.

(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.

(b) PERMIT ACTION

The applicant is not currently monitoring whole effluent toxicity because the requirements do not take effect until the 1.70 MGD phase.

REASONABLE POTENTIAL (RP) DETERMINATION

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 chronic WET testing, if available. 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 no WET testing history, and therefore zero failures, a determination of no RP was made. WET limits are not required, and the permittee may be eligible for the testing frequency reduction after one year of quarterly testing occurs

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 Sumitra Pokharel at (512) 239-4722.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0013839001 issued on August 20, 2020.

B. APPLICATION

Application received on February 17, 2025, and additional information received on March 4, 2025, June 24, 2025 and July 10, 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 2024 CWA § 303(d) List, Texas Commission on Environmental Quality, June 26, 2024; approved by the EPA on November 13, 2024.

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:	**Mauriceville MUD**
Permit Number, Outfall:	**13839001, Outfall 001**
Segment Number:	**0502**

Enter values needed for screening:			**Data Source (edit if different)**
TDS CC - segment criterion - TDS	200	mg/L	Latest approved TSWQS, Appendix A
Cl CC - segment criterion - chloride	50	mg/L	Latest approved TSWQS, Appendix A
SO4 CC - segment criterion - sulfate	50	mg/L	Latest approved TSWQS, Appendix A
TDS CE - average effluent concentration - TDS	318	mg/L	Permit application
Cl CE - average effluent concentration - chloride	75	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	4	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 Csv 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} = 1000 mg/L

The next step is to use the initial C_{TDS} to set the actual TDS screening value, TDS Csv, using the following table:

If C_{TDS}		**Then TDS Csv**
≤ 2,500 mg/L	=	2,500 mg/L
> 2,500 mg/L but ≤ 6,000 mg/L	=	C_{TDS}
> 6,000 mg/L	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	**If C_{TDS} is**	**Default Csv =**
Dry except for short-term flow in	< 4,000 mg/L	4,000 mg/L
immediate response to rainfall.	≥ 4,000 mg/L	C_{TDS}
Constructed ditch conveying stormwater and	< 4,000 mg/L	4,000 mg/L

wastewater, considered water in the state.	≥ 4,000 mg/L	C_{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv 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	318	mg/L	Permit application
TDS Csv - TDS screening value	**1000**	mg/L	Determined above

No control measures needed if:	318	≤	1000
Consider control measures if:	318	>	1000

No control measures needed for TDS

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

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 Csv, as follows:

$$Cl\ Csv = (TDS\ Csv / TDS\ CC) * Cl\ CC$$

Where:	Cl Csv = chloride screening value
	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	Cl CC - chloride criterion at the first downstream segment

Cl Csv = **250** mg/L

Once the Cl Csv 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	75	mg/L	Permit application
Cl Csv - chloride screening value	250	mg/L	Determined above

No control measures needed if:	75	≤	250
Consider control measures if:	75	>	250

No control measures needed for chloride

When effluent limitations are established in the permit, the daily average chloride limit is typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average limit.

Chloride

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

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:

SO4 Csv = (TDS Csv /TDS CC) * SO4 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 = **250** 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
SO4 CE - average effluent sulfate concentration	4	mg/L	Permit application
SO4 Csv - sulfate screening value	250	mg/L	Determined above

No control measures needed if:	4	≤	250
Consider control measures if:	4	>	250

No control measures needed for sulfate

When effluent limitations are established in the permit, the daily average sulfate limit is typically set equal to the sulfate screening value. The daily maximum sulfate limit is calculated as 2.12 times the daily average limit.

Sulfate			
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX 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:	Mauriceville Municipal Utility District
TPDES Permit No:	WQ0013839001
Outfall No:	001
Prepared By:	Sumitra Pokharel
Date:	June 4, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	an unnamed ditch
Segment No:	0502
TSS (mg/L):	12
pH (Standard Units):	6.5
Hardness (mg/L as $CaCO_3$):	24
Chloride (mg/L):	15
Effluent Flow for Aquatic Life (MGD):	1.70
Critical Low Flow [7Q2] (cfs):	0
% Effluent for Acute Aquatic Life:	100

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	Source
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	78018.52	0.516		1.00	Assumed
Cadmium	6.60	-1.13	240173.56	0.258		1.00	Assumed
Chromium (total)	6.52	-0.93	328368.46	0.202		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	328368.46	0.202		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	166496.80	0.334		1.00	Assumed
Lead	6.45	-0.80	386060.17	0.178		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	118813.75	0.412		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	185542.46	0.310		1.00	Assumed
Zinc	6.10	-0.70	221092.05	0.274		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*WLAa (µg/L)*	*LTAa (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	3.00	1.702	2.52	5.34
Aluminum	991	991	568	834	1765
Arsenic	340	658	377	554	1173
Cadmium	2.138728	8.30	4.76	6.99	14.7
Carbaryl	2.0	2.00	1.15	1.68	3.56
Chlordane	2.4	2.40	1.38	2.02	4.27
Chlorpyrifos	0.083	0.0830	0.0476	0.0699	0.147

Chromium (trivalent)	177.0466	875	501	736	1558
Chromium (hexavalent)	15.7	15.7	9.00	13.2	27.9
Copper	3.701508	11.1	6.36	9.34	19.7
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 (*alpha*)	0.22	0.220	0.126	0.185	0.392
Endosulfan II (*beta*)	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 (*gamma*) [Lindane]	1.126	1.13	0.645	0.948	2.00
Lead	13.25814	74.7	42.8	62.9	133
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	139.9985	340	195	286	605
Nonylphenol	28	28.0	16.0	23.5	49.8
Parathion (ethyl)	0.065	0.0650	0.0372	0.0547	0.115
Pentachlorophenol	5.277751	5.28	3.02	4.44	9.40
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	4.75	2.72	3.99	8.46
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	34.97101	128	73.2	107	227

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	1.706	2.14
Aluminum	584	709
Arsenic	388	471
Cadmium	4.89	5.94
Carbaryl	1.17	1.43
Chlordane	1.41	1.701
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	515	626
Chromium (hexavalent)	9.25	11.2
Copper	6.54	7.94
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 (*alpha*)	0.129	0.157
Endosulfan II (*beta*)	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 (*gamma*) [Lindane]	0.663	0.806
Lead	44.0	53.4
Malathion	N/A	N/A
Mercury	1.41	1.701
Methoxychlor	N/A	N/A
Mirex	N/A	N/A
Nickel	200	243
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	3.11	3.77
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	1.17	1.43
Selenium	11.70	14.3
Silver	2.79	3.39
Toxaphene	0.459	0.558
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	75.3	91.4

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PERMIT RENEWAL APPLICATION

FOR

EXISTING WASTEWATER TREATMENT FACILITY

TPDES PERMIT NO. WQ0013839001
NPDES ID NO. TX0114839

PREPARED FOR:
MAURICEVILLE MUNICIPAL UTILITY DISTRICT
PO BOX 1000
MAURICEVILLE, TX 77626

PREPARED BY:
LEAVINS ENGINEERING & DESIGN, LLC
3250 EASTEX FREEWAY
BEAUMONT, TX 77703
409-245-5130

FEBRUARY 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Mauriceville Municipal Utility District

PERMIT NUMBER (If new, leave blank): WQ00 13839001

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: Click to enter text.

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: 750376

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 13839001

EPA I.D. (TPDES only): TX 0114839

Expiration Date: 08/20/2025

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?

Mauriceville Municipal Utility District

(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: 600634885

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: Haeggquist, Brad

Title: General Manager 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. Click to enter text.

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: Ms. Last Name, First Name: Solano, Lidia

Title: Engineer in Training Credential: Click to enter text.

Organization Name: Leavins Engineering & Design, LLC

Mailing Address: 3250 Eastex Freeway City, State, Zip Code: Beaumont, TX 77703

Phone No.: 409-247-2261 E-mail Address: lsolano@leadllc.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

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

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

Organization Name: Click to enter text.

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

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

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: Haeggquist, Brad

Title: General Manager Credential: Click to enter text.

Organization Name: Mauriceville Municipal Utility District

Mailing Address: P.O. Box 1000 City, State, Zip Code: Mauriceville, TX 77626

Phone No.: 409-745-4882 E-mail Address: generalmanager@mauricevillemud.com

B. Prefix: Mr. Last Name, First Name: Williford, Virgil

Title: Sewer Manager Credential: Click to enter text.

Organization Name: Mauriceville Municipal Utility District

Mailing Address: P.O. Box 1000 City, State, Zip Code: Mauriceville, TX 77626

Phone No.: 409-745-4882 E-mail Address: cinco.vw@gmail.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: Haeggquist, Brad

Title: General Manager Credential: Click to enter text.

Organization Name: Mauriceville Municipal Utility District

Mailing Address: P.O. Box 1000 City, State, Zip Code: Mauriceville, TX 77626

Phone No.: 409-745-4882 E-mail Address: generalmanager@mauricevillemud.com

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

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

Prefix: Mr. Last Name, First Name: Williford, Virgil

Title: Sewer Manager Credential: Click to enter text.

Organization Name: Mauriceville Municipal Utility District

Mailing Address: P.O. Box 1000 City, State, Zip Code: Mauriceville, TX 77703

Phone No.: 409-745-4882 E-mail Address: cinco.vw@gmail.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Solano, Lidia

Title: Engineer in Training Credential: Click to enter text.

Organization Name: Leavins Engineering & Design, LLC

Mailing Address: 3250 Eastex Freeway City, State, Zip Code: Beaumont, TX 77703

Phone No.: 409-247-2261 E-mail Address: lsolano@leadllc.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: Haeggquist, Brad

Title: General Manager Credential: Click to enter text.

Organization Name: Mauriceville Municipal Utility District

Mailing Address: P.O. Box 1000 City, State, Zip Code: Mauriceville, TX 77626

Phone No.: 409-745-4882 E-mail Address: generalmanager@mauricevillemud.com

D. Public Viewing Information

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

Public building name: Mauriceville MUD Office

Location within the building: Front Desk

Physical Address of Building: 15509 FM 1442

City: Orange County: Orange

Contact (Last Name, First Name): Haeggquist, Brad

Phone No.: 409-745-4882 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: Click to enter text.

G. Public Involvement Plan Form

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

Attachment: Click to enter text.

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102286952

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):

Mauriceville Wastewater Treatment Facility

C. Owner of treatment facility: Mauriceville Municipal Utility District

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

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

Prefix: Click to enter text. Last Name, First Name: Mauriceville Municipal Utility District

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

Organization Name: Mauriceville Municipal Utility District

Mailing Address: P.O. Box 1000 City, State, Zip Code: Mauriceville, TX 77626

Phone No.: 409-745-4882 E-mail Address: generalmanager@mauricevillemud.com

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Orange

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

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

☒ Yes ☐ No

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

☒ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Click to enter text.

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:

Click to enter text.

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

☐ Attachment 1 for Individuals as co-applicants

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0013839001

Applicant: Mauriceville Municipal Utility District

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): Brad Haeggquist

Signatory title: General Manager

Signature: _____ Date: 2/10/2025

(Use blue ink)

Subscribed and Sworn to before me by the said Brad Haeggquist

on this 10 day of February, 20 25.

My commission expires on the 29 day of November, 20 26.

Christina Davis

Notary Public

[SEAL]

Christina Lee Davis
My Commission Expires
11/29/2026
Notary ID131744282

Orange

County, Texas

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:** WQ0013839001

1. Check or Money Order Number: EPAY
2. Check or Money Order Amount: $2,015.00
3. Date of Check or Money Order: EPAY
4. Name on Check or Money Order: EPAY
5. APPLICATION INFORMATION

   Name of Project or Site: Mauriceville Municipal Utility District WWTP

   Physical Address of Project or Site: 8100 Zavalla Road, which is west of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, in Orange County, Tx.

   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

Payment processed on 02/17/2025 through TCEQ e-pay website.
Voucher number: 750376
(SEE COPY OF PAYMENT NEXT SHEET)

-----Original Message-----

From: steers@tceq.texas.gov <steers@tceq.texas.gov>

Sent: Monday, February 17, 2025 3:15 PM

To: Emily Vaglica <evaglica@leadllc.com>

Subject: TCEQ ePay Receipt for 582EA000652476

This is an automated message from the TCEQ ePay system. Please do not reply.

Trace Number: 582EA000652476

Date: 02/17/2025 03:14 PM

Payment Method: CC - Authorization 0000247490 TCEQ Amount: $2,015.00 Texas.gov Price: $2,060.59*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Actor: EMILY VAGLICA

Email: evaglica@leadllc.com

Payment Contact: JEFF LEAVINS

Phone: 409-245-5130

Company: LEAVINS ENGINEERING & DESIGN LLC

Address: 3250 EASTEX FREEWAY, BEAUMONT TX, TX 77703

Fees Paid:

Fee Description AR Number Amount

WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL $2,000.00

30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE $15.00

TCEQ Amount: $2,015.00

==========

Voucher: 750376

Trace Number: 582EA000652476

Date: 02/17/2025 03:14 PM

Payment Method: CC - Authorization 0000247490 Voucher Amount: $2,000.00 Fee Paid: WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL RN Number: RN102286952 Site Name: MAURICEVILLE MUNICIPAL UTILITY DISTRICT WASTEWATER TREATMENT PLANT Site Location: 8100 ZAVALLA ROAD ORANGE TX 77632 CN Number: CN600634885 Customer Name: MAURICEVILLE MUNICIPAL UTILITY DISTRICT Customer Address: PO BOX 1000, MAURICEVILLE, TX 77626 Program Area ID: WQ0013839001

Voucher: 750377

Trace Number: 582EA000652476

Date: 02/17/2025 03:14 PM

Payment Method: CC - Authorization 0000247490 Voucher Amount: $15.00 Fee Paid: 30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE

==========

To print out a copy of the receipt and vouchers for this transaction either click on or copy and paste the following url into your browser:

https://www3.tceq.texas.gov/epay/index.cfm?fuseaction=cor.search&trace_num_txt=582EA000652476.

This e-mail transmission and any attachments are believed to have been sent free of any virus or other defect that might affect any computer system into which it is received and opened. It is, however, the recipient's responsibility to ensure that the e-mail transmission and any attachments are virus free, and the sender accepts no responsibility for any damage that may in any way arise from their use.

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): .95

2-Hr Peak Flow (MGD): 2.85

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): NA

2-Hr Peak Flow (MGD): NA

Estimated construction start date: NA

Estimated waste disposal start date: NA

C. Final Phase

Design Flow (MGD): 1.7

2-Hr Peak Flow (MGD): 3.0

Estimated construction start date: NA

Estimated waste disposal start date: NA

D. Current Operating Phase

Provide the startup date of the facility: 1999

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**.

(1) Facultative Lagoon

(3) Free Water Surface Constructed Wetlands

(1) Proposed Chlorine Contact Chamber

(1) Proposed De-Chlorination Basin

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)
Facultative Lagoon	1	1300’ x 700’ x 7’-12’
Free Water Surface Construed Wetlands	3	2300’ x 400’-700’ x 8”-36”
Chlorine Contact Chamber	1	70’ x 8’ x 10’
De-Chlorination Basin	1	10’ x 3’ x 5’

C. Process Flow Diagram

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

Attachment: Click to enter text.

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

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

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

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

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

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

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

Attachment: Click to enter text.

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

Click to enter text.

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☒ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: March 11th, 2015

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

The TCEQ Chapter 217 Summary Transmittal Letter for The Chlorine Contact Basin and De-Chlorination Basin was sent to Louis C. Herrin, III, P.E. on February 25, 2014. Approval for construction was issued on March 11th 2015.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Click to enter text.

C. Other actions required by the current permit

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

☐ Yes ☐ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☒ Yes ☐ No

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

All Stormwater contacting a treatment unit drains into the treatment unit.

4. Existing coverage in individual permit

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

☐ Yes ☒ No

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

Click to enter text.

5. Zero stormwater discharge

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

☒ Yes ☐ No

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

All Stormwater contacting a treatment unit drains into the treatment unit.

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

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☐ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **W*ater 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	<2.0 mg/L	<2.0 mg/L	1	EFF	12/10/2024 10:04
Total Suspended Solids, mg/l	2.9 mg/L	2.9 mg/L	1	EFF	12/10/2024 10:0
Ammonia Nitrogen, mg/l	0.9 mg/L	0.9 mg/L	1	EFF	12/10/2024 10:13
Nitrate Nitrogen, mg/l	0.23 mg/L	0.23 mg/L	1	EFF	12/10/2024 10:04
Total Kjeldahl Nitrogen, mg/l	2.3 mg/L	2.3 mg/L	1	EFF	12/10/2024 10:13
Sulfate, mg/l	<4.0 mg/L	<4.0 mg/L	1	EFF	12/10/2024 10:04
Chloride, mg/l	74.5 mg/L	74.5 mg/L	1	EFF	12/10/2024 10:04
Total Phosphorus, mg/l	3.17 mg/L	3.17 mg/L	1	EFF	12/10/2024 10:13
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l	1.84	1.84	1	EFF	12/10/2024 09:17
E.coli (CFU/100ml) freshwater	<1 mpn/100ml	<1 mpn/100ml	1	EFF	12/10/2024 09:17
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	318 mg/L	318 mg/L	1	EFF	12/10/2024 10:04
Electrical Conductivity, µmohs/cm, †	470 umhos/cm@25	470 umhos/cm@25	1	EFF	12/10/2024 10:04
Oil & Grease, mg/l	6.8 mg/L	6.8 mg/L	1	EFF	12/10/2024 10:13
Alkalinity ($CaCO_3$)*, mg/l	86.0 mg CaCo3/L	86.0 mg CaCo3/L	1	EFF	12/10/2024 10:04

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Click to enter text.

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

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

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Click to enter text.

D. Disposal site

Disposal site name: NA

TCEQ permit or registration number: NA

County where disposal site is located: NA

E. Transportation method

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

Name of the hauler: NA

Hauler registration number: NA

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☐ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

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

☐ Yes ☒ No

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

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Brad Haeggquist

Title: General Manager

Signature: _____

Date: 2/10/2025

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☒ No

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

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

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

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

Attachment: Click to enter text.

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

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☒ No

If yes, this Worksheet is complete.

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

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

Name of the immediate receiving waters: Unnamed Ditch

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.

Click to enter text.

E. Normal dry weather characteristics

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

Dry Ditch

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify: Drainage Ditch

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 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☒ Composite ☐

Date and time sample(s) collected: 12/10/2024

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50.0		1	50
Aldrin	<0.0159		1	0.01
Aluminum	17.6		1	2.5
Anthracene	<0.0933		1	10
Antimony	<5.00		1	5
Arsenic	<0.810		1	0.5
Barium	14.8		1	3
Benzene	<10.0		1	10
Benzidine	<0.0895		1	50
Benzo(a)anthracene	<0.00948		1	5
Benzo(a)pyrene	<0.00994		1	5
Bis(2-chloroethyl)ether	<0.213		1	10
Bis(2-ethylhexyl)phthalate	<1.42		1	10
Bromodichloromethane	<10.0		1	10
Bromoform	<10.0		1	10
Cadmium	<1.00		1	1
Carbon Tetrachloride	<2.00		1	2
Carbaryl	<1.85		1	5
Chlordane*	<0.196		1	0.2
Chlorobenzene	<10.0		1	10
Chlorodibromomethane	<10.0		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<10.0		1	10
Chlorpyrifos	<0.0158		1	0.05
Chromium (Total)	<3.00		1	3
Chromium (Tri) (*1)	<3		1	N/A
Chromium (Hex)	<3		1	3
Copper	<2.00		1	2
Chrysene	<0.0811		1	5
p-Chloro-m-Cresol	0.184		1	10
4,6-Dinitro-o-Cresol	<0.200		1	50
p-Cresol	0.184		1	10
Cyanide (*2)	<5.00		1	10
4,4'- DDD	<0.0179		1	0.1
4,4'- DDE	<0.0161		1	0.1
4,4'- DDT	<0.0180		1	0.02
2,4-D	<0.0542		1	0.7
Demeton (O and S)	<0.0167		1	0.20
Diazinon	0.0148		1	0.5/0.1
1,2-Dibromoethane	<10.0		1	10
m-Dichlorobenzene	<0.101		1	10
o-Dichlorobenzene	<0.0935		1	10
p-Dichlorobenzene	<0.0775		1	10
3,3'-Dichlorobenzidine	<0.182		1	5
1,2-Dichloroethane	<10.0		1	10
1,1-Dichloroethylene	<10.0		1	10
Dichloromethane	<10.0		1	20
1,2-Dichloropropane	<10.0		1	10
1,3-Dichloropropene	<10.0		1	10
Dicofol	<0.0251		1	1
Dieldrin	<0.0173		1	0.02
2,4-Dimethylphenol	<0.191		1	10
Di-n-Butyl Phthalate	<1.42		1	10
Diuron	<0.0514		1	0.09
Endosulfan I (alpha)	<0.0186		1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.0177		1	0.02
Endosulfan Sulfate	<0.0153		1	0.1
Endrin	<000167		1	0.02
Ethylbenzene	<10.0		1	10
Fluoride	0.372		1	500
Guthion	<0.0161		1	0.1
Heptachlor	<0.0278		1	0.01
Heptachlor Epoxide	<0.0183		1	0.01
Hexachlorobenzene	<0.0969		1	5
Hexachlorobutadiene	<.102		1	10
Hexachlorocyclohexane (alpha)	<0.0160		1	0.05
Hexachlorocyclohexane (beta)	<0.0173		1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.0170		1 1	0.05
Hexachlorocyclopentadiene	0.243		1	10
Hexachloroethane	<.101		1	20
Hexachlorophene	<0.000813		1	10
Lead	<0.500		1	0.5
Malathion	<0.665		1	0.1
Mercury	<0.000290		1	0.005
Methoxychlor	<.00187		1	2
Methyl Ethyl Ketone	<50.0		1	50
Mirex	<0.0251		1	0.02
Nickel	<2.00		1	2
Nitrate-Nitrogen	23		1	100
Nitrobenzene	<0.0732		1	10
N-Nitrosodiethylamine	<0.0994		1	20
N-Nitroso-di-n-Butylamine	<0.513		1	20
Nonylphenol	<1.250		1	333
Parathion (ethyl)	<0.720		1	0.1
Pentachlorobenzene	<0.264		1	20
Pentachlorophenol	<1.03		1	5
Phenanthrene	<0.133		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)	NC		1	0.2
Pyridine	<1.43		1	20
Selenium	<5.00		1	5
Silver	<0.500		1	0.5
1,2,4,5-Tetrachlorobenzene	<0.0952		1	20
1,1,2,2-Tetrachloroethane	<10.0		1	10
Tetrachloroethylene	<10.0		1	10
Thallium	<0.500		1	0.5
Toluene	<10.0		1	10
Toxaphene	<0.338		1	0.3
2,4,5-TP (Silvex)	<0.0425		1	0.3
Tributyltin (see instructions for explanation)			1	0.01
1,1,1-Trichloroethane	<10.0		1	10
1,1,2-Trichloroethane	<10.0		1	10
Trichloroethylene	<10.0		1	10
2,4,5-Trichlorophenol	0.142		1	50
TTHM (Total Trihalomethanes)	10.2		1	10
Vinyl Chloride	<10.0		1	10
Zinc	21.1		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: 12/10/2024

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony	<5.00		1	5
Arsenic	0.810		1	0.5
Beryllium	<0.500		1	0.5
Cadmium	<1.00		1	1
Chromium (Total)	<3.00		1	3
Chromium (Hex)	<3		1	3
Chromium (Tri) **(*1)**	<3		1	N/A
Copper	<2		1	2
Lead	<0.500		1	0.5
Mercury	<0.000290		1	0.005
Nickel	<2		1	2
Selenium	<5		1	5
Silver	<0.500		1	0.5
Thallium	<0.500		1	0.5
Zinc	21.1		1	5
Cyanide **(*2)**	<5.00		1	10
Phenols, Total	10.8		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	<10.0		1	50
Acrylonitrile	<50.0		1	50
Benzene	<10.0		1	10
Bromoform	<10.0		1	10
Carbon Tetrachloride	<2.00		1	2
Chlorobenzene	<10.0		1	10
Chlorodibromomethane	<10.0		1	10
Chloroethane	<50.0		1	50
2-Chloroethylvinyl Ether	<10.0		1	10
Chloroform	<10.0		1	10
Dichlorobromomethane [Bromodichloromethane]	<10.0		1	10
1,1-Dichloroethane	<10.0		1	10
1,2-Dichloroethane	<10.0		1	10
1,1-Dichloroethylene	<10.0		1	10
1,2-Dichloropropane	<10.0		1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10.0		1 1	10
1,2-Trans-Dichloroethylene	<10.0		1	10
Ethylbenzene	<10.0		1	10
Methyl Bromide	<50.0		1	50
Methyl Chloride	<50.0		1	50
Methylene Chloride	<10.0		1	20
1,1,2,2-Tetrachloroethane	<10.0		1	10
Tetrachloroethylene	<10.0		1	10
Toluene	<10.0		1	10
1,1,1-Trichloroethane	<10.0		1	10
1,1,2-Trichloroethane	<10.0		1	10
Trichloroethylene	<10.0		1	10
Vinyl Chloride	<10.0		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	<0.0752		1	10
2,4-Dichlorophenol	<0.139		1	10
2,4-Dimethylphenol	<0.191		1	10
4,6-Dinitro-o-Cresol	<0.200		1	50
2,4-Dinitrophenol	<0.104		1	50
2-Nitrophenol	<0.135		1	20
4-Nitrophenol	<0.134		1	50
P-Chloro-m-Cresol	<0.103		1	10
Pentalchlorophenol	<1.03		1	5
Phenol	<1.14		1	10
2,4,6-Trichlorophenol	<0.229		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	<0.107		1	10
Acenaphthylene	<0.0991		1	10
Anthracene	<0.0933		1	10
Benzidine	<0.0895		1	50
Benzo(a)Anthracene	<0.0948		1	5
Benzo(a)Pyrene	<0.00994		1	5
3,4-Benzofluoranthene	<0.0660		1	10
Benzo(ghi)Perylene	<0.0343		1	20
Benzo(k)Fluoranthene	<0.0470		1	5
Bis(2-Chloroethoxy)Methane	<0.0969		1	10
Bis(2-Chloroethyl)Ether	<0.213		1	10
Bis(2-Chloroisopropyl)Ether	<0.213		1	10
Bis(2-Ethylhexyl)Phthalate	<1.42		1	10
4-Bromophenyl Phenyl Ether	<0.0997		1	10
Butyl benzyl Phthalate	<1.42		1	10
2-Chloronaphthalene	<0.376		1	10
4-Chlorophenyl phenyl ether	<0.130		1	10
Chrysene	<0.0811		1	5
Dibenzo(a,h)Anthracene	<0.0506		1	5
1,2-(o)Dichlorobenzene	<0.0935		1	10
1,3-(m)Dichlorobenzene	<0.101		1	10
1,4-(p)Dichlorobenzene	<0.0775		1	10
3,3-Dichlorobenzidine	<0.182		1	5
Diethyl Phthalate	<1.42		1	10
Dimethyl Phthalate	<1.42		1	10
Di-n-Butyl Phthalate	<1.42		1	10
2,4-Dinitrotoluene	<0.203		1	10
2,6-Dinitrotoluene	<0.116		1	10
Di-n-Octyl Phthalate	<1.42		1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<0.285		1	20
Fluoranthene	<0.0878		1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<0.0943		1	10
Hexachlorobenzene	<0.0969		1	5
Hexachlorobutadiene	<0.102		1	10
Hexachlorocyclo-pentadiene	0.243		1	10
Hexachloroethane	<1.01		1	20
Indeno(1,2,3-cd)pyrene	<0.0994		1	5
Isophorone	<0.106		1	10
Naphthalene	<0.0939		1	10
Nitrobenzene	<0.0732		1	10
N-Nitrosodimethylamine	<0.0994		1	50
N-Nitrosodi-n-Propylamine	<0.118		1	20
N-Nitrosodiphenylamine	<0.144		1	20
Phenanthrene	<0.133		1	10
Pyrene	<0.0844		1	10
1,2,4-Trichlorobenzene	<0.0762		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	<0.0159		1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.0160		1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.0173		1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.0170		1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.0878		1	0.05
Chlordane	<0.196		1	0.2
4,4-DDT	<0.0180		1	0.02
4,4-DDE	<0.0161		1	0.1
4,4,-DDD	<0.0179		1	0.1
Dieldrin	<0.0173		1	0.02
Endosulfan I (alpha)	<0.0186		1	0.01
Endosulfan II (beta)	<0.0177		1	0.02
Endosulfan Sulfate	<0.0153		1	0.1
Endrin	<0.0167		1	0.02
Endrin Aldehyde	<0.0168		1	0.1
Heptachlor	<0.0278		1	0.01
Heptachlor Epoxide	<0.0183		1	0.01
PCB-1242	<0.0523		1	0.2
PCB-1254	<0.0657		1	0.2
PCB-1221	<0.0523		1	0.2
PCB-1232	<0.0523		1	0.2
PCB-1248	<0.0523		1	0.2
PCB-1260	<0.0657		1	0.2
PCB-1016	<.0523		1	0.2
Toxaphene	<0.338		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.

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 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: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

B. Treatment plant interference

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

☐ Yes ☒ No

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

Click to enter text.

C. Treatment plant pass through

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

☐ Yes ☒ No

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

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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

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

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

A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

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

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

Click to enter text.

C. Product and service information

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

Click to enter text.

D. Flow rate information

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

Process Wastewater:

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

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

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 *i*nstructions?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: Click to enter text.

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

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

Mauriceville MUD

WQ0013839001/TX0114839

Attachment Index

Attachment	Title
A	USGS Topographic Map
B	Flow Diagram
C	Core Data Form
D	Laboratory Analytical Report
E	TCEQ Exemption Waiver to 75-90 Rule

ATTACHMENT A: USGS TOPOGRAPHIC MAP

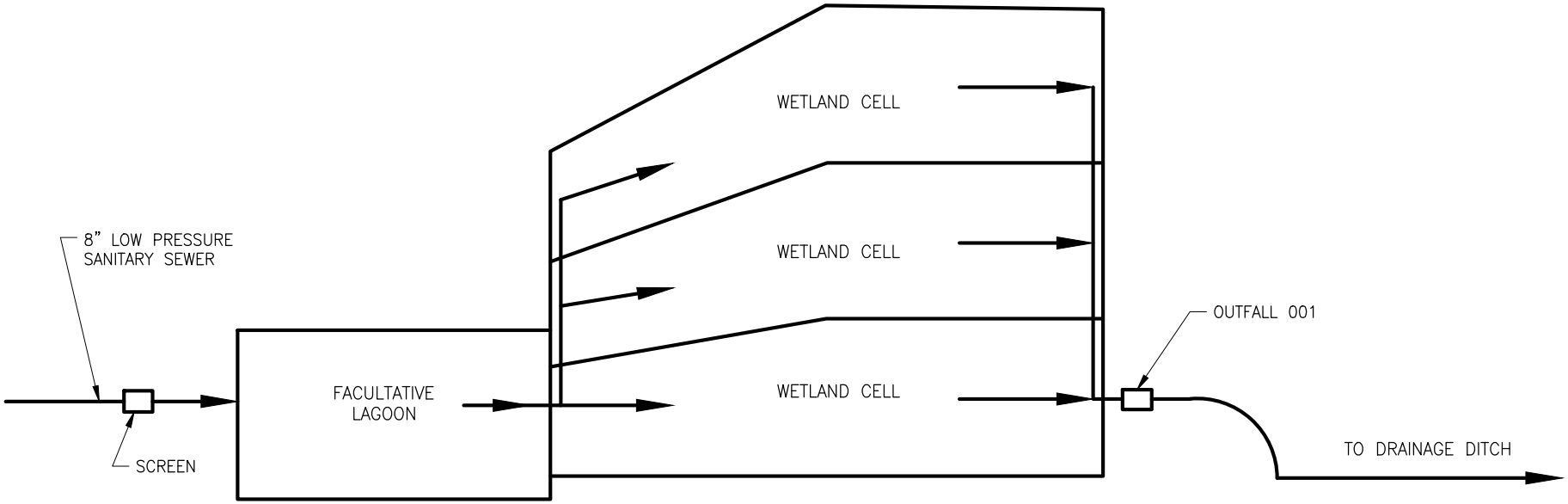


USGS TOPOGRAPHIC MAP
ATTACHMENT A

DATE: MAY 2024	DR BY: LMS	SCALE: NTS

LEAD
LEAVINS ENGINEERING & DESIGN, LLC
TEXAS ENGINEERING FIRM NO. F-22257
3250 EASTEX FWY, BEAUMONT, TEXAS 77703
409-245-5130 | LEADLLC.COM

ATTACHMENT B: FLOW DIAGRAM



PROCESS FLOW DIAGRAM
TECHNICAL REPORT 1.0
ATTACHMENT B

DATE: MAY 2024	DR BY: LMS	SCALE: NTS

LEAD

LEAVINS ENGINEERING & DESIGN, LLC

TEXAS ENGINEERING FIRM NO. F-22257
3250 EASTEX FWY, BEAUMONT, TEXAS 77703
409-245-5130 | LEADLLC.COM

W:\0 PROJECTS\L149 - Mauriceville MUD\L149-007 - 2024 MMUD WWTP Permit Renewal\WWTP Permit Renewal 2024_LEAD\1-CAD\Mauriceville MUD_WWTP Permit Renewal_FLow Diagram.dwg

ATTACHMENT C: CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. 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 600634885		**RN 102286952**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	04/29/2024

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

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

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Mauriceville Municpal Utility District	

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
	17604680276	76-0468027	840941587

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: Municipality

12. Number of Employees

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

13. Independently Owned and Operated?

☐ **Yes** ☒ **No**

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

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

15. Mailing Address:	P.O. Box 1000						
	City	Mauriceville	**State**	TX	**ZIP**	77626	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	generalmanager@mauricevillemud.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(409) 745-4882		(409) 745-4591

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Mauriceville Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	8100 Zavalla Road							
	City	Orange	**State**	TX	**ZIP**	77632	**ZIP + 4**	
24. County	Orange							

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

25. Description to Physical Location:	West of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing in Orange County, TX 77626				
26. Nearest City			**State**	**Nearest ZIP Code**	
Orange			TX	77632	

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

27. Latitude (N) In Decimal:	30.2284472		**28. Longitude (W) In Decimal:**	-93.8179436	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

34. Mailing Address:	**P.O. Box 1000**							
	City	**Mauriceville**	**State**	**TX**	**ZIP**	**77626**	**ZIP + 4**	
35. E-Mail Address:	**generalmanager@mauricevillemud.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(409) 745-4882		**(409) 745-4391**

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:
	WQ0013839001			

SECTION IV: Preparer Information

40. Name:	Brad Haeggquist		41. Title:	General Manager
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(409) 745-4882		(409) 745-4591	generalmanager@mauricevillemud.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:	Mauriceville Municipal Utility District	Job Title:	General Manager
Name *(In Print)*:	Brad Haeggquist	Phone:	(409) 745- 4882
Signature:		Date: 2/10/2025	2/10/2025

ATTACHMENT D: LABORATORY ANALYTICAL REPORT

EASTEX
ENVIRONMENTAL LABS INC.

NELAP ACCREDITED TNI LABORATORY

15 January 2025

Brad Haeggquist
Mauriceville MUD
P.O. Box 1000
Mauriceville, TX 77626

RE: Mauriceville Long Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 12/10/24 16:30, with Lab ID Number 4491520. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel Bowen
Chief Operations Officer

EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

Mauriceville MUD
P.O. Box 1000
Mauriceville TX, 77626

LABORATORY ANALYTICAL REPORT

Project: Mauriceville Long Permit Renewal
Sample Matrix: Water
Client Matrix: Water

Sample Date and Time: 12/10/2024 00:00
Collector:
Sample Type:Composite
Print Date: 1/15/2025

Effluent Comp

4491520-01 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
Aluminum - Total	17.6	2.50	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Antimony - Total	<5.00	5.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Arsenic, Total	0.810	0.500	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Barium, Total	14.8	3.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Beryllium, Total	<0.500	0.500	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Cadmium, Total	<1.00	1.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Chromium, (VI)	<3	3	ug/L	A	B4L3201	12/23/2024 15:40	SM 3500 Cr B	
Chromium, Total	<3.00	3.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Chromium, Trivalent	<3	3	ug/L	N	B4L3856	12/27/2024 14:15	-	
Copper, Total	<2.00	2.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Lead, Total	<0.500	0.500	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Nickel, Total	<2.00	2.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Selenium, Total	<5.00	5.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Silver, Total	<0.500	0.500	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Thallium, Total	<0.500	0.500	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	
Zinc, Total	21.1	5.00	ug/L	A	B4L1547	12/12/2024 13:23	EPA 200.8	

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Mauriceville MUD
P.O. Box 1000
Mauriceville TX, 77626

Project: Mauriceville Long Permit Renewal
Sample Matrix: Water
Client Matrix: Water

Sample Date and Time: 12/10/2024 10:17
Collector: VW
Sample Type:Grab
Print Date: 1/15/2025

Effluent Grab

4491520-02 (Water)

Analyte	Result	Reporting Limit	Units	Nelac Status	Batch	Analyzed Date & Time	Method	Notes
Eastex Environmental Laboratory - Coldspring								
Alkalinity	86.0	20.0	mg CaCO3/L	A	B4L1463	12/11/2024 09:36	SM 2320 B	
Ammonia as N	0.9	0.1	mg/L	A	B4L1590	12/13/2024 19:25	SM 4500 NH3 G	
CBOD 5	<2.0	2.0	mg/L	A	B4L1426	12/11/2024 06:04	SM 5210 B	1, 13
Chloride	74.5	5.0	mg/L	A	B4L1585	12/11/2024 14:20	EPA 300.0	13, B
Conductivity	470	10.0	µmhos/cm @25C	A	B4L1530	12/11/2024 14:51	SM 2510 B	
Cyanide	<5.00	5.00	ug/L	A	B4L1495	12/11/2024 16:33	SM 4500 CN- E	53
E coli IDEXX	<1	1	mpn/100ml	A	B4L1572	12/10/2024 16:42	Colilert 18	
Fluoride	0.372	0.100	mg/L	A	B4L1585	12/11/2024 14:20	EPA 300.0	
Nitrate as N	0.23	0.05	mg/L	A	B4L1585	12/11/2024 14:20	EPA 300.0	
Oil Grease, HEM	6.8	5.4	mg/L	A	B4L1504	12/11/2024 09:30	EPA 1664A	
Phenol, low level	10.8	10.0	ppb	A	B4L3574	12/30/2024 12:52	EPA 420.1	53
Sulfate	<4.0	4.0	mg/L	A	B4L1585	12/11/2024 14:20	EPA 300.0	
TKN	2.3	1.0	mg/L	A	B4L1780	12/20/2024 11:06	EPA 351.2	
Total Phosphorus	3.17	0.0600	mg/L	A	B4L1785	12/16/2024 13:57	EPA 200.7	
TSS	2.9	1.0	mg/L	A	B4L1466	12/11/2024 14:00	SM 2540 D	25
Eastex Environmental Laboratory - Nacogdoches								
TDS	318	10.0	mg/L	A	N409204	12/16/2024 15:55	SM 2540 C	

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SM 5210 B - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1426 - No Prep										
Blank (B4L1426-BLK1)				**Prepared & Analyzed:** 12/11/2024 6:04:00AM						
CBOD 5	0.627	2.0	mg/L							1
LCS (B4L1426-BS1)				**Prepared & Analyzed:** 12/11/2024 6:04:00AM						
CBOD 5	125		mg/L	198		62.9	84.59-115.40			1, 13
Duplicate (B4L1426-DUP1)		**Source: 4491520-02**		**Prepared & Analyzed:** 12/11/2024 6:04:00AM						
CBOD 5	ND	2.0	mg/L		ND				30	1, 13
Batch B4L1463 - No Prep										
Blank (B4L1463-BLK1)				**Prepared & Analyzed:** 12/11/2024 9:36:00AM						
Alkalinity	ND	20.0	mg CaCO3/L							
LCS (B4L1463-BS1)				**Prepared & Analyzed:** 12/11/2024 9:36:00AM						
Alkalinity	44.0		mg CaCO3/L	50.0		88.0	80-120			
Duplicate (B4L1463-DUP1)		**Source: 4491520-02**		**Prepared & Analyzed:** 12/11/2024 9:36:00AM						
Alkalinity	86.0	20.0	mg CaCO3/L		86.0			0.00	20	
Batch B4L1466 - No Prep										
Blank (B4L1466-BLK1)				**Prepared & Analyzed:** 12/11/2024 2:00:00PM						
TSS	ND	1.0	mg/L							
Duplicate (B4L1466-DUP1)		**Source: 4500545-01**		**Prepared & Analyzed:** 12/11/2024 2:00:00PM						
TSS	336	1.0	mg/L		342			1.77	10	
Batch B4L1495 - No Prep										
Blank (B4L1495-BLK1)				**Prepared & Analyzed:** 12/11/2024 4:33:00PM						
Cyanide	ND	5.00	ug/L							
LCS (B4L1495-BS1)				**Prepared & Analyzed:** 12/11/2024 4:33:00PM						
Cyanide	40.7		ug/L	40.0		102	90-110			
Matrix Spike (B4L1495-MS1)		**Source: 4452343-02**		**Prepared & Analyzed:** 12/11/2024 4:33:00PM						
Cyanide	78.2	5.00	ug/L	40.0	ND	196	90-110			23
Matrix Spike Dup (B4L1495-MSD1)		**Source: 4452343-02**		**Prepared & Analyzed:** 12/11/2024 4:33:00PM						
Cyanide	ND	5.00	ug/L	40.0	ND		90-110		20	53
Batch B4L1504 - No Prep										

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EPA 1664A - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1504 - No Prep										
Blank (B4L1504-BLK1)				**Prepared & Analyzed:** 12/11/2024 9:30:00AM						
Oil Grease, HEM	ND	5.0	mg/L							
LCS (B4L1504-BS1)				**Prepared & Analyzed:** 12/11/2024 9:30:00AM						
Oil Grease, HEM	37.7	5.0	mg/L	40.0		94.2	78-114			
LCS Dup (B4L1504-BSD1)				**Prepared & Analyzed:** 12/11/2024 9:30:00AM						
Oil Grease, HEM	38.0	5.0	mg/L	40.0		95.0	78-114	0.793	18	
Matrix Spike (B4L1504-MS1)	**Source: 4471770-01**			**Prepared & Analyzed:** 12/11/2024 9:30:00AM						
Oil Grease, HEM	39.5	5.0	mg/L	40.0	ND	98.8	78-114			
Batch B4L1530 - No Prep										
Blank (B4L1530-BLK1)				**Prepared & Analyzed:** 12/11/2024 2:51:00PM						
Conductivity	ND	10.0	µmhos/cm @25C							
LCS (B4L1530-BS1)				**Prepared & Analyzed:** 12/11/2024 2:51:00PM						
Conductivity	1010		µmhos/cm @25C	1000		101	80-120			
Duplicate (B4L1530-DUP1)	**Source: 4491520-02**			**Prepared & Analyzed:** 12/11/2024 2:51:00PM						
Conductivity	468	10.0	µmhos/cm @25C		470			0.426	20	
Batch B4L1547 - EPA 200.8										
Blank (B4L1547-BLK1)				**Prepared & Analyzed:** 12/12/2024 1:17:00PM						
Aluminum - Total	ND	2.00	ug/L							
Antimony - Total	ND	2.00	ug/L							
Arsenic, Total	ND	0.500	ug/L							
Barium, Total	ND	1.00	ug/L							
Beryllium, Total	ND	0.500	ug/L							
Cadmium, Total	ND	1.00	ug/L							
Chromium, Total	ND	1.00	ug/L							
Copper, Total	ND	1.00	ug/L							
Lead, Total	ND	0.500	ug/L							
Nickel, Total	ND	2.00	ug/L							
Selenium, Total	ND	2.00	ug/L							
Silver, Total	ND	0.500	ug/L							
Thallium, Total	ND	0.500	ug/L							
Zinc, Total	ND	5.00	ug/L							

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EPA 200.8 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1547 - EPA 200.8										
LCS (B4L1547-BS1)				**Prepared & Analyzed:** 12/12/2024 1:20:00PM						
Aluminum - Total	85.7	2.00	ug/L	100		85.7	85-115			
Antimony - Total	90.4	2.00	ug/L	100		90.4	85-115			
Arsenic, Total	90.2	0.500	ug/L	100		90.2	85-115			
Barium, Total	86.1	1.00	ug/L	100		86.1	85-115			
Beryllium, Total	91.5	0.500	ug/L	100		91.5	85-115			
Cadmium, Total	90.4	1.00	ug/L	100		90.4	85-115			
Chromium, Total	91.9	1.00	ug/L	100		91.9	85-115			
Copper, Total	94.9	1.00	ug/L	100		94.9	85-115			
Lead, Total	87.6	0.500	ug/L	100		87.6	85-115			
Nickel, Total	92.9	2.00	ug/L	100		92.9	85-115			
Selenium, Total	101	2.00	ug/L	100		101	85-115			
Silver, Total	97.3	0.500	ug/L	100		97.3	85-115			
Thallium, Total	88.1	0.500	ug/L	100		88.1	85-115			
Zinc, Total	93.4	5.00	ug/L	100		93.4	85-115			
Matrix Spike (B4L1547-MS1)		**Source: 4491520-01**		**Prepared & Analyzed:** 12/12/2024 1:29:00PM						
Aluminum - Total	122	2.00	ug/L	100	17.6	104	70-130			
Antimony - Total	88.4	2.00	ug/L	100	ND	88.4	70-130			
Arsenic, Total	87.4	0.500	ug/L	100	0.810	86.5	70-130			
Barium, Total	101	1.00	ug/L	100	14.8	86.2	70-130			
Beryllium, Total	90.1	0.500	ug/L	100	ND	90.1	70-130			
Cadmium, Total	88.1	1.00	ug/L	100	ND	88.1	70-130			
Chromium, Total	86.5	1.00	ug/L	100	ND	86.5	70-130			
Copper, Total	89.4	1.00	ug/L	100	ND	89.4	70-130			
Lead, Total	86.9	0.500	ug/L	100	0.105	86.8	70-130			
Nickel, Total	88.7	2.00	ug/L	100	ND	88.7	70-130			
Selenium, Total	94.6	2.00	ug/L	100	0.719	93.9	70-130			
Silver, Total	92.4	0.500	ug/L	100	ND	92.4	70-130			
Thallium, Total	85.3	0.500	ug/L	100	0.0540	85.3	70-130			
Zinc, Total	107	5.00	ug/L	100	21.1	86.1	70-130			
Matrix Spike Dup (B4L1547-MSD1)		**Source: 4491520-01**		**Prepared & Analyzed:** 12/12/2024 1:32:00PM						
Aluminum - Total	124	2.00	ug/L	100	17.6	106	70-130	1.79	20	
Antimony - Total	88.5	2.00	ug/L	100	ND	88.5	70-130	0.0373	20	
Arsenic, Total	90.2	0.500	ug/L	100	0.810	89.4	70-130	3.22	20	
Barium, Total	103	1.00	ug/L	100	14.8	87.9	70-130	1.66	20	
Beryllium, Total	89.7	0.500	ug/L	100	ND	89.7	70-130	0.418	20	
Cadmium, Total	88.4	1.00	ug/L	100	ND	88.4	70-130	0.380	20	
Chromium, Total	88.8	1.00	ug/L	100	ND	88.8	70-130	2.65	20	

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EPA 200.8 - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1547 - EPA 200.8										
Matrix Spike Dup (B4L1547-MSD1)	**Source: 4491520-01**			**Prepared & Analyzed:** 12/12/2024 1:32:00PM						
Copper, Total	91.1	1.00	ug/L	100	ND	91.1	70-130	1.93	20	
Lead, Total	88.4	0.500	ug/L	100	0.105	88.3	70-130	1.74	20	
Nickel, Total	91.0	2.00	ug/L	100	ND	91.0	70-130	2.52	20	
Selenium, Total	94.0	2.00	ug/L	100	0.719	93.3	70-130	0.608	20	
Silver, Total	93.3	0.500	ug/L	100	ND	93.3	70-130	0.944	20	
Thallium, Total	86.7	0.500	ug/L	100	0.0540	86.7	70-130	1.61	20	
Zinc, Total	111	5.00	ug/L	100	21.1	89.9	70-130	3.46	20	
Batch B4L1572 - No Prep Micro										
Blank (B4L1572-BLK1)				**Prepared & Analyzed:** 12/10/2024 4:42:00PM						
E coli IDEXX	ND	1	mpn/100ml							
Duplicate (B4L1572-DUP1)	**Source: 4500503-01**			**Prepared & Analyzed:** 12/10/2024 4:42:00PM						
E coli IDEXX	ND	10	mpn/100ml		ND				200	
Batch B4L1585 - No Prep										
Blank (B4L1585-BLK1)				**Prepared & Analyzed:** 12/11/2024 2:20:00PM						
Chloride	1.84	5.0	mg/L							B
Fluoride	ND	0.100	mg/L							
Nitrate as N	ND	0.05	mg/L							
Sulfate	ND	4.0	mg/L							
LCS (B4L1585-BS1)				**Prepared & Analyzed:** 12/11/2024 2:20:00PM						
Chloride	22.7		mg/L	25.0		90.6	90-110			13, B
Fluoride	0.474		mg/L	0.500		94.7	90-110			
Nitrate as N	1.4197		mg/L	1.50		94.6	90-110			
Sulfate	18.2		mg/L	20.0		91.0	90-110			
Matrix Spike (B4L1585-MS1)	**Source: 4491520-02**			**Prepared & Analyzed:** 12/11/2024 2:20:00PM						
Chloride	191	5.0	mg/L	125	74.5	93.5	80-120			13, B
Fluoride	2.89	0.100	mg/L	2.50	0.372	101	80-120			
Nitrate as N	7.4878	0.05	mg/L	7.50	0.2258	96.8	80-120			
Sulfate	94.5	4.0	mg/L	100	2.26	92.2	80-120			
Matrix Spike Dup (B4L1585-MSD1)	**Source: 4491520-02**			**Prepared & Analyzed:** 12/11/2024 2:20:00PM						
Chloride	191	5.0	mg/L	125	74.5	93.6	80-120	0.116	20	13, B
Fluoride	2.87	0.100	mg/L	2.50	0.372	99.9	80-120	0.812	20	
Nitrate as N	7.4704	0.05	mg/L	7.50	0.2258	96.6	80-120	0.233	20	
Sulfate	94.8	4.0	mg/L	100	2.26	92.5	80-120	0.287	20	

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SM 4500 NH3 G - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L1590 - No Prep										
Blank (B4L1590-BLK1)				**Prepared & Analyzed:** 12/13/2024 7:25:00PM						
Ammonia as N	ND	0.1	mg/L							
LCS (B4L1590-BS1)				**Prepared & Analyzed:** 12/13/2024 7:25:00PM						
Ammonia as N	1.84		mg/L	2.00		92.2	90-110			
Matrix Spike (B4L1590-MS1)		**Source: 4500618-01**		**Prepared & Analyzed:** 12/13/2024 7:25:00PM						
Ammonia as N	2.6	0.1	mg/L	2.50	0.1	98.4	80-120			
Matrix Spike Dup (B4L1590-MSD1)		**Source: 4500618-01**		**Prepared & Analyzed:** 12/13/2024 7:25:00PM						
Ammonia as N	2.6	0.1	mg/L	2.50	0.1	98.3	80-120	0.0385	20	
Batch B4L1780 - SM 4500 Norg C										
Blank (B4L1780-BLK1)				**Prepared & Analyzed:** 12/20/2024 11:06:00AM						
TKN	ND	1.0	mg/L							
LCS (B4L1780-BS1)				**Prepared & Analyzed:** 12/20/2024 11:06:00AM						
TKN	9.10		mg/L	10.0		91.0	90-110			
Matrix Spike (B4L1780-MS1)		**Source: 4491520-02**		**Prepared & Analyzed:** 12/20/2024 11:06:00AM						
TKN	11.5	1.0	mg/L	10.0	2.32	91.7	80-120			
Matrix Spike Dup (B4L1780-MSD1)		**Source: 4491520-02**		**Prepared & Analyzed:** 12/20/2024 11:06:00AM						
TKN	12.6	1.0	mg/L	10.0	2.32	103	80-120	9.10	20	
Batch B4L1785 - EPA 200.7										
Blank (B4L1785-BLK1)				**Prepared & Analyzed:** 12/16/2024 1:54:21PM						
Total Phosphorus	ND	0.0600	mg/L							
LCS (B4L1785-BS1)				**Prepared & Analyzed:** 12/16/2024 1:55:57PM						
Total Phosphorus	2.64	0.0600	mg/L	2.52		105	85-115			
Matrix Spike (B4L1785-MS1)		**Source: 4491520-02**		**Prepared & Analyzed:** 12/16/2024 2:00:45PM						
Total Phosphorus	5.90	0.0600	mg/L	2.52	3.17	108	70-130			
Matrix Spike Dup (B4L1785-MSD1)		**Source: 4491520-02**		**Prepared & Analyzed:** 12/16/2024 2:02:21PM						
Total Phosphorus	5.98	0.0600	mg/L	2.52	3.17	111	70-130	1.27	20	
Batch B4L3201 - No Prep										
Blank (B4L3201-BLK1)				**Prepared & Analyzed:** 12/23/2024 3:40:00PM						
Chromium, (VI)	ND	3	ug/L							

The results in this report apply to the samples analyzed in accordance with the chain of custody document.
This analytical report must be reproduced in its entirety.

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

EASTEX ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

Mauriceville MUD
P.O. Box 1000
Mauriceville TX, 77626

SM 3500 Cr B - Quality Control

Eastex Environmental Laboratory - Coldspring

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4L3201 - No Prep										
LCS (B4L3201-BS1)				**Prepared & Analyzed:** 12/23/2024 3:40:00PM						
Chromium, (VI)	20.651		ug/L	20.0		103	90-110			
Matrix Spike (B4L3201-MS1)		**Source: 4480003-01**		**Prepared & Analyzed:** 12/23/2024 3:40:00PM						
Chromium, (VI)	41.378	3	ug/L	44.6	ND	92.8	80-120			
Matrix Spike Dup (B4L3201-MSD1)		**Source: 4480003-01**		**Prepared & Analyzed:** 12/23/2024 3:40:00PM						
Chromium, (VI)	39.196	3	ug/L	44.6	ND	87.9	80-120	5.42	20	
Batch B4L3574 - No Prep										
Blank (B4L3574-BLK1)				**Prepared & Analyzed:** 12/30/2024 12:52:00PM						
Phenol, low level	ND	10.0	ppb							
LCS (B4L3574-BS1)				**Prepared & Analyzed:** 12/30/2024 12:52:00PM						
Phenol, low level	47.0		ppb	50.0		94.0	80-120			
LCS Dup (B4L3574-BSD1)				**Prepared & Analyzed:** 12/30/2024 12:52:00PM						
Phenol, low level	35.6		ppb	50.0		71.3	80-120	27.6	20	53
Matrix Spike (B4L3574-MS1)		**Source: 4500582-01**		**Prepared & Analyzed:** 12/30/2024 12:52:00PM						
Phenol, low level	131	10.0	ppb	50.0	75.9	110	80-120			

SM 2540 C - Quality Control

Eastex Environmental Laboratory - Nacogdoches

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch N409204 - No Prep										
Blank (N409204-BLK1)				**Prepared & Analyzed:** 12/16/2024 3:55:00PM						
TDS	ND	10.0	mg/L							
LCS (N409204-BS1)				**Prepared & Analyzed:** 12/16/2024 3:55:00PM						
TDS	50.0		mg/L	50.0		100	90-110			
Duplicate (N409204-DUP1)		**Source: N4L0995-07**		**Prepared & Analyzed:** 12/16/2024 3:55:00PM						
TDS	854	10.0	mg/L		874			2.31	10	

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EASTEX
ENVIRONMENTAL LABS INC.

P.O. Box 1089 Coldspring Tx 77331
Website: eastexlabs.com
Email: eastexlab@eastex.net
Tel: 936 653 3249

NELAP ACCREDITED TNI LABORATORY

Mauriceville MUD
P.O. Box 1000
Mauriceville TX, 77626

Notes and Definitions

B	Analyte detected in Method Blank.
53	RPD Recovery outside acceptance limits due to matrix interference.
25	Residue not in the method range of 2.5-200 mg.
23	Spike recovery outside of acceptance limits due to matrix interference.
13	LCS associated with sample batch outside of acceptance limits.
1	Dilution water blank > 0.20 mg/L DO uptake.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Natalie Sewell
Eastex Environmental Laboratory Inc.
PO BOX 1089
Coldspring, Texas 77331
Generated 12/31/2024 12:38:33 PM

JOB DESCRIPTION

Mauriceville Long Permit Renewal

JOB NUMBER

860-89093-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

my EOL

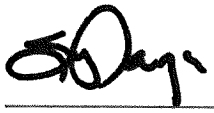
Eurofins Houston

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.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Sylvia Garza, Project Manager
Sylvia.Garza@et.eurofinsus.com
(832)544-2004

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Definitions/Glossary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
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.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Metals

Qualifier	Qualifier Description
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
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)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job Narrative
860-89093-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 12/12/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

GC/MS Semi VOA
Method 625.1_QQQ: The surrogate recovery for the method blank, laboratory control sample and laboratory control sample duplicate associated with preparation batch 860-205547 and analytical batch 860-205628 was outside the upper control limits.

Method 625.1_QQQ: The continuing calibration verification (CCV) associated with batch 860-205628 recovered above the upper control limit for Azinphos-methyl, Demeton-O and Malathion. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-205628/4).

Method 625.1_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-205547 and analytical batch 860-205628 recovered outside control limits for multiple analytes. Re-preparation and re-analysis was not performed as the holding time had expired. Reported per PM.

Method 625.1_QQQ: The continuing calibration verification (CCV) associated with batch 860-206381 recovered above the upper control limit for Benzo[b]fluoranthene, Bis(2-ethylhexyl) phthalate, and Di-n-octyl phthalate . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-206381/2).

Method 625.1_QQQ: The continuing calibration verification (CCV) associated with batch 860-206381 recovered above the upper control limit for Azinphos-methyl, Diazinon, Demeton-O, Demeton-S and Malathion. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-206381/4).

Method D7065_11: The reference method requires samples to be preserved to a pH of 1-2. The following samples Mauriceville Long Permit Renewal Effluent Comp (860-89093-1) in preparation batch 280-678606 was received with insufficient preservation at a pH of 4-5. The samples were preserved to the appropriate pH in the laboratory.

Method D7065_11: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 280-678606 and analytical batch 280-678786 recovered outside control limits for the following analytes: Bisphenol-A.

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

GC Semi VOA
Method 615_MOD: The continuing calibration verification (CCV) associated with batch 860-205694 recovered above the upper control limit for Dinoseb. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-205694/3).

Method 615_MOD: The continuing calibration verification (CCV) associated with batch 860-205694 recovered above the upper control limit for Hexachlorophene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-205694/4).

Method 615_MOD: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-205359 and analytical batch 860-205694 recovered outside control limits for the following analytes: MCPP. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 615_MOD: The continuing calibration verification (CCV) associated with 860-206072 recovered low and outside the control limits for 2,4-D on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: (CCVIS 860-206072/3).

Method 615_MOD: The continuing calibration verification (CCV) associated with batch 860-206072 recovered above the upper control limit for Hexachlorophene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-206072/4).

Method 615_MOD: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-205359 and analytical batch 860-206072 recovered outside control limits for the following analytes: Hexachlorophene.

Method 615_MOD: The continuing calibration verification (CCV) associated with batch 860-206672 recovered above the upper control limit for Hexachlorophene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 860-206672/4).

Method 615_MOD: The continuing calibration verification (CCV) associated with batch 860-206672 recovered above the upper control limit for Dalapon and Dicamba. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-206672/3).

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: The surrogate recovery for the blank associated with preparation batch 860-205465 and analytical batch 860-205629 was outside the upper control limits.

Method 614: Due to the matrices, the initial volume used for samples Mauriceville Long Permit Renewal Effluent Comp (860-89093-1) in preparation batch 280-678812 deviated from the standard procedure at 200 mL instead of 1000 mL. The reporting limits (RLs) have been adjusted proportionately.

Method 614: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-678812. Method 8141/614

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

HPLC/IC
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.

Detection Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp

Lab Sample ID: 860-89093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m & p - Cresol	0.184	J	0.568	0.138	ug/L	1		625.1	Total/NA
Hexachlorocyclopentadiene	0.243	J *+ I	0.568	0.0509	ug/L	1		625.1	Total/NA
Polychlorinated biphenyls, Total	NC		0.000251	0.0000523	mg/L	1		608.3	Total/NA

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp LL Blank

Lab Sample ID: 860-89093-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp

Lab Sample ID: 860-89093-1

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0762	U	0.568	0.0762	ug/L		12/16/24 06:23	12/19/24 05:21	1
Azinphos-methyl	<0.0161	U	0.0568	0.0161	ug/L		12/16/24 06:23	12/19/24 05:21	1
1,2-Dichlorobenzene	<0.0935	U	0.568	0.0935	ug/L		12/16/24 06:23	12/19/24 05:21	1
Diazinon	<0.0148	U *+	0.114	0.0148	ug/L		12/16/24 06:23	12/19/24 05:21	1
1,2-Diphenylhydrazine	<0.285	U	0.568	0.285	ug/L		12/16/24 06:23	12/19/24 05:21	1
Demeton, Total	<0.0167	U	0.0568	0.0167	ug/L		12/16/24 06:23	12/19/24 05:21	1
1,3-Dichlorobenzene	<0.101	U	0.568	0.101	ug/L		12/16/24 06:23	12/19/24 05:21	1
1,4-Dichlorobenzene	<0.0775	U	0.568	0.0775	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,2'-oxybis[1-chloropropane]	<0.127	U	0.568	0.127	ug/L		12/16/24 06:23	12/19/24 05:21	1
Disulfoton	<0.202	U	0.568	0.202	ug/L		12/16/24 06:23	12/19/24 05:21	1
Malathion	<0.0149	U *+	0.0568	0.0149	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,4,6-Trichlorophenol	<0.229	U	0.568	0.229	ug/L		12/16/24 06:23	12/19/24 05:21	1
Methyl parathion	<0.318	U	0.568	0.318	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,4-Dichlorophenol	<0.139	U *+	0.568	0.139	ug/L		12/16/24 06:23	12/19/24 05:21	1
Ethyl Parathion	<0.0499	U *+	0.114	0.0499	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,4-Dimethylphenol	<0.191	U *+	0.568	0.191	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,4-Dinitrophenol	<0.104	U	5.68	0.104	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,4-Dinitrotoluene	<0.203	U	0.568	0.203	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,6-Dinitrotoluene	<0.116	U	0.568	0.116	ug/L		12/16/24 06:23	12/19/24 05:21	1
2-Chloronaphthalene	<0.376	U	0.568	0.376	ug/L		12/16/24 06:23	12/19/24 05:21	1
2-Chlorophenol	<0.0752	U	0.568	0.0752	ug/L		12/16/24 06:23	12/19/24 05:21	1
2-Nitrophenol	<0.135	U	0.568	0.135	ug/L		12/16/24 06:23	12/19/24 05:21	1
3,3'-Dichlorobenzidine	<0.182	U	0.568	0.182	ug/L		12/16/24 06:23	12/19/24 05:21	1
4,6-Dinitro-2-methylphenol	<0.200	U	1.14	0.200	ug/L		12/16/24 06:23	12/19/24 05:21	1
4-Bromophenyl phenyl ether	<0.0997	U	0.568	0.0997	ug/L		12/16/24 06:23	12/19/24 05:21	1
2,4,5-Trichlorophenol	<0.142	U	0.568	0.142	ug/L		12/16/24 06:23	12/19/24 05:21	1
4-Chloro-3-methylphenol	<0.103	U	0.568	0.103	ug/L		12/16/24 06:23	12/19/24 05:21	1
4-Chlorophenyl phenyl ether	<0.130	U	0.568	0.130	ug/L		12/16/24 06:23	12/19/24 05:21	1
4-Nitrophenol	<0.134	U	0.568	0.134	ug/L		12/16/24 06:23	12/19/24 05:21	1
Acenaphthene	<0.107	U	0.568	0.107	ug/L		12/16/24 06:23	12/19/24 05:21	1
Acenaphthylene	<0.0991	U *+	0.568	0.0991	ug/L		12/16/24 06:23	12/19/24 05:21	1
Anthracene	<0.0933	U *+	0.568	0.0933	ug/L		12/16/24 06:23	12/19/24 05:21	1
Azobenzene	<0.103	U	0.568	0.103	ug/L		12/16/24 06:23	12/19/24 05:21	1
Benzidine	<0.0895	U	1.14	0.0895	ug/L		12/16/24 06:23	12/19/24 05:21	1
Benzo[a]anthracene	<0.00948	U *+	0.114	0.00948	ug/L		12/16/24 06:23	12/19/24 05:21	1
Benzo[a]pyrene	<0.00994	U	0.114	0.00994	ug/L		12/16/24 06:23	12/19/24 05:21	1
Benzo[b]fluoranthene	<0.0660	U *+	0.568	0.0660	ug/L		12/16/24 06:23	12/19/24 05:21	1
Benzo[g,h,i]perylene	<0.0343	U	0.568	0.0343	ug/L		12/16/24 06:23	12/19/24 05:21	1
Benzo[k]fluoranthene	<0.0470	U	0.568	0.0470	ug/L		12/16/24 06:23	12/19/24 05:21	1
Bis(2-chloroethoxy)methane	<0.0969	U	0.568	0.0969	ug/L		12/16/24 06:23	12/19/24 05:21	1
Bis(2-chloroethyl)ether	<0.213	U	0.568	0.213	ug/L		12/16/24 06:23	12/19/24 05:21	1
Bis(2-ethylhexyl) phthalate	<1.42	U *+	2.84	1.42	ug/L		12/16/24 06:23	12/19/24 05:21	1
Butyl benzyl phthalate	<1.42	U	2.84	1.42	ug/L		12/16/24 06:23	12/19/24 05:21	1
Chrysene	<0.0811	U	0.568	0.0811	ug/L		12/16/24 06:23	12/19/24 05:21	1
Dibenz(a,h)anthracene	<0.0506	U	0.114	0.0506	ug/L		12/16/24 06:23	12/19/24 05:21	1
2-Methylphenol	<0.104	U	0.568	0.104	ug/L		12/16/24 06:23	12/19/24 05:21	1
Diethyl phthalate	<1.42	U	2.84	1.42	ug/L		12/16/24 06:23	12/19/24 05:21	1
Dimethyl phthalate	<1.42	U	2.84	1.42	ug/L		12/16/24 06:23	12/19/24 05:21	1

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp

Lab Sample ID: 860-89093-1

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	<1.42	U	2.84	1.42	ug/L		12/16/24 06:23	12/19/24 05:21	1
Di-n-octyl phthalate	<1.42	U *+	2.84	1.42	ug/L		12/16/24 06:23	12/19/24 05:21	1
Fluoranthene	<0.0878	U *+	0.568	0.0878	ug/L		12/16/24 06:23	12/19/24 05:21	1
Fluorene	<0.0943	U	0.568	0.0943	ug/L		12/16/24 06:23	12/19/24 05:21	1
Hexachlorobenzene	<0.0969	U	0.568	0.0969	ug/L		12/16/24 06:23	12/19/24 05:21	1
m & p - Cresol	0.184	J	0.568	0.138	ug/L		12/16/24 06:23	12/19/24 05:21	1
Hexachlorobutadiene	<0.102	U	0.568	0.102	ug/L		12/16/24 06:23	12/19/24 05:21	1
Hexachlorocyclopentadiene	0.243	J *+ I	0.568	0.0509	ug/L		12/16/24 06:23	12/19/24 05:21	1
Hexachloroethane	<0.101	U	0.568	0.101	ug/L		12/16/24 06:23	12/19/24 05:21	1
Indeno[1,2,3-cd]pyrene	<0.0994	U	0.568	0.0994	ug/L		12/16/24 06:23	12/19/24 05:21	1
Isophorone	<0.106	U	0.568	0.106	ug/L		12/16/24 06:23	12/19/24 05:21	1
Naphthalene	<0.0939	U	0.568	0.0939	ug/L		12/16/24 06:23	12/19/24 05:21	1
Nitrobenzene	<0.0732	U	0.568	0.0732	ug/L		12/16/24 06:23	12/19/24 05:21	1
N-Nitrosodimethylamine	<0.0994	U *-	0.568	0.0994	ug/L		12/16/24 06:23	12/19/24 05:21	1
N-Nitrosodi-n-propylamine	<0.118	U	0.568	0.118	ug/L		12/16/24 06:23	12/19/24 05:21	1
N-Nitrosodiphenylamine	<0.144	U	0.568	0.144	ug/L		12/16/24 06:23	12/19/24 05:21	1
Pentachlorophenol	<1.03	U	1.14	1.03	ug/L		12/16/24 06:23	12/19/24 05:21	1
Phenanthrene	<0.133	U *+	0.568	0.133	ug/L		12/16/24 06:23	12/19/24 05:21	1
Phenol	<1.14	U	1.14	1.14	ug/L		12/16/24 06:23	12/19/24 05:21	1
Pyrene	<0.0844	U *+	0.568	0.0844	ug/L		12/16/24 06:23	12/19/24 05:21	1
Guthion	<0.0161	U	0.0568	0.0161	ug/L		12/16/24 06:23	12/19/24 05:21	1
Chlorpyrifos	<0.0158	U *+	0.0568	0.0158	ug/L		12/16/24 06:23	12/19/24 05:21	1
Demeton, Total	<0.0167	U	0.0568	0.0167	ug/L		12/16/24 06:23	12/19/24 05:21	1
Diazinon	<0.0148	U *+	0.114	0.0148	ug/L		12/16/24 06:23	12/19/24 05:21	1
Ethyl Parathion	<0.0499	U *+	0.114	0.0499	ug/L		12/16/24 06:23	12/19/24 05:21	1
Malathion	<0.0149	U *+	0.0568	0.0149	ug/L		12/16/24 06:23	12/19/24 05:21	1
N-Nitrosodi-n-butylamine	<0.513	U	1.14	0.513	ug/L		12/16/24 06:23	12/19/24 05:21	1
Pentachlorobenzene	<0.264	U	0.568	0.264	ug/L		12/16/24 06:23	12/19/24 05:21	1
Pyridine	<1.43	U *1	2.84	1.43	ug/L		12/16/24 06:23	12/19/24 05:21	1
1,2,4,5-Tetrachlorobenzene	<0.0952	U	0.568	0.0952	ug/L		12/16/24 06:23	12/19/24 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*35 - 130*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
2-Fluorobiphenyl	*78*		*43 - 130*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
2-Fluorophenol (Surr)	*61*		*19 - 120*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
Nitrobenzene-d5 (Surr)	*94*		*37 - 133*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
Phenol-d5 (Surr)	*36*		*8 - 124*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
p-Terphenyl-d14 (Surr)	*97*		*47 - 130*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
2,4,6-Tribromophenol (Surr)	*100*		*35 - 130*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
2-Fluorobiphenyl	*78*		*43 - 130*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
2-Fluorophenol (Surr)	*61*		*19 - 120*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
Nitrobenzene-d5 (Surr)	*94*		*37 - 133*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
Phenol-d5 (Surr)	*36*		*8 - 124*	*12/16/24 06:23*	*12/19/24 05:21*	*1*
p-Terphenyl-d14 (Surr)	*97*		*47 - 130*	*12/16/24 06:23*	*12/19/24 05:21*	*1*

Method: ASTM D7065-11 - Determination of Nonylphenols

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<1250	U	5480	1250	ng/L		12/16/24 11:29	12/18/24 12:13	1
Bisphenol-A	<1130	U *1	2300	1130	ng/L		12/16/24 11:29	12/18/24 12:13	1

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp

Lab Sample ID: 860-89093-1

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

Method: ASTM D7065-11 - Determination of Nonylphenols (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-tert-Octylphenol	<307	U	1100	307	ng/L		12/16/24 11:29	12/18/24 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*97*		*58 - 115*	*12/16/24 11:29*	*12/18/24 12:13*	*1*
4-nonylphenol monoethoxylate (Surr)	*73*		*54 - 139*	*12/16/24 11:29*	*12/18/24 12:13*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0000179	U	0.0000502	0.0000179	mg/L		12/14/24 08:19	12/17/24 18:50	1
4,4'-DDE	<0.0000161	U	0.0000502	0.0000161	mg/L		12/14/24 08:19	12/17/24 18:50	1
4,4'-DDT	<0.0000180	U	0.0000502	0.0000180	mg/L		12/14/24 08:19	12/17/24 18:50	1
Aldrin	<0.0000159	U	0.0000502	0.0000159	mg/L		12/14/24 08:19	12/17/24 18:50	1
alpha-BHC	<0.0000160	U	0.0000502	0.0000160	mg/L		12/14/24 08:19	12/17/24 18:50	1
alpha-Chlordane	<0.0000189	U	0.0000502	0.0000189	mg/L		12/14/24 08:19	12/17/24 18:50	1
beta-BHC	<0.0000173	U	0.0000502	0.0000173	mg/L		12/14/24 08:19	12/17/24 18:50	1
Chlordane	<0.000196	U	0.00100	0.000196	mg/L		12/14/24 08:19	12/17/24 18:50	1
delta-BHC	<0.00000878	U	0.0000502	0.0000087 8	mg/L		12/14/24 08:19	12/17/24 18:50	1
Dieldrin	<0.0000173	U	0.0000502	0.0000173	mg/L		12/14/24 08:19	12/17/24 18:50	1
Endosulfan I	<0.0000186	U	0.0000502	0.0000186	mg/L		12/14/24 08:19	12/17/24 18:50	1
Endosulfan II	<0.0000177	U	0.0000502	0.0000177	mg/L		12/14/24 08:19	12/17/24 18:50	1
Endosulfan sulfate	<0.0000153	U	0.0000502	0.0000153	mg/L		12/14/24 08:19	12/17/24 18:50	1
Endrin	<0.0000167	U	0.0000502	0.0000167	mg/L		12/14/24 08:19	12/17/24 18:50	1
Endrin aldehyde	<0.0000168	U	0.0000502	0.0000168	mg/L		12/14/24 08:19	12/17/24 18:50	1
Endrin ketone	<0.0000171	U	0.0000502	0.0000171	mg/L		12/14/24 08:19	12/17/24 18:50	1
gamma-BHC (Lindane)	<0.0000170	U	0.0000502	0.0000170	mg/L		12/14/24 08:19	12/17/24 18:50	1
gamma-Chlordane	<0.0000189	U	0.0000502	0.0000189	mg/L		12/14/24 08:19	12/17/24 18:50	1
Heptachlor	<0.0000278	U	0.0000502	0.0000278	mg/L		12/14/24 08:19	12/17/24 18:50	1
Heptachlor epoxide	<0.0000183	U	0.0000502	0.0000183	mg/L		12/14/24 08:19	12/17/24 18:50	1
Methoxychlor	<0.0000187	U	0.0000502	0.0000187	mg/L		12/14/24 08:19	12/17/24 18:50	1
Toxaphene	<0.000338	U	0.00100	0.000338	mg/L		12/14/24 08:19	12/17/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*28 - 94*	*12/14/24 08:19*	*12/17/24 18:50*	*1*
Tetrachloro-m-xylene	*90*		*52 - 134*	*12/14/24 08:19*	*12/17/24 18:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0000523	U	0.000251	0.0000523	mg/L		12/14/24 08:19	12/17/24 18:50	1
PCB-1221	<0.0000523	U	0.000502	0.0000523	mg/L		12/14/24 08:19	12/17/24 18:50	1
PCB-1232	<0.0000523	U	0.000502	0.0000523	mg/L		12/14/24 08:19	12/17/24 18:50	1
PCB-1242	<0.0000523	U	0.000251	0.0000523	mg/L		12/14/24 08:19	12/17/24 18:50	1
PCB-1248	<0.0000523	U	0.000502	0.0000523	mg/L		12/14/24 08:19	12/17/24 18:50	1
PCB-1254	<0.0000657	U	0.000502	0.0000657	mg/L		12/14/24 08:19	12/17/24 18:50	1
PCB-1260	<0.0000657	U	0.000251	0.0000657	mg/L		12/14/24 08:19	12/17/24 18:50	1
Polychlorinated biphenyls, Total	NC		0.000251	0.0000523	mg/L		12/14/24 08:19	12/17/24 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*90*		*52 - 134*	*12/14/24 08:19*	*12/17/24 18:50*	*1*
DCB Decachlorobiphenyl (Surr)	*50*		*28 - 94*	*12/14/24 08:19*	*12/17/24 18:50*	*1*

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp

Lab Sample ID: 860-89093-1

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

Method: EPA-01 614 - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	<1.77	U	12.5	1.77	ug/L		12/17/24 14:44	12/19/24 22:23	1
Diazinon	<0.735	U	2.50	0.735	ug/L		12/17/24 14:44	12/19/24 22:23	1
Disulfoton	<1.61	U	5.00	1.61	ug/L		12/17/24 14:44	12/19/24 22:23	1
Malathion	<0.665	U	10.0	0.665	ug/L		12/17/24 14:44	12/19/24 22:23	1
Methyl parathion	<0.705	U	20.0	0.705	ug/L		12/17/24 14:44	12/19/24 22:23	1
Ethyl Parathion	<0.720	U	5.00	0.720	ug/L		12/17/24 14:44	12/19/24 22:23	1
Demeton, Total	<1.05	U	15.0	1.05	ug/L		12/17/24 14:44	12/19/24 22:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Chlormephos (Surr)	*74*		*49 - 171*	*12/17/24 14:44*	*12/19/24 22:23*	*1*
Triphenylphosphate (Surr)	*105*		*60 - 154*	*12/17/24 14:44*	*12/19/24 22:23*	*1*

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000542	U	0.000201	0.0000542	mg/L		12/13/24 13:14	12/17/24 23:48	1
2,4-DB	<0.0000496	U	0.000201	0.0000496	mg/L		12/13/24 13:14	12/19/24 18:32	1
Silvex (2,4,5-TP)	<0.0000425	U	0.000201	0.0000425	mg/L		12/13/24 13:14	12/17/24 23:48	1
2,4,5-T	<0.0000395	U	0.000201	0.0000395	mg/L		12/13/24 13:14	12/16/24 20:08	1
Dalapon	<0.0000479	U	0.000201	0.0000479	mg/L		12/13/24 13:14	12/16/24 20:08	1
Dicamba	<0.0000426	U	0.000201	0.0000426	mg/L		12/13/24 13:14	12/16/24 20:08	1
Dichlorprop	<0.0000530	U	0.000201	0.0000530	mg/L		12/13/24 13:14	12/17/24 23:48	1
Dinoseb	<0.0000345	U	0.000201	0.0000345	mg/L		12/13/24 13:14	12/16/24 20:08	1
MCPA	<0.00529	U	0.0201	0.00529	mg/L		12/13/24 13:14	12/17/24 23:48	1
MCPP	<0.0100	U *+	0.0201	0.0100	mg/L		12/13/24 13:14	12/16/24 20:08	1
Pentachlorophenol	<0.0000446	U	0.000201	0.0000446	mg/L		12/13/24 13:14	12/16/24 20:08	1
Hexachlorophene	<0.000813	U *+ *1	0.00503	0.000813	mg/L		12/13/24 13:14	12/16/24 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*88*		*45 - 150*	*12/13/24 13:14*	*12/16/24 20:08*	*1*
2,4-Dichlorophenylacetic acid	*103*		*45 - 150*	*12/13/24 13:14*	*12/19/24 18:32*	*1*

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		12/17/24 04:20	12/18/24 00:56	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		12/17/24 04:20	12/18/24 00:56	1

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			12/18/24 14:45	1

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp LL Blank

Lab Sample ID: 860-89093-2

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			12/18/24 14:49	1

Surrogate Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	FBP (43-130)	FBP (43-130)	2FP (19-120)	2FP (19-120)	NBZ (37-133)	NBZ (37-133)	PHL (8-124)	PHL (8-124)
860-89093-1	Mauriceville Long Permit Renewal E	78	78	61	61	94	94	36	36
LCS 860-205547/2-A	Lab Control Sample	98	98	58	58	114	114	37	37
LCS 860-205547/4-A	Lab Control Sample	101	101	61	61	115	115	39	39
LCSD 860-205547/3-A	Lab Control Sample Dup	100	100	61	61	114	114	40	40
LCSD 860-205547/5-A	Lab Control Sample Dup	100	100	59	59	113	113	39	39
MB 860-205547/1-A	Method Blank	93	93	56	56	109	109	38	38

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TPHd14 (47-130)	TPHd14 (47-130)	TBP (35-130)	TBP (35-130)
860-89093-1	Mauriceville Long Permit Renewal E	97	97	100	100
LCS 860-205547/2-A	Lab Control Sample	150 S1+	150 S1+	128	128
LCS 860-205547/4-A	Lab Control Sample	144 S1+	144 S1+	129	129
LCSD 860-205547/3-A	Lab Control Sample Dup	138 S1+	138 S1+	136 S1+	136 S1+
LCSD 860-205547/5-A	Lab Control Sample Dup	141 S1+	141 S1+	114	114
MB 860-205547/1-A	Method Blank	135 S1+	135 S1+	95	95

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: D7065-11 - Determination of Nonylphenols

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	4NPH (58-115)	4NPME (54-139)
860-89093-1	Mauriceville Long Permit Renewal E	97	73
LCS 280-678606/2-A	Lab Control Sample	71	67
LCSD 280-678606/3-A	Lab Control Sample Dup	89	85
MB 280-678606/1-A	Method Blank	70	60

Surrogate Legend

4NPH = 4-nonylphenol (Surr)
4NPME = 4-nonylphenol monoethoxylate (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DCB1 (28-94)	TCX1 (52-134)	TCX1 (52-134)
860-89093-1	Mauriceville Long Permit Renewal E	50	90	90
LCS 860-205465/2-A	Lab Control Sample	80	89	89
LCSD 860-205465/3-A	Lab Control Sample Dup	77	84	84
MB 860-205465/1-A	Method Blank	100 S1+	89	89

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

TCX = Tetrachloro-m-xylene

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 (52-134)	DCB1 (28-94)
860-89093-1	Mauriceville Long Permit Renewal E	90	50

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

Method: 614 - Organophosphorous Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) CMF1 (49-171)	TPP1 (60-154)
860-89093-1	Mauriceville Long Permit Renewal E	74	105
LCS 280-678812/2-A	Lab Control Sample	80	107
LCSD 280-678812/3-A	Lab Control Sample Dup	78	100
MB 280-678812/1-A	Method Blank	77	96

Surrogate Legend

CMF = Chlormephos (Surr)

TPP = Triphenylphosphate (Surr)

Method: 615 - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) DCPAA1 (45-150)
860-89093-1	Mauriceville Long Permit Renewal E	88
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	103
LCS 860-205359/2-A	Lab Control Sample	67
LCS 860-205359/4-A	Lab Control Sample	55
LCSD 860-205359/3-A	Lab Control Sample Dup	67
LCSD 860-205359/5-A	Lab Control Sample Dup	76
MB 860-205359/1-A	Method Blank	81

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

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

Lab Sample ID: MB 860-205547/1-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		12/16/24 06:23	12/16/24 17:11	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		12/16/24 06:23	12/16/24 17:11	1
1,2-Diphenylhydrazine	<0.286	U	0.571	0.286	ug/L		12/16/24 06:23	12/16/24 17:11	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		12/16/24 06:23	12/16/24 17:11	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,2'-oxybis[1-chloropropane]	<0.128	U	0.571	0.128	ug/L		12/16/24 06:23	12/16/24 17:11	1
Disulfoton	<0.203	U	0.571	0.203	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		12/16/24 06:23	12/16/24 17:11	1
Methyl parathion	<0.319	U	0.571	0.319	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,4-Dinitrophenol	<0.104	U	5.71	0.104	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		12/16/24 06:23	12/16/24 17:11	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		12/16/24 06:23	12/16/24 17:11	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		12/16/24 06:23	12/16/24 17:11	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		12/16/24 06:23	12/16/24 17:11	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		12/16/24 06:23	12/16/24 17:11	1
4,6-Dinitro-2-methylphenol	<0.201	U	1.14	0.201	ug/L		12/16/24 06:23	12/16/24 17:11	1
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		12/16/24 06:23	12/16/24 17:11	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		12/16/24 06:23	12/16/24 17:11	1
4-Chloro-3-methylphenol	<0.104	U	0.571	0.104	ug/L		12/16/24 06:23	12/16/24 17:11	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		12/16/24 06:23	12/16/24 17:11	1
4-Nitrophenol	<0.135	U	0.571	0.135	ug/L		12/16/24 06:23	12/16/24 17:11	1
Acenaphthene	<0.107	U	0.571	0.107	ug/L		12/16/24 06:23	12/16/24 17:11	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		12/16/24 06:23	12/16/24 17:11	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		12/16/24 06:23	12/16/24 17:11	1
Azobenzene	<0.104	U	0.571	0.104	ug/L		12/16/24 06:23	12/16/24 17:11	1
Benzidine	<0.0900	U	1.14	0.0900	ug/L		12/16/24 06:23	12/16/24 17:11	1
Benzo[a]anthracene	<0.00953	U	0.114	0.00953	ug/L		12/16/24 06:23	12/16/24 17:11	1
Benzo[a]pyrene	<0.0100	U	0.114	0.0100	ug/L		12/16/24 06:23	12/16/24 17:11	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		12/16/24 06:23	12/16/24 17:11	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		12/16/24 06:23	12/16/24 17:11	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		12/16/24 06:23	12/16/24 17:11	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		12/16/24 06:23	12/16/24 17:11	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		12/16/24 06:23	12/16/24 17:11	1
Bis(2-ethylhexyl) phthalate	<1.43	U	2.86	1.43	ug/L		12/16/24 06:23	12/16/24 17:11	1
Butyl benzyl phthalate	<1.43	U	2.86	1.43	ug/L		12/16/24 06:23	12/16/24 17:11	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		12/16/24 06:23	12/16/24 17:11	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		12/16/24 06:23	12/16/24 17:11	1
2-Methylphenol	<0.105	U	0.571	0.105	ug/L		12/16/24 06:23	12/16/24 17:11	1
Diethyl phthalate	<1.43	U	2.86	1.43	ug/L		12/16/24 06:23	12/16/24 17:11	1
Dimethyl phthalate	<1.43	U	2.86	1.43	ug/L		12/16/24 06:23	12/16/24 17:11	1
Di-n-butyl phthalate	<1.43	U	2.86	1.43	ug/L		12/16/24 06:23	12/16/24 17:11	1
Di-n-octyl phthalate	<1.43	U	2.86	1.43	ug/L		12/16/24 06:23	12/16/24 17:11	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		12/16/24 06:23	12/16/24 17:11	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		12/16/24 06:23	12/16/24 17:11	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		12/16/24 06:23	12/16/24 17:11	1

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

Lab Sample ID: MB 860-205547/1-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205547

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m & p - Cresol	<0.139	U	0.571	0.139	ug/L		12/16/24 06:23	12/16/24 17:11	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		12/16/24 06:23	12/16/24 17:11	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		12/16/24 06:23	12/16/24 17:11	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		12/16/24 06:23	12/16/24 17:11	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		12/16/24 06:23	12/16/24 17:11	1
Isophorone	<0.107	U	0.571	0.107	ug/L		12/16/24 06:23	12/16/24 17:11	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		12/16/24 06:23	12/16/24 17:11	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		12/16/24 06:23	12/16/24 17:11	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		12/16/24 06:23	12/16/24 17:11	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		12/16/24 06:23	12/16/24 17:11	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		12/16/24 06:23	12/16/24 17:11	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		12/16/24 06:23	12/16/24 17:11	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		12/16/24 06:23	12/16/24 17:11	1
Phenol	<1.14	U	1.14	1.14	ug/L		12/16/24 06:23	12/16/24 17:11	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		12/16/24 06:23	12/16/24 17:11	1
Azinphos-methyl	<0.0162	U	0.0571	0.0162	ug/L		12/16/24 06:23	12/16/24 17:11	1
Guthion	<0.0162	U	0.0571	0.0162	ug/L		12/16/24 06:23	12/16/24 17:11	1
Chlorpyrifos	<0.0159	U	0.0571	0.0159	ug/L		12/16/24 06:23	12/16/24 17:11	1
Demeton, Total	<0.0168	U	0.0571	0.0168	ug/L		12/16/24 06:23	12/16/24 17:11	1
Diazinon	<0.0148	U	0.114	0.0148	ug/L		12/16/24 06:23	12/16/24 17:11	1
Ethyl Parathion	<0.0502	U	0.114	0.0502	ug/L		12/16/24 06:23	12/16/24 17:11	1
Malathion	<0.0150	U	0.0571	0.0150	ug/L		12/16/24 06:23	12/16/24 17:11	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		12/16/24 06:23	12/16/24 17:11	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		12/16/24 06:23	12/16/24 17:11	1
Pyridine	<1.44	U	2.86	1.44	ug/L		12/16/24 06:23	12/16/24 17:11	1
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		12/16/24 06:23	12/16/24 17:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*35 - 130*	*12/16/24 06:23*	*12/16/24 17:11*	*1*
2-Fluorobiphenyl	*93*		*43 - 130*	*12/16/24 06:23*	*12/16/24 17:11*	*1*
2-Fluorophenol (Surr)	*56*		*19 - 120*	*12/16/24 06:23*	*12/16/24 17:11*	*1*
Nitrobenzene-d5 (Surr)	*109*		*37 - 133*	*12/16/24 06:23*	*12/16/24 17:11*	*1*
Phenol-d5 (Surr)	*38*		*8 - 124*	*12/16/24 06:23*	*12/16/24 17:11*	*1*
p-Terphenyl-d14 (Surr)	*135*	*S1+*	*47 - 130*	*12/16/24 06:23*	*12/16/24 17:11*	*1*

Lab Sample ID: LCS 860-205547/2-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	5.71	4.135		ug/L		72	57 - 130
1,2-Dichlorobenzene	5.71	4.272		ug/L		75	32 - 130
1,2-Diphenylhydrazine	5.71	6.799	I	ug/L		119	48 - 130
1,3-Dichlorobenzene	5.71	4.179		ug/L		73	26 - 130
1,4-Dichlorobenzene	5.71	4.095		ug/L		72	28 - 130
2,2'-oxybis[1-chloropropane]	5.71	5.885		ug/L		103	63 - 139
2,4,6-Trichlorophenol	5.71	6.634		ug/L		116	52 - 129
2,4-Dichlorophenol	5.71	7.162	*+	ug/L		125	53 - 122

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

Lab Sample ID: LCS 860-205547/2-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	5.71	10.95	*+	ug/L		192	42 - 120
2,4-Dinitrophenol	5.71	2.898	J	ug/L		51	26 - 173
2,4-Dinitrotoluene	5.71	4.685		ug/L		82	48 - 127
2,6-Dinitrotoluene	5.71	5.441		ug/L		95	68 - 137
2-Chloronaphthalene	5.71	5.993		ug/L		105	65 - 120
2-Chlorophenol	5.71	5.883		ug/L		103	36 - 120
2-Nitrophenol	5.71	6.431		ug/L		113	45 - 167
3,3'-Dichlorobenzidine	5.71	6.818		ug/L		119	20 - 150
4,6-Dinitro-2-methylphenol	5.71	4.389		ug/L		77	53 - 130
4-Bromophenyl phenyl ether	5.71	6.453		ug/L		113	65 - 120
2,4,5-Trichlorophenol	5.71	7.038		ug/L		123	35 - 130
4-Chloro-3-methylphenol	5.71	6.821		ug/L		119	41 - 128
4-Chlorophenyl phenyl ether	5.71	6.414		ug/L		112	38 - 145
4-Nitrophenol	5.71	2.141		ug/L		37	13 - 129
Acenaphthene	5.71	6.142		ug/L		107	60 - 132
Acenaphthylene	5.71	7.276	*+	ug/L		127	54 - 126
Anthracene	5.71	8.451	*+	ug/L		148	43 - 120
Azobenzene	5.71	6.069		ug/L		106	63 - 130
Benzidine	5.71	3.089		ug/L		54	11 - 110
Benzo[a]anthracene	5.71	8.269	*+	ug/L		145	42 - 133
Benzo[a]pyrene	5.71	7.218		ug/L		126	32 - 148
Benzo[b]fluoranthene	5.71	8.414	*+	ug/L		147	42 - 140
Benzo[g,h,i]perylene	5.71	7.064		ug/L		124	25 - 195
Benzo[k]fluoranthene	5.71	7.964		ug/L		139	25 - 146
Bis(2-chloroethoxy)methane	5.71	7.354		ug/L		129	49 - 165
Bis(2-chloroethyl)ether	5.71	6.257		ug/L		109	43 - 126
Bis(2-ethylhexyl) phthalate	5.71	8.332	*+	ug/L		146	29 - 137
Butyl benzyl phthalate	5.71	6.976		ug/L		122	70 - 130
Chrysene	5.71	7.442		ug/L		130	47 - 130
Dibenz(a,h)anthracene	5.71	7.388		ug/L		129	32 - 200
2-Methylphenol	5.71	5.344		ug/L		94	14 - 176
Diethyl phthalate	5.71	6.834		ug/L		120	62 - 120
Dimethyl phthalate	5.71	6.511		ug/L		114	67 - 120
Di-n-butyl phthalate	5.71	6.477		ug/L		113	8 - 120
Di-n-octyl phthalate	5.71	8.216	*+	ug/L		144	19 - 132
Fluoranthene	5.71	8.093	*+	ug/L		142	43 - 121
Fluorene	5.71	6.616		ug/L		116	70 - 120
Hexachlorobenzene	5.71	7.050		ug/L		123	8 - 142
m & p - Cresol	5.71	5.300		ug/L		93	22 - 130
Hexachlorobutadiene	5.71	4.132		ug/L		72	38 - 120
Hexachlorocyclopentadiene	5.71	11.02	*+	ug/L		193	10 - 130
Hexachloroethane	5.71	4.408		ug/L		77	55 - 120
Indeno[1,2,3-cd]pyrene	5.71	7.354		ug/L		129	29 - 151
Isophorone	5.71	6.810		ug/L		119	47 - 180
Naphthalene	5.71	5.805		ug/L		102	36 - 120
Nitrobenzene	5.71	6.229		ug/L		109	54 - 130
N-Nitrosodimethylamine	5.71	1.462	*-	ug/L		26	30 - 130
N-Nitrosodi-n-propylamine	5.71	5.071		ug/L		89	14 - 198
N-Nitrosodiphenylamine	5.71	6.691		ug/L		117	60 - 130

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

Lab Sample ID: LCS 860-205547/2-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	5.71	5.701		ug/L		100	38 - 152
Phenanthrene	5.71	8.020	*+	ug/L		140	65 - 120
Phenol	5.71	2.112		ug/L		37	17 - 120
Pyrene	5.71	7.967	*+	ug/L		139	70 - 120
N-Nitrosodi-n-butylamine	5.71	6.308		ug/L		110	58 - 130
Pentachlorobenzene	5.71	6.124		ug/L		107	47 - 130
Pyridine	5.71	<1.44	U	ug/L		11	1 - 126
1,2,4,5-Tetrachlorobenzene	5.71	5.434		ug/L		95	52 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*128*		*35 - 130*
2-Fluorobiphenyl	*98*		*43 - 130*
2-Fluorophenol (Surr)	*58*		*19 - 120*
Nitrobenzene-d5 (Surr)	*114*		*37 - 133*
Phenol-d5 (Surr)	*37*		*8 - 124*
p-Terphenyl-d14 (Surr)	*150*	*S1+*	*47 - 130*

Lab Sample ID: LCS 860-205547/4-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Demeton-O	0.857	2.034	*+	ug/L		237	50 - 150
Demeton-S	2.00	3.095	*+	ug/L		155	50 - 150
Disulfoton	5.71	5.850		ug/L		102	38 - 134
Methyl parathion	5.71	5.630		ug/L		99	26 - 159
Azinphos-methyl	2.86	5.369		ug/L		188	70 - 200
Guthion	2.86	5.369		ug/L		188	70 - 200
Chlorpyrifos	2.86	4.218	*+	ug/L		148	34 - 130
Diazinon	2.86	5.206	*+	ug/L		182	37 - 130
Ethyl Parathion	2.86	5.353	*+	ug/L		187	25 - 173
Malathion	2.86	4.941	*+	ug/L		173	50 - 150
N-Nitrosodi-n-butylamine	11.4	13.34		ug/L		117	58 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*129*		*35 - 130*
2-Fluorobiphenyl	*101*		*43 - 130*
2-Fluorophenol (Surr)	*61*		*19 - 120*
Nitrobenzene-d5 (Surr)	*115*		*37 - 133*
Phenol-d5 (Surr)	*39*		*8 - 124*
p-Terphenyl-d14 (Surr)	*144*	*S1+*	*47 - 130*

Lab Sample ID: LCSD 860-205547/3-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	5.71	4.221		ug/L		74	57 - 130	2	30

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

Lab Sample ID: LCSD 860-205547/3-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	5.71	7.291		ug/L		128	29 - 151	1	30
Isophorone	5.71	6.884		ug/L		120	47 - 180	1	30
Naphthalene	5.71	5.911		ug/L		103	36 - 120	2	30
Nitrobenzene	5.71	6.478		ug/L		113	54 - 130	4	30
N-Nitrosodimethylamine	5.71	1.587	*-	ug/L		28	30 - 130	8	30
N-Nitrosodi-n-propylamine	5.71	5.467		ug/L		96	14 - 198	8	30
N-Nitrosodiphenylamine	5.71	6.839		ug/L		120	60 - 130	2	30
Pentachlorophenol	5.71	5.910		ug/L		103	38 - 152	4	30
Phenanthrene	5.71	7.377	*+	ug/L		129	65 - 120	8	24
Phenol	5.71	2.278		ug/L		40	17 - 120	8	30
Pyrene	5.71	7.343	*+	ug/L		128	70 - 120	8	30
N-Nitrosodi-n-butylamine	5.71	6.654		ug/L		116	58 - 130	5	30
Pentachlorobenzene	5.71	6.365		ug/L		111	47 - 130	4	30
Pyridine	5.71	<1.44	U *1	ug/L		18	1 - 126	48	30
1,2,4,5-Tetrachlorobenzene	5.71	5.406		ug/L		95	52 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*136*	*S1+*	*35 - 130*
2-Fluorobiphenyl	*100*		*43 - 130*
2-Fluorophenol (Surr)	*61*		*19 - 120*
Nitrobenzene-d5 (Surr)	*114*		*37 - 133*
Phenol-d5 (Surr)	*40*		*8 - 124*
p-Terphenyl-d14 (Surr)	*138*	*S1+*	*47 - 130*

Lab Sample ID: LCSD 860-205547/5-A
Matrix: Water
Analysis Batch: 205628

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205547

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Demeton-O	0.857	2.012	*+	ug/L		235	50 - 150	1	30
Demeton-S	2.00	2.953		ug/L		148	50 - 150	5	30
Disulfoton	5.71	5.919		ug/L		104	38 - 134	1	30
Methyl parathion	5.71	5.647		ug/L		99	26 - 159	0	30
Azinphos-methyl	2.86	5.544		ug/L		194	70 - 200	3	30
Guthion	2.86	5.544		ug/L		194	70 - 200	3	30
Chlorpyrifos	2.86	4.340	*+	ug/L		152	34 - 130	3	30
Diazinon	2.86	4.968	*+	ug/L		174	37 - 130	5	30
Ethyl Parathion	2.86	5.481	*+	ug/L		192	25 - 173	2	30
Malathion	2.86	4.734	*+	ug/L		166	50 - 150	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*114*		*35 - 130*
2-Fluorobiphenyl	*100*		*43 - 130*
2-Fluorophenol (Surr)	*59*		*19 - 120*
Nitrobenzene-d5 (Surr)	*113*		*37 - 133*
Phenol-d5 (Surr)	*39*		*8 - 124*
p-Terphenyl-d14 (Surr)	*141*	*S1+*	*47 - 130*

Method: D7065-11 - Determination of Nonylphenols

Lab Sample ID: MB 280-678606/1-A
Matrix: Water
Analysis Batch: 678786

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<1140	U	5000	1140	ng/L		12/16/24 11:29	12/17/24 13:20	1
Bisphenol-A	<1030	U	2100	1030	ng/L		12/16/24 11:29	12/17/24 13:20	1
4-tert-Octylphenol	<280	U	1000	280	ng/L		12/16/24 11:29	12/17/24 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*70*		*58 - 115*	*12/16/24 11:29*	*12/17/24 13:20*	*1*
4-nonylphenol monoethoxylate (Surr)	*60*		*54 - 139*	*12/16/24 11:29*	*12/17/24 13:20*	*1*

Lab Sample ID: LCS 280-678606/2-A
Matrix: Water
Analysis Batch: 678786

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nonylphenol	51300	32910		ng/L		64	56 - 125
Bisphenol-A	10100	5776		ng/L		57	52 - 125
4-tert-Octylphenol	10100	6656		ng/L		66	55 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-nonylphenol (Surr)	*71*		*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*67*		*54 - 139*

Lab Sample ID: LCSD 280-678606/3-A
Matrix: Water
Analysis Batch: 678786

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678606

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonylphenol	51300	40450		ng/L		79	56 - 125	21	22
Bisphenol-A	10100	7445	*1	ng/L		73	52 - 125	25	22
4-tert-Octylphenol	10100	7839		ng/L		78	55 - 125	16	24

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-nonylphenol (Surr)	*89*		*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*85*		*54 - 139*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-205465/1-A
Matrix: Water
Analysis Batch: 205629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0000179	U	0.0000500	0.0000179	mg/L		12/14/24 08:18	12/16/24 12:04	1
4,4'-DDE	<0.0000161	U	0.0000500	0.0000161	mg/L		12/14/24 08:18	12/16/24 12:04	1
4,4'-DDT	<0.0000180	U	0.0000500	0.0000180	mg/L		12/14/24 08:18	12/16/24 12:04	1
Aldrin	<0.0000158	U	0.0000500	0.0000158	mg/L		12/14/24 08:18	12/16/24 12:04	1
alpha-BHC	<0.0000159	U	0.0000500	0.0000159	mg/L		12/14/24 08:18	12/16/24 12:04	1

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: MB 860-205465/1-A
Matrix: Water
Analysis Batch: 205629

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	<0.0000188	U	0.0000500	0.0000188	mg/L		12/14/24 08:18	12/16/24 12:04	1
beta-BHC	<0.0000172	U	0.0000500	0.0000172	mg/L		12/14/24 08:18	12/16/24 12:04	1
Chlordane	<0.000195	U	0.00100	0.000195	mg/L		12/14/24 08:18	12/16/24 12:04	1
delta-BHC	<0.00000874	U	0.0000500	0.0000087 4	mg/L		12/14/24 08:18	12/16/24 12:04	1
Dieldrin	<0.0000173	U	0.0000500	0.0000173	mg/L		12/14/24 08:18	12/16/24 12:04	1
Endosulfan I	<0.0000186	U	0.0000500	0.0000186	mg/L		12/14/24 08:18	12/16/24 12:04	1
Endosulfan II	<0.0000177	U	0.0000500	0.0000177	mg/L		12/14/24 08:18	12/16/24 12:04	1
Endosulfan sulfate	<0.0000152	U	0.0000500	0.0000152	mg/L		12/14/24 08:18	12/16/24 12:04	1
Endrin	<0.0000166	U	0.0000500	0.0000166	mg/L		12/14/24 08:18	12/16/24 12:04	1
Endrin aldehyde	<0.0000167	U	0.0000500	0.0000167	mg/L		12/14/24 08:18	12/16/24 12:04	1
Endrin ketone	<0.0000171	U	0.0000500	0.0000171	mg/L		12/14/24 08:18	12/16/24 12:04	1
gamma-BHC (Lindane)	<0.0000170	U	0.0000500	0.0000170	mg/L		12/14/24 08:18	12/16/24 12:04	1
gamma-Chlordane	<0.0000188	U	0.0000500	0.0000188	mg/L		12/14/24 08:18	12/16/24 12:04	1
Heptachlor	<0.0000277	U	0.0000500	0.0000277	mg/L		12/14/24 08:18	12/16/24 12:04	1
Heptachlor epoxide	<0.0000182	U	0.0000500	0.0000182	mg/L		12/14/24 08:18	12/16/24 12:04	1
Methoxychlor	<0.0000186	U	0.0000500	0.0000186	mg/L		12/14/24 08:18	12/16/24 12:04	1
Toxaphene	<0.000337	U	0.00100	0.000337	mg/L		12/14/24 08:18	12/16/24 12:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*	*S1+*	*28 - 94*	*12/14/24 08:18*	*12/16/24 12:04*	*1*
Tetrachloro-m-xylene	*89*		*52 - 134*	*12/14/24 08:18*	*12/16/24 12:04*	*1*
Tetrachloro-m-xylene (Surr)	*89*		*52 - 134*	*12/14/24 08:18*	*12/16/24 12:04*	*1*

Lab Sample ID: LCS 860-205465/2-A
Matrix: Water
Analysis Batch: 205913

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.00125	0.0009941		mg/L		80	60 - 111
4,4'-DDE	0.00125	0.0009751		mg/L		78	47 - 97
4,4'-DDT	0.00125	0.001003		mg/L		80	53 - 96
Aldrin	0.00125	0.0009531		mg/L		76	52 - 110
alpha-BHC	0.00125	0.0009946		mg/L		80	58 - 105
alpha-Chlordane	0.00125	0.0009739		mg/L		78	53 - 106
beta-BHC	0.00125	0.0009698		mg/L		78	52 - 98
delta-BHC	0.00125	0.0007153		mg/L		57	30 - 120
Dieldrin	0.00125	0.0009778		mg/L		78	57 - 107
Endosulfan I	0.00125	0.0009921		mg/L		79	56 - 110
Endosulfan II	0.00125	0.0009797		mg/L		78	58 - 108
Endosulfan sulfate	0.00125	0.0008851		mg/L		71	57 - 101
Endrin	0.00125	0.001181		mg/L		94	55 - 102
Endrin aldehyde	0.00125	0.001006		mg/L		80	48 - 96
Endrin ketone	0.00125	0.0009281		mg/L		74	59 - 107
gamma-BHC (Lindane)	0.00125	0.001020		mg/L		82	59 - 107
gamma-Chlordane	0.00125	0.0009635		mg/L		77	52 - 103
Heptachlor	0.00125	0.0009599		mg/L		77	55 - 106
Heptachlor epoxide	0.00125	0.0009995		mg/L		80	56 - 109
Methoxychlor	0.00125	0.0009677		mg/L		77	53 - 102

Method: 614 - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: MB 280-678812/1-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 678812

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Chlormephos (Surr)	77		49 - 171	12/17/24 14:44	12/19/24 20:29	1
Triphenylphosphate (Surr)	96		60 - 154	12/17/24 14:44	12/19/24 20:29	1

Lab Sample ID: LCS 280-678812/2-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 678812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Azinphos-methyl	4.00	3.636		ug/L		91	42 - 125
Diazinon	4.00	3.581		ug/L		90	47 - 149
Disulfoton	4.00	3.415		ug/L		85	44 - 139
Malathion	4.00	3.504		ug/L		88	53 - 137
Methyl parathion	4.00	3.499	J	ug/L		87	55 - 131
Ethyl Parathion	4.00	3.723		ug/L		93	47 - 142
Demeton, Total	4.00	3.257		ug/L		81	33 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Chlormephos (Surr)	80		49 - 171
Triphenylphosphate (Surr)	107		60 - 154

Lab Sample ID: LCSD 280-678812/3-A
Matrix: Water
Analysis Batch: 679225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 678812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Azinphos-methyl	4.00	3.762		ug/L		94	42 - 125	3	36
Diazinon	4.00	3.703		ug/L		93	47 - 149	3	40
Disulfoton	4.00	3.333		ug/L		83	44 - 139	2	40
Malathion	4.00	3.492		ug/L		87	53 - 137	0	28
Methyl parathion	4.00	3.481	J	ug/L		87	55 - 131	1	30
Ethyl Parathion	4.00	3.666		ug/L		92	47 - 142	2	40
Demeton, Total	4.00	3.458		ug/L		86	33 - 141	6	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Chlormephos (Surr)	78		49 - 171
Triphenylphosphate (Surr)	100		60 - 154

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-205359/1-A
Matrix: Water
Analysis Batch: 205694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0000539	U	0.000200	0.0000539	mg/L		12/13/24 13:14	12/16/24 16:34	1
2,4-DB	<0.0000493	U	0.000200	0.0000493	mg/L		12/13/24 13:14	12/16/24 16:34	1
Silvex (2,4,5-TP)	<0.0000422	U	0.000200	0.0000422	mg/L		12/13/24 13:14	12/16/24 16:34	1
2,4,5-T	<0.0000393	U	0.000200	0.0000393	mg/L		12/13/24 13:14	12/16/24 16:34	1

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: MB 860-205359/1-A
Matrix: Water
Analysis Batch: 205694

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205359

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dalapon	<0.0000476	U	0.000200	0.0000476	mg/L		12/13/24 13:14	12/16/24 16:34	1
Dicamba	<0.0000423	U	0.000200	0.0000423	mg/L		12/13/24 13:14	12/16/24 16:34	1
Dichlorprop	<0.0000527	U	0.000200	0.0000527	mg/L		12/13/24 13:14	12/16/24 16:34	1
Dinoseb	<0.0000343	U	0.000200	0.0000343	mg/L		12/13/24 13:14	12/16/24 16:34	1
MCPA	<0.00526	U	0.0200	0.00526	mg/L		12/13/24 13:14	12/16/24 16:34	1
MCPP	<0.00996	U	0.0200	0.00996	mg/L		12/13/24 13:14	12/16/24 16:34	1
Pentachlorophenol	<0.0000443	U	0.000200	0.0000443	mg/L		12/13/24 13:14	12/16/24 16:34	1
Hexachlorophene	<0.000808	U	0.00500	0.000808	mg/L		12/13/24 13:14	12/16/24 16:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*45 - 150*	*12/13/24 13:14*	*12/16/24 16:34*	*1*

Lab Sample ID: LCS 860-205359/2-A
Matrix: Water
Analysis Batch: 205694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	0.00200	0.001290		mg/L		65	55 - 145
2,4-DB	0.00200	0.001236		mg/L		62	55 - 150
Silvex (2,4,5-TP)	0.00200	0.001402		mg/L		70	55 - 140
2,4,5-T	0.00200	0.001206		mg/L		60	60 - 130
Dalapon	0.00200	0.003003		mg/L		150	50 - 150
Dicamba	0.00200	0.001446		mg/L		72	55 - 135
Dichlorprop	0.00200	0.001398		mg/L		70	55 - 140
Dinoseb	0.00200	0.0009099		mg/L		45	20 - 100
MCPA	0.200	0.1391		mg/L		70	55 - 145
MCPP	0.200	0.6186	*+	mg/L		309	65 - 155
Pentachlorophenol	0.00200	0.001175		mg/L		59	50 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*67*		*45 - 150*

Lab Sample ID: LCS 860-205359/4-A
Matrix: Water
Analysis Batch: 206072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205359

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachlorophene	0.00800	0.004820	J	mg/L		60	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*55*		*45 - 150*

Lab Sample ID: LCSD 860-205359/3-A
Matrix: Water
Analysis Batch: 205694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205359

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	0.00200	0.001194		mg/L		60	55 - 145	8	25

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCSD 860-205359/3-A
Matrix: Water
Analysis Batch: 205694

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205359

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-DB	0.00200	0.001164		mg/L		58	55 - 150	6	25
Silvex (2,4,5-TP)	0.00200	0.001337		mg/L		67	55 - 140	5	25
2,4,5-T	0.00200	0.001227		mg/L		61	60 - 130	2	25
Dalapon	0.00200	0.002960		mg/L		148	50 - 150	1	25
Dicamba	0.00200	0.001310		mg/L		66	55 - 135	10	25
Dichlorprop	0.00200	0.001329		mg/L		66	55 - 140	5	25
Dinoseb	0.00200	0.0008940		mg/L		45	20 - 100	2	25
MCPA	0.200	0.1229		mg/L		61	55 - 145	12	25
MCPP	0.200	0.5218	*+	mg/L		261	65 - 155	17	25
Pentachlorophenol	0.00200	0.001113		mg/L		56	50 - 135	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*67*		*45 - 150*

Lab Sample ID: LCSD 860-205359/5-A
Matrix: Water
Analysis Batch: 206072

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205359

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorophene	0.00800	0.006697	*1	mg/L		84	60 - 135	33	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*76*		*45 - 150*

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-205812/1-A
Matrix: Water
Analysis Batch: 206303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 205812

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		12/17/24 04:20	12/17/24 21:38	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		12/17/24 04:20	12/17/24 21:38	1

Lab Sample ID: LCS 860-205812/2-A
Matrix: Water
Analysis Batch: 206303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 205812

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	105.6		ug/L		106	70 - 130
Diuron	2.00	2.179		ug/L		109	70 - 130

Lab Sample ID: LCSD 860-205812/3-A
Matrix: Water
Analysis Batch: 206303

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 205812

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	106.3		ug/L		106	70 - 130	1	20
Diuron	2.00	2.391		ug/L		120	70 - 130	9	20

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 192-27283/23
Matrix: Water
Analysis Batch: 27283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			12/18/24 13:12	1

Lab Sample ID: MB 192-27283/24
Matrix: Water
Analysis Batch: 27283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			12/18/24 13:16	1

Lab Sample ID: MB 192-27283/25
Matrix: Water
Analysis Batch: 27283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000290	U	0.000500	0.000290	ug/L			12/18/24 13:21	1

Lab Sample ID: LCS 192-27283/26
Matrix: Water
Analysis Batch: 27283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.005626		ug/L		113	77 - 123

Lab Sample ID: 860-88911-A-1 MS
Matrix: Water
Analysis Batch: 27283

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000290	U	0.00500	0.005985		ug/L		120	71 - 125

Lab Sample ID: 860-88911-A-1 MSD
Matrix: Water
Analysis Batch: 27283

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000290	U	0.00500	0.005697		ug/L		114	71 - 125	5	24

GC/MS Semi VOA

Prep Batch: 205547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	3511	
MB 860-205547/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-205547/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-205547/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-205547/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-205547/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 205628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-205547/1-A	Method Blank	Total/NA	Water	625.1	205547
LCS 860-205547/2-A	Lab Control Sample	Total/NA	Water	625.1	205547
LCS 860-205547/4-A	Lab Control Sample	Total/NA	Water	625.1	205547
LCSD 860-205547/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	205547
LCSD 860-205547/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	205547

Analysis Batch: 206381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	625.1	205547

Prep Batch: 678606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	D7065-11	
MB 280-678606/1-A	Method Blank	Total/NA	Water	D7065-11	
LCS 280-678606/2-A	Lab Control Sample	Total/NA	Water	D7065-11	
LCSD 280-678606/3-A	Lab Control Sample Dup	Total/NA	Water	D7065-11	

Analysis Batch: 678786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-678606/1-A	Method Blank	Total/NA	Water	D7065-11	678606
LCS 280-678606/2-A	Lab Control Sample	Total/NA	Water	D7065-11	678606
LCSD 280-678606/3-A	Lab Control Sample Dup	Total/NA	Water	D7065-11	678606

Analysis Batch: 678910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	D7065-11	678606

GC Semi VOA

Prep Batch: 205359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	3511	
MB 860-205359/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-205359/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-205359/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-205359/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-205359/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 205465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	3511	
MB 860-205465/1-A	Method Blank	Total/NA	Water	3511	

HPLC/IC (Continued)

Prep Batch: 205812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-205812/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 206303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	632	205812
MB 860-205812/1-A	Method Blank	Total/NA	Water	632	205812
LCS 860-205812/2-A	Lab Control Sample	Total/NA	Water	632	205812
LCSD 860-205812/3-A	Lab Control Sample Dup	Total/NA	Water	632	205812

Metals

Analysis Batch: 27283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Total/NA	Water	1631E	
860-89093-2	Mauriceville Long Permit Renewal Effluent Comp LL Bl	Total/NA	Water	1631E	
MB 192-27283/23	Method Blank	Total/NA	Water	1631E	
MB 192-27283/24	Method Blank	Total/NA	Water	1631E	
MB 192-27283/25	Method Blank	Total/NA	Water	1631E	
LCS 192-27283/26	Lab Control Sample	Total/NA	Water	1631E	
860-88911-A-1 MS	Matrix Spike	Total/NA	Water	1631E	
860-88911-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	1631E	

Lab Chronicle

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp

Lab Sample ID: 860-89093-1

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			70.4 mL	4 mL	205547	12/16/24 06:23	DR	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	206381	12/19/24 05:21	PXS	EET HOU
Total/NA	Prep	D7065-11			912.7 mL	1 mL	678606	12/16/24 11:29	EDW	EET DEN
Total/NA	Analysis	D7065-11		1	200 uL	200 uL	678910	12/18/24 12:13	RJC	EET DEN
Total/NA	Prep	3511			49.8 mL	5 mL	205465	12/14/24 08:19	BH	EET HOU
Total/NA	Analysis	608.3		1			205913	12/17/24 18:50	WP	EET HOU
Total/NA	Prep	614			200 mL	2 mL	678812	12/17/24 14:44	JES	EET DEN
Total/NA	Analysis	614		1	0.25 mL	0.25 mL	679225	12/19/24 22:23	MKW	EET DEN
Total/NA	Prep	3511			49.7 mL	4 mL	205359	12/13/24 13:14	BH	EET HOU
Total/NA	Analysis	615		1			205694	12/16/24 20:08	WP	EET HOU
Total/NA	Prep	3511			49.7 mL	4 mL	205359	12/13/24 13:14	BH	EET HOU
Total/NA	Analysis	615		1			206072	12/17/24 23:48	WP	EET HOU
Total/NA	Prep	3511			49.7 mL	4 mL	205359	12/13/24 13:14	BH	EET HOU
Total/NA	Analysis	615		1			206672	12/19/24 18:32	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	205812	12/17/24 04:20	DR	EET HOU
Total/NA	Analysis	632		1			206303	12/18/24 00:56	YG	EET HOU
Total/NA	Analysis	1631E		1	5 mL	5 mL	27283	12/18/24 14:45	EQ5	EET ARK

Client Sample ID: Mauriceville Long Permit Renewal Effluent Comp LL Blank

Lab Sample ID: 860-89093-2

Date Collected: 12/10/24 00:00
Date Received: 12/12/24 09:40

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	27283	12/18/24 14:49	EQ5	EET ARK

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	12-20-25
Oklahoma	NELAP	1306	12-31-24
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-25
Florida	NELAP	E871188	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	12-31-24
Oregon	NELAP	4192	07-12-25
Texas	NELAP	T104704575	05-31-25
Washington	State	C1087	07-13-25

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-19-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-25
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24 *
Oregon	NELAP	4025	01-08-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Method	Method Description	Protocol	Laboratory
625.1	Semivolatile Organic Compounds (GC-MS/MS)	EPA	EET HOU
D7065-11	Determination of Nonylphenols	ASTM	EET DEN
608.3	Organochlorine Pesticides in Water	EPA	EET HOU
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET HOU
614	Organophosphorous Pesticides (GC)	EPA-01	EET DEN
615	Herbicides (GC)	EPA-01	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK
3511	Microextraction of Organic Compounds	SW846	EET HOU
614	Liquid-Liquid Extraction	EPA-01	EET DEN
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
D7065-11	Liquid-Liquid Extraction (Continuous)	ASTM	EET DEN

Protocol References:

ASTM = ASTM International

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.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Eastex Environmental Laboratory Inc.
Project/Site: Mauriceville Long Permit Renewal

Job ID: 860-89093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-89093-1	Mauriceville Long Permit Renewal Effluent Comp	Water	12/10/24 00:00	12/12/24 09:40
860-89093-2	Mauriceville Long Permit Renewal Effluent Comp LL Blank	Water	12/10/24 00:00	12/12/24 09:40

SUBCONTRACT ORDER

EASTEX ENVIRONMENTAL LABS INC.

860-89093 Chain of Custody

Sending Laboratory:

Eastex Environmental Laboratory - Coldspring
PO Box 1089
Coldspring, TX 77331

Phone: 936-653-3249
eastexlab@eastex.net
Project Manager: Daniel Bowen
dbowen@eastexlabs.com

Subcontracted Laboratory:

Eurofins Xenco LLC
4147 Greenbriar Dr.
Stafford, TX 77477

Phone: 713-690-4444
Fax: 713-690-5646

PO 121224L

Requested Turnaround 10 Days

Sample ID: Mauriceville Long Permit Renewal Effluent Comp **Sample No: 4491520-01** ***Water*** **Sampled: 12/10/2024 00:00**

Containers Supplied: 9

Special Instructions. SEE LIST

Sample ID: Mauriceville Long Permit Renewal Effluent Grab **Sample No: 4491520-02** ***Water*** **Sampled: 12/10/2024 09:17**

Containers Supplied:

Special Instructions. SEE LIST

Please DO NOT RUN
any volatiles or metals

Please Comp HG LL

Temp: 1.5 IR ID:HOU-368
C/F:-0.1
Corrected Temp: 1.4

☐ **See Attached**

Received Iced Y/N Temp _____

Mauriceville MUD

Released By — 12/12/24 0900 Date & Time

Received By — 12/12/24 0900 Date & Time

ANALYSIS LIST

ACIDIC HERBICIDES-PERMIT

CARBARYL/DIURON EPA 632

MERCURY LL

MERCURY LL BLANK

NONYLPHENOL

ORGANOPHOSPHORUS PESTICIDES

PCB – PERMIT 608.3

PESTICIDES MIREX, DICOFOL 608.3

PESTICIDES – PERMIT 608.3

SEMI-VOLATILES – PERMIT (625.1)

DOMESTIC WORKSHEET 4.0

POLLUTANT ANALYSES 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 for minor amendments without renewal

Section 1. Toxic Pollutants (Instructions Page 87)

For pollutants identified in Table 4 0(1), indicate the type of sample

Grab ☐ Composite ☐

Date and time sample(s) collected

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0 01
Aluminum				2 5
Anthracene				10
Antimony				5
Arsenic				0 5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Benzo(a)pyrene				5
Bis(2 chloroethyl)ether				10
Bis(2 ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0 2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroform				10
Chlorpyrifos				0 05
Chromium (Total)				3
Chromium (Tri) (*1)				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p Chloro m Cresol				10
4,6 Dinitro o-Cresol				50
p Cresol				10

Pollutant	AVG Effluent Conc (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Cyanide (*2)				10
4,4' DDD				0 1
4,4' DDE				0 1
4,4' DDT				0 02
2,4 D				0 7
Demeton (O and S)				0 20
Diazinon				0 5/0 1
1,2 Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p Dichlorobenzene				10
3,3' Dichlorobenzidine				5
1,2 Dichloroethane				10
1,1 Dichloroethylene				10
Dichloromethane				20
1,2 Dichloropropane				10
1,3 Dichloropropene				10
Dicofol				1
Dieldrin				0 02
2,4 Dimethylphenol				10
Di n Butyl Phthalate				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Diuron				0 09
Endosulfan I (alpha)				0 01
Endosulfan II (beta)				0 02
Endosulfan Sulfate				0 1
Endrin				0 02
Ethylbenzene				10
Fluoride				500
Guthion				0 1
Heptachlor				0 01
Heptachlor Epoxide				0 01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0 05
Hexachlorocyclohexane (beta)				0 05
gamma Hexachlorocyclohexane (Lindane)				0 05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0 5
Malathion				0 1

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Mercury				0 005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0 02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N Nitrosodiethylamine				20
N Nitroso di n Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0 1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) (*3)				0 2
Pyridine				20
Selenium				5
Silver				0 5
1,2,4,5 Tetrachlorobenzene				20
1,1,2,2 Tetrachloroethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Tetrachloroethylene				10
Thallium				0 5
Toluene				10
Toxaphene				0 3
2,4,5 TP (Silvex)				0 3
Tributyltin (see instructions for explanation)				0 01
1,1,1 Trichloroethane				10
1,1,2 Trichloroethane				10
Trichloroethylene				10
2,4,5 Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

Date and time sample(s) collected·

Table 4.0(2)A - Metals, Cyanide, Phenols

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0 5
Beryllium				0 5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0 5
Mercury				0 005
Nickel				2
Selenium				5
Silver				0 5
Thallium				0 5
Zinc				5
Cyanide (*2)				10
Phenols, Total				10

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

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

Table 4.0(2)B - Volatile Compounds

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Toluene				10
1,1,1 Trichloroethane				10
1,1,2 Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

Table 4.0(2)C - Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Di n Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6 Dinitrotoluene				10
Di n Octyl Phthalate				10
1,2 Diphenylhydrazine (as Azo-benzene)				20
Fluoranthene				10
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo pentadiene				10
Hexachloroethane				20
Indeno(1,2,3 cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N Nitrosodimethylamine				50
N Nitrosodi n Propylamine				20
N Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4 Trichlorobenzene				10

Table 4.0(2)E Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0 01
alpha BHC (Hexachlorocyclohexane)				0 05
beta BHC (Hexachlorocyclohexane)				0 05
gamma-BHC (Hexachlorocyclohexane)				0 05
delta BHC (Hexachlorocyclohexane)				0 05
Chlordane				0 2
4,4 DDT				0 02
4,4 DDE				0 1
4,4, DDD				0 1
Dieldrin				0 02
Endosulfan I (alpha)				0 01
Endosulfan II (beta)				0 02
Endosulfan Sulfate				0 1
Endrin				0 02
Endrin Aldehyde				0 1
Heptachlor				0 01
Heptachlor Epoxide				0 01
PCB 1242				0 2
PCB 1254				0 2
PCB 1221				0 2
PCB 1232				0 2

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
PCB 1248				0 2
PCB 1260				0 2
PCB 1016				0 2
Toxaphene				0 3

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5 trichlorophenoxy acetic acid
Common Name 2,4,5 T, CASRN 93 76 5

☐ 2 (2,4,5 trichlorophenoxy) propanoic acid
Common Name Silvex or 2,4,5 TP, CASRN 93 72 1

☐ 2 (2,4,5 trichlorophenoxy) ethyl 2,2 dichloropropionate
Common Name Erbon, CASRN 136 25 4

☐ 0,0 dimethyl 0 (2,4,5 trichlorophenyl) phosphorothioate
Common Name Ronnel, CASRN 299 84 3

☐ 2,4,5 trichlorophenol
Common Name TCP, CASRN 95 95 4

☐ hexachlorophene
Common Name HCP, CASRN 70-30-4

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

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garza, Sylvia	Carrier Tracking No(s): N/A	COC No: 860-182694.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sylvia.Garza@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-89093-1
Address: 8600 Kanis Rd, ,	Due Date Requested: 12/19/2024			
City: Little Rock	TAT Requested (days): N/A			
State, Zip: AR, 72204				
Phone: 501-224-5060(Tel) 501-224-5075(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Mauriceville Long Permit Renewal	Project #: 86000838			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E_NP/ LL Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code						
Mauriceville Long Permit Renewal Effluent Comp (860-89093-1)	12/10/24	Central	G	Water			X	2	
Mauriceville Long Permit Renewal Effluent Comp LL Blank (860-8	12/10/24	Central	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/13/24 17:00	Company	Received by: Samantha Bittgen	Date/Time: 12/14/24 0935	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4°C

Ver: 10/10/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Garza, Sylvia	Carrier Tracking No(s): N/A	COC No: 860-182698.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Sylvia.Garza@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-89093-1
Address: 4955 Yarrow Street,	Due Date Requested: 12/19/2024			Preservation Codes: -
City: Arvada	TAT Requested (days): N/A			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Mauriceville Long Permit Renewal	Project #: 86000838			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D7065_11/D7065_11_W_Prep (MOD) Local Method	614/614_Prep Organophosphorous Pesticides (GC)	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Mauriceville Long Permit Renewal Effluent Comp (860-89093-1)	12/10/24	Central	G	Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 12/13/24 17:00	Company	Received by:	Date/Time: 12/14/24 0915	Company FEDEX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: -0.1 IR Gun (CF46.2)

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-89093-1

Login Number: 89093
List Number: 2
Creator: Rubio, Yuri

List Source: Eurofins Houston

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?	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	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-89093-1

Login Number: 89093
List Number: 4
Creator: Brown, Danny

List Source: Eurofins Arkansas
List Creation: 12/16/24 10:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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	Received project as a subcontract.
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Eastex Environmental Laboratory Inc.

Job Number: 860-89093-1

Login Number: 89093
List Number: 3
Creator: Rystrom, Joshua R

List Source: Eurofins Denver
List Creation: 12/14/24 03:09 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	N/A	
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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331 (936) 653-3249 * (800) 525-0508
P.O. Box 631375 * Nacogdoches, TX 75963-1375 (936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: Mauriceville MUD
Address:
Attn:
Phone#:
Email:
P.O. #:
Sampler's Name (print): VIRGIL WILLIFORD
Sampler's Signature:
Project Name: Permit Renewal

INVOICE TO:

Company:
Address: on file
Attn:
Phone#:

Remarks:

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL 6=125mL (4oz) 7=60mL (2 oz) 8= 40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres	ANALYSIS REQUESTED: LL HG	Blank LL HG
4491520	Eff Grab1	12.10.24	9:40	WW	G							8	G	C	X	
	Eff Grab 2	12.10.24	9:41	WW	G							8	G	C	X	
	Eff Grab 3				G							8	G	C	X	
	Eff Grab 4				G							8	G	C	X	
	LL HG BLANK				G							8	G	C		X

Relinquished By: Received By: Date 12-10-24 Time 1424 Received Iced: YES / NO
Relinquished By: Received By: Date Time Received Iced: YES / NO
Relinquished By: Received By and/or Checked in By: Date 12-10-24 Time 1630 Received Iced: YES / NO

LAB USE ONLY
Sample Condition Acceptable: YES / NO
Alternate Check In:
Date Time
Temp °C: 1.4
*Therm ID: 15
Logged In By: Date 12.10 Time 1944

*Thermometer has 0.0 factor and recorded temperature is actual temperature

EASTEX ENVIRONMENTAL LABORATORY, INC.

P.O. Box 1089 * Coldspring, TX 77331 (936) 653-3249 * (800) 525-0508
P.O. Box 631375 * Nacogdoches, TX 75963-1375 (936) 569-8879 * FAX (936) 569-8951
www.eastexlabs.com

White Copy-Follows Samples
Yellow Copy-Laboratory
Pink Copy-Client Copy

REPORT TO:

Company: Mauriceville MUD
Address: P.O. Box 1000
Mauriceville, TX 77626
Attn:
Phone#: (409) 745-4882
Email:
P.O. #:
Sampler's Name (print): VIRGIL WILLIFORD
Sampler's Signature:
Project Name: Permit Renewal

INVOICE TO:

Company:
Address: on file
Attn:
Phone#:

Remarks:

INSTRUCTIONS:

C or G: C= Composite G= Grab
Matrix: DW=Drinking Water WW=Wastewater SO=Soil/Sludge OT= Other
Container Size: 1=Gallon 2=1/2 Gallon 3=Quart/Liter 4=500mL 5=250mL 6=125mL (4oz) 7=60mL (2 oz) 8= 40mL Vial 9=Other
Type: P= Plastic G= Glass T= Teflon S= Sterile
Preservatives: C=Chilled S=Sulfuric Acid N=Nitric Acid B=Base/Caustic Z= Zn Acetate ST=Sodium Thiosulfate H=HCL O= Other

Work Order ID	Sample ID	Date	Time	Matrix	Field Data: C or G	DO	pH	Cl2	Flow	Temp	Containers: #	Size	Type	Pres	ANALYSIS REQUESTED: ECOLI	CBOD, TSS, TDS, ALK, COND, CL, N03N, SO4	NH3N, TKN, O&G, Phenool, TP	VOC - 624.1	CN	Metals	Chrom VI, N03N, F	SVOC 625.1 Pest 608.3, PCB, Mirex	Op 1657, Carb/Diuron, Herb 615	Nonylphenol
4491520	Effluent	12.10.24	9:17	WW	G			1.84			1	6	P,S	ST C	X									
	Effluent	12.10.24	10:04	WW	G						5	3,4,5	P	C		X								
	Effluent	12.10.24	10:13	WW	G						5	3,4,5	P,G	ST,S,N,C			X							
	Effluent	12.10.24	10:21	WW	G						6	8	G	H,C				X						
	Effluent	12.10.24	10:17	WW	G						1	4	P	NaOH, C					X					
	Effluent	12.10.24	9:28	WW	C						1	4	P	N,C						X				
	Effluent	12.10.24	9:32	WW	C						2	4,5	p	C							X			
	Effluent	12.10.24	9:49	WW	C						10	3	G	C								X	X	
	Effluent	12.10.24	9:50	WW	C						1	3	G	C										X

Relinquished By: _____ Received By: _____ Date 12-10-24 Time 9:24 Received Iced: YES / NO
Relinquished By: _____ Received By: _____ Date _____ Time _____ Received Iced: YES / NO
Relinquished By: _____ Received By and/or Checked In By: _____ Date 12-10-24 Time 1630 Received Iced: YES / NO

LAB USE ONLY Sample Condition Acceptable: YES / NO Temp °C 1.4 *Therm ID 15 Logged In By: _____ Date 12.10 Time 1944
Alternate Check In: Date Time

*Thermometer has 0.0 factor and recorded temperature is actual temperature

ATTACHMENT E: TCEQ EXEMPTION WAIVER TO 75-90 RULE

Mauriceville MUD

WQ0013839001

Attachment E: TCEQ Exemption Waiver to 75-90 Rule

Submitted under a separate cover as a 75-90 Rainfall Variance due to the amount of rain that falls across the wastewater treatment plant and increases their effluent discharge.

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 27, 2025

Ms. Lidia Solano
Engineer in Training
Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

RE: Application to Renew Permit No.: WQ0013839001 (EPA I.D. No. TX0114839)
Applicant Name: Mauriceville Municipal Utility District (CN600634885)
Site Name: Mauriceville (RN102286952)
Type of Application: Renewal without changes

VIA EMAIL

Dear Ms. Solano:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. Core Data Form (CDF)

   Section I, Item 1: The "Reason for Submittal" is not marked. Please provide an updated core data form with this item marked.

2. Supplemental Permit Information Form (SPIF)

   A Supplemental Permit Information Form was not provided. Please provide a SPIF.

3. Plain Language Summery (PLS)

   A Plain Language Summery was not provided. Please provide a PLS using the attached template.

4. USGS Map

   The provided USGS map was missing the Discharge Point, 1-mile radius, and the 3-mile route downstream or until a classified segment. Please provide an updated USGS map with the missing information added.

5. 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. Mauriceville Municipal Utility District, P.O. Box 1000, Mauriceville, Texas 77703, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0013839001 (EPA I.D. No. TX0114839) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 1,700,000 gallons per day. The domestic wastewater treatment facility is located at West of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, near the city of Orange, in Orange County, Texas 77626. The discharge route is from the plant site to an unnamed ditch; thence to County Line Relief Ditch; thence to Sabine River Above Tidal. TCEQ received this application on February 17, 2025. The permit application will be available for viewing and copying at Mauriceville MUD Office, Front Desk, 15509 Farm-to-Market road 1442, Orange, in Orange 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=-93.814722,30.230277&level=18

Further information may also be obtained from Mauriceville Municipal Utility District at the address stated above or by calling Mr. Brad Haeggquist, General Manager, at 409-745-4882.

Please submit the complete response, addressed to my attention by March 13, 2025. If you should have any questions, please do not hesitate to contact me by phone at (512) 239-4331 or by email at Brandon.Maldonado@tceq.texas.gov

Sincerely,

Brandon Maldonado

Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality

BM

Enclosure(s)

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

March 7, 2025

Ms. Lidia Solano
Engineer in Training
Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

RE: Declaration of Administrative Completeness
Applicant Name: Mauriceville Municipal Utility District (CN600634885)
Permit No.: WQ0013839001 (EPA I.D. No. TX0114839)
Site Name: Mauriceville (RN102286952)
Type of Application: Renewal without changes

Dear Ms. Solano:

The executive director has declared the above referenced application, received on February 17, 2025 administratively complete on March 7, 2025.

You are now required to publish notice of your proposed activity and make a copy of the application available for public review. The following items are included to help you meet the regulatory requirements associated with this notice:

- Instructions for Public Notice
- Notice for Newspaper Publication
- Public Notice Verification Form
- Publisher's Affidavits

You must follow all the directions in the enclosed instructions. The most common mistakes are the unauthorized changing of notice, wording, or font. If you fail to follow these instructions, you may be required to republish the notices.

The following requirements are also described in the enclosed instructions. However, due to their importance, they are highlighted here as well.

1. Publish the enclosed notice within **30 calendar days** after your application is declared administratively complete. (See this letter's first paragraph for the declaration date.) **You may be required to publish the notice in more than one newspaper, including a newspaper published in an alternative language, to satisfy all of the notice requirements.**
2. On or before the date you publish notice, place a copy of your permit application in a public place in the county where the facility is or will be located. This copy must be accessible to the public for review and copying, must be updated to reflect changes to the application, and must remain in place throughout the comment period.
3. For each publication, submit proof of publication of the notice that shows the publication date and newspaper name to the Office of the Chief Clerk within **30 calendar days** after notice is published in the newspaper.

4. Return the original enclosed Public Notice Verification and the Publisher's Affidavits to the Office of the Chief Clerk within **30 calendar days** after the notice is published in the newspaper.

If you do not comply with **all** the requirements described in the instructions, further processing of your application may be suspended, or the agency may take other actions.

If you have any questions regarding publication requirements, please contact the Office of Legal Services at (512) 239-0600. If you have any questions regarding the content of the notice, please contact Brandon Maldonado at (512) 239-3441 or Brandon.Maldonado@tceq.texas.gov.

Sincerely,



Jennifer E. Bowers
Section Manager, Water Quality Division Support
Office of Water
Texas Commission of Environmental Quality

JEB/BM

Enclosures

Brandon Maldonado

From: Brandon Maldonado
Sent: Friday, March 7, 2025 10:11 AM
To: OCC-WQ
Subject: FW: NORI for Permit No. WQ0013839001; Mauriceville Municipal Utility District; Mauriceville WWTF
Attachments: WQ0013839001-nori-letter.pdf; WQ0013839001-nori-eng.pdf; NORI Instructions Combined.pdf; WQ0013839001-contact-routing-sheets.docx

---

From: Brandon Maldonado
Sent: Friday, March 7, 2025 10:11 AM
To: lsolano@leadllc.com
Subject: NORI for Permit No. WQ0013839001; Mauriceville Municipal Utility District; Mauriceville WWTF

Good morning,

Permit No. WQ0013839001

Applicants are required to publish the Notice of Receipt of Application and Intent to Obtain a Water Quality Permit within 30 days of the application being declared administratively complete.

Attached are:

- Letter of Declaration of Administrative Completeness
- Notice of Receipt of Application and Intent to Obtain a Water Quality Permit
- Instructions of Public Notice
- Public Notice Verification Form
- Affidavit of Publication

IMPORTANT: You must enter the Applicant Name and Permit Number into the sections provided in the upper right portion of the Affidavit of Publication. The CID or CCO Number section does not need to be entered and is intended for internal use only.

Please let me know if you have any questions.

Thank you,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

Brandon Maldonado

From: Brandon Maldonado
Sent: Wednesday, March 5, 2025 3:30 PM
To: Lidia Solano
Cc: generalmanager@mauricevillemud.com; Jeff Leavins
Subject: RE: Application to Renew Permit No. WQ0013839001 - Notice of Deficiency Letter

Good afternoon,

Your response to all items of the NOD are sufficient. I can now work to admin complete your application.

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Lidia Solano <lsolano@leadllc.com>
Sent: Tuesday, March 4, 2025 11:32 AM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Cc: generalmanager@mauricevillemud.com; Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Application to Renew Permit No. WQ0013839001 - Notice of Deficiency Letter

Good morning Mr. Brandon Maldonado,

Please see below in response to Notice of Deficiency (NOD) items for the Mauriceville Municipal Utility District WWTP Permit Renewal (Permit No. WQ0013839001).

1. Core Data Form (CDF)
    a. Please see updated Core Data Form with Section I, Item 1: The “Reason for Submittal” marked.
2. Supplemental Permit Information Form (SPIF)
    a. Please see attached completed Supplemental Permit Information Form.
3. Plain Language Summary (PLS)
    a. Please see attached completed Plain Language Summary.
4. USGS Map
    a. Please see revised USGS map with the following information: Discharge Point, 1-mile radius, and the 3-mile route downstream.
5. Review of NORI

a. Please see corrections in **red** to revise in NORI.

APPLICATION. Mauriceville Municipal Utility District, P.O. Box 1000, Mauriceville, Texas ~~77703~~ **77626**, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0013839001 (EPA I.D. No. TX0114839) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 1,700,000 gallons per day. The domestic wastewater treatment facility is located at **8100 Zavalla Road, which is** West of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, near the city of Orange, in Orange County, Texas 77626. The discharge route is from the plant site to an unnamed ditch; thence to County Line Relief Ditch; thence to Sabine River Above Tidal. TCEQ received this application on February 17, 2025. The permit application will be available for viewing and copying at Mauriceville MUD Office, Front Desk, 15509 Farm-to-Market road 1442, Orange, in Orange 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=-93.814722,30.230277&level=18

Further information may also be obtained from Mauriceville Municipal Utility District at the address stated above or by calling Mr. Brad Haeggquist, General Manager, at 409-745-4882.

If there is anything else you need to be able to declare this application administratively complete, please let us know.

Thank you,

Lidia Solano, E.I.T
Engineer in Training

Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com

From: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Sent: Thursday, February 27, 2025 4:50 PM
To: Lidia Solano <lsolano@leadllc.com>
Subject: Application to Renew Permit No. WQ0013839001 - Notice of Deficiency Letter

Dear Ms. Lidia Solano

The attached Notice of Deficiency (NOD) letter sent on **February 27, 2025,** requests additional information needed to declare the application administratively complete. Please send complete response to my attention by **March 13, 2025.**

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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: Mauriceville Municipal Utility District (MMUD)

   Permit No. WQ00 13839001 EPA ID No. TX 0114839

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

   8100 Zavalla Road, which is west of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, in Orange County, Tx.

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: Brad Haeggquist

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

Title: General Manager

Mailing Address: P.O. Box 1000

City, State, Zip Code: Mauriceville, TX 77626

Phone No.: 409-745-4882 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: generalmanager@mauricevillemud.com

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

Click here to enter text.

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 to an unnamed ditch, thence to County Line Relief Ditch, thence to Sabine River Above Tidal in Segment No. 0502 of the Sabine River Basin.

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):

Click here to enter text.

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

Click here to enter text.

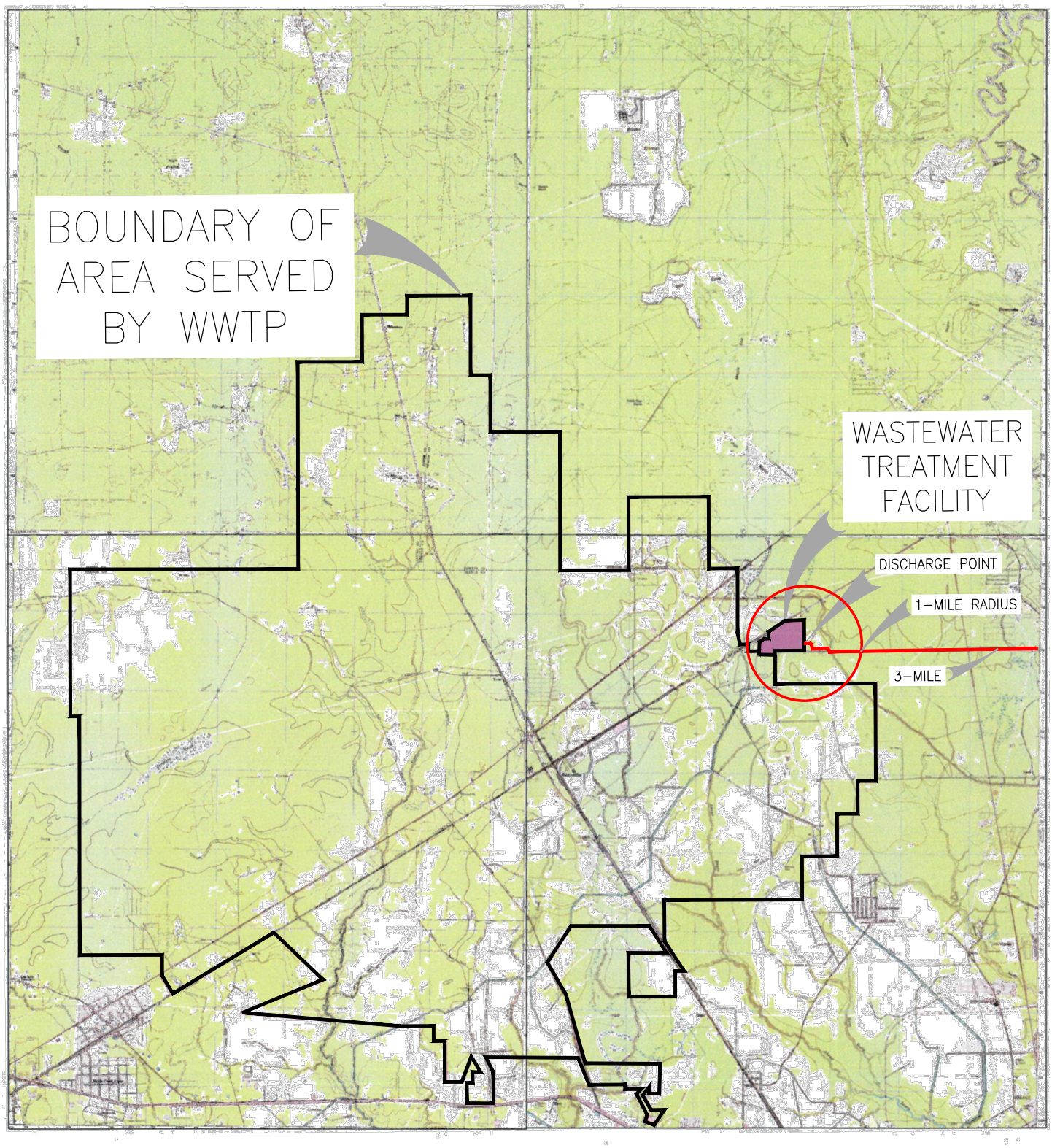
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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

Click here to enter text.

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

Click here to enter text.



USGS TOPOGRAPHIC MAP
ATTACHMENT A

DATE: MARCH 2025 | DR BY: LMS | SCALE: NTS

LEAD
LEAVINS ENGINEERING & DESIGN, LLC
TEXAS ENGINEERING FIRM NO. F-22257
3250 EASTEX FWY, BEAUMONT, TEXAS 77703
409-245-5130 | LEADLLC.COM

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's 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 blanks below to describe your facility and application. 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 Texas Administrative Code §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

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.

Mauriceville Municipal Utility District (CN600634885) operates the MMUD Waste Water Treatment Plant (RN102286952). The facility is located at 8100 Zavalla Road, which is west of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, near the city of Orange, in Orange County, Texas 77626.

This application is for a renewal to discharge at annual average flow of 1.7 million gallons per day of treated domestic wastewater.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical

Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include bar screen, facultative lagoon, free water surface constructed wetlands, with proposed chlorine contact chamber, and de-chlorination basin where effluent is then discharge at outfall.

INSTRUCTIONS

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

Examples

Example 1: Domestic Wastewater TPDES Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 2: TPDES New Application

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

The City of Texas (CN000000000) proposes to operate the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the extended aeration mode. The facility will be located at 123 Texas Street, in the City of More Texas, Texas County, Texas 71234.

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: TLAP Renewal application

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

The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

This application is for a renewal to dispose a daily average flow not to exceed 76,500 gallons per day of treated domestic wastewater via public access subsurface drip irrigation system with a minimum area of 32 acres. This permit will not authorize a discharge of pollutants into water in the state.

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600634885		**RN 102286952**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	04/29/2024

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

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

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Mauriceville Municpal Utility District	

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
	17604680276	76-0468027	840941587

11. Type of Customer:

☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: Municipality

12. Number of Employees

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

13. Independently Owned and Operated?

☐ **Yes** ☒ **No**

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

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

15. Mailing Address:	P.O. Box 1000						
	City	Mauriceville	**State**	TX	**ZIP**	77626	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	generalmanager@mauricevillemud.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(409) 745-4882		(409) 745-4591

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

Mauriceville Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	8100 Zavala Road							
	City	Orange	**State**	TX	**ZIP**	77632	**ZIP + 4**	
24. County	Orange							

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

25. Description to Physical Location:	West of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing in Orange County, TX 77626				
26. Nearest City			**State**	**Nearest ZIP Code**	
Orange			TX	77632	

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

27. Latitude (N) In Decimal:	30.2284472		**28. Longitude (W) In Decimal:**	-93.8179436	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

34. Mailing Address:	**P.O. Box 1000**							
	City	**Mauriceville**	**State**	**TX**	**ZIP**	**77626**	**ZIP + 4**	
35. E-Mail Address:	**generalmanager@mauricevillemud.com**							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(409) 745-4882		**(409) 745-4391**

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:
	WQ0013839001			

SECTION IV: Preparer Information

40. Name:	Brad Haeggquist		41. Title:	General Manager
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**	
(409) 745-4882		(409) 745-4591	generalmanager@mauricevillemud.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:	Mauriceville Municipal Utility District	Job Title:	General Manager
Name *(In Print)*:	Brad Haeggquist	Phone:	(409) 745- 4882
Signature:		Date: 2/10/2025	2/10/2025

Brandon Maldonado

From: Brandon Maldonado
Sent: Wednesday, March 5, 2025 3:30 PM
To: Lidia Solano
Cc: generalmanager@mauricevillemud.com; Jeff Leavins
Subject: RE: Application to Renew Permit No. WQ0013839001 - Notice of Deficiency Letter

Good afternoon,

Your response to all items of the NOD are sufficient. I can now work to admin complete your application.

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Lidia Solano <lsolano@leadllc.com>
Sent: Tuesday, March 4, 2025 11:32 AM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Cc: generalmanager@mauricevillemud.com; Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Application to Renew Permit No. WQ0013839001 - Notice of Deficiency Letter

Good morning Mr. Brandon Maldonado,

Please see below in response to Notice of Deficiency (NOD) items for the Mauriceville Municipal Utility District WWTP Permit Renewal (Permit No. WQ0013839001).

1. Core Data Form (CDF)
    a. Please see updated Core Data Form with Section I, Item 1: The “Reason for Submittal” marked.
2. Supplemental Permit Information Form (SPIF)
    a. Please see attached completed Supplemental Permit Information Form.
3. Plain Language Summary (PLS)
    a. Please see attached completed Plain Language Summary.
4. USGS Map
    a. Please see revised USGS map with the following information: Discharge Point, 1-mile radius, and the 3-mile route downstream.
5. Review of NORI

a. Please see corrections in **red** to revise in NORI.

APPLICATION. Mauriceville Municipal Utility District, P.O. Box 1000, Mauriceville, Texas ~~77703~~ **77626**, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0013839001 (EPA I.D. No. TX0114839) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 1,700,000 gallons per day. The domestic wastewater treatment facility is located at **8100 Zavalla Road, which is** West of State Route 87 and 300 feet north of the Sabine River Authority Canal Crossing, near the city of Orange, in Orange County, Texas 77626. The discharge route is from the plant site to an unnamed ditch; thence to County Line Relief Ditch; thence to Sabine River Above Tidal. TCEQ received this application on February 17, 2025. The permit application will be available for viewing and copying at Mauriceville MUD Office, Front Desk, 15509 Farm-to-Market road 1442, Orange, in Orange 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=-93.814722,30.230277&level=18

Further information may also be obtained from Mauriceville Municipal Utility District at the address stated above or by calling Mr. Brad Haeggquist, General Manager, at 409-745-4882.

If there is anything else you need to be able to declare this application administratively complete, please let us know.

Thank you,

Lidia Solano, E.I.T
Engineer in Training

Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com

From: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Sent: Thursday, February 27, 2025 4:50 PM
To: Lidia Solano <lsolano@leadllc.com>
Subject: Application to Renew Permit No. WQ0013839001 - Notice of Deficiency Letter

Dear Ms. Lidia Solano

The attached Notice of Deficiency (NOD) letter sent on **February 27, 2025,** requests additional information needed to declare the application administratively complete. Please send complete response to my attention by **March 13, 2025.**

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

Texas Commission on Environmental Quality

INTEROFFICE MEMORANDUM

Date: 3/10/25

To: Municipal Permits Team

Thru: Colleen Cook, Pretreatment Team Leader

From: Sarah O'Neill, Pretreatment Coordinator

Subject: Pretreatment program option for the TPDES Permit No. WQ0013839001 Mauriceville Municipal Utility District – Mauriceville WWTP summary sheet

I have reviewed the above referenced permit and have determined that the publicly-owned treatment works (POTW) receives the standard pretreatment language. This memo is placed in Permits

Option 1: This general pretreatment boilerplate language should be put in TPDES permits for all POTWs that do not have either an approved pretreatment program or requirement to develop a new pretreatment program.

Within this standard language, the Pretreatment Program has not incorporated additional pretreatment language requirements. Please incorporate the following language for permittee's FACT SHEET, if applicable, under:

1. INDUSTRIAL WASTE CONTRIBUTION

The Mauriceville WWTP does not appear to receive significant industrial wastewater contributions. Based on the information provided by the permittee in the most recent TPDES permit application, the TCEQ determined that there are no significant industrial wastewater contributions currently being discharged to the permittee's POTW.

2. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305 which references 40 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.

3. SUMMARY OF CHANGES FROM EXISTING PERMIT

The pretreatment language has not been updated from the current permit. The pretreatment requirements will continue until permit expiration.

From: Sumitra Pokharel
To: Lidia Solano
Cc: Jeff Leavins
Subject: RE: Request for information; Permit no. WQ0013839001
Date: Wednesday, July 2, 2025 10:58:00 AM
Attachments: image002.jpg
image005.png
image006.png
image007.jpg
image008.jpg
image012.jpg
image013.jpg
image014.png
image015.png
image001.jpg
image004.jpg

Good morning,

I wanted to follow up to confirm whether you have submitted the following items referenced in the Other Requirements section of your permit:

1. Operation and Maintenance Manual mentioned in **Other Requirement No. 5**, and
2. Evidence of legal restrictions prohibiting residential structures within the portion of the buffer zone not owned by the permittee, as referenced in **Other Requirement No. 7.**

If you have already submitted these documents, could you please resend them to me by July 9, 2025, so that I can update the draft permit?

Thank you, and please let me know if you have any questions.

Sincerely,

Sumitra Pokharel

Texas Commission on Environmental Quality
Municipal wastewater permitting section(MC-148)
Water Quality Division
Sumitra.Pokharel@tceq.texas.gov
(512)239-4722

How is our Customer Service?
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***For status of permit, visit** www.tceq.texas.gov/goto/cid.*
***The application forms have been updated (01/09/2024) on our** website.*

From: Sumitra Pokharel
Sent: Tuesday, June 24, 2025 2:17 PM
To: Lidia Solano <lsolano@leadllc.com>
Cc: Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Received, Thank you.

From: Lidia Solano <lsolano@leadllc.com>
Sent: Tuesday, June 24, 2025 1:46 PM
To: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Cc: Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Good afternoon Sumitra,

Thank you again for allowing us more time to respond. Please find our detailed responses in **red** below regarding the requested information for the ongoing renewal of Permit No. WQ0013839001 for Mauriceville MUD.

1. **Administrative Order Compliance:**
   Can you please provide an update on what has been done to resolve the issues outlined in the Administrative Order (2024-0395-MWD-E) issued on December 18, 2024? Any actions taken to address the violations and ensure compliance would be appreciated.

   Please find attached both the Administrative Order and Mauriceville MUD's formal response, for reference. As outlined in the response, the violations noted, specifically related to Water Quality of Flow and Ammonia Nitrogen levels, were primarily due to extreme environmental conditions in 2023.

   During that period, Southeast Texas experienced a severe drought coupled with prolonged high temperatures. These factors led to a significant reduction in influent flow and elevated temperatures in the treatment facility. The unusually low flow rates, combined with excessive heat, contributed to the die-off of beneficial plant life in the facultative lagoon and wetland cells. This, in turn, led to a temporary spike in ammonia nitrogen levels.

   Since then, Mauriceville MUD has taken corrective actions to address the causes and ensure compliance, including the removal of dead plant material

and accumulated sludge from facility, as to mitigate further deterioration of water quality.

2. **Recent Violations:**
   We have noted more recent violations related to Chlorine Residual, Flow, and Ammonia Nitrogen. Can you provide any information that might help explain the causes of these violations? Additionally, have any corrective actions been implemented to address these issues?

   To our knowledge, there have been no additional violations beyond those already addressed in the Administrative Order. If further violations have been identified by the TCEQ, we respectfully request the specific dates or sampling results so that we can review and respond accordingly.

   Additionally, we would like to direct your attention to Page 2 of the Executive Summary under "Corrective Action(s) Completed" in the attached documentation. It confirms that, as of December 31, 2023, Mauriceville MUD successfully implemented corrective measures and returned to full compliance with all permitted effluent limitations under TPDES Permit No. WQ0013839001.

3. **Facility's Ability to Comply with the Permit:**
   Is there anything else you would like the committee to consider in relation to the facility's ability to comply with the proposed permit conditions?

   Mauriceville MUD is committed to maintaining full compliance with the proposed permit conditions and has taken a proactive approach after violation notices.

   We would like to provide clarity on the pending 75/90 Rule Exception for Rainfall Variance. To briefly summarize, during wet weather, the amount of precipitation that falls directly on the facultative lagoon and three wetland cells causes the effluent flows to exceed the current limit. The District was previously granted this waiver on December 6, 2024, but this will expire on August 20, 2025. We were informed by the Office of Compliance and Enforcement that a request to extend or renew this 75/90 Rule Exception cannot be processed until the renewal for the discharge permit is formally issued.

Please let us know if any further clarification is required. We appreciate your guidance and

look forward to finalizing this permit renewal.

Thank you,

Lidia Solano, E.I.T
Engineer in Training

Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com

From: Lidia Solano
Sent: Thursday, June 19, 2025 10:41 AM
To: 'Sumitra Pokharel' <Sumitra.Pokharel@tceq.texas.gov>
Subject: RE: Request for information; Permit no. WQ0013839001

Sumitra,

Thank you so much for understanding. We will be sure to respond by then.

Have a great day!

Lidia Solano, E.I.T
Engineer in Training

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O: 409.245.5130
D: 409.247.2261

C: 832.633.4254
E: lsolano@leadllc.com



From: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Sent: Thursday, June 19, 2025 10:02 AM
To: Lidia Solano <lsolano@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Yes, I can grant an extension. The new deadline will be **June 24, 2025.**

From: Lidia Solano <lsolano@leadllc.com>
Sent: Thursday, June 19, 2025 9:56 AM
To: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Subject: RE: Request for information; Permit no. WQ0013839001

Good morning Sumitra,

We are working on compiling thorough responses to the requested information. We would like to kindly ask that you grant us an extension past June 20, 2025, so that we can respond accordingly.

Would this be possible?

Thank you,

Lidia Solano, E.I.T
Engineer in Training

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3250 Eastex Freeway
Beaumont, Texas 77703

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O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com



From: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Sent: Friday, June 13, 2025 8:54 AM
To: Lidia Solano <lsolano@leadllc.com>
Subject: Request for information; Permit no. WQ0013839001

Good morning, Lidia,

I hope this email finds you well. As part of the ongoing technical review of **Mauriceville WWTP** permit application, I would like to request the following information regarding the Administrative Order and recent violations:

1. **Administrative Order Compliance:**
   Can you please provide an update on what has been done to resolve the issues outlined in the Administrative Order (2024-0395-MWD-E) issued on December 18, 2024? Any actions taken to address the violations and ensure compliance would be appreciated.
2. **Recent Violations:**
   We have noted more recent violations related to Chlorine Residual, Flow, and Ammonia Nitrogen. Can you provide any information that might help explain the causes of these violations? Additionally, have any corrective actions been implemented to address these issues?
3. **Facility's Ability to Comply with the Permit:**
   Is there anything else you would like the committee to consider in relation to the facility's ability to comply with the proposed permit conditions?

Please provide this information by ***Friday 6/20/2025*** to assist in our review. If you have any questions or need further clarification, feel free to contact me directly.

Thank you for your attention to these matters.

Best regards,

Sumitra Pokharel
Texas Commission on Environmental Quality
Municipal wastewater permitting section(MC-148)
Water Quality Division
Sumitra.Pokharel@tceq.texas.gov
(512)239-4722



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From: Lidia Solano
To: Sumitra Pokharel
Cc: Jeff Leavins
Subject: RE: Request for information; Permit no. WQ0013839001
Date: Thursday, July 10, 2025 1:50:57 PM
Attachments: image002.jpg
image009.png
image010.png
image011.jpg
image016.jpg
image017.jpg
image018.jpg
image019.png
image020.png
image001.jpg
image004.jpg
image005.jpg
image012.jpg
Sewer Plant O&P Manual - Part 1.pdf
Sewer Plant O&P Manual - Part 2.pdf
Sewer Plant O&P Manual - Property Buffers.pdf
Sewer Plant O&P Manual - Property Lines.pdf
Buffer Zone Engineer Letter 081123.pdf

Good afternoon Sumitra,

Please see attached documents in response to the requested information related the Mauriceville MUD WWTP Permit Renewal:

1. Operation and Maintenance Manual mentioned in **Other Requirement No. 5**, and
2. Evidence of legal restrictions prohibiting residential structures within the portion of the buffer zone not owned by the permittee, as referenced in **Other Requirement No. 7.**

If there is any additional information needed, please let us know, and we will work to provide it as soon as possible.

Thank you,

Lidia Solano, E.I.T
Engineer in Training

Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com

From: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Sent: Wednesday, July 2, 2025 10:58 AM
To: Lidia Solano <lsolano@leadllc.com>
Cc: Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Good morning,

I wanted to follow up to confirm whether you have submitted the following items referenced in the Other Requirements section of your permit:

1. Operation and Maintenance Manual mentioned in **Other Requirement No. 5**, and
2. Evidence of legal restrictions prohibiting residential structures within the portion of the buffer zone not owned by the permittee, as referenced in **Other Requirement No. 7.**

If you have already submitted these documents, could you please resend them to me by July 11, 2025, so that I can update the draft permit?

Thank you, and please let me know if you have any questions.

Sincerely,

Sumitra Pokharel

Texas Commission on Environmental Quality
Municipal wastewater permitting section(MC-148)
Water Quality Division
Sumitra.Pokharel@tceq.texas.gov
(512)239-4722

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***For status of permit, visit** www.tceq.texas.gov/goto/cid.*
***The application forms have been updated (01/09/2024) on our** website.*

From: Sumitra Pokharel
Sent: Tuesday, June 24, 2025 2:17 PM
To: Lidia Solano <lsolano@leadllc.com>
Cc: Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Received, Thank you.

From: Lidia Solano <lsolano@leadllc.com>
Sent: Tuesday, June 24, 2025 1:46 PM
To: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Cc: Jeff Leavins <jleavins@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Good afternoon Sumitra,

Thank you again for allowing us more time to respond. Please find our detailed responses in **red** below regarding the requested information for the ongoing renewal of Permit No. WQ0013839001 for Mauriceville MUD.

1. **Administrative Order Compliance:**
   Can you please provide an update on what has been done to resolve the issues outlined in the Administrative Order (2024-0395-MWD-E) issued on December 18, 2024? Any actions taken to address the violations and ensure compliance would be appreciated.

   Please find attached both the Administrative Order and Mauriceville MUD's formal response, for reference. As outlined in the response, the violations noted, specifically related to Water Quality of Flow and Ammonia Nitrogen levels, were primarily due to extreme environmental conditions in 2023.

   During that period, Southeast Texas experienced a severe drought coupled with prolonged high temperatures. These factors led to a significant reduction in influent flow and elevated temperatures in the treatment facility. The unusually low flow rates, combined with excessive heat, contributed to the die-off of beneficial plant life in the facultative lagoon and wetland cells. This, in turn, led to a temporary spike in ammonia nitrogen levels.

   Since then, Mauriceville MUD has taken corrective actions to address the causes and ensure compliance, including the removal of dead plant material and accumulated sludge from facility, as to mitigate further deterioration of water quality.

2. **Recent Violations:**
   We have noted more recent violations related to Chlorine Residual, Flow, and Ammonia Nitrogen. Can you provide any information that might help explain the causes of these violations? Additionally, have any corrective actions been implemented to address these issues?

   To our knowledge, there have been no additional violations beyond those already addressed in the Administrative Order. If further violations have been identified by the TCEQ, we respectfully request the specific dates or sampling results so that we can review and respond accordingly.

   Additionally, we would like to direct your attention to Page 2 of the Executive Summary under "Corrective Action(s) Completed" in the attached documentation. It confirms that, as of December 31, 2023, Mauriceville MUD successfully implemented corrective measures and returned to full compliance with all permitted effluent limitations under TPDES Permit No. WQ0013839001.

3. **Facility's Ability to Comply with the Permit:**
   Is there anything else you would like the committee to consider in relation to the facility's ability to comply with the proposed permit conditions?

   Mauriceville MUD is committed to maintaining full compliance with the proposed permit conditions and has taken a proactive approach after violation notices.

   We would like to provide clarity on the pending 75/90 Rule Exception for Rainfall Variance. To briefly summarize, during wet weather, the amount of precipitation that falls directly on the facultative lagoon and three wetland cells causes the effluent flows to exceed the current limit. The District was previously granted this waiver on December 6, 2024, but this will expire on August 20, 2025. We were informed by the Office of Compliance and Enforcement that a request to extend or renew this 75/90 Rule Exception cannot be processed until the renewal for the discharge permit is formally issued.

Please let us know if any further clarification is required. We appreciate your guidance and look forward to finalizing this permit renewal.

Thank you,

Lidia Solano, E.I.T
Engineer in Training

Leavins Engineering & Design, LLC
3250 Eastex Freeway
Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com



From: Lidia Solano
Sent: Thursday, June 19, 2025 10:41 AM
To: 'Sumitra Pokharel' <Sumitra.Pokharel@tceq.texas.gov>
Subject: RE: Request for information; Permit no. WQ0013839001

Sumitra,

Thank you so much for understanding. We will be sure to respond by then.

Have a great day!

Lidia Solano, E.I.T
Engineer in Training

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C: 832.633.4254
E: lsolano@leadllc.com



From: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Sent: Thursday, June 19, 2025 10:02 AM
To: Lidia Solano <lsolano@leadllc.com>
Subject: RE: Request for information; Permit no. WQ0013839001

Yes, I can grant an extension. The new deadline will be **June 24, 2025.**

From: Lidia Solano <lsolano@leadllc.com>
Sent: Thursday, June 19, 2025 9:56 AM
To: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Subject: RE: Request for information; Permit no. WQ0013839001

Good morning Sumitra,

We are working on compiling thorough responses to the requested information. We would like to kindly ask that you grant us an extension past June 20, 2025, so that we can respond accordingly.

Would this be possible?

Thank you,

Lidia Solano, E.I.T
Engineer in Training

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D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com



From: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>

Sent: Friday, June 13, 2025 8:54 AM
To: Lidia Solano <lsolano@leadllc.com>
Subject: Request for information; Permit no. WQ0013839001

Good morning, Lidia,

I hope this email finds you well. As part of the ongoing technical review of **Mauriceville WWTP** permit application, I would like to request the following information regarding the Administrative Order and recent violations:

1. **Administrative Order Compliance:**
   Can you please provide an update on what has been done to resolve the issues outlined in the Administrative Order (2024-0395-MWD-E) issued on December 18, 2024? Any actions taken to address the violations and ensure compliance would be appreciated.
2. **Recent Violations:**
   We have noted more recent violations related to Chlorine Residual, Flow, and Ammonia Nitrogen. Can you provide any information that might help explain the causes of these violations? Additionally, have any corrective actions been implemented to address these issues?
3. **Facility's Ability to Comply with the Permit:**
   Is there anything else you would like the committee to consider in relation to the facility's ability to comply with the proposed permit conditions?

Please provide this information by ***Friday 6/20/2025*** to assist in our review. If you have any questions or need further clarification, feel free to contact me directly.

Thank you for your attention to these matters.

Best regards,

Sumitra Pokharel
Texas Commission on Environmental Quality
Municipal wastewater permitting section(MC-148)
Water Quality Division
Sumitra.Pokharel@tceq.texas.gov
(512)239-4722



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***For status of permit, visit** www.tceq.texas.gov/goto/cid.*
***The application forms have been updated (01/09/2024) on our** website.*

From: Lidia Solano
To: Sumitra Pokharel
Cc: Jeff Leavins
Subject: RE: WQ0013839001 Mauriceville Municipal Utility District
Date: Thursday, July 24, 2025 1:51:13 PM
Attachments: image001.jpg
image004.png
image005.png
image006.jpg
image007.jpg
image003.jpg
image008.jpg

Sumitra,

Thank you for providing this. We have reviewed the revised draft and have no further comments. This is approved as submitted.

Have a great afternoon!

Lidia Solano, E.I.T
Engineer in Training

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3250 Eastex Freeway
Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com

From: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Sent: Thursday, July 24, 2025 12:01 PM
To: Lidia Solano <lsolano@leadllc.com>
Cc: Jeff Leavins <jleavins@leadllc.com>
Subject: RE: WQ0013839001 Mauriceville Municipal Utility District

Good afternoon,

Thank you for catching that. Please find the attached revised draft permit package and provide any additional comments or approval by COB today 7/24/2025.

Sincerely,
Sumitra Pokharel
512-239-4722

From: Lidia Solano <lsolano@leadllc.com>
Sent: Wednesday, July 23, 2025 4:45 PM
To: Shemica Wilford <Shemica.Wilford@tceq.texas.gov>
Cc: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>; Jeff Leavins <jleavins@leadllc.com>
Subject: RE: WQ0013839001 Mauriceville Municipal Utility District

Good afternoon Ms. Shemica,

We have completed our review of the documents related to the 2025 permit renewal for the Mauriceville MUD Wastewater Treatment Plant, and we would like to clarify a couple of discrepancies noted when comparing the renewal documents to the current 2020 permit.

1. E. Coli Monitoring Frequency

   The current 2020 permit requires E. Coli monitoring at a frequency of once per week, as noted in the Interim Effluent Limitations and Monitoring Requirements table. However, the 2025 permit renewal indicates a monitoring frequency of twice per month. Attached are the extracted sheets for your reference. Could you please confirm whether this change is the result of a revision by the TCEQ? If so, we have no objection and will proceed accordingly.

2. Chlorine Detention Time Basis

   In the current 2020 permit, the chlorine detention time of at least 20 minutes is calculated based on the daily average flow. However, the interim phase of the 2025 permit renewal appears to require the detention time to be based on peak flow. Can you please confirm whether this change is intentional? If the requirement is indeed based on peak flow, we have no further comments.

Once we receive confirmation on these two items, we can proceed with approval of the 2025 permit renewal.

Please don't hesitate to reach out if further discussion is needed.

Thank you,

Lidia Solano, E.I.T
Engineer in Training

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Beaumont, Texas 77703

Texas Registered Engineering Firm No. F-22257

www.leadllc.com
O: 409.245.5130
D: 409.247.2261
C: 832.633.4254
E: lsolano@leadllc.com



From: Shemica Wilford <Shemica.Wilford@tceq.texas.gov>
Sent: Thursday, July 17, 2025 10:39 AM
To: Lidia Solano <lsolano@leadllc.com>
Cc: Sumitra Pokharel <Sumitra.Pokharel@tceq.texas.gov>
Subject: WQ0013839001 Mauriceville Municipal Utility District

To whom it may concern,

Attached for your review, is the letter, DRAFT permit, NAPD, and statement of basis/technical summary, for Permit WQ0013839001 Mauriceville Municipal Utility District.

Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices

Please note, a translated copy of the NAPD in the alternative language must be submitted with your comments on the draft permit. If a translated NAPD is not received, the draft permit cannot be filed with the Office of the Chief Clerk. For notice templates in Spanish, please visit: https://www.tceq.texas.gov/permitting/wastewater/review/napd/wqspanish_napd.html

Please submit any comments and/or approval no later than, *Thursday, July 24, 2025.* If the comments and/ or approval are not received by the given deadline, it may cause significant delays in the permit process. Please contact Sumitra Pokharel with your comments and/ or approval to: Sumitra.Pokharel@tceq.texas.gov.

DMR DATA

WQ0013839001 - MAURICEVILLE MUD

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0114839	1/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.39	3.02	12.4
TX0114839	2/29/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.23	2.52	10.47
TX0114839	3/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.88	3.6	13.78
TX0114839	4/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	5.60	10.1	29.85
TX0114839	5/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	6.28	9.22	18.16
TX0114839	6/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	3.78	4.63	13.41
TX0114839	7/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	4.86	7.32	18.66
TX0114839	8/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	5.04	5.62	33.07
TX0114839	9/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	3.69	6.76	16.87
TX0114839	10/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.69	2.95	11.72
TX0114839	11/30/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.27	3.06	11.38
TX0114839	12/31/2020	001A	BOD, carbonaceous [5 day, 20 C]	2.87	4.86	16.31
TX0114839	1/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4.86	76.8	139.01
TX0114839	2/28/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.11	3.17	18.72
TX0114839	3/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	2.54	3.74	21.13
TX0114839	4/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.68	4.84	16.29
TX0114839	5/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	5.82	6.98	60.05
TX0114839	6/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	7.54	13.4	27.95
TX0114839	7/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4.72	6.28	70.97
TX0114839	8/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.93	5.52	21.99
TX0114839	9/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	4.52	5.46	30.6
TX0114839	10/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	3.36	4.04	14.87
TX0114839	11/30/2021	001A	BOD, carbonaceous [5 day, 20 C]	5.49	11.4	40.55
TX0114839	12/31/2021	001A	BOD, carbonaceous [5 day, 20 C]	4.53	6.64	26.92
TX0114839	1/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	4.71	10.2	24.02
TX0114839	2/28/2022	001A	BOD, carbonaceous [5 day, 20 C]	3.89	4.68	24.43
TX0114839	3/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	10.00	17.2	56.52
TX0114839	4/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	10.27	13.9	37.73
TX0114839	5/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	12.36	15.7	12.07

TX0114839	6/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	8.14	11.8	9.47
TX0114839	7/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	6.51	11.3	14.55
TX0114839	8/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	6.46	9.6	27.25
TX0114839	9/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	4.89	5.72	19.14
TX0114839	10/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	4.14	6.38	9.99
TX0114839	11/30/2022	001A	BOD, carbonaceous [5 day, 20 C]	6.36	16.6	26.19
TX0114839	12/31/2022	001A	BOD, carbonaceous [5 day, 20 C]	2.74	3.36	23.11
TX0114839	1/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.66	4.37	18.49
TX0114839	2/28/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.90	4.87	28.83
TX0114839	3/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.25	2.95	11.12
TX0114839	4/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	3.31	3.91	13.39
TX0114839	5/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	3.76	6.72	13.86
TX0114839	6/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	4.43	6.52	12.38
TX0114839	7/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	6.10	7.44	10.57
TX0114839	8/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	6.08	8.13	12.34
TX0114839	9/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	4.67	5.89	6.26
TX0114839	10/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	8.07	12.3	11.8
TX0114839	11/30/2023	001A	BOD, carbonaceous [5 day, 20 C]	4.31	6.72	6.71
TX0114839	12/31/2023	001A	BOD, carbonaceous [5 day, 20 C]	2.47	2.75	8.3
TX0114839	1/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.76	3.5	17.64
TX0114839	2/29/2024	001A	BOD, carbonaceous [5 day, 20 C]	3.02	6.2	14.31
TX0114839	3/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	3.19	6.72	13.41
TX0114839	4/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	3.30	4.94	17.65
TX0114839	5/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.97	4.23	43.69
TX0114839	6/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	4.01	6.93	22.85
TX0114839	7/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.99	3.55	31.45
TX0114839	8/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.48	3.47	9.37
TX0114839	9/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.02	2.08	10.81
TX0114839	10/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	3.01	5.02	9.41
TX0114839	11/30/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.41	3.03	8.52
TX0114839	12/31/2024	001A	BOD, carbonaceous [5 day, 20 C]	2.86	3.27	11.58
TX0114839	1/31/2025	001A	BOD, carbonaceous [5 day, 20 C]	2.58	4.22	16.43
TX0114839	2/28/2025	001A	BOD, carbonaceous [5 day, 20 C]	2.64	3.5	17.61
TX0114839	3/31/2025	001A	BOD, carbonaceous [5 day, 20 C]	2.51	4.03	12.06
TX0114839	4/30/2025	001A	BOD, carbonaceous [5 day, 20 C]	3.72	4.79	10.49
			2 YEAR AVERAGE	3.59	5.19	14.52
			5 YEAR AVERAGE	4.32	7.51	21.89

EPA ID				Reported Measure	Reported Measure	Reported Measure

	Monitoring Period	Outfall	Parameter	DAILY AV (mg/L)	DAILY MX (mg/L)	DAILY AV (lb/d)
TX0114839	1/31/2020	001A	Chloride [as Cl]	58.18	65	290.33
TX0114839	2/29/2020	001A	Chloride [as Cl]	53.30	58.6	255.58
TX0114839	3/31/2020	001A	Chloride [as Cl]	64.13	66.7	296.92
TX0114839	4/30/2020	001A	Chloride [as Cl]	72.10	91	292.12
TX0114839	5/31/2020	001A	Chloride [as Cl]	56.48	69.8	163.51
TX0114839	6/30/2020	001A	Chloride [as Cl]	68.80	2	254.53
TX0114839	7/31/2020	001A	Chloride [as Cl]	65.16	81.7	256.83
TX0114839	8/31/2020	001A	Chloride [as Cl]	68.00	79.8	432.66
TX0114839	9/30/2020	001A	Chloride [as Cl]	67.62	69.1	304.68
TX0114839	10/31/2020	001A	Chloride [as Cl]	69.08	78.6	298.72
TX0114839	11/30/2020	001A	Chloride [as Cl]	78.45	83	390.02
TX0114839	12/31/2020	001A	Chloride [as Cl]	66.04	72.6	398.73
TX0114839	1/31/2021	001A	Chloride [as Cl]	66.40	68	366.46
TX0114839	2/28/2021	001A	Chloride [as Cl]	67.85	72.1	403.84
TX0114839	3/31/2021	001A	Chloride [as Cl]	76.00	80.8	574.7
TX0114839	4/30/2021	001A	Chloride [as Cl]	73.94	83.9	327.21
TX0114839	5/31/2021	001A	Chloride [as Cl]	58.65	72	589.23
TX0114839	6/30/2021	001A	Chloride [as Cl]	58.40	63.9	181.52
TX0114839	7/31/2021	001A	Chloride [as Cl]	50.80	54.2	645.15
TX0114839	8/31/2021	001A	Chloride [as Cl]	55.93	60.9	288.75
TX0114839	9/30/2021	001A	Chloride [as Cl]	59.50	68.6	394.5
TX0114839	10/31/2021	001A	Chloride [as Cl]	57.25	62.6	249.1
TX0114839	11/30/2021	001A	Chloride [as Cl]	66.70	72	437.01
TX0114839	12/31/2021	001A	Chloride [as Cl]	70.46	74.1	420.51
TX0114839	1/31/2022	001A	Chloride [as Cl]	77.48	81.9	324.03
TX0114839	2/28/2022	001A	Chloride [as Cl]	75.30	78.5	462.05
TX0114839	3/31/2022	001A	Chloride [as Cl]	81.90	84.2	480.38
TX0114839	4/30/2022	001A	Chloride [as Cl]	93.83	98.6	312.39
TX0114839	5/31/2022	001A	Chloride [as Cl]	108.75	124	114.89
TX0114839	6/30/2022	001A	Chloride [as Cl]	138.40	180	167.37
TX0114839	7/31/2022	001A	Chloride [as Cl]	108.40	131	274.72
TX0114839	8/31/2022	001A	Chloride [as Cl]	100.70	125	380.98
TX0114839	9/30/2022	001A	Chloride [as Cl]	87.93	3.12	328.66
TX0114839	10/31/2022	001A	Chloride [as Cl]	116.50	120	315.31
TX0114839	11/30/2022	001A	Chloride [as Cl]	97.30	107	373.44
TX0114839	12/31/2022	001A	Chloride [as Cl]	80.40	87.2	722.92
TX0114839	1/31/2023	001A	Chloride [as Cl]	75.65	80.1	463.46
TX0114839	2/28/2023	001A	Chloride [as Cl]	63.60	67.2	657.68
TX0114839	3/31/2023	001A	Chloride [as Cl]	74.82	76.9	371.65
TX0114839	4/30/2023	001A	Chloride [as Cl]	74.33	80.5	283.24

TX0114839	5/31/2023	001A	Chloride [as Cl]	73.98	83.6	228.79
TX0114839	6/30/2023	001A	Chloride [as Cl]	97.64	114	277.4
TX0114839	7/31/2023	001A	Chloride [as Cl]	128.00	141	226.28
TX0114839	8/31/2023	001A	Chloride [as Cl]	154.80	170	276.16
TX0114839	9/30/2023	001A	Chloride [as Cl]	184.75	209	234.69
TX0114839	10/31/2023	001A	Chloride [as Cl]	177.75	188	289.91
TX0114839	11/30/2023	001A	Chloride [as Cl]	178.00	185	298.72
TX0114839	12/31/2023	001A	Chloride [as Cl]	132.00	148	446.18
TX0114839	1/31/2024	001A	Chloride [as Cl]	101.38	109	644.48
TX0114839	2/29/2024	001A	Chloride [as Cl]	78.94	83.3	338.74
TX0114839	3/31/2024	001A	Chloride [as Cl]	85.93	93.3	390.22
TX0114839	4/30/2024	001A	Chloride [as Cl]	74.93	75.8	401.34
TX0114839	5/31/2024	001A	Chloride [as Cl]	60.18	66.9	967.74
TX0114839	6/30/2024	001A	Chloride [as Cl]	53.70	62	181.8
TX0114839	7/31/2024	001A	Chloride [as Cl]	53.58	54.9	660.95
TX0114839	8/31/2024	001A	Chloride [as Cl]	66.12	72.5	248.96
TX0114839	9/30/2024	001A	Chloride [as Cl]	71.05	77.4	378.5
TX0114839	10/31/2024	001A	Chloride [as Cl]	103.46	125	325.61
TX0114839	11/30/2024	001A	Chloride [as Cl]	96.80	106	348.5
TX0114839	12/31/2024	001A	Chloride [as Cl]	87.92	95.5	359.35
TX0114839	1/31/2025	001A	Chloride [as Cl]	72.90	77.5	410.71
TX0114839	2/28/2025	001A	Chloride [as Cl]	70.83	74.8	442.31
TX0114839	3/31/2025	001A	Chloride [as Cl]	74.33	78	74.325
TX0114839	4/30/2025	001A	Chloride [as Cl]	79.78	90.1	229.27
			2 YEAR AVERAGE	97.32	106.44	358.57
			5 YEAR AVERAGE	83.80	89.95	362.92

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)	Reported Measure MO MAX (mg/L)
TX0114839	1/31/2020	001A	Chlorine, total residual	1.03	2.1
TX0114839	2/29/2020	001A	Chlorine, total residual	1	3
TX0114839	3/31/2020	001A	Chlorine, total residual	1.02	3.3
TX0114839	4/30/2020	001A	Chlorine, total residual	1.04	2.6
TX0114839	5/31/2020	001A	Chlorine, total residual	1.01	1.77
TX0114839	6/30/2020	001A	Chlorine, total residual	1.02	3.2
TX0114839	7/31/2020	001A	Chlorine, total residual	1.01	2.9
TX0114839	8/31/2020	001A	Chlorine, total residual	1.02	2.2
TX0114839	9/30/2020	001A	Chlorine, total residual	1.08	2.88
TX0114839	10/31/2020	001A	Chlorine, total residual	1.09	2.5

TX0114839	11/30/2020	001A	Chlorine, total residual	1.01	3.4
TX0114839	12/31/2020	001A	Chlorine, total residual	1.1	3.7
TX0114839	1/31/2021	001A	Chlorine, total residual	1.15	3.7
TX0114839	2/28/2021	001A	Chlorine, total residual	1.2	3.7
TX0114839	3/31/2021	001A	Chlorine, total residual	1.02	3.7
TX0114839	4/30/2021	001A	Chlorine, total residual	1.03	2.5
TX0114839	5/31/2021	001A	Chlorine, total residual	1.01	3.5
TX0114839	6/30/2021	001A	Chlorine, total residual	1.04	3.4
TX0114839	7/31/2021	001A	Chlorine, total residual	1.16	2.5
TX0114839	8/31/2021	001A	Chlorine, total residual	1.18	3.9
TX0114839	9/30/2021	001A	Chlorine, total residual	1.1	3.8
TX0114839	10/31/2021	001A	Chlorine, total residual	1.05	3.8
TX0114839	11/30/2021	001A	Chlorine, total residual	1.02	3.2
TX0114839	12/31/2021	001A	Chlorine, total residual	1.01	3.1
TX0114839	1/31/2022	001A	Chlorine, total residual	1.23	3.8
TX0114839	2/28/2022	001A	Chlorine, total residual	1.24	3.1
TX0114839	3/31/2022	001A	Chlorine, total residual	1.05	3
TX0114839	4/30/2022	001A	Chlorine, total residual	1.03	2.6
TX0114839	5/31/2022	001A	Chlorine, total residual	1.02	3.1
TX0114839	6/30/2022	001A	Chlorine, total residual	1.01	3.4
TX0114839	7/31/2022	001A	Chlorine, total residual	1.01	3.3
TX0114839	8/31/2022	001A	Chlorine, total residual	1.16	3
TX0114839	9/30/2022	001A	Chlorine, total residual	1.04	2.6
TX0114839	10/31/2022	001A	Chlorine, total residual	1.02	3.4
TX0114839	11/30/2022	001A	Chlorine, total residual	1.29	3.8
TX0114839	12/31/2022	001A	Chlorine, total residual	1.04	3.3
TX0114839	1/31/2023	001A	Chlorine, total residual	1.15	3.1
TX0114839	2/28/2023	001A	Chlorine, total residual	1	2.5
TX0114839	3/31/2023	001A	Chlorine, total residual	1.12	2.9
TX0114839	4/30/2023	001A	Chlorine, total residual	1	2.3
TX0114839	5/31/2023	001A	Chlorine, total residual	1.01	3.6
TX0114839	6/30/2023	001A	Chlorine, total residual	1.01	3.6
TX0114839	7/31/2023	001A	Chlorine, total residual	1.05	3.7
TX0114839	8/31/2023	001A	Chlorine, total residual	1.09	3.8
TX0114839	9/30/2023	001A	Chlorine, total residual	0	3.8
TX0114839	10/31/2023	001A	Chlorine, total residual	1.06	3.8
TX0114839	11/30/2023	001A	Chlorine, total residual	1.49	3.7
TX0114839	12/31/2023	001A	Chlorine, total residual	0.04	3.7
TX0114839	1/31/2024	001A	Chlorine, total residual	1.05	3.8
TX0114839	2/29/2024	001A	Chlorine, total residual	1.06	3.4
TX0114839	3/31/2024	001A	Chlorine, total residual	1.05	3.6

TX0114839	4/30/2024	001A	Chlorine, total residual	1.03	2.3
TX0114839	5/31/2024	001A	Chlorine, total residual	1.2	2.3
TX0114839	6/30/2024	001A	Chlorine, total residual	1.03	2.7
TX0114839	7/31/2024	001A	Chlorine, total residual	1.57	2.5
TX0114839	8/31/2024	001A	Chlorine, total residual	1.11	3.3
TX0114839	9/30/2024	001A	Chlorine, total residual	1.07	3.7
TX0114839	10/31/2024	001A	Chlorine, total residual	1.12	3.4
TX0114839	11/30/2024	001A	Chlorine, total residual	1.18	3.3
TX0114839	12/31/2024	001A	Chlorine, total residual	1.12	2.7
TX0114839	1/31/2025	001A	Chlorine, total residual	1.57	2.4
TX0114839	2/28/2025	001A	Chlorine, total residual	1	3.6
TX0114839	3/31/2025	001A	Chlorine, total residual	1.12	3.4
TX0114839	4/30/2025	001A	Chlorine, total residual	1	3.6
			2 YEAR AVERAGE	1.04	3.28
			5 YEAR AVERAGE	1.06	3.18

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (CFU/100m	Reported Measure DAILY MX (CFU/100mL)
TX0114839	1/31/2020	001A	E. coli	1	1
TX0114839	2/29/2020	001A	E. coli	1	1
TX0114839	3/31/2020	001A	E. coli	1	1
TX0114839	4/30/2020	001A	E. coli	2.72	75
TX0114839	5/31/2020	001A	E. coli	1.57	6
TX0114839	6/30/2020	001A	E. coli	1	1
TX0114839	7/31/2020	001A	E. coli	1.15	12
TX0114839	8/31/2020	001A	E. coli	1.05	1.23
TX0114839	9/30/2020	001A	E. coli	1	1
TX0114839	10/31/2020	001A	E. coli	1	1
TX0114839	11/30/2020	001A	E. coli	1	1
TX0114839	12/31/2020	001A	E. coli	1	1
TX0114839	1/31/2021	001A	E. coli	1	1
TX0114839	2/28/2021	001A	E. coli	1.41	4
TX0114839	3/31/2021	001A	E. coli	1	1
TX0114839	4/30/2021	001A	E. coli	1	1
TX0114839	5/31/2021	001A	E. coli	1	1
TX0114839	6/30/2021	001A	E. coli	1	1
TX0114839	7/31/2021	001A	E. coli	1	1
TX0114839	8/31/2021	001A	E. coli	1	1
TX0114839	9/30/2021	001A	E. coli	1	1

TX0114839	10/31/2021	001A	E. coli	1	1
TX0114839	11/30/2021	001A	E. coli	1	1
TX0114839	12/31/2021	001A	E. coli	1.43	6
TX0114839	1/31/2022	001A	E. coli	1	1
TX0114839	2/28/2022	001A	E. coli	1	1
TX0114839	3/31/2022	001A	E. coli	1	1
TX0114839	4/30/2022	001A	E. coli	1	3
TX0114839	5/31/2022	001A	E. coli	2.50	39
TX0114839	6/30/2022	001A	E. coli	1.32	4
TX0114839	7/31/2022	001A	E. coli	1.41	2
TX0114839	8/31/2022	001A	E. coli	1.25	3
TX0114839	9/30/2022	001A	E. coli	1	1
TX0114839	10/31/2022	001A	E. coli	1	1
TX0114839	11/30/2022	001A	E. coli	1	1
TX0114839	12/31/2022	001A	E. coli	1	1
TX0114839	1/31/2023	001A	E. coli	1	1
TX0114839	2/28/2023	001A	E. coli	1	1
TX0114839	3/31/2023	001A	E. coli	1	1
TX0114839	4/30/2023	001A	E. coli	1	1
TX0114839	5/31/2023	001A	E. coli	1.32	3
TX0114839	6/30/2023	001A	E. coli	1	1
TX0114839	7/31/2023	001A	E. coli	1.57	6
TX0114839	8/31/2023	001A	E. coli	1	1
TX0114839	9/30/2023	001A	E. coli	1.19	2
TX0114839	10/31/2023	001A	E. coli	1	1
TX0114839	11/30/2023	001A	E. coli	2.54	106
TX0114839	12/31/2023	001A	E. coli	1	1
TX0114839	1/31/2024	001A	E. coli	1.32	3
TX0114839	2/29/2024	001A	E. coli	1	1
TX0114839	3/31/2024	001A	E. coli	1	1
TX0114839	4/30/2024	001A	E. coli	1	1
TX0114839	5/31/2024	001A	E. coli	1	1
TX0114839	6/30/2024	001A	E. coli	1	1
TX0114839	7/31/2024	001A	E. coli	3.71	190
TX0114839	8/31/2024	001A	E. coli	1	1
TX0114839	9/30/2024	001A	E. coli	1	1
TX0114839	10/31/2024	001A	E. coli	1.15	2
TX0114839	11/30/2024	001A	E. coli	1	1
TX0114839	12/31/2024	001A	E. coli	1	1
TX0114839	1/31/2025	001A	E. coli	1.19	2
TX0114839	2/28/2025	001A	E. coli	1	1

TX0114839	3/31/2025	001A	E. coli	1	1
TX0114839	4/30/2025	001A	E. coli	1	1
			2 YEAR GEOMEAN	1.16	1.89
			5 YEAR GEOMEAN	1.13	1.75

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (MGD)	Reported Measure DAILY MX (MGD)
TX0114839	1/31/2020	001A	Flow, in conduit or thru treatment plant	0.78	1.75
TX0114839	2/29/2020	001A	Flow, in conduit or thru treatment plant	0.57	1.99
TX0114839	3/31/2020	001A	Flow, in conduit or thru treatment plant	0.76	2.11
TX0114839	4/30/2020	001A	Flow, in conduit or thru treatment plant	0.47	1.75
TX0114839	5/31/2020	001A	Flow, in conduit or thru treatment plant	0.65	2.07
TX0114839	6/30/2020	001A	Flow, in conduit or thru treatment plant	0.56	2.18
TX0114839	7/31/2020	001A	Flow, in conduit or thru treatment plant	0.43	1.05
TX0114839	8/31/2020	001A	Flow, in conduit or thru treatment plant	0.76	3.94
TX0114839	9/30/2020	001A	Flow, in conduit or thru treatment plant	0.65	1.65
TX0114839	10/31/2020	001A	Flow, in conduit or thru treatment plant	0.7	1.97
TX0114839	11/30/2020	001A	Flow, in conduit or thru treatment plant	0.65	1.81
TX0114839	12/31/2020	001A	Flow, in conduit or thru treatment plant	0.93	1.91
TX0114839	1/31/2021	001A	Flow, in conduit or thru treatment plant	0.74	1.81
TX0114839	2/28/2021	001A	Flow, in conduit or thru treatment plant	0.66	1.81
TX0114839	3/31/2021	001A	Flow, in conduit or thru treatment plant	0.87	1.64
TX0114839	4/30/2021	001A	Flow, in conduit or thru treatment plant	0.61	1.76
TX0114839	5/31/2021	001A	Flow, in conduit or thru treatment plant	1.52	5.05
TX0114839	6/30/2021	001A	Flow, in conduit or thru treatment plant	0.65	3.31
TX0114839	7/31/2021	001A	Flow, in conduit or thru treatment plant	1.55	4.69
TX0114839	8/31/2021	001A	Flow, in conduit or thru treatment plant	0.51	1.27
TX0114839	9/30/2021	001A	Flow, in conduit or thru treatment plant	0.77	2.27
TX0114839	10/31/2021	001A	Flow, in conduit or thru treatment plant	0.76	3.11
TX0114839	11/30/2021	001A	Flow, in conduit or thru treatment plant	0.72	1.4
TX0114839	12/31/2021	001A	Flow, in conduit or thru treatment plant	0.7	1.82
TX0114839	1/31/2022	001A	Flow, in conduit or thru treatment plant	0.63	2.32
TX0114839	2/28/2022	001A	Flow, in conduit or thru treatment plant	0.65	0.9
TX0114839	3/31/2022	001A	Flow, in conduit or thru treatment plant	0.55	1.02
TX0114839	4/30/2022	001A	Flow, in conduit or thru treatment plant	0.35	0.79
TX0114839	5/31/2022	001A	Flow, in conduit or thru treatment plant	0.18	0.53
TX0114839	6/30/2022	001A	Flow, in conduit or thru treatment plant	0.16	0.75
TX0114839	7/31/2022	001A	Flow, in conduit or thru treatment plant	0.49	4.06
TX0114839	8/31/2022	001A	Flow, in conduit or thru treatment plant	0.71	2.92

TX0114839	9/30/2022	001A	Flow, in conduit or thru treatment plant	0.7	3.56
TX0114839	10/31/2022	001A	Flow, in conduit or thru treatment plant	0.36	1.8
TX0114839	11/30/2022	001A	Flow, in conduit or thru treatment plant	0.77	2.6
TX0114839	12/31/2022	001A	Flow, in conduit or thru treatment plant	1.16	2.91
TX0114839	1/31/2023	001A	Flow, in conduit or thru treatment plant	0.87	1.85
TX0114839	2/28/2023	001A	Flow, in conduit or thru treatment plant	1.01	3.32
TX0114839	3/31/2023	001A	Flow, in conduit or thru treatment plant	0.58	0.97
TX0114839	4/30/2023	001A	Flow, in conduit or thru treatment plant	0.64	1.88
TX0114839	5/31/2023	001A	Flow, in conduit or thru treatment plant	0.48	0.96
TX0114839	6/30/2023	001A	Flow, in conduit or thru treatment plant	0.27	0.67
TX0114839	7/31/2023	001A	Flow, in conduit or thru treatment plant	0.21	0.37
TX0114839	8/31/2023	001A	Flow, in conduit or thru treatment plant	0.19	0.43
TX0114839	9/30/2023	001A	Flow, in conduit or thru treatment plant	0.14	0.4
TX0114839	10/31/2023	001A	Flow, in conduit or thru treatment plant	0.15	0.26
TX0114839	11/30/2023	001A	Flow, in conduit or thru treatment plant	0.21	0.51
TX0114839	12/31/2023	001A	Flow, in conduit or thru treatment plant	0.52	1.31
TX0114839	1/31/2024	001A	Flow, in conduit or thru treatment plant	1.08	4.83
TX0114839	2/29/2024	001A	Flow, in conduit or thru treatment plant	0.69	1.55
TX0114839	3/31/2024	001A	Flow, in conduit or thru treatment plant	0.63	2.47
TX0114839	4/30/2024	001A	Flow, in conduit or thru treatment plant	0.72	1.78
TX0114839	5/31/2024	001A	Flow, in conduit or thru treatment plant	1.67	6.21
TX0114839	6/30/2024	001A	Flow, in conduit or thru treatment plant	0.88	4.26
TX0114839	7/31/2024	001A	Flow, in conduit or thru treatment plant	1.14	4.39
TX0114839	8/31/2024	001A	Flow, in conduit or thru treatment plant	0.46	0.98
TX0114839	9/30/2024	001A	Flow, in conduit or thru treatment plant	0.57	1.17
TX0114839	10/31/2024	001A	Flow, in conduit or thru treatment plant	0.3	0.56
TX0114839	11/30/2024	001A	Flow, in conduit or thru treatment plant	0.49	1.12
TX0114839	12/31/2024	001A	Flow, in conduit or thru treatment plant	0.58	1.44
TX0114839	1/31/2025	001A	Flow, in conduit or thru treatment plant	0.72	1.92
TX0114839	2/28/2025	001A	Flow, in conduit or thru treatment plant	0.86	2.59
TX0114839	3/31/2025	001A	Flow, in conduit or thru treatment plant	0.67	1.21
TX0114839	4/30/2025	001A	Flow, in conduit or thru treatment plant	0.46	1.19
			2 YEAR AVERAGE	0.59	1.78
			5 YEAR AVERAGE	0.65	2.01

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0114839	1/31/2020	001A	Nitrogen, ammonia total [as N]	3.02	3.65	15.59
TX0114839	2/29/2020	001A	Nitrogen, ammonia total [as N]	4.09	10.3	24.8

TX0114839	3/31/2020	001A	Nitrogen, ammonia total [as N]	1.17	1.51	5.56
TX0114839	4/30/2020	001A	Nitrogen, ammonia total [as N]	1.09	2.02	4.08
TX0114839	5/31/2020	001A	Nitrogen, ammonia total [as N]	0.16	0.2	0.46
TX0114839	6/30/2020	001A	Nitrogen, ammonia total [as N]	0.37	0.94	1.59
TX0114839	7/31/2020	001A	Nitrogen, ammonia total [as N]	1.46	2.18	5.56
TX0114839	8/31/2020	001A	Nitrogen, ammonia total [as N]	0.61	0.76	4.23
TX0114839	9/30/2020	001A	Nitrogen, ammonia total [as N]	1.03	1.94	5.35
TX0114839	10/31/2020	001A	Nitrogen, ammonia total [as N]	0.53	0.71	2.3
TX0114839	11/30/2020	001A	Nitrogen, ammonia total [as N]	0.87	1.13	4.45
TX0114839	12/31/2020	001A	Nitrogen, ammonia total [as N]	2.17	2.71	13.05
TX0114839	1/31/2021	001A	Nitrogen, ammonia total [as N]	2.23	2.38	12.43
TX0114839	2/28/2021	001A	Nitrogen, ammonia total [as N]	2.06	2.38	12.86
TX0114839	3/31/2021	001A	Nitrogen, ammonia total [as N]	2.47	3.5	18.45
TX0114839	4/30/2021	001A	Nitrogen, ammonia total [as N]	1.60	3.2	7.26
TX0114839	5/31/2021	001A	Nitrogen, ammonia total [as N]	1.12	3.35	13.55
TX0114839	6/30/2021	001A	Nitrogen, ammonia total [as N]	0.98	1.71	3.94
TX0114839	7/31/2021	001A	Nitrogen, ammonia total [as N]	0.86	1.23	13.3
TX0114839	8/31/2021	001A	Nitrogen, ammonia total [as N]	1.49	1.63	7.71
TX0114839	9/30/2021	001A	Nitrogen, ammonia total [as N]	1.84	2.25	12.83
TX0114839	10/31/2021	001A	Nitrogen, ammonia total [as N]	1.93	2.65	8.75
TX0114839	11/30/2021	001A	Nitrogen, ammonia total [as N]	1.73	2.21	11.35
TX0114839	12/31/2021	001A	Nitrogen, ammonia total [as N]	3.36	5.64	17.75
TX0114839	1/31/2022	001A	Nitrogen, ammonia total [as N]	5.32	6.76	23.4
TX0114839	2/28/2022	001A	Nitrogen, ammonia total [as N]	3.17	3.41	19.35
TX0114839	3/31/2022	001A	Nitrogen, ammonia total [as N]	2.65	3.87	15.98
TX0114839	4/30/2022	001A	Nitrogen, ammonia total [as N]	0.77	1.18	2.93
TX0114839	5/31/2022	001A	Nitrogen, ammonia total [as N]	0.76	1.15	0.91
TX0114839	6/30/2022	001A	Nitrogen, ammonia total [as N]	0.80	1.08	0.99
TX0114839	7/31/2022	001A	Nitrogen, ammonia total [as N]	0.28	0.39	0.61
TX0114839	8/31/2022	001A	Nitrogen, ammonia total [as N]	1.21	1.79	4.54
TX0114839	9/30/2022	001A	Nitrogen, ammonia total [as N]	1.67	3.12	6.55
TX0114839	10/31/2022	001A	Nitrogen, ammonia total [as N]	1.23	1.76	3.03
TX0114839	11/30/2022	001A	Nitrogen, ammonia total [as N]	1.55	2.42	5.71
TX0114839	12/31/2022	001A	Nitrogen, ammonia total [as N]	6.07	10.6	53.57
TX0114839	1/31/2023	001A	Nitrogen, ammonia total [as N]	6.46	7.68	38.61
TX0114839	2/28/2023	001A	Nitrogen, ammonia total [as N]	6.27	7.4	64.32
TX0114839	3/31/2023	001A	Nitrogen, ammonia total [as N]	5.01	7.38	24.49
TX0114839	4/30/2023	001A	Nitrogen, ammonia total [as N]	1.51	2.34	6.79
TX0114839	5/31/2023	001A	Nitrogen, ammonia total [as N]	1.20	1.81	4.15
TX0114839	6/30/2023	001A	Nitrogen, ammonia total [as N]	3.46	6.88	7.94
TX0114839	7/31/2023	001A	Nitrogen, ammonia total [as N]	7.59	8.66	13.22

TX0114839	8/31/2023	001A	Nitrogen, ammonia total [as N]	7.98	11.5	13.08
TX0114839	9/30/2023	001A	Nitrogen, ammonia total [as N]	9.39	10.6	11.33
TX0114839	10/31/2023	001A	Nitrogen, ammonia total [as N]	7.27	8.68	12.02
TX0114839	11/30/2023	001A	Nitrogen, ammonia total [as N]	9.14	9.85	15.34
TX0114839	12/31/2023	001A	Nitrogen, ammonia total [as N]	7.39	10.9	24.63
TX0114839	1/31/2024	001A	Nitrogen, ammonia total [as N]	2.83	7.68	16.4
TX0114839	2/29/2024	001A	Nitrogen, ammonia total [as N]	3.85	7.04	17.57
TX0114839	3/31/2024	001A	Nitrogen, ammonia total [as N]	3.68	5.24	16.09
TX0114839	4/30/2024	001A	Nitrogen, ammonia total [as N]	2.04	3.09	11.81
TX0114839	5/31/2024	001A	Nitrogen, ammonia total [as N]	7.43	14	106.39
TX0114839	6/30/2024	001A	Nitrogen, ammonia total [as N]	0.81	1.79	5.62
TX0114839	7/31/2024	001A	Nitrogen, ammonia total [as N]	0.58	0.9	9.81
TX0114839	8/31/2024	001A	Nitrogen, ammonia total [as N]	2.66	3.4	9.88
TX0114839	9/30/2024	001A	Nitrogen, ammonia total [as N]	0.44	0.79	1.95
TX0114839	10/31/2024	001A	Nitrogen, ammonia total [as N]	0.58	0.86	1.83
TX0114839	11/30/2024	001A	Nitrogen, ammonia total [as N]	1.43	1.56	5.2
TX0114839	12/31/2024	001A	Nitrogen, ammonia total [as N]	0.53	0.63	2.18
TX0114839	1/31/2025	001A	Nitrogen, ammonia total [as N]	0.45	0.74	2.41
TX0114839	2/28/2025	001A	Nitrogen, ammonia total [as N]	1.14	1.54	6.97
TX0114839	3/31/2025	001A	Nitrogen, ammonia total [as N]	1.19	1.82	5.39
TX0114839	4/30/2025	001A	Nitrogen, ammonia total [as N]	1.51	3.03	5.59
			2 YEAR AVERAGE	3.44	5.01	13.34
			5 YEAR AVERAGE	2.62	3.84	12.90

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (mg/L)
TX0114839	1/31/2020	001A	Oxygen, dissolved [DO]	5.68
TX0114839	2/29/2020	001A	Oxygen, dissolved [DO]	7.16
TX0114839	3/31/2020	001A	Oxygen, dissolved [DO]	5.51
TX0114839	4/30/2020	001A	Oxygen, dissolved [DO]	6.23
TX0114839	5/31/2020	001A	Oxygen, dissolved [DO]	6.40
TX0114839	6/30/2020	001A	Oxygen, dissolved [DO]	6.05
TX0114839	7/31/2020	001A	Oxygen, dissolved [DO]	5.32
TX0114839	8/31/2020	001A	Oxygen, dissolved [DO]	5.83
TX0114839	9/30/2020	001A	Oxygen, dissolved [DO]	5.19
TX0114839	10/31/2020	001A	Oxygen, dissolved [DO]	5.48
TX0114839	11/30/2020	001A	Oxygen, dissolved [DO]	6.6
TX0114839	12/31/2020	001A	Oxygen, dissolved [DO]	7.7
TX0114839	1/31/2021	001A	Oxygen, dissolved [DO]	6.88

TX0114839	2/28/2021	001A	Oxygen, dissolved [DO]	6.69
TX0114839	3/31/2021	001A	Oxygen, dissolved [DO]	6.9
TX0114839	4/30/2021	001A	Oxygen, dissolved [DO]	5.79
TX0114839	5/31/2021	001A	Oxygen, dissolved [DO]	5.31
TX0114839	6/30/2021	001A	Oxygen, dissolved [DO]	5.63
TX0114839	7/31/2021	001A	Oxygen, dissolved [DO]	2.6
TX0114839	8/31/2021	001A	Oxygen, dissolved [DO]	5.56
TX0114839	9/30/2021	001A	Oxygen, dissolved [DO]	5.17
TX0114839	10/31/2021	001A	Oxygen, dissolved [DO]	5.85
TX0114839	11/30/2021	001A	Oxygen, dissolved [DO]	6.21
TX0114839	12/31/2021	001A	Oxygen, dissolved [DO]	5.5
TX0114839	1/31/2022	001A	Oxygen, dissolved [DO]	8.09
TX0114839	2/28/2022	001A	Oxygen, dissolved [DO]	7.11
TX0114839	3/31/2022	001A	Oxygen, dissolved [DO]	6.17
TX0114839	4/30/2022	001A	Oxygen, dissolved [DO]	5.99
TX0114839	5/31/2022	001A	Oxygen, dissolved [DO]	6.32
TX0114839	6/30/2022	001A	Oxygen, dissolved [DO]	5.22
TX0114839	7/31/2022	001A	Oxygen, dissolved [DO]	5.43
TX0114839	8/31/2022	001A	Oxygen, dissolved [DO]	5.36
TX0114839	9/30/2022	001A	Oxygen, dissolved [DO]	6.39
TX0114839	10/31/2022	001A	Oxygen, dissolved [DO]	7.43
TX0114839	11/30/2022	001A	Oxygen, dissolved [DO]	6.41
TX0114839	12/31/2022	001A	Oxygen, dissolved [DO]	6.21
TX0114839	1/31/2023	001A	Oxygen, dissolved [DO]	7.11
TX0114839	2/28/2023	001A	Oxygen, dissolved [DO]	6.18
TX0114839	3/31/2023	001A	Oxygen, dissolved [DO]	6.58
TX0114839	4/30/2023	001A	Oxygen, dissolved [DO]	7.23
TX0114839	5/31/2023	001A	Oxygen, dissolved [DO]	5.03
TX0114839	6/30/2023	001A	Oxygen, dissolved [DO]	6.37
TX0114839	7/31/2023	001A	Oxygen, dissolved [DO]	6.48
TX0114839	8/31/2023	001A	Oxygen, dissolved [DO]	6.28
TX0114839	9/30/2023	001A	Oxygen, dissolved [DO]	6.99
TX0114839	10/31/2023	001A	Oxygen, dissolved [DO]	7.2
TX0114839	11/30/2023	001A	Oxygen, dissolved [DO]	7.45
TX0114839	12/31/2023	001A	Oxygen, dissolved [DO]	8.78
TX0114839	1/31/2024	001A	Oxygen, dissolved [DO]	6.27
TX0114839	2/29/2024	001A	Oxygen, dissolved [DO]	7.62
TX0114839	3/31/2024	001A	Oxygen, dissolved [DO]	7.3
TX0114839	4/30/2024	001A	Oxygen, dissolved [DO]	6.2
TX0114839	5/31/2024	001A	Oxygen, dissolved [DO]	2.65
TX0114839	6/30/2024	001A	Oxygen, dissolved [DO]	5.49

TX0114839	7/31/2024	001A	Oxygen, dissolved [DO]	5.79
TX0114839	8/31/2024	001A	Oxygen, dissolved [DO]	5.8
TX0114839	9/30/2024	001A	Oxygen, dissolved [DO]	6.27
TX0114839	10/31/2024	001A	Oxygen, dissolved [DO]	5.86
TX0114839	11/30/2024	001A	Oxygen, dissolved [DO]	6.69
TX0114839	12/31/2024	001A	Oxygen, dissolved [DO]	8.23
TX0114839	1/31/2025	001A	Oxygen, dissolved [DO]	8.78
TX0114839	2/28/2025	001A	Oxygen, dissolved [DO]	6.14
TX0114839	3/31/2025	001A	Oxygen, dissolved [DO]	6.57
TX0114839	4/30/2025	001A	Oxygen, dissolved [DO]	5.77
			2 YEAR AVERAGE	6.53
			5 YEAR AVERAGE	6.26

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)	Reported Measure MAXIMUM (SU)
TX0114839	1/31/2020	001A	pH	6.94	6.97
TX0114839	2/29/2020	001A	pH	6.76	7.13
TX0114839	3/31/2020	001A	pH	7.06	7.12
TX0114839	4/30/2020	001A	pH	7.06	7.12
TX0114839	5/31/2020	001A	pH	6.81	7.05
TX0114839	6/30/2020	001A	pH	6.67	6.7
TX0114839	7/31/2020	001A	pH	6.77	6.87
TX0114839	8/31/2020	001A	pH	6.83	6.89
TX0114839	9/30/2020	001A	pH	6.79	6.82
TX0114839	10/31/2020	001A	pH	6.77	6.81
TX0114839	11/30/2020	001A	pH	6.87	6.9
TX0114839	12/31/2020	001A	pH	6.36	6.97
TX0114839	1/31/2021	001A	pH	7.13	7.24
TX0114839	2/28/2021	001A	pH	7.1	7.26
TX0114839	3/31/2021	001A	pH	7.13	7.26
TX0114839	4/30/2021	001A	pH	7.28	7.31
TX0114839	5/31/2021	001A	pH	7.02	7.05
TX0114839	6/30/2021	001A	pH	6.96	6.99
TX0114839	7/31/2021	001A	pH	6.65	6.79
TX0114839	8/31/2021	001A	pH	6.8	6.91
TX0114839	9/30/2021	001A	pH	6.78	6.79
TX0114839	10/31/2021	001A	pH	6.73	6.94
TX0114839	11/30/2021	001A	pH	6.83	6.92
TX0114839	12/31/2021	001A	pH	7	7.01

TX0114839	1/31/2022	001A	pH	7.05	7.19
TX0114839	2/28/2022	001A	pH	7.27	7.32
TX0114839	3/31/2022	001A	pH	7.22	7.27
TX0114839	4/30/2022	001A	pH	7.23	7.25
TX0114839	5/31/2022	001A	pH	7.35	7.41
TX0114839	6/30/2022	001A	pH	6.93	7.2
TX0114839	7/31/2022	001A	pH	6.9	6.9
TX0114839	8/31/2022	001A	pH	6.92	6.95
TX0114839	9/30/2022	001A	pH	6.89	6.91
TX0114839	10/31/2022	001A	pH	7	7.14
TX0114839	11/30/2022	001A	pH	6.98	7.12
TX0114839	12/31/2022	001A	pH	7.15	7.25
TX0114839	1/31/2023	001A	pH	7.26	7.3
TX0114839	2/28/2023	001A	pH	6.96	7.1
TX0114839	3/31/2023	001A	pH	7.21	7.29
TX0114839	4/30/2023	001A	pH	7.13	7.22
TX0114839	5/31/2023	001A	pH	6.79	7.16
TX0114839	6/30/2023	001A	pH	7.09	7.19
TX0114839	7/31/2023	001A	pH	7.13	7.26
TX0114839	8/31/2023	001A	pH	7.32	7.34
TX0114839	9/30/2023	001A	pH	7.49	7.69
TX0114839	10/31/2023	001A	pH	7.35	7.69
TX0114839	11/30/2023	001A	pH	7.52	8.05
TX0114839	12/31/2023	001A	pH	7.39	7.53
TX0114839	1/31/2024	001A	pH	6.91	7.32
TX0114839	2/29/2024	001A	pH	6.97	7.11
TX0114839	3/31/2024	001A	pH	7.12	7.18
TX0114839	4/30/2024	001A	pH	7.08	7.09
TX0114839	5/31/2024	001A	pH	7.08	7.16
TX0114839	6/30/2024	001A	pH	6.44	7.32
TX0114839	7/31/2024	001A	pH	6.49	6.76
TX0114839	8/31/2024	001A	pH	6.66	6.83
TX0114839	9/30/2024	001A	pH	6.66	6.76
TX0114839	10/31/2024	001A	pH	6.95	6.98
TX0114839	11/30/2024	001A	pH	6.98	7.01
TX0114839	12/31/2024	001A	pH	6.75	6.93
TX0114839	1/31/2025	001A	pH	6.26	6.45
TX0114839	2/28/2025	001A	pH	6.59	6.77
TX0114839	3/31/2025	001A	pH	6.72	6.75
TX0114839	4/30/2025	001A	pH	6.36	6.59
			2 YEAR AVERAGE	6.93	7.13

5 YEAR AVERAGE	6.95	7.09

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0114839	1/31/2020	001A	Solids, total dissolved	240.2	264	1209.99
TX0114839	2/29/2020	001A	Solids, total dissolved	265.5	285	1259.23
TX0114839	3/31/2020	001A	Solids, total dissolved	275	284	1275.45
TX0114839	4/30/2020	001A	Solids, total dissolved	318.4	363	1306.76
TX0114839	5/31/2020	001A	Solids, total dissolved	272.25	300	795.88
TX0114839	6/30/2020	001A	Solids, total dissolved	2.16	24.69	314.75
TX0114839	7/31/2020	001A	Solids, total dissolved	3.93	35.17	1401.2
TX0114839	8/31/2020	001A	Solids, total dissolved	308	326	1973.95
TX0114839	9/30/2020	001A	Solids, total dissolved	307.6	329	1406.21
TX0114839	10/31/2020	001A	Solids, total dissolved	287.25	330	1240.26
TX0114839	11/30/2020	001A	Solids, total dissolved	303.5	345	1544.7
TX0114839	12/31/2020	001A	Solids, total dissolved	280	319	1700.57
TX0114839	1/31/2021	001A	Solids, total dissolved	276.5	300	1511.29
TX0114839	2/28/2021	001A	Solids, total dissolved	267.25	287	1588.92
TX0114839	3/31/2021	001A	Solids, total dissolved	280	311	2067.41
TX0114839	4/30/2021	001A	Solids, total dissolved	311	338	1371.34
TX0114839	5/31/2021	001A	Solids, total dissolved	275.5	321	2772.17
TX0114839	6/30/2021	001A	Solids, total dissolved	258.3	266	812.74
TX0114839	7/31/2021	001A	Solids, total dissolved	237.2	254	3088.91
TX0114839	8/31/2021	001A	Solids, total dissolved	273.75	302	1416.78
TX0114839	9/30/2021	001A	Solids, total dissolved	289.2	331	1920.38
TX0114839	10/31/2021	001A	Solids, total dissolved	259	283	1131.95
TX0114839	11/30/2021	001A	Solids, total dissolved	301.5	316	1984.17
TX0114839	12/31/2021	001A	Solids, total dissolved	282.8	329	1655.93
TX0114839	1/31/2022	001A	Solids, total dissolved	323.75	343	1366.03
TX0114839	2/28/2022	001A	Solids, total dissolved	317.25	345	1939.68
TX0114839	3/31/2022	001A	Solids, total dissolved	336.8	347	1975.67
TX0114839	4/30/2022	001A	Solids, total dissolved	399.75	448	1317.49
TX0114839	5/31/2022	001A	Solids, total dissolved	457.25	504	484.14
TX0114839	6/30/2022	001A	Solids, total dissolved	555.2	653	676.59
TX0114839	7/31/2022	001A	Solids, total dissolved	446.25	509	1118.89
TX0114839	8/31/2022	001A	Solids, total dissolved	429.4	563	1632.54
TX0114839	9/30/2022	001A	Solids, total dissolved	374	413	1398.99
TX0114839	10/31/2022	001A	Solids, total dissolved	494.25	517	1362.1
TX0114839	11/30/2022	001A	Solids, total dissolved	407.25	458	1581.36

TX0114839	12/31/2022	001A	Solids, total dissolved	341.2	352	3079.29
TX0114839	1/31/2023	001A	Solids, total dissolved	315.25	337	1907.14
TX0114839	2/28/2023	001A	Solids, total dissolved	255.5	277	2649.81
TX0114839	3/31/2023	001A	Solids, total dissolved	316.2	349	1572.54
TX0114839	4/30/2023	001A	Solids, total dissolved	325.5	365	1247.44
TX0114839	5/31/2023	001A	Solids, total dissolved	340	388	1052.64
TX0114839	6/30/2023	001A	Solids, total dissolved	491.8	654	1341.1
TX0114839	7/31/2023	001A	Solids, total dissolved	570	616	1016.68
TX0114839	8/31/2023	001A	Solids, total dissolved	750.6	977	1332.03
TX0114839	9/30/2023	001A	Solids, total dissolved	704	736	885.14
TX0114839	10/31/2023	001A	Solids, total dissolved	726.5	761	1181.07
TX0114839	11/30/2023	001A	Solids, total dissolved	716.4	807	1204.39
TX0114839	12/31/2023	001A	Solids, total dissolved	549.25	609	1855.44
TX0114839	1/31/2024	001A	Solids, total dissolved	421.25	478	2613.33
TX0114839	2/29/2024	001A	Solids, total dissolved	342.6	362	1468.87
TX0114839	3/31/2024	001A	Solids, total dissolved	376.75	390	1708.44
TX0114839	4/30/2024	001A	Solids, total dissolved	370	418	1961.97
TX0114839	5/31/2024	001A	Solids, total dissolved	305.4	333	4925.2
TX0114839	6/30/2024	001A	Solids, total dissolved	286	311	943.15
TX0114839	7/31/2024	001A	Solids, total dissolved	291.5	305	3589.13
TX0114839	8/31/2024	001A	Solids, total dissolved	343.6	376	1290.67
TX0114839	9/30/2024	001A	Solids, total dissolved	312.25	336	1666.92
TX0114839	10/31/2024	001A	Solids, total dissolved	410	445	1290.48
TX0114839	11/30/2024	001A	Solids, total dissolved	380.75	431	1372.16
TX0114839	12/31/2024	001A	Solids, total dissolved	316.4	346	1301.71
TX0114839	1/31/2025	001A	Solids, total dissolved	338	471	2041.61
TX0114839	2/28/2025	001A	Solids, total dissolved	284.75	313	1771.13
TX0114839	3/31/2025	001A	Solids, total dissolved	294.5	311	1486.23
TX0114839	4/30/2025	001A	Solids, total dissolved	355.6	407	1001.06
			2 YEAR AVERAGE	424.14	477.84	1661.92
			5 YEAR AVERAGE	352.32	393.81	1599.39

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY AV (lb/d)
TX0114839	1/31/2020	001A	Solids, total suspended	3	15.12
TX0114839	2/29/2020	001A	Solids, total suspended	3	14.05
TX0114839	3/31/2020	001A	Solids, total suspended	3.66	17.89
TX0114839	4/30/2020	001A	Solids, total suspended	6.29	29.45
TX0114839	5/31/2020	001A	Solids, total suspended	8.86	25.73

TX0114839	6/30/2020	001A	Solids, total suspended	4.4	16.17
TX0114839	7/31/2020	001A	Solids, total suspended	6.31	24.35
TX0114839	8/31/2020	001A	Solids, total suspended	4.50	31.78
TX0114839	9/30/2020	001A	Solids, total suspended	3.35	15.57
TX0114839	10/31/2020	001A	Solids, total suspended	3.30	14.21
TX0114839	11/30/2020	001A	Solids, total suspended	4.11	21.02
TX0114839	12/31/2020	001A	Solids, total suspended	3.46	21.13
TX0114839	1/31/2021	001A	Solids, total suspended	3	16.63
TX0114839	2/28/2021	001A	Solids, total suspended	3	18.4
TX0114839	3/31/2021	001A	Solids, total suspended	3	2.97
TX0114839	4/30/2021	001A	Solids, total suspended	7.76	35.87
TX0114839	5/31/2021	001A	Solids, total suspended	12.28	130.42
TX0114839	6/30/2021	001A	Solids, total suspended	8.47	27.77
TX0114839	7/31/2021	001A	Solids, total suspended	5.71	90.32
TX0114839	8/31/2021	001A	Solids, total suspended	5.68	30.1
TX0114839	9/30/2021	001A	Solids, total suspended	6.55	46.44
TX0114839	10/31/2021	001A	Solids, total suspended	4.01	17.65
TX0114839	11/30/2021	001A	Solids, total suspended	4.40	28.7
TX0114839	12/31/2021	001A	Solids, total suspended	4.23	23.49
TX0114839	1/31/2022	001A	Solids, total suspended	3.13	13.12
TX0114839	2/28/2022	001A	Solids, total suspended	3.27	19.94
TX0114839	3/31/2022	001A	Solids, total suspended	10.24	61.1
TX0114839	4/30/2022	001A	Solids, total suspended	27.65	91.76
TX0114839	5/31/2022	001A	Solids, total suspended	27.68	27.7
TX0114839	6/30/2022	001A	Solids, total suspended	18.61	20.77
TX0114839	7/31/2022	001A	Solids, total suspended	7.83	19.63
TX0114839	8/31/2022	001A	Solids, total suspended	4.75	19.93
TX0114839	9/30/2022	001A	Solids, total suspended	3.28	12.4
TX0114839	10/31/2022	001A	Solids, total suspended	5.59	13.25
TX0114839	11/30/2022	001A	Solids, total suspended	4.16	16.71
TX0114839	12/31/2022	001A	Solids, total suspended	3.27	29.24
TX0114839	1/31/2023	001A	Solids, total suspended	3.00	18.67
TX0114839	2/28/2023	001A	Solids, total suspended	3.00	31.54
TX0114839	3/31/2023	001A	Solids, total suspended	3.36	16.78
TX0114839	4/30/2023	001A	Solids, total suspended	11.46	50.06
TX0114839	5/31/2023	001A	Solids, total suspended	8.82	32.13
TX0114839	6/30/2023	001A	Solids, total suspended	8.45	26.19
TX0114839	7/31/2023	001A	Solids, total suspended	10.19	17.76
TX0114839	8/31/2023	001A	Solids, total suspended	11.09	21.74
TX0114839	9/30/2023	001A	Solids, total suspended	15.98	19.7
TX0114839	10/31/2023	001A	Solids, total suspended	13.47	21.63

TX0114839	11/30/2023	001A	Solids, total suspended	22.46	37.77
TX0114839	12/31/2023	001A	Solids, total suspended	4.39	14.8
TX0114839	1/31/2024	001A	Solids, total suspended	3.01	21.93
TX0114839	2/29/2024	001A	Solids, total suspended	3.00	13.01
TX0114839	3/31/2024	001A	Solids, total suspended	4.60	21.59
TX0114839	4/30/2024	001A	Solids, total suspended	3.44	18.6
TX0114839	5/31/2024	001A	Solids, total suspended	7.62	114.84
TX0114839	6/30/2024	001A	Solids, total suspended	4.36	18.06
TX0114839	7/31/2024	001A	Solids, total suspended	5.35	64.22
TX0114839	8/31/2024	001A	Solids, total suspended	6.95	25.56
TX0114839	9/30/2024	001A	Solids, total suspended	4.09	21.32
TX0114839	10/31/2024	001A	Solids, total suspended	3.43	10.86
TX0114839	11/30/2024	001A	Solids, total suspended	4.59	17.84
TX0114839	12/31/2024	001A	Solids, total suspended	3.35	14
TX0114839	1/31/2025	001A	Solids, total suspended	4.79	32.84
TX0114839	2/28/2025	001A	Solids, total suspended	3.23	20.62
TX0114839	3/31/2025	001A	Solids, total suspended	3.05	15.44
TX0114839	4/30/2025	001A	Solids, total suspended	7.37	18.92
			2 YEAR AVERAGE	7.14	27.66
			5 YEAR AVERAGE	6.71	28.43

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure DAILY AV (mg/L)	Reported Measure DAILY MX (mg/L)	Reported Measure DAILY AV (lb/d)
TX0114839	1/31/2020	001A	Sulfates, total [as SO4]	5	5	25.2
TX0114839	2/29/2020	001A	Sulfates, total [as SO4]	5	5	23.41
TX0114839	3/31/2020	001A	Sulfates, total [as SO4]	5	5	23.22
TX0114839	4/30/2020	001A	Sulfates, total [as SO4]	5	5	21.56
TX0114839	5/31/2020	001A	Sulfates, total [as SO4]	6.65	11.6	19.1
TX0114839	6/30/2020	001A	Sulfates, total [as SO4]	5	5	18.34
TX0114839	7/31/2020	001A	Sulfates, total [as SO4]	9.02	15.7	33.69
TX0114839	8/31/2020	001A	Sulfates, total [as SO4]	5.48	6.91	35.41
TX0114839	9/30/2020	001A	Sulfates, total [as SO4]	5	5	22.67
TX0114839	10/31/2020	001A	Sulfates, total [as SO4]	5	5	21.82
TX0114839	11/30/2020	001A	Sulfates, total [as SO4]	5	5	24.76
TX0114839	12/31/2020	001A	Sulfates, total [as SO4]	5	5	29.91
TX0114839	1/31/2021	001A	Sulfates, total [as SO4]	5	5	27.72
TX0114839	2/28/2021	001A	Sulfates, total [as SO4]	5	5	30.67
TX0114839	3/31/2021	001A	Sulfates, total [as SO4]	5	5	38.36
TX0114839	4/30/2021	001A	Sulfates, total [as SO4]	5	5	23.26

TX0114839	5/31/2021	001A	Sulfates, total [as SO4]	5	5	51.3
TX0114839	6/30/2021	001A	Sulfates, total [as SO4]	5	5	15.8
TX0114839	7/31/2021	001A	Sulfates, total [as SO4]	5	5	66.62
TX0114839	8/31/2021	001A	Sulfates, total [as SO4]	5	5	25.77
TX0114839	9/30/2021	001A	Sulfates, total [as SO4]	5	5	33.9
TX0114839	10/31/2021	001A	Sulfates, total [as SO4]	5	5	21.96
TX0114839	11/30/2021	001A	Sulfates, total [as SO4]	5	5	32.85
TX0114839	12/31/2021	001A	Sulfates, total [as SO4]	5	5	30.14
TX0114839	1/31/2022	001A	Sulfates, total [as SO4]	5.09	5.37	21.43
TX0114839	2/28/2022	001A	Sulfates, total [as SO4]	5	5	30.49
TX0114839	3/31/2022	001A	Sulfates, total [as SO4]	5	5	29.33
TX0114839	4/30/2022	001A	Sulfates, total [as SO4]	5	5	16.98
TX0114839	5/31/2022	001A	Sulfates, total [as SO4]	5	5	5.44
TX0114839	6/30/2022	001A	Sulfates, total [as SO4]	5	5	6.07
TX0114839	7/31/2022	001A	Sulfates, total [as SO4]	5	5	12.23
TX0114839	8/31/2022	001A	Sulfates, total [as SO4]	6.3	11.5	24.58
TX0114839	9/30/2022	001A	Sulfates, total [as SO4]	5	5	19.13
TX0114839	10/31/2022	001A	Sulfates, total [as SO4]	5	5	13.66
TX0114839	11/30/2022	001A	Sulfates, total [as SO4]	5	5	19.39
TX0114839	12/31/2022	001A	Sulfates, total [as SO4]	5	5	46.11
TX0114839	1/31/2023	001A	Sulfates, total [as SO4]	5	5	31.12
TX0114839	2/28/2023	001A	Sulfates, total [as SO4]	5	5	52.56
TX0114839	3/31/2023	001A	Sulfates, total [as SO4]	5	5	24.83
TX0114839	4/30/2023	001A	Sulfates, total [as SO4]	5	5	18.61
TX0114839	5/31/2023	001A	Sulfates, total [as SO4]	5	5	14.8
TX0114839	6/30/2023	001A	Sulfates, total [as SO4]	5	5	15.09
TX0114839	7/31/2023	001A	Sulfates, total [as SO4]	5	5	8.93
TX0114839	8/31/2023	001A	Sulfates, total [as SO4]	5	5	9.13
TX0114839	9/30/2023	001A	Sulfates, total [as SO4]	5	5	6.28
TX0114839	10/31/2023	001A	Sulfates, total [as SO4]	5	5	8.16
TX0114839	11/30/2023	001A	Sulfates, total [as SO4]	5	5	8.51
TX0114839	12/31/2023	001A	Sulfates, total [as SO4]	9.47	19.3	32.05
TX0114839	1/31/2024	001A	Sulfates, total [as SO4]	7.41	9.57	49.12
TX0114839	2/29/2024	001A	Sulfates, total [as SO4]	5.3	6.5	22.75
TX0114839	3/31/2024	001A	Sulfates, total [as SO4]	5	5	22.62
TX0114839	4/30/2024	001A	Sulfates, total [as SO4]	5	5	26.87
TX0114839	5/31/2024	001A	Sulfates, total [as SO4]	5	5	83.37
TX0114839	6/30/2024	001A	Sulfates, total [as SO4]	5	5	18.78
TX0114839	7/31/2024	001A	Sulfates, total [as SO4]	5	5	63.79
TX0114839	8/31/2024	001A	Sulfates, total [as SO4]	5	5	19.02
TX0114839	9/30/2024	001A	Sulfates, total [as SO4]	5	5	26.67

TX0114839	10/31/2024	001A	Sulfates, total [as SO4]	5	5	15.79
TX0114839	11/30/2024	001A	Sulfates, total [as SO4]	5	5	18.04
TX0114839	12/31/2024	001A	Sulfates, total [as SO4]	5	5	20.51
TX0114839	1/31/2025	001A	Sulfates, total [as SO4]	5	5	28.12
TX0114839	2/28/2025	001A	Sulfates, total [as SO4]	5	5	31.54
TX0114839	3/31/2025	001A	Sulfates, total [as SO4]	5	5	25.47
TX0114839	4/30/2025	001A	Sulfates, total [as SO4]	5	5	14.66
			2 YEAR AVERAGE	5.29	5.81	24.35
			5 YEAR AVERAGE	5.23	5.73	25.93

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0114839	7/31/2020	SLDF	Compliance w/part 258 sludge requirement	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Annual amount of sludge land applied	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Annual amt of sludge incinerated	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Annual amt sludge disposed in landfill	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Annual amt. sludge disposed surface unit	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Annual amt sludge transported interstate	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Annual sludge production, total	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL MAX (mg/kg)
TX0114839	7/31/2020	SLDP	Polychlorinated biphenyls [PCBs]	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO AV MN (pass=0;fail=1)
TX0114839	7/31/2020	SLDP	Toxicity characteristic leaching procedure	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ANNL TOT (DMT/y)
TX0114839	7/31/2020	SLDP	Ann. amt sludge disposed by other method	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MX VALUE (met t/ha/yr)
TX0114839	7/31/2020	SLLA	Annual whole sludge application rate	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Arsenic, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Cadmium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Copper, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Lead, sludge, total, dry weight [as Pb]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Mercury, sludge, total, dry weight [as Hg]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Molybdenum, sludge, total, dry weight [as Mo]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Nickel, sludge, total, dry weight [as Ni]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Selenium, dry weight	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (mg/kg)	Reported Measure MAXIMUM (mg/kg)	Reported Measure MO MIN (lb/acr)
TX0114839	7/31/2020	SLLA	Zinc, sludge, total, dry weight [as Zn]	NODI=C	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (table #)
TX0114839	7/31/2020	SLLA	Pollutant table from 503.13	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0114839	7/31/2020	SLLA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MO MIN (state class)
TX0114839	7/31/2020	SLLA	Level of pathogen requirements achieved	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0114839	7/31/2020	SLLY	Fecal coliform	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MAXIMUM (MPN/g)
TX0114839	7/31/2020	SLLY	Salmonella	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0114839	7/31/2020	SLSA	Arsenic, dry weight	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (acr)
TX0114839	7/31/2020	SLSA	Boundary areas	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0114839	7/31/2020	SLSA	Chromium, sludge, total, dry weight [as Cr]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0114839	7/31/2020	SLSA	Description of pathogen option used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure ALLWCONC (mg/kg)	Reported Measure SINGSAMP (mg/kg)
TX0114839	7/31/2020	SLSA	Nickel, total [as Ni]	NODI=C	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure MINIMUM (SU)
TX0114839	7/31/2020	SLSA	pH	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (N=0;Y=1)
TX0114839	7/31/2020	SLSA	Unit w/liner/leachate collection system	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure VALUE (alt #)
TX0114839	7/31/2020	SLSA	Vector attraction reduction alternative used	NODI=C

EPA ID	Monitoring Period	Outfall	Parameter	Reported Measure SINGSAMP (state class)
TX0114839	7/31/2020	SLSA	Level of pathogen requirements achieved	NODI=C

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfat

Menu 1 - Discharge to an Intermittent Stream

Applicant Name:	**Mauriceville MUD**
Permit Number, Outfall:	**13839001, Outfall 001**
Segment Number:	**0502**

Enter values needed for screening:			**Data Source (edit if differ**
TDS CC - segment criterion - TDS	200	mg/L	Latest approved TSWQS, A
Cl CC - segment criterion - chloride	50	mg/L	Latest approved TSWQS, A
SO4 CC - segment criterion - sulfate	50	mg/L	Latest approved TSWQS, A
TDS CE - average effluent concentration - TDS	318	mg/L	Permit application
Cl CE - average effluent concentration - chloride	75	mg/L	Permit application
SO4 CE - average effluent concentration - sulfate	4	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 Csv 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} = 1000 mg/L

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfat
Menu 1 - Discharge to an Intermittent Stream

The next step is to use the initial C_{TDS} to set the actual TDS screening value, TDS Csv, using the following table:

If C_{TDS}		Then TDS Csv
≤ 2,500 mg/L	=	2,500 mg/L
> 2,500 mg/L but ≤ 6,000 mg/L	=	C_{TDS}
> 6,000 mg/L	=	6,000 mg/L

Some specific types of intermittent streams have alternative screening values (Csv):

Specific Type of Intermittent Stream	If C_{TDS} is	Default Csv =
Dry except for short-term flow in	< 4,000 mg/L	4,000 mg/L
immediate response to rainfall.	≥ 4,000 mg/L	C_{TDS}
Constructed ditch conveying stormwater and	< 4,000 mg/L	4,000 mg/L
wastewater, considered water in the state.	≥ 4,000 mg/L	C_{TDS}
Within 3 miles of tidal waters.	—	6,000 mg/L

Once TDS Csv 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	318	mg/L	Permit application
TDS Csv - TDS screening value	**1000**	mg/L	Determined above

No control measures needed if:	318	≤	1000
Consider control measures if:	318	>	1000

No control measures needed for TDS

Before establishing effluent limitations for TDS, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average TDS limit is typically set equal to the TDS screening value. The daily maximum TDS limit is calculated as 2.12 times the daily average limit.

Total Dissolved Solids

Daily Average = N/A mg/L

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfat

Menu 1 - Discharge to an Intermittent Stream

Daily Maximum	=	N/A	mg/L

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfat
Menu 1 - Discharge to an Intermittent Stream

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 Csv, as follows:

Cl Csv = (TDS Csv /TDS CC) * Cl CC

Where:	Cl Csv = chloride screening value
	TDS Csv = TDS screening value
	TDS CC = TDS criterion at the first downstream segment
	Cl CC - chloride criterion at the first downstream segment

Cl Csv = **250** mg/L

Once the Cl Csv 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	75	mg/L	Permit application
Cl Csv - chloride screening value	250	mg/L	Determined above

No control measures needed if:	75	≤	250
Consider control measures if:	75	>	250

No control measures needed for chloride

Before establishing effluent limitations for chloride, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average chloride limit is typically set equal to the chloride screening value. The daily maximum chloride limit is calculated as 2.12 times the daily average limit.

Chloride

Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfat
Menu 1 - Discharge to an Intermittent Stream

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:

SO4 Csv = (TDS Csv /TDS CC) * SO4 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 = **250** 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
SO4 CE - average effluent sulfate concentration	4	mg/L	Permit application
SO4 Csv - sulfate screening value	250	mg/L	Determined above

No control measures needed if:	4	≤	250
Consider control measures if:	4	>	250

No control measures needed for sulfate

Before establishing effluent limitations for sulfate, review the "Final Evaluation and Additional Considerations for TDS" in the "Procedures to Implement the Texas Water Quality Standards." The specific circumstances may warrant an instream monitoring requirement or a source reduction plan rather than effluent limitations.

When effluent limitations are established in the permit, the daily average sulfate limit is typically set equal to the sulfate screening value. The daily maximum sulfate limit is calculated as 2.12 times the daily average limit.

Sulfate			
Daily Average	=	N/A	mg/L
Daily Maximum	=	N/A	mg/L

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Appendix A
Appendix A
Appendix A

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TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Claire Dittelmier, Water Quality Assessment Team
Water Quality Assessment Section

Date: April 29, 2025

Subject: Mauriceville Municipal Utility District
Wastewater Permit No. WQ0013839001
Critical Conditions Recommendation Memo

The following information applies to **Outfall 001**.

The TexTox menu number is **1** for an intermittent water body.

This discharge is to an unnamed ditch.

Segment No.	0502
Critical Low Flow [7Q2] (cfs)	0
% Effluent for Acute Aquatic Life	100

Chronic aquatic life criteria do not apply. Human health criteria do not apply.

There is no mixing zone established for this discharge to an intermittent stream. Acute toxic criteria apply at the point of discharge.

OUTFALL LOCATION[1]

Outfall Number	Latitude	Longitude
001	30.2277 N	-93.8072 W

[1] Latitude and Longitude values are approximations of the location for administrative purposes.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Orlando M. Vasquez, Jr., P.E.
Water Quality Assessment Team
Water Quality Assessment Section

Date: May 30, 2025

Subject: Mauriceville Municipal Utility District
Permit Renewal (WQ0013839001, TX0114839)
Discharge to a tributary of the Sabine River Above Tidal (Segment No. 0502) of the Sabine River Basin

The referenced applicant is proposing to renew its permit authorizing the discharge of treated domestic wastewater into the watershed of the Sabine River Above Tidal (Segment No. 0502). The existing permit is for an interim effluent flow of 0.95 MGD and a final effluent flow of 1.7 MGD. The facility is located in Orange County.

This permit action is for renewal of an existing authorization. A dissolved oxygen modeling analysis was previously performed for this permit on July 7, 2015, by Tom Y. Harrigan. Applicable water body uses and criteria, proposed permitted flow conditions, and modeling analytical procedures pertaining to this discharge situation remain unchanged from the previous review. No additional modeling work was performed for the current permit action. Therefore, the following existing effluent sets are applicable to this permit.

Interim Phase 0.95 MGD at 20 mg/L $CBOD_5$, 4 mg/L NH_3-N (March – November), Report NH_3-N (December – February) and 5.0 mg/L DO.

Final Phase 1.7 MGD at 12 mg/L $CBOD_5$ (June – September), 20 mg/L $CBOD_5$ (October – May), 4 mg/L NH_3-N and 5.0 mg/L DO.

Segment 0502 is not currently listed on the State's inventory of impaired and threatened waters (the **2024** Clean Water Act Section 303(d) list).

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.

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. Within 90 days of initial discharge of the 1.7 MGD facility, 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

		Date	Time	Date	Time
Dates and Times Composites Collected	No. 1 FROM:	_____		TO:	_____
	No. 2 FROM:	_____		TO:	_____

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

Dates and Times Composites Collected

		Date	Time		Date	Time
No. 1	FROM:	_____		TO:	_____	
No. 2	FROM:	_____		TO:	_____	

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. Within 90 days of initial discharge of the 1.7 MGD facility, 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 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.

Copies of the TRE activities report shall also be submitted to the U.S. EPA Region 6 office.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Ttesting 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. A copy of the TRE final report shall also be submitted to the U.S. EPA Region 6 office.

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.

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

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Michael Pfeil, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: May 30, 2025

Subject: Mauriceville MUD
Mauriceville WWTP
Permit No. WQ0013893001

WHOLE EFFLUENT TOXICITY (WET) TESTING (BIOMONITORING)

The following information applies to Outfall 001. We recommend freshwater 48-hour acute and 24-hour acute testing. For both tests, we recommend a water flea (*Ceriodaphnia dubia* or *Daphnia pulex*) and the fathead minnow (*Pimephales promelas*) as test species. For 48-hour acute testing, we recommend a testing frequency of once per quarter for both test species, for at least the first year of testing, after which they are eligible for the testing frequency reduction. We recommend a dilution series of 32%, 42%, 56%, 75%, and 100% with a critical dilution of 100%. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

For 24-hour acute testing, we recommend a testing frequency of once per six months for both test species.

The permittee is operating at a phase that is less than 1.0 MGD. Therefore, there is no WET testing history to review. The permittee will be required to initiate WET testing within 90 days of initial discharge of the 1.7 MGD facility.

REASONABLE POTENTIAL (RP) DETERMINATION

A reasonable potential 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 chronic WET testing, if available. 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 no WET testing history, and therefore zero failures, a determination of no RP was made. WET limits are not required, and the permittee may be eligible for the testing frequency reduction after one year of quarterly testing occurs.

TCEQ Interoffice Memorandum

To: Municipal Permits Team
Wastewater Permitting Section

From: Lauren Williams, Standards Implementation Team
Water Quality Assessment Section
Water Quality Division

Date: March 13, 2025

Subject: Mauriceville Municipal Utility District;
Permit no. WQ0013839001
Renewal; Application received February 17, 2025

The discharge route for the above referenced permit is to an unnamed ditch, thence to County Line Relief Ditch, thence to Sabine River Above Tidal in Segment 0502 of the Sabine River Basin. The designated uses and dissolved oxygen criterion as stated in Appendix A of the Texas Surface Water Quality Standards (30 Texas Administrative Code §307.10) for Segment 0502 are primary contact recreation, public water supply, high aquatic life use, and 5.0 mg/L dissolved oxygen.

Since the discharge is directly to an unclassified water body, the permit action was reviewed in accordance with 30 Texas Administrative Code §307.4(h) and (l) of the 2022 Texas Surface Water Quality Standards and the *Procedures to Implement the Texas Surface Water Quality Standards* (June 2010). Based on available information, a preliminary determination of the aquatic life uses in the area of the discharge impact has been performed and the corresponding dissolved oxygen criterion assigned.

Unnamed ditch; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
County Line Relief Ditch upnstream of Hwy 87; minimal aquatic life use; 2.0 mg/L dissolved oxygen.
County Line Relief Ditch downstream of Hwy 87; limited aquatic life use; 3.0 mg/L dissolved oxygen.

Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate.

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) biological opinion on the State of Texas authorization of the Texas Pollutant Discharge Elimination System (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.