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 *

Attachment G -

Plain Language Summary

Domestic Wastewater TPDES Renewal Application

Permit No. WQ0010403002

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 Cuero (CN600337125) operates the City of Cuero Wastewater Treatment Facility (RN102076726), an activated sludge process plant designed to operate in either the complete mix mode or contact stabilization mode. The facility is located approximately 1.5 miles south of the intersection of Stockdale Street and Morgan Avenue on Stockdale Street in the City of Cuero, DeWitt County, Texas, 77954.

This application is for a renewal to discharge at an annual average flow of 2.o MGD of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and E. 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, lift station, grit removal system, aeration basins, clarifiers, sludge thickener, aerobic digester, sludge dewatering belt press, sludge drying beds, chlorine contact chamber and a dechlorination chamber.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010403002

APPLICATION. City of Cuero, P.O. Box 660, Cuero, Texas 77954, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010403002 (EPA I.D. No. TX0024244) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located approximately 1.5 miles south of the intersection of Morgan Avenue and Stockdale Street, near the City of Cuero, in Dewitt County, Texas 77954. The discharge route is from the plant site to Gohlke Creek; thence to Guadalupe River below San Marcos River. TCEQ received this application on September 11, 2024. The permit application will be available for viewing and copying at Cuero City Hall, 212 East Main Street, Cuero, in Dewitt 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=-97.291441,29.069297&level=18

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

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in

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

Further information may also be obtained from City of Cuero at the address stated above or by calling Mr. Wayne Berger, City Manager, at 361-275-8716.

Issuance Date: October 2, 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0010403002

APPLICATION AND PRELIMINARY DECISION. City of Cuero, P.O. Box 660, Cuero, Texas 77954, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010403002, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2,000,000 gallons per day. TCEQ received this application on September 11, 2024.

The facility is located approximately 1.5 miles south of the intersection of Morgan Avenue and Stockdale Street, near the City of Cuero, in Dewitt County, Texas 77954. The treated effluent is discharged to Gohlke Creek, thence to Guadalupe River Below San Marcos River in Segment No. 1803 of the Guadalupe River Basin. The unclassified receiving water use is minimal aquatic life use for Gohlke Creek. The designated uses for Segment No. 1803 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=-97.291441,29.069297&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 Cuero City Hall, 212 East Main Street, Cuero, in Dewitt County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

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

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

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

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

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

Further information may also be obtained from City of Cuero at the address stated above or by calling Mr. Wayne Berger, City Manager, at 361-275-8716.

Issuance Date: May 23, 2025

TPDES PERMIT NO.
WQ0010403002
[For TCEQ office use only - EPA I.D. No. TX0024244]

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

This is a renewal that replaces TPDES Permit No. WQ0010403002 issued on March 12, 2020.

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

City of Cuero

whose mailing address is

P.O. Box 660,
Cuero, Texas 77954

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

located approximately 1.5 miles south of the intersection of Morgan Avenue and Stockdale Street, near the City of Cuero, in Dewitt County, Texas 77954

to Gohlke Creek, thence to Guadalupe River Below San Marcos River in Segment No. 1803 of the Guadalupe 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

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 2.0 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 4,167 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	20 (334)	30	45	65	Two/week	Composite
Total Suspended Solids	20 (334)	30	45	65	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 peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. 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 annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge 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 14) 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 14) 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)(2)(A) for specific information;

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

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

b. For sewage sludge to be classified as Class AB 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	- annually
PCBs	- annually

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

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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 14) 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 annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge 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 14) 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 14) 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 14) 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 14) 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.

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OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

   This Category B facility must be operated by a chief operator or an operator holding a Class B license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift that does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

2. The facility is not located in the Coastal Management Program boundary.

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

4. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

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

6. 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. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The following pollutants may not be introduced into the treatment facility:

   a. Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, waste streams with a closed-cup flash point of less than 140° Fahrenheit (60° Celsius) using the test methods specified in 40 CFR § 261.21;

   b. Pollutants which will cause corrosive structural damage to the POTW, but in no case shall there be discharges with a pH lower than 5.0 standard units, unless the works are specifically designed to accommodate such discharges;

   c. Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;

   d. Any pollutant, including oxygen-demanding pollutants (e.g., biochemical oxygen demand), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;

   e. Heat in amounts which will inhibit biological activity in the POTW, resulting in Interference, but in no case shall there be heat in such quantities that the temperature at the POTW treatment plant exceeds 104° Fahrenheit (40° Celsius) unless the Executive Director, upon request of the POTW, approves alternate temperature limits;

   f. Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through;

   g. Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems; and

   h. Any trucked or hauled pollutants except at discharge points designated by the POTW.

2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Clean Water Act, including any requirements established under 40 CFR Part 403 [*rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798*].

3. The permittee shall provide adequate notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days subsequent to the permittee's knowledge of either of the following:

   a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Clean Water Act if it were directly discharging those pollutants; and

   b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

   Any notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised July 2007

BIOMONITORING REQUIREMENTS

48-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival of the test organisms.

b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update

1) Acute static renewal 48-hour definitive toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia)*. A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

2) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

The permittee must perform and submit a valid test for each test species during the required reporting period for that species. A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution. A repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 32%, 42%, 56%, 75%, and 100% effluent. The critical dilution, defined as 100% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

d. This permit may be amended to require a WET limit, a chemical-specific limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

e. Testing Frequency Reduction

1) If none of the first four consecutive quarterly tests demonstrates

significant lethal effects, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant lethal effects, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant lethal effects, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fails to meet any of the following criteria:

1) a control mean survival of 90% or greater; and

2) a coefficient of variation percent (CV%) of 40 or less for both the control and critical dilution. However, if significant lethality is demonstrated, a CV% greater than 40 shall not invalidate the test. The CV% requirement does not apply when significant lethality occurs.

b. Statistical Interpretation

1) For the water flea and fathead minnow tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled “Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)” (EPA 821-B-00-004) provides guidance on determining the validity of test results.

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 90% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant lethality is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference between 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 of 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 effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TEM3D, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the water flea, Parameter TOM3D, report the NOEC for survival.

3) For the water flea, Parameter TXM3D, report the LOEC for survival.

4) For the fathead minnow, Parameter TEM6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0.

5) For the fathead minnow, Parameter TOM6C, report the NOEC for survival.

6) For the fathead minnow, Parameter TXM6C, report the LOEC for survival.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply only when a toxicity test demonstrates significant lethality. Significant lethality was defined in Part 2.b.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates significant lethality. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant

lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

c. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality. i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply

as a result of corrective actions taken by the permittee. Corrective actions are herein 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 their control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

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. 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.

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 samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The 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 the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, 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 analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting

characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival

of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN*						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010403002, EPA I.D. No. TX0024244, to discharge to water in the state.

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

Applicant: City of Cuero
P.O. Box 660,
Cuero, Texas 77954

Prepared By: Garrison Layne
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
(512) 239-0849

Date: 5/15/2025

Permit Action: Renewal

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 2.0 million gallons per day (MGD). The existing wastewater treatment facility serves Cuero, Texas.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located approximately 1.5 miles south of the intersection of Morgan Avenue and Stockdale Street, near the City of Cuero, in Dewitt County, Texas 77954.

Outfall Location:

Outfall Number	Latitude	Longitude
001	29.068497 N	97.291453 W

The treated effluent is discharged to Gohlke Creek, thence to Guadalupe River Below San Marcos River in Segment No. 1803 of the Guadalupe River Basin. The unclassified receiving water use is minimal aquatic life use for Gohlke Creek. The designated uses for Segment No. 1803 are primary contact recreation, public water supply, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The City of Cuero Wastewater Treatment Facility is an activated sludge process plant operated in the complete mix or contact stabilization mode. Treatment units include two mechanical bar screens, one lift station, one grit removal chambers, three aeration basins, two final clarifiers, one aerobic digestor, one sludge thickener, one sludge dewatering belt press, four sludge drying beds, one sulfur dechlorinationation chamber, and two chlorine contact chambers. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Victoria Compost Facility, Permit No. 42034, in Victoria County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility does not appear to receive significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period August 2022 through August 2024. 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 biochemical oxygen demand (BOD_5), total suspended solids (TSS). 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	1.18
BOD_5, mg/l	1.43
TSS, mg/l	1.45
E. coli, CFU or MPN per 100 ml	6

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 2.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 4,167 gallons per minute.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l

BOD_5	20	334	30	45
TSS	20	334	30	45
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 peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. 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
BOD_5	Two/week
TSS	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. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Victoria Compost Facility, Permit No. 42034, in Victoria County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

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

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit requirements.

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

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

305.132.

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

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged to Gohlke Creek, thence to Guadalupe River Below San Marcos River in Segment No. 1803 of the Guadalupe River Basin. The unclassified receiving water use is minimal aquatic life use for Gohlke Creek. The designated uses for Segment No. 1803 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 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. 1803 is not currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

The pollutant analysis of treated effluent provided by the permittee in the application indicated 820 mg/l total dissolved solids (TDS), 56.6 mg/l sulfate, and 200 mg/l chloride present in the effluent. The segment criteria for Segment No. 1803 are 354 mg/l for TDS, 31 mg/l for sulfate,

and 32 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 effluent limits recommended above have been reviewed for consistency with the 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 are applied in the perennial freshwater stream.

For the intermittent stream, the percent effluent for acute protection of aquatic life is 100% because the 7Q2 of the intermittent stream is 0.0 cfs. This effluent percentage also provides acute protection of aquatic life in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during critical conditions. The estimated dilution for chronic protection of aquatic life is calculated using the permitted flow of 2.0 MGD and the 7-day, 2-year (7Q2) flow of 378 cfs for Guadalupe River Below San Marcos River**,** the perennial stream. The following critical effluent percentages are being used:

Acute Effluent %: 100% Chronic Effluent %: 0.81%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded. From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and 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 206 mg/l for hardness (as calcium carbonate), 32 mg/l chlorides, 7.8 standard units for pH, and 13 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

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue (and drinking water) found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation (and drinking water) criteria are applied for human health protection in the perennial stream. TCEQ uses the mass balance equation to estimate dilution in the perennial stream during average flow conditions. The estimated dilution for human health protection is calculated using the permitted flow of 2.0 MGD and the harmonic mean flow of 607.65 cfs for Guadalupe River Below San Marcos River. The following critical effluent percentage is being used:

Human Health Effluent %: 0.507%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment B of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1803, which receives the discharge from this facility, is designated as a public water supply. The screening procedure

used to calculate water quality-based effluent limitations and determine the need for effluent limitations or monitoring requirements is identical to the procedure outlined in the aquatic organism bioaccumulation section of this fact sheet. Criteria used in the calculation of water quality-based effluent limitations for the protection of a drinking water supply are outlined in Table 2 (Water and Fish) of the Texas Surface Water Quality Standards (30 TAC Chapter 307). These criteria are developed from either drinking water maximum contaminant level (MCL) criteria outlined in 30 TAC Chapter 290 or from the combined human health effects of exposure to consumption of fish tissue and ingestion of drinking water.

(b) PERMIT ACTION

Criteria in the "Water and Fish" section of Table 2 do not distinguish if the criteria is based on a drinking water standard or the combined effects of ingestion of drinking water and fish tissue. Effluent limitations or monitoring requirements to protect the drinking water supply (and other human health effects) were previously calculated and outlined in the aquatic organism bioaccumulation criteria section of this fact sheet.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes 48-hour acute freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that the permittee has performed ten 48-hour acute tests, with zero demonstrations of significant toxicity (i.e., zero failures).

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 48-hour acute WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015.

With zero failures, a determination of no RP was made and WET limits are not required. Both test species are eligible for the testing frequency

reduction.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant lethality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

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

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

application.

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

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

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

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

For additional information about this application, contact Garrison Layne at (512) 239-0849.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010403002 issued on March 12, 2020.

B. APPLICATION

Application received on September 11, 2024.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Attachment A: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 2 - Discharge to an Intermittent Stream within 3 Miles of a Perennial Stream

Screen the Perennial Stream

Applicant Name:	**City of Cuero**
Permit Number, Outfall:	**10403-002**
Segment Number:	**1803**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**2**	MGD	
QS - Perennial stream harmonic mean flow	**717.00**	cfs	Critical conditions memo
QE - Average effluent flow	**3.0945**	cfs	Calculated
CA - TDS - ambient segment concentration	**325**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**33**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**30**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**500**	mg/L	2014 TSWQS, Appendix A
CC - chloride - segment criterion	**100**	mg/L	2014 TSWQS, Appendix A
CC - sulfate - segment criterion	**100**	mg/L	2014 TSWQS, Appendix A
CE - TDS - average effluent concentration	**820**	mg/L	Permit application
CE - chloride - average effluent concentration	**200**	mg/L	Permit application
CE - sulfate - average effluent concentration	**56.6**	mg/L	Permit application

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	41048.27
Calculate the LTA	LTA = WLA * 0.93	38174.89

Calculate the daily average	Daily Avg. = LTA * 1.47	**56117.09**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**118723.91**
Calculate 70% of the daily average	70% of Daily Avg. =	39281.96
Calculate 85% of the daily average	85% of Daily Avg. =	47699.53

No permit limitations needed if:	**820**	**≤**	**39281.96**		
Reporting needed if:	**820**	**>**	**39281.96**	**but ≤**	**47699.53**
Permit limits may be needed if:	**820**	**>**	**47699.53**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	15624.19
Calculate the LTA	LTA = WLA * 0.93	14530.50
Calculate the daily average	Daily Avg. = LTA * 1.47	**21359.84**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**45189.86**
Calculate 70% of the daily average	70% of Daily Avg. =	14951.89
Calculate 85% of the daily average	85% of Daily Avg. =	18155.86

No permit limitations needed if:	**200**	**≤**	**14951.89**		
Reporting needed if:	**200**	**>**	**14951.89**	**but ≤**	**18155.86**
Permit limits may be needed if:	**200**	**>**	**18155.86**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	16319.31
Calculate the LTA	LTA = WLA * 0.93	15176.96
Calculate the daily average	Daily Avg. = LTA * 1.47	**22310.13**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**47200.33**
Calculate 70% of the daily average	70% of Daily Avg. =	15617.09
Calculate 85% of the daily average	85% of Daily Avg. =	18963.61

No permit limitations needed if:	**56.6**	**≤**	**15617.09**		
Reporting needed if:	**56.6**	**>**	**15617.09**	**but ≤**	**18963.61**
Permit limits may be needed if:	**56.6**	**>**	**18963.61**		

No permit limitations needed for sulfate

Attachment B: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/RIVER

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
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Cuero
TPDES Permit No.:	WQ0010403002
Outfall No.:	001
Prepared by:	Garrison Layne
Date:	Feburary 17, 2025

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	Gohlke Creek
Perennial Stream/River within 3 Miles:	Guadalupe River Below San Marcos River.
Segment No.:	1803
TSS (mg/L):	13
pH (Standard Units):	7.8
Hardness (mg/L as $CaCO_3$):	206
Chloride (mg/L):	32
Effluent Flow for Aquatic Life (MGD):	2
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	378
% Effluent for Chronic Aquatic Life (Mixing Zone):	0.81
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	2
Harmonic Mean Flow (cfs) for perennial:	607.65
% Effluent for Human Health:	0.507
Human Health Criterion (select: PWS, FISH, or INC)	**PWS**

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	73590.43	0.511		1.00	Assumed
Cadmium	6.60	-1.13	219403.73	0.260		1.00	Assumed
Chromium (total)	6.52	-0.93	304812.44	0.202		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	304812.44	0.202		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	156921.31	0.329		1.00	Assumed
Lead	6.45	-0.80	362114.00	0.175		1.00	Assumed

Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	113514.75	0.404		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	170859.19	0.310		1.00	Assumed
Zinc	6.10	-0.70	209044.94	0.269		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	665	36146	381	27832	560	1185
Cadmium	17.3	0.406	66.7	193	38.2	148	56.1	118
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.493	1.38	0.379	0.557	1.17
Chlorpyrifos	0.083	0.041	0.0830	5.05	0.0476	3.89	0.0699	0.147
Chromium (trivalent)	1030	134	5110	81868	2928	63039	4304	9106
Chromium (hexavalent)	15.7	10.6	15.7	1305	9.00	1005	13.2	27.9
Copper	28.1	17.6	85.3	6574	48.9	5062	71.8	152
Cyanide (free)	45.8	10.7	45.8	1318	26.2	1015	38.5	81.6
4,4'-DDT	1.1	0.001	1.10	0.123	0.630	0.0948	0.139	0.294
Demeton	N/A	0.1	N/A	12.3	N/A	9.48	13.9	29.4
Diazinon	0.17	0.17	0.170	20.9	0.0974	16.1	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	2438	34.0	1878	49.9	105
Dieldrin	0.24	0.002	0.240	0.246	0.138	0.190	0.202	0.427
Diuron	210	70	210	8621	120	6638	176	374
Endosulfan I (*alpha*)	0.22	0.056	0.220	6.90	0.126	5.31	0.185	0.392
Endosulfan II (*beta*)	0.22	0.056	0.220	6.90	0.126	5.31	0.185	0.392
Endosulfan sulfate	0.22	0.056	0.220	6.90	0.126	5.31	0.185	0.392
Endrin	0.086	0.002	0.0860	0.246	0.0493	0.190	0.0724	0.153
Guthion [Azinphos Methyl]	N/A	0.01	N/A	1.23	N/A	0.948	1.39	2.94
Heptachlor	0.52	0.004	0.520	0.493	0.298	0.379	0.438	0.926
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.13	9.85	0.645	7.59	0.948	2.00
Lead	140	5.47	802	3848	459	2963	675	1428
Malathion	N/A	0.01	N/A	1.23	N/A	0.948	1.39	2.94
Mercury	2.4	1.3	2.40	160	1.38	123	2.02	4.27
Methoxychlor	N/A	0.03	N/A	3.69	N/A	2.84	4.18	8.84
Mirex	N/A	0.001	N/A	0.123	N/A	0.0948	0.139	0.294
Nickel	863	95.8	2136	29224	1224	22502	1799	3807
Nonylphenol	28	6.6	28.0	813	16.0	626	23.5	49.8
Parathion (ethyl)	0.065	0.013	0.0650	1.60	0.0372	1.23	0.0547	0.115
Pentachlorophenol	19.5	15.0	19.5	1842	11.2	1418	16.4	34.7
Phenanthrene	30	30	30.0	3695	17.2	2845	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	1.72	1.15	1.33	1.68	3.56
Selenium	20	5	20.0	616	11.5	474	16.8	35.6
Silver	0.8	N/A	7.72	N/A	4.42	N/A	6.49	13.7
Toxaphene	0.78	0.0002	0.780	0.0246	0.447	0.0190	0.0278	0.0589
Tributyltin [TBT]	0.13	0.024	0.130	2.96	0.0745	2.28	0.109	0.231

2,4,5 Trichlorophenol	136	64	136	7882	77.9	6069	114	242
Zinc	216	218	804	99780	460	76831	676	1432

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	197	184	269	570
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.00226	0.00210	0.00309	0.00654
Anthracene	1109	1317	13170	218881	203560	299232	633070
Antimony	6	1071	10710	1184	1101	1618	3425
Arsenic	10	N/A	N/A	3862	3592	5279	11169
Barium	2000	N/A	N/A	394736	367105	539644	1141695
Benzene	5	581	5810	987	918	1349	2854
Benzidine	0.0015	0.107	1.07	0.296	0.275	0.404	0.856
Benzo(*a*)anthracene	0.024	0.025	0.25	4.74	4.41	6.47	13.7
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.493	0.459	0.674	1.42
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.474	0.441	0.647	1.37
Bis(2-chloroethyl)ether	0.60	42.83	428.3	118	110	161	342
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	1184	1101	1618	3425
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	2013	1872	2752	5822
Bromoform [Tribromomethane]	66.9	1060	10600	13204	12280	18051	38189
Cadmium	5	N/A	N/A	3802	3535	5197	10995
Carbon Tetrachloride	4.5	46	460	888	826	1214	2568
Chlordane	0.0025	0.0025	0.025	0.493	0.459	0.674	1.42
Chlorobenzene	100	2737	27370	19737	18355	26982	57084
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	1480	1377	2023	4281
Chloroform [Trichloromethane]	70	7697	76970	13816	12849	18887	39959
Chromium (hexavalent)	62	502	5020	12237	11380	16728	35392
Chrysene	2.45	2.52	25.2	484	450	661	1398
Cresols [Methylphenols]	1041	9301	93010	205460	191078	280884	594252
Cyanide (free)	200	N/A	N/A	39474	36710	53964	114169
4,4'-DDD	0.002	0.002	0.02	0.395	0.367	0.539	1.14
4,4'-DDE	0.00013	0.00013	0.0013	0.0257	0.0239	0.0350	0.0742
4,4'-DDT	0.0004	0.0004	0.004	0.0789	0.0734	0.107	0.228
2,4'-D	70	N/A	N/A	13816	12849	18887	39959
Danitol [Fenpropathrin]	262	473	4730	51710	48091	70693	149562
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	33.6	31.2	45.8	97.0
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	63553	59104	86882	183813
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	118421	110131	161893	342508
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	14803	13766	20236	42813
3,3'-Dichlorobenzidine	0.79	2.24	22.4	156	145	213	450
1,2-Dichloroethane	5	364	3640	987	918	1349	2854
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	1382	1285	1888	3995
Dichloromethane [Methylene Chloride]	5	13333	133330	987	918	1349	2854
1,2-Dichloropropane	5	259	2590	987	918	1349	2854
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	553	514	755	1598
Dicofol [Kelthane]	0.30	0.30	3	59.2	55.1	80.9	171
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00395	0.00367	0.00539	0.0114
2,4-Dimethylphenol	444	8436	84360	87631	81497	119800	253456

Di-*n*-Butyl Phthalate	88.9	92.4	924	17546	16318	23987	50748
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.00001 54	0.00001 43	0.00002 10	0.00004 45
Endrin	0.02	0.02	0.2	3.95	3.67	5.39	11.4
Epichlorohydrin	53.5	2013	20130	10559	9820	14435	30540
Ethylbenzene	700	1867	18670	138158	128487	188875	399593
Ethylene Glycol	46744	1.68E+0 7	1.68E+0 8	9225778	8579973	1261256 1	2668371 7
Fluoride	4000	N/A	N/A	789473	734210	1079288	2283391
Heptachlor	8.0E-05	0.0001	0.001	0.0158	0.0147	0.0215	0.0456
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0572	0.0532	0.0782	0.165
Hexachlorobenzene	0.00068	0.00068	0.0068	0.134	0.125	0.183	0.388
Hexachlorobutadiene	0.21	0.22	2.2	41.4	38.5	56.6	119
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	1.54	1.43	2.10	4.45
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	29.6	27.5	40.4	85.6
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	39.5	36.7	53.9	114
Hexachlorocyclopentadiene	10.7	11.6	116	2112	1964	2887	6108
Hexachloroethane	1.84	2.33	23.3	363	338	496	1050
Hexachlorophene	2.05	2.90	29	405	376	553	1170
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	215526	200439	294645	623365
Lead	1.15	3.83	38.3	1295	1205	1771	3746
Mercury	0.0122	0.0122	0.122	2.41	2.24	3.29	6.96
Methoxychlor	2.92	3.0	30	576	536	787	1666
Methyl Ethyl Ketone	13865	9.92E+0 5	9.92E+0 6	2736510	2544954	3741082	7914807
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	2961	2753	4047	8562
Nickel	332	1140	11400	162223	150867	221774	469196
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	1973682	1835524	2698220	5708479
Nitrobenzene	45.7	1873	18730	9020	8388	12330	26087
N-Nitrosodiethylamine	0.0037	2.1	21	0.730	0.679	0.998	2.11
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	23.5	21.8	32.1	67.9
Pentachlorobenzene	0.348	0.355	3.55	68.7	63.9	93.8	198
Pentachlorophenol	0.22	0.29	2.9	43.4	40.4	59.3	125
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.126	0.117	0.172	0.365
Pyridine	23	947	9470	4539	4222	6205	13129
Selenium	50	N/A	N/A	9868	9178	13491	28542
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	45.4	42.2	62.0	131
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	324	301	442	936
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	987	918	1349	2854
Thallium	0.12	0.23	2.3	23.7	22.0	32.3	68.5
Toluene	1000	N/A	N/A	197368	183552	269822	570847
Toxaphene	0.011	0.011	0.11	2.17	2.02	2.96	6.27
2,4,5-TP [Silvex]	50	369	3690	9868	9178	13491	28542
1,1,1-Trichloroethane	200	784354	7843540	39474	36710	53964	114169
1,1,2-Trichloroethane	5	166	1660	987	918	1349	2854
Trichloroethylene [Trichloroethene]	5	71.9	719	987	918	1349	2854
2,4,5-Trichlorophenol	1039	1867	18670	205066	190711	280345	593111
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	15789	14684	21585	45667
Vinyl Chloride	0.23	16.5	165	45.4	42.2	62.0	131

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	1.76	2.14
Aluminum	584	709
Arsenic	392	476
Cadmium	39.3	47.7
Carbaryl	1.17	1.43
Chlordane	0.390	0.473
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	3013	3658
Chromium (hexavalent)	9.25	11.2
Copper	50.2	61.0
Cyanide (free)	27.0	32.7
4,4'-DDT	0.0975	0.118
Demeton	9.75	11.8
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]	0.975	1.18
Heptachlor	0.306	0.372
Hexachlorocyclohexane (*gamma*) [Lindane]	0.663	0.806
Lead	472	574
Malathion	0.975	1.18
Mercury	1.41	1.71
Methoxychlor	2.92	3.55
Mirex	0.0975	0.118
Nickel	1259	1529
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	11.4	13.9
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	1.17	1.43
Selenium	11.7	14.3
Silver	4.54	5.52
Toxaphene	0.0195	0.0236
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	473	575

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	188	229
Aldrin	0.00216	0.00262
Anthracene	209462	254347
Antimony	1133	1376
Arsenic	3695	4487
Barium	377750	458697
Benzene	944	1146

Benzidine	0.283	0.344
Benzo(*a*)anthracene	4.53	5.50
Benzo(*a*)pyrene	0.472	0.573
Bis(chloromethyl)ether	0.453	0.550
Bis(2-chloroethyl)ether	113	137
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	1133	1376
Bromodichloromethane [Dichlorobromomethane]	1926	2339
Bromoform [Tribromomethane]	12635	15343
Cadmium	3637	4417
Carbon Tetrachloride	849	1032
Chlordane	0.472	0.573
Chlorobenzene	18887	22934
Chlorodibromomethane [Dibromochloromethane]	1416	1720
Chloroform [Trichloromethane]	13221	16054
Chromium (hexavalent)	11710	14219
Chrysene	462	561
Cresols [Methylphenols]	196619	238752
Cyanide (free)	37775	45869
4,4'-DDD	0.377	0.458
4,4'-DDE	0.0245	0.0298
4,4'-DDT	0.0755	0.0917
2,4'-D	13221	16054
Danitol [Fenpropathrin]	49485	60089
1,2-Dibromoethane [Ethylene Dibromide]	32.1	38.9
m-Dichlorobenzene [1,3-Dichlorobenzene]	60817	73850
o-Dichlorobenzene [1,2-Dichlorobenzene]	113325	137609
p-Dichlorobenzene [1,4-Dichlorobenzene]	14165	17201
3,3'-Dichlorobenzidine	149	181
1,2-Dichloroethane	944	1146
1,1-Dichloroethylene [1,1-Dichloroethene]	1322	1605
Dichloromethane [Methylene Chloride]	944	1146
1,2-Dichloropropane	944	1146
1,3-Dichloropropene [1,3-Dichloropropylene]	528	642
Dicofol [Kelthane]	56.6	68.8
Dieldrin	0.00377	0.00458
2,4-Dimethylphenol	83860	101830
Di-*n*-Butyl Phthalate	16791	20389
Dioxins/Furans [TCDD Equivalents]	0.00001 47	0.00001 78
Endrin	3.77	4.58
Epichlorohydrin	10104	12270
Ethylbenzene	132212	160544
Ethylene Glycol	8828792	1072067 6
Fluoride	755501	917394
Heptachlor	0.0151	0.0183
Heptachlor Epoxide	0.0547	0.0665
Hexachlorobenzene	0.128	0.155
Hexachlorobutadiene	39.6	48.1
Hexachlorocyclohexane (*alpha*)	1.47	1.78
Hexachlorocyclohexane (*beta*)	28.3	34.4
Hexachlorocyclohexane (*gamma*) [Lindane]	37.7	45.8
Hexachlorocyclopentadiene	2020	2454

Hexachloroethane	347	422
Hexachlorophene	387	470
4,4'-Isopropylidenediphenol [Bisphenol A]	206251	250448
Lead	1239	1505
Mercury	2.30	2.79
Methoxychlor	551	669
Methyl Ethyl Ketone	2618757	3179920
Methyl *tert*-butyl ether [MTBE]	2833	3440
Nickel	155242	188508
Nitrate-Nitrogen (as Total Nitrogen)	1888754	2293487
Nitrobenzene	8631	10481
N-Nitrosodiethylamine	0.698	0.848
N-Nitroso-di-*n*-Butylamine	22.4	27.2
Pentachlorobenzene	65.7	79.8
Pentachlorophenol	41.5	50.4
Polychlorinated Biphenyls [PCBs]	0.120	0.146
Pyridine	4344	5275
Selenium	9443	11467
1,2,4,5-Tetrachlorobenzene	43.4	52.7
1,1,2,2-Tetrachloroethane	309	376
Tetrachloroethylene [Tetrachloroethylene]	944	1146
Thallium	22.6	27.5
Toluene	188875	229348
Toxaphene	2.07	2.52
2,4,5-TP [Silvex]	9443	11467
1,1,1-Trichloroethane	37775	45869
1,1,2-Trichloroethane	944	1146
Trichloroethylene [Trichloroethene]	944	1146
2,4,5-Trichlorophenol	196241	238293
TTHM [Sum of Total Trihalomethanes]	15110	18347
Vinyl Chloride	43.4	52.7

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 600337125		**RN 102076726**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy) 08/01/2024

☐ 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:*

City of Cuero

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

11. Type of Customer:

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

12. Number of Employees

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

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

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

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

15. Mailing Address:

City of Cuero
P.O. Box 660

City	Cuero	**State**	TX	**ZIP**	77954	**ZIP + 4**	

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

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(361) 275-8716	N/A	( ) -N/A

SECTION III: Regulated Entity Information

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

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

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

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

City of Cuero Wastewater Treatment Facility

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

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

25. Description to Physical Location:	Approximately 1.5 miles south of the intersection of Stockdale Street and Morgan Avenue on Stockdale Street.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Cuero			TX	77954	

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:	29.069406		**28. Longitude (W) In Decimal:**	(-)97.291685	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	04	10	97	17	30

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

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

Wastewater Treatment

34. Mailing Address:	**City of Cuero**							
	P.O. Box 660							
	City	**Cuero**	**State**	**TX**	**ZIP**	**77954**	**ZIP + 4**	
35. E-Mail Address:	**citymanager@cityofcuero.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(361) 275-8716	**N/A**	**( ) -N/A**

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

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

SECTION IV: Preparer Information

40. Name:	Brian Wik, P.E.	**41. Title:**	Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(361) 339-2085	N/A	( ) -N/A	bwik@dccm.com

SECTION V: Authorized Signature

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

Company:	City of Cuero	**Job Title:**	City Manager	
Name *(In Print):*	Wayne Berger		**Phone:**	(361) 275- **8716**
Signature:	Wayne Berger		**Date:**	9-9-2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Cuero

PERMIT NUMBER (If new, leave blank): WQ00 10403002

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: See Attachment B

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Cuero

EPAY — Voucher Number:

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes:

f. **For existing permits**:

Permit Number: WQ00 10403002

EPA I.D. (TPDES only): TX 0024244

Expiration Date: 03/12/2025

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?

City of Cuero

(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: 600337125

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: Berger, Wayne

Title: City Manager Credential:

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:

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: Last Name, First Name:

Title: Credential:

Provide a brief description of the need for a co-permittee:

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.

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Berger, Wayne

Title: City Manager Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Wik, Brian

Title: Engineer Credential: P. E.

Organization Name: Urban Engineering, LLC

Mailing Address: 2725 Swantner Drive City, State, Zip Code: Corpus Christi, TX 78404

Phone No.: 361-339-2085 E-mail Address: bwik@dccm.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Berger, Wayne

Title: City Manager Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.com

B. Prefix: Mr. Last Name, First Name: Shock, Gary

Title: WWTP Operator Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-524-0202 E-mail Address: gshock@cityofcuero.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: Berger, Wayne

Title: City Manager Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.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: Berger, Wayne

Title: City Manager Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Berger, Wayne

Title: City Manager Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.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: Berger, Wayne

Title: City Manager Credential:

Organization Name: City of Cuero

Mailing Address: P. O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.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: Cuero City Hall

Location within the building: Front Desk

Physical Address of Building: 212 E. Main Street

City: Cuero County: DeWitt

Contact (Last Name, First Name): Berger, Wayne

Phone No.: 361-275-8716 Ext.:

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?

F. Plain Language Summary Template

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

Attachment: Attachment G

G. Public Involvement Plan Form

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

Attachment: N/A

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** 102076726

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

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

City of Cuero Wastewater Treatment Facility

C. Owner of treatment facility: City of Cuero

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

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

Prefix: Last Name, First Name:

Title: Credential:

Organization Name: City of Cuero

Mailing Address: P.O. Box 660 City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 E-mail Address: citymanager@cityofcuero.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:

E. Owner of effluent disposal site:

Prefix: N/A Last Name, First Name:

Title: Credential:

Organization Name:

Mailing Address: City, State, Zip Code:

Phone No.: E-mail Address:

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:

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

Prefix: N/A Last Name, First Name:

Title: Credential:

Organization Name:

Mailing Address: City, State, Zip Code:

Phone No.: E-mail Address:

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:

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:

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:

City nearest the outfall(s): Cuero

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

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:

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:

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:

B. City nearest the disposal site:

C. County in which the disposal site is located:

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

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

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.

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:

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number:

Amount past due:

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:

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010403002

Applicant: City of Cuero

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): Wayne Berger

Signatory title: City Manager

Signature: Wayne Berger Date: 9-9-2024

(Use blue ink)

Subscribed and Sworn to before me by the said WAYNE BERGER

on this 9th day of September, 2024.

My commission expires on the 14th day of July, 2027.

Rhonda G. Stastny

Notary Public

RHONDA G. STASTNY
Notary Public, State of Texas
Comm. Expires 07-14-2027
Notary ID 5141633

[SEAL]

DeWitt

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Attachment H

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:** WQ0010403002

1. Check or Money Order Number: 133277
2. Check or Money Order Amount: 2,015.00
3. Date of Check or Money Order: 09/04/2024
4. Name on Check or Money Order:City of Cuero
5. APPLICATION INFORMATION

   Name of Project or Site: City of Cuero Wastewater Treatment Facility

   Physical Address of Project or Site: 1925 Stockdale Street

   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

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): 2.0

2-Hr Peak Flow (MGD): 6.0

Estimated construction start date:

Estimated waste disposal start date:

B. Interim II Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date:

Estimated waste disposal start date:

C. Final Phase

Design Flow (MGD):

2-Hr Peak Flow (MGD):

Estimated construction start date:

Estimated waste disposal start date:

D. Current Operating Phase

Provide the startup date of the facility: April 2016

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**.

See Attachment C

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)
See Attachment D		

C. Process Flow Diagram

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

Attachment: See Attachment E

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

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

- Latitude: 29.068566
- Longitude: (-)97.291423

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

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

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

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

Attachment: See Attachment F

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

Cuero, TX

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

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**.

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.

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: 2001 and 2012

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**.

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.

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*.

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.

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.

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.

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 AO68 or TXRNE

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:

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.

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.

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.

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.

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

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.

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.

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	3.3	3.3	1	Grab	8-7-24/0916
Total Suspended Solids, mg/l	4.8	4.8	1	Grab	8-7-24/0916
Ammonia Nitrogen, mg/l	0.50	0.50	1	Grab	8-7-24/0916
Nitrate Nitrogen, mg/l	5.60	5.60	1	Grab	8-7-24/0916

Total Kjeldahl Nitrogen, mg/l	2.03	2.03	1	Grab	8-7-24/0916
Sulfate, mg/l	56.6	56.6	1	Grab	8-7-24/0916
Chloride, mg/l	200	200	1	Grab	8-7-24/0916
Total Phosphorus, mg/l	2.11	2.11	1	Grab	8-7-24/0916
pH, standard units	7.6	7.6	1	Grab	8-7-24/0916
Dissolved Oxygen*, mg/l	6.9	6.9	1	Grab	8-7-24/0916
Chlorine Residual, mg/l	1.04	1.04	1	Grab	8-7-24/0916
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	820	820	1	Grab	8-7-24/0916
Electrical Conductivity, µmohs/cm, †	1310	1310	1	Grab	8-7-24/0916
Oil & Grease, mg/l	<5.0	<5.0	1	Grab	8-7-24/0916
Alkalinity ($CaCO_3$)*, mg/l	330	330	1	Grab	8-7-24/0916

*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: Gary Shock

Facility Operator's License Classification and Level: WW Treatment Operator Level A

Facility Operator's License Number: WW0014773

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:

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.

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk			

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

D. Disposal site

Disposal site name: Victoria Compost Facility

TCEQ permit or registration number: #42034

County where disposal site is located: Victoria

E. Transportation method

Method of transportation (truck, train, pipe, other): Roll Off Container and Truck

Name of the hauler: Texas Disposal Systems

Hauler registration number: 22419

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:
- USDA Natural Resources Conservation Service Soil Map:

  Attachment:
- Federal Emergency Management Map:

  Attachment:
- Site map:

  Attachment:

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:

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:

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:

Total Kjeldahl Nitrogen, mg/kg:

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg:

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

Volume and frequency of sludge to the lagoon(s):

Total dry tons stored in the lagoons(s) per 365-day period:

Total dry tons stored in the lagoons(s) over the life of the unit:

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.

D. Site development plan

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

Attach the following documents to the application.

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

  Attachment:
- Copy of the closure plan

  Attachment:
- Copy of deed recordation for the site

  Attachment:
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons

  Attachment:
- Description of the method of controlling infiltration of groundwater and surface water from entering the site

  Attachment:
- Procedures to prevent the occurrence of nuisance conditions

  Attachment:

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:

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:

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:

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:

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: Wayne Berger

Title: City Manager

Signature: Wayne Berger

Date: 9-9-2024

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:

Distance and direction to the intake:

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

Attachment:

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:

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).

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).

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: Gohlke Creek

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

Average depth of water body within a 500-foot radius of discharge point, in feet:

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

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:

C. Downstream perennial confluences

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

Guadalupe River

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.

The discharge of Gohlke Creek is to the Guadalupe River.

E. Normal dry weather characteristics

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

Upstream water levels were a trickle during observation.

Date and time of observation: 11.25.15

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

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

A. Upstream influences

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

☐ Oil field activities
☐ Upstream discharges
☐ Septic tanks
☒ Urban runoff
☒ Agricultural runoff
☐ Other(s), specify:

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:

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: 8-7-24 @ 0916

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	<50	1	50
Aldrin	<0.01	<0.01	1	0.01
Aluminum	39.9	39.9	1	2.5
Anthracene	<10	<10	1	10
Antimony	<5	<5	1	5
Arsenic	1.4	1.4	1	0.5
Barium	76.9	76.9	1	3
Benzene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)anthracene	<5	<5	1	5
Benzo(a)pyrene	<5	<5	1	5
Bis(2-chloroethyl)ether	<10	<10	1	10
Bis(2-ethylhexyl)phthalate	<10	<10	1	10
Bromodichloromethane	<10	<10	1	10
Bromoform	<10	<10	1	10
Cadmium	3.7	3.7	1	1
Carbon Tetrachloride	<2	<2	1	2
Carbaryl	<5	<5	1	5
Chlordane*	<0.2	<0.2	1	0.2
Chlorobenzene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chlorodibromomethane	<10	<10	1	10
Chloroform	22.3	22.3	1	10
Chlorpyrifos	<0.05	<0.05	1	0.05
Chromium (Total)	<3	<3	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Chromium (Hex)	<3	<3	1	3
Copper	3	3	1	2
Chrysene	<5	<5	1	5
p-Chloro-m-Cresol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
p-Cresol	<10	<10	1	10
Cyanide **(*2)**	<10	<10	1	10
4,4'- DDD	<0.1	<0.1	1	0.1
4,4'- DDE	<0.1	<0.1	1	0.1
4,4'- DDT	<0.02	<0.02	1	0.02
2,4-D	<0.7	<0.7	1	0.7
Demeton (O and S)	<0.20	<0.20	1	0.20
Diazinon	<0.5	<0.5	1	0.5/0.1
1,2-Dibromoethane	<10	<10	1	10
m-Dichlorobenzene	<10	<10	1	10
o-Dichlorobenzene	<10	<10	1	10
p-Dichlorobenzene	<10	<10	1	10
3,3'-Dichlorobenzidine	<5	<5	1	5
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
Dichloromethane	<20	<20	1	20
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropene	<10	<10	1	10
Dicofol	<1	<1	1	1
Dieldrin	<0.02	<0.02	1	0.02
2,4-Dimethylphenol	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
Diuron	<0.09	<0.09	1	0.09

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Ethylbenzene	<10	<10	1	10
Fluoride	870	870	1	500
Guthion	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	1	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	1	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	1	0.05
Hexachlorocyclopentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Hexachlorophene	<10	<10	1	10
Lead	<0.5	<0.5	1	0.5
Malathion	<0.1	<0.1	1	0.1
Mercury	<0.005	<0.005	1	0.005
Methoxychlor	<2	<2	1	2
Methyl Ethyl Ketone	<50	<50	1	50
Mirex	<0.02	<0.02	1	0.02
Nickel	<2	<2	1	2
Nitrate-Nitrogen	5.60	5.60	1	100
Nitrobenzene	<10	<10	1	10
N-Nitrosodiethylamine	<20	<20	1	20
N-Nitroso-di-n-Butylamine	<20	<20	1	20
Nonylphenol	<333	<333	1	333
Parathion (ethyl)	<0.1	<0.1	1	0.1
Pentachlorobenzene	<20	<20	1	20
Pentachlorophenol	<5	<5	1	5

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Phenanthrene	<10	<10	1	10
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.2	<0.2	1	0.2
Pyridine	<20	<20	1	20
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
1,2,4,5-Tetrachlorobenzene	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Thallium	<0.5	<0.5	1	0.5
Toluene	<10	<10	1	10
Toxaphene	<0.3	<0.3	1	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	N/A	0.01
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
2,4,5-Trichlorophenol	<50	<50	1	50
TTHM (Total Trihalomethanes)	30.7	30.7	1	10
Vinyl Chloride	<10	<10	1	10
Zinc	16.5	16.5	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: 8-7-2024 @ 0916

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	<5	1	5
Arsenic	1.4	1.4	1	0.5
Beryllium	<0.5	<0.5	1	0.5
Cadmium	3.7	3.7	1	1
Chromium (Total)	<3	<3	1	3
Chromium (Hex)	<3	<3	1	3
Chromium (Tri) **(*1)**	<3	<3	1	N/A
Copper	3.0	3.0	1	2
Lead	<0.5	<0.5	1	0.5
Mercury	<0.005	<0.005	1	0.005
Nickel	<2	<2	1	2
Selenium	<5	<5	1	5
Silver	<0.5	<0.5	1	0.5
Thallium	<0.5	<0.5	1	0.5
Zinc	16.5	16.5	1	5
Cyanide **(*2)**	<10	<10	1	10
Phenols, Total	<10	<10	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	<50	<50	1	50
Acrylonitrile	<50	<50	1	50
Benzene	<10	<10	1	10
Bromoform	<10	<10	1	10
Carbon Tetrachloride	<2	<2	1	2
Chlorobenzene	<10	<10	1	10
Chlorodibromomethane	<10	<10	1	10
Chloroethane	<50	<50	1	50
2-Chloroethylvinyl Ether	<10	<10	1	10
Chloroform	22.3	22.3	1	10
Dichlorobromomethane [Bromodichloromethane]	<10	<10	1	10
1,1-Dichloroethane	<10	<10	1	10
1,2-Dichloroethane	<10	<10	1	10
1,1-Dichloroethylene	<10	<10	1	10
1,2-Dichloropropane	<10	<10	1	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10	<10	1	10
1,2-Trans-Dichloroethylene	<10	<10	1	10
Ethylbenzene	<10	<10	1	10
Methyl Bromide	<50	<50	1	50
Methyl Chloride	<50	<50	1	50
Methylene Chloride	<20	<20	1	20
1,1,2,2-Tetrachloroethane	<10	<10	1	10
Tetrachloroethylene	<10	<10	1	10
Toluene	<10	<10	1	10
1,1,1-Trichloroethane	<10	<10	1	10
1,1,2-Trichloroethane	<10	<10	1	10
Trichloroethylene	<10	<10	1	10
Vinyl Chloride	<10	<10	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	<10	<10	1	10
2,4-Dichlorophenol	<10	<10	1	10
2,4-Dimethylphenol	<10	<10	1	10
4,6-Dinitro-o-Cresol	<50	<50	1	50
2,4-Dinitrophenol	<50	<50	1	50
2-Nitrophenol	<20	<20	1	20
4-Nitrophenol	<50	<50	1	50
P-Chloro-m-Cresol	<10	<10	1	10
Pentalchlorophenol	<5	<5	1	5
Phenol	<10	<10	1	10
2,4,6-Trichlorophenol	<10	<10	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	<10	<10	1	10
Acenaphthylene	<10	<10	1	10
Anthracene	<10	<10	1	10
Benzidine	<50	<50	1	50
Benzo(a)Anthracene	<5	<5	1	5
Benzo(a)Pyrene	<5	<5	1	5
3,4-Benzofluoranthene	<10	<10	1	10
Benzo(ghi)Perylene	<20	<20	1	20
Benzo(k)Fluoranthene	<5	<5	1	5
Bis(2-Chloroethoxy)Methane	<10	<10	1	10
Bis(2-Chloroethyl)Ether	<10	<10	1	10
Bis(2-Chloroisopropyl)Ether	<10	<10	1	10
Bis(2-Ethylhexyl)Phthalate	<10	<10	1	10
4-Bromophenyl Phenyl Ether	<10	<10	1	10
Butyl benzyl Phthalate	<10	<10	1	10
2-Chloronaphthalene	<10	<10	1	10
4-Chlorophenyl phenyl ether	<10	<10	1	10
Chrysene	<5	<5	1	5
Dibenzo(a,h)Anthracene	<5	<5	1	5
1,2-(o)Dichlorobenzene	<10	<10	1	10
1,3-(m)Dichlorobenzene	<10	<10	1	10
1,4-(p)Dichlorobenzene	<10	<10	1	10
3,3-Dichlorobenzidine	<5	<5	1	5
Diethyl Phthalate	<10	<10	1	10
Dimethyl Phthalate	<10	<10	1	10
Di-n-Butyl Phthalate	<10	<10	1	10
2,4-Dinitrotoluene	<10	<10	1	10
2,6-Dinitrotoluene	<10	<10	1	10
Di-n-Octyl Phthalate	<10	<10	1	10
1,2-Diphenylhydrazine (as Azo-benzene)	<20	<20	1	20
Fluoranthene	<10	<10	1	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<10	<10	1	10
Hexachlorobenzene	<5	<5	1	5
Hexachlorobutadiene	<10	<10	1	10
Hexachlorocyclo-pentadiene	<10	<10	1	10
Hexachloroethane	<20	<20	1	20
Indeno(1,2,3-cd)pyrene	<5	<5	1	5
Isophorone	<10	<10	1	10
Naphthalene	<10	<10	1	10
Nitrobenzene	<10	<10	1	10
N-Nitrosodimethylamine	<50	<50	1	50
N-Nitrosodi-n-Propylamine	<20	<20	1	20
N-Nitrosodiphenylamine	<20	<20	1	20
Phenanthrene	<10	<10	1	10
Pyrene	<10	<10	1	10
1,2,4-Trichlorobenzene	<10	<10	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	<0.01	<0.01	1	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
beta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
delta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	1	0.05
Chlordane	<0.2	<0.2	1	0.2
4,4-DDT	<0.02	<0.02	1	0.02
4,4-DDE	<0.1	<0.1	1	0.1
4,4,-DDD	<0.1	<0.1	1	0.1
Dieldrin	<0.02	<0.02	1	0.02
Endosulfan I (alpha)	<0.01	<0.01	1	0.01
Endosulfan II (beta)	<0.02	<0.02	1	0.02
Endosulfan Sulfate	<0.1	<0.1	1	0.1
Endrin	<0.02	<0.02	1	0.02
Endrin Aldehyde	<0.1	<0.1	1	0.1
Heptachlor	<0.01	<0.01	1	0.01
Heptachlor Epoxide	<0.01	<0.01	1	0.01
PCB-1242	<0.2	<0.2	1	0.2
PCB-1254	<0.2	<0.2	1	0.2
PCB-1221	<0.2	<0.2	1	0.2
PCB-1232	<0.2	<0.2	1	0.2
PCB-1248	<0.2	<0.2	1	0.2
PCB-1260	<0.2	<0.2	1	0.2
PCB-1016	<0.2	<0.2	1	0.2
Toxaphene	<0.3	<0.3	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.

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.

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:

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic:

48-hour Acute:

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☒ No

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

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs:

Average Daily Flows, in MGD:

Significant IUs – non-categorical:

Number of IUs:

Average Daily Flows, in MGD:

Other IUs:

Number of IUs:

Average Daily Flows, in MGD:

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.

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.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

E. Service Area Map

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

Attachment:

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.

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.

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.

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

A. General information

Company Name: N/A

SIC Code:

Contact name:

Address:

City, State, and Zip Code:

Telephone number:

Email address:

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).

C. Product and service information

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

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day:

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day:

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:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

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.

Attachment Index

Attachment A –

USGS Map

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF TEXAS
BOARD OF WATER ENGINEERS

CUERO QUADRANGLE
TEXAS–DE WITT CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

6542 III NW (WESTHOFF)
6542 III NE (CONCRETE)
6542 II NW (EDGAR)
6542 III SW (BLACKWELL LAKE)
6542 II SW (VERHELLE)
6541 IV NW (YORKTOWN EAST)
6541 I NW (MISSION VALLEY)

97°22'30" 29°07'30" — 97°15' 29°07'30"

VALLEY VIEW SCHOOL 7.5 MI. — VALLEY VIEW SCH. 5.5 MI. — GONZALES 30 MI. HOCHHEIM 13 MI. — TERRYVILLE 9.1 MI.

KENEDY 35 MI. BROWN 10 MI. — SAN ANTONIO 81 MI. WESTHOFF 84 MI. — 13 MI. TO U.S. 87 — THOMASTON 9.3 MI. VICTORIA 29 MI.

GOLIAD 23 MI. SINTON 81 MI. — (MEYERSVILLE) 6541 IV NE — ARNECKEVILLE 0.5 MI. VICTORIA 23 MI.

2 550 000 FEET — 2 520 000 FEET — 460 000 FEET — 430 000 FEET

Lindenau — Sandies Creek — Deer Creek — Lost Creek — Oakley Pits — Gravel Pit — TV Relay Tower — Gas — Pumping Sta — BM 181 — BM 177 — BM 185 — BM 166 — BM 208 — BM 255 — BM 232 — BM 234 — BM 293 — BM 173

OLD RAILROAD GRADE — ABANDONED — SOUTHERN PACIFIC — Goliad — Creek — RIVER — GUADALUPE — Branch — Fivemile Creek — (UNDERGROUND) TELEPHONE CABLE

CUERO — WOODWORTH ST — EVERS ST — BRIDGE — PARK ST — REUSS STREET — GUESS ST — BROADWAY — STREET — ESPLANADE — HENRY — GRANT ST — MORGAN — COURTHOUSE — Burns Hospital — Hillside Cem — Evergreen Cem — High School — Historical Marker — Armory — MUNICIPAL PARK — Municipal Airport — Water — Oil — Swimming Pool — Park — Lost Creek Cem — Radio Tower (KCFH) Swimming Pool — Woodman Cem — County Cem — Clinton Sch — Antioch Ch — Gravel Pits — Oil Well — Rateliffe Sch — Westville Cem — Mc Crabb Cem — Zion Ch

CUERO WWTP FACILITY BOUNDARY

CUERO WWTP PROPERTY BOUNDARY

OUTFALL 001 POINT OF DISCHARGE

One (1) Mile Radius

Three (3) Miles Downstream

DISCHARGE ROUTE

CUERO WWTP
CUERO, TEXAS
USGS TOPOGRAPHICAL MAP
EXHIBIT A

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1958. Field check 1960

Polyconic projection. 1927 North American Datum
10,000-foot grid based on Texas coordinate system, south central zone
1000-meter Universal Transverse Mercator grid ticks, zone 14, shown in blue

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs
This information is unchecked

Red tint indicates areas in which only landmark buildings are shown

To place on the predicted North American Datum 1983 move the projection lines 22 meters south and 26 meters east as shown by dashed corner ticks

MN — GN — 0°49' 15 MILS — 6½° 116 MILS

UTM GRID AND 1987 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Purple tint indicates extension of urban areas

SCALE 1:24 000

1 MILE — 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET — 1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TEXAS
QUADRANGLE LOCATION
2997–121

Revisions shown in purple and woodland compiled from aerial photographs taken 1981 and other source data. This information not field checked. Map edited 1987

ROAD CLASSIFICATION
Medium-duty — Light-duty — Unimproved dirt
U.S. Route — State Route
Primary highway, hard surface

CUERO, TEX.
29097–A3–TF–024

1960
PHOTOREVISED 1987
DMA 6542 III SE—SERIES V882

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1987

Attachment B –

Copy of Application Fee Check

Attachment C

A. GENERAL

The plant is a 2.0 MGD activated sludge plant designed to operate in either the complete mix mode or contact stabilization mode. All flow is delivered to the plant via the gravity collection system. Once pumped from the Plant Lift Station all main flow is by gravity until discharged.

B. BAR SCREENING

The plant has a mechanically cleaned coarse screening facility with 1/4 inch bar openings. To protect the plant lift station pumps from clogging or damage from the debris and trash in the raw influent, the bar screen facility is upstream of the Plant Lift Station.

C. PLANT LIFT STATION

The Plant Lift Station is an underground concrete structure with three submersible pumps.

D. GRIT REMOVAL

The grit removal system has a hydrodynamic vortex type separator, grit pump and grit classifier which deposit the grit into a container at ground level.

E. AERATION BASINS

There are three aeration basins. Aeration in the basins is provided by blowers and fine bubble diffusion system.

F. CLARIFIERS

There are two clarifiers with each one able to handle 75% of the peak flow. This allows for a clarifier to be taken out of service during low flow periods for maintenance, cleaning and for unforeseen circumstances.

Return Activated Sludge (RAS) and Waste Activated Sludge (WAS) pumps are located in the common sludge box between the clarifiers. RAS pumps return settled solids to Splitter Box No. 1 upstream of Aeration Basins. WAS pumps pump waste solids to the Thickener.

G. DISINFECTION

The Chlorine Contact Chamber provides 20 minute detention at peak flow. The Chlorine Contact Chamber is divided into two basins which allows one basin to be taken out of service at low flow periods and cleaned.

Chlorine gas for disinfection and sulfur dioxide gas for dechlorination is used.

The last trough of the disinfection unit contains a Parshall Flume for flow metering. The flow meter measures the plant discharge and sends a signal to the chart recorder and to the disinfection system for flow pacing (disinfection provided matches the actual amount of effluent leaving the plant).

H. SLUDGE THICKENER

The plant has a 22’ diameter sludge thickener with a bottom slope of 1.5” per linear foot.

I. AEROBIC DIGESTER

The digester is sized for at least a 15 Day detention. Air supply is provided by the blowers.

J. SOLIDS DEWATERING

Solids from the Aerobic Digester are dewatered on the 1.5 meter belt press.

K. NON-POTABLE WATER PUMPS

Centrifugal water pumps are located at the disinfection tank to provide plant wash water, make-up water for treatment processes and site irrigation.

L. EFFLUENT DISCHARGE OUTFALL

A discharge pipe transports water from the disinfection unit to Gohlke Creek.

M. PLANT OFFICE

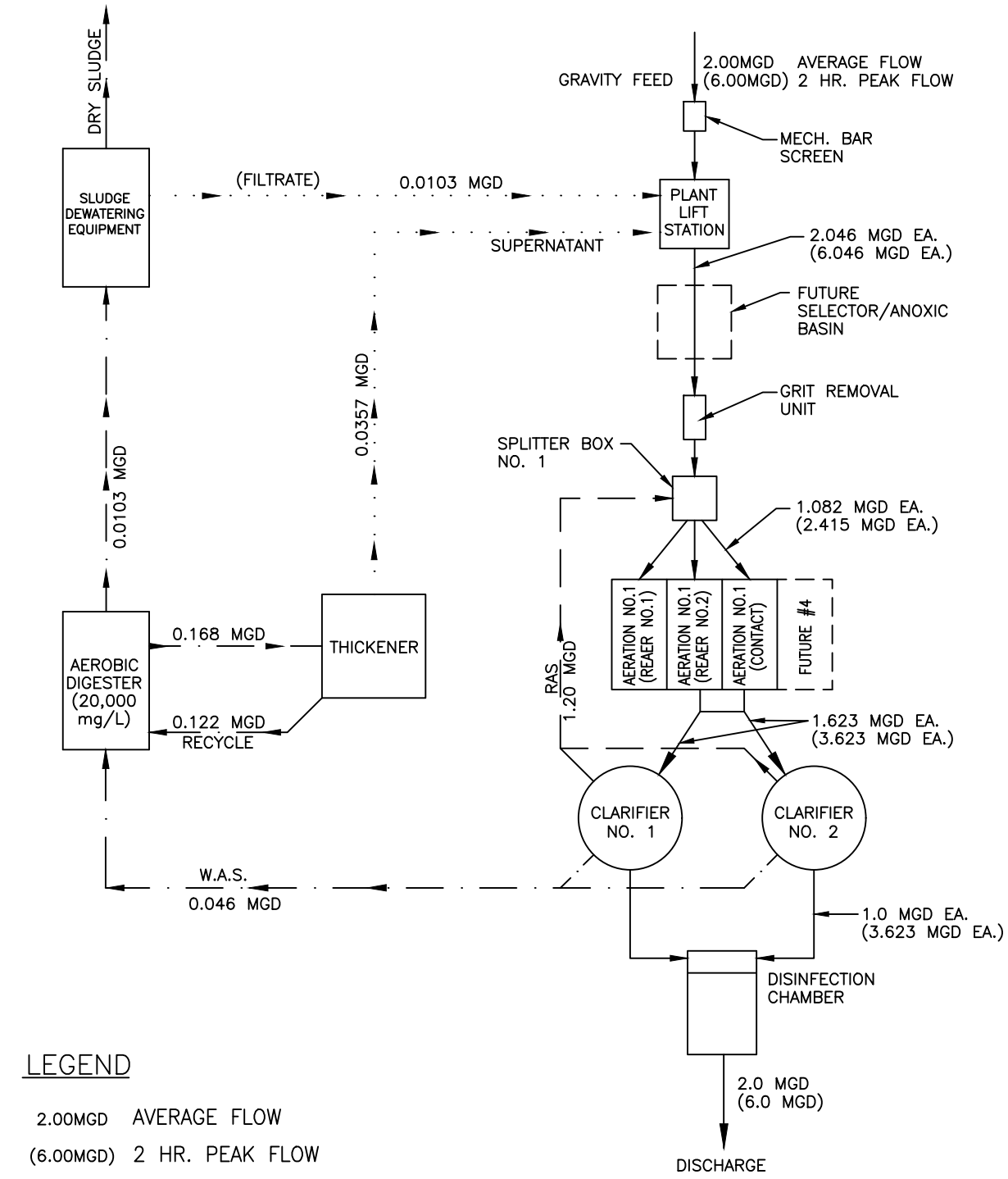
The plant office contains an office area, lab work area with sink, bathroom with shower and Motor Control Center electrical room.

Attachment D – Treatment Units

Section 2B – Table 1.0(1) Treatment Units
Domestic Technical Report 1.0

A. EXISTING TREATMENT UNITS

Treatment Units	# of Units	Dimensions (LxWxD)
Mechanical Bar Screen	2	2’ Wide x ¼” Openings
Plant Lift Station	1	14’x12’ Cross Section
Grit Removal	1	10’ Dia.
Aeration Basins	3	80’x20’x16’SWD
Clarifier	2	72’ Dia. with 11.5’ SWD
Chlorine Contact Chamber	2	42’x10’
Aerobic Digester	1	51’x102’x12’SWD
Sludge Thickener	1	52’ Dia. with 12’ SWD
Sludge Dewatering (Belt Press)	1	1.5 meter width
Sludge Drying Bed (Wedgewire Type)	4	20.5’x30.5’



LEGEND

2.00MGD AVERAGE FLOW

(6.00MGD) 2 HR. PEAK FLOW

PRIMARY FLOW ROUTE

R.A.S. FLOW

W.A.S. FLOW

SUPERNATANT

ALT. TREATMENT (COMPLETE MIX)

CUERO WWTP

CUERO, TEXAS

FLOW SCHEMATIC

SCALE: N.T.S.
DATE: 07/2019

ATTACHMENT E

S:\Projects\42000up\42106\B900 2019 Permit Renewal\Exhibits\Attachment E.dwg modified by bdw on Jul 12, 2019 - 2:57pm

Attachment F –

Site Drawing

EMERGENCY HOLDING LAGOON

TOE OF BANK

MID OF BANK

TOP OF BANK

BORE HOLE #4

MH
TR=156.26
FL=147.46

MH
TR=158.42
FL=150.12

PLUGGED

MH
TR=162.35
FL=146.85

MH
TR=159.37
FL=144.77

BORE HOLE #1

3.25'

MECH. BAR SCREEN

PLANT LIFT STATION

12.00'

R=20.00'

R=20.00'

26

25

20.00'

10.00'

12.00'

16.00'

12.00'

4.00'

R=24.00'

OFFICE AND ELECT. BUILDING

16.00'

25.00'

PIPE STORAGE

CONCRETE SLAB

Water Well
Water Tank

CONC

GRAVEL

WELL HOUSE

COVERED AREA

R=10.00'

30.00'

5.00'

TOE OF BERM

R=10.00'

R=18.00'

22.00'

TIED SIDEWALK

40.00'

14.00'

R=15.00

4.25'

FUTURE AERATION BASIN NO. 4

AERATION BASIN NO. 1

AERATION BASIN NO. 2

AERATION BASIN NO. 3

BORE HOLE #2

66.00'

BLOWER FACILITY

REAERATION BASIN

CONTACT AERATION BASIN

FINAL CLARIFIER

AEROBIC DIGESTER NO.1

AEROBIC DIGESTER NO.2

SLUDGE BELT PRESS

25.67'

R=10'

10.00'

16.00'

35.00'

11.00'

62.25'

36.00'

5.32'

CLARIFIER NO. 1

R=40.00'

BORE HOLE #3

63.50'

CHLORINE CONTACT CHAMBER

28.07'

R=60.00'

36.00'

CLARIFIER NO. 2

45°

7.00'

18.00'

10

14.00'

MH
TR=166.60
FL=160.95

R=32.00'

R=14.00'

SLUDGE DEWATERING BEDS

SLUDGE DRYING BED

SLUDGE DRYING BED

18.00'

8.00'

10.00'

15.00'

R=42.00'

R=20.00

10.00'

8.00'

CATTLE GUARD

30.00'

30.00'

98.75'

38.25'

66.82'

47.25'

℄ CLARIFIER

℄ CLARIFIER

BENCHMARK: 60d NAIL SET IN LIGHT POLE ELEVATION: 167.54 NGVD29

ENTRANCE

30 20 10 0 20 40

GRAPHIC SCALE
1"=20'

APPROVED	DESCRIPTION	REV.	BY	DATE

SCALE: AS NOTED
DRAWN: SB
CHECKED: MM
DATE: NOV., 2012

STATE OF TEXAS
MARK A. MARONEY
103015
REGISTERED
PROFESSIONAL ENGINEER
11/21/12

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MARK A. MARONEY, P.E. TX. REG. #103015 (11/21/2012)

HORIZONTAL CONTROL LAYOUT

1.5 MGD TO 2.0 MGD EXPANSION
CUERO WASTEWATER TREATMENT PLANT
CUERO, TEXAS

URBAN ENGINEERING
CORPUS CHRISTI, TEXAS
Firm No. 145; 2725 SWANTNER CORPUS CHRISTI, TX 78404-2832
V:(361)854-3101 F:(361)854-6001 E:mail@urbaneng.com

SHEET
05
OF 82

JOB NO.
42106.B1.00

Attachment G -

Plain Language Summary

Domestic Wastewater TPDES Renewal Application

Permit No. WQ0010403002

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 Cuero (CN600337125) operates the City of Cuero Wastewater Treatment Facility (RN102076726), an activated sludge process plant designed to operate in either the complete mix mode or contact stabilization mode. The facility is located approximately 1.5 miles south of the intersection of Stockdale Street and Morgan Avenue on Stockdale Street in the City of Cuero, DeWitt County, Texas, 77954.

This application is for a renewal to discharge at an annual average flow of 2.o MGD of treated domestic wastewater via Outfall 001.

Discharges from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and E. 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, lift station, grit removal system, aeration basins, clarifiers, sludge thickener, aerobic digester, sludge dewatering belt press, sludge drying beds, chlorine contact chamber and a dechlorination chamber.

Attachment H –

Supplemental Permit Information (SPIF)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: City of Cuero

   Permit No. WQ00 10403002 EPA ID No. TX 0024244

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

   1925 Stockdale Street, Located at the south end of Stockdale Street, 1.5 miles south of the intersection of Stockdale Street and Morgan Avenue in the City of Cuero, DeWitt County, Texas.

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: Wayne Berger

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

Title: City Manager

Mailing Address: P.O. Box 660

City, State, Zip Code: Cuero, TX 77954

Phone No.: 361-275-8716 Ext.: Fax No.:

E-mail Address: citymanager@cityofcuero.com

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

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.

To Gohlke Creek, thence to the Guadalupe River below the San Marcos River in Segment 1803 of the Guadalupe 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):

N/A

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

N/A

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

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

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

Attachment I –

Laboratory Accreditation Certificate

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

Envirodyne Laboratories, Inc.
11011 Brooklet Drive, Suite 230
Houston, TX 77099-3543

State Lab ID: T104704265
Effective Date: 08/09/2024
Expiration Date: 07/31/2025
Certificate ID: TX-C24-00284

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 08/09/2024

Attachment J –

Effluent Test Results from Laboratory

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

05 September 2024

Urban Engineering
Brian Wik
2725 Swantner
Corpus Christi, TX 78404

Urban Engineering - City of Cuero Permit Renewal

Enclosed are the results of analyses for samples received by the laboratory on 08-Aug-24 16:20. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 18

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia
Administrator

Certificate ID: TX-C24-00284

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Urban Engineering
Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	24H0968-01	Water	07-Aug-24 09:16	08-Aug-24 16:20

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia, Administrator

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.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Urban Engineering
Project: Urban Engineering - City of Cuero Permit Renewal
Work Order: 24H0968

Reported:
05-Sep-24 16:06

Effluent

24H0968-01 (Water) Sampled: 07-Aug-24 09:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Volatile Organic Compounds by EPA 624.1										
Dichlorodifluoromethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Chloromethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Vinyl Chloride	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Bromomethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Chloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Trichlorofluoromethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Acetone	<10.0	10.0	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Acrolein	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1-Dichloroethene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Carbon Disulfide	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Acetonitrile	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Methylene Chloride	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Acrylonitrile	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
MTBE (Methyl tert-butyl ether)	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
trans-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1-Dichloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Vinyl Acetate	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
2,2-Dichloropropane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
cis-1,2-Dichloroethene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Bromochloromethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Chloroform	**22.3**	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
2-Butanone	<10.0	10.0	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2-Dichloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1,1-Trichloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Tetrahydrofuran	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Carbon Tetrachloride	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1-Dichloropropene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Benzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Trichloroethene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2-Dichloropropane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia, Administrator

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Urban Engineering
Project: Urban Engineering - City of Cuero Permit Renewal
Work Order: 24H0968

Reported:
05-Sep-24 16:06

Effluent

24H0968-01 (Water) Sampled: 07-Aug-24 09:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Volatile Organic Compounds by EPA 624.1										
2-Pentanone	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Dibromomethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Bromodichloromethane	**8.41**	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
2-Chloroethyl vinyl ether	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
cis-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
trans-1,3-Dichloropropene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1,2-Trichloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Dibromochloromethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2-Dibromoethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
4-Methyl-2-Pentanone	<10.0	10.0	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Toluene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Tetrachloroethene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,3-Dichloropropane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
2-Hexanone	<10.0	10.0	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Chlorobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1,1,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Ethylbenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
m,p-Xylene	<10.0	10.0	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
o-Xylene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Styrene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Bromoform	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Isopropylbenzene (Cumene)	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,1,2,2-Tetrachloroethane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2,3-Trichloropropane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Bromobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Propylbenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
2-Chlorotoluene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,3,5-Trimethylbenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
4-Chlorotoluene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
tert-butyl Benzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	

Envirodyne Laboratories, Inc.

Laura Bonjonia, Administrator

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.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Urban Engineering
Project: Urban Engineering - City of Cuero Permit Renewal
Work Order: 24H0968

Reported:
05-Sep-24 16:06

Effluent

24H0968-01 (Water) Sampled: 07-Aug-24 09:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Volatile Organic Compounds by EPA 624.1										
1,2,4-Trimethylbenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
sec-butyl Benzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
p-Isopropyltoluene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,3-Dichlorobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,4-Dichlorobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Benzyl Chloride	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
n-butyl Benzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2-Dichlorobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2-Dibromo-3-chloropropane	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2,4-Trichlorobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Hexachlorobutadiene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Naphthalene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
1,2,3-Trichlorobenzene	<2.50	2.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Total Trihalomethanes	**30.7**	10.0	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Total Xylenes	<7.50	7.50	ug/L	1	B4I3494	14-Aug-24	14-Aug-24 00:00	EPA 624.1	SUB	
Surrogate: Dibromofluoromethane			*70-130*		*B4I3494*	*14-Aug-24*	*14-Aug-24 00:00*	*EPA 624.1*	SUB	
Surrogate: 1,2-Dichloroethane-d4			*70-130*		*B4I3494*	*14-Aug-24*	*14-Aug-24 00:00*	*EPA 624.1*	SUB	
Surrogate: Toluene-d8			*70-130*		*B4I3494*	*14-Aug-24*	*14-Aug-24 00:00*	*EPA 624.1*	SUB	
Surrogate: 4-Bromofluorobenzene			*70-130*		*B4I3494*	*14-Aug-24*	*14-Aug-24 00:00*	*EPA 624.1*	SUB	
Field Analysis										
Chlorine Residual, Total	**1.04**	0.01	mg/L	1	B4H4010	07-Aug-24	07-Aug-24 07:26	SM 4500-Cl G	CLT	a
Dissolved Oxygen (DO)	**6.90**		mg/L	1	B4H4010	07-Aug-24	07-Aug-24 07:26	SM4500-O C	CLT	a
pH	**7.60**		SU	1	B4H4010	07-Aug-24	07-Aug-24 07:26	SM4500H+ B	CLT	a

Envirodyne Laboratories, Inc.

Laura Bonjonia, Administrator

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11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Urban Engineering
Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

Effluent

24H0968-01 (Water) Sampled: 07-Aug-24 09:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Microbiology										
E.coli	<1	1	MPN/100 mL	1	B4H4365	08-Aug-24	08-Aug-24 16:39	SM9223 B	LN	H
Enterococci	**3**	1	MPN/100 mL	1	B4H4325	08-Aug-24	08-Aug-24 16:39	Enterolert	LN	H
Wet Chemistry										
Alkalinity (Total) as CaCO3	**330**	20.0	mg/L	1	B4H4400	14-Aug-24	14-Aug-24 08:30	EPA 310.2	SSJ	
Ammonia-N (NH3-N)	**0.50**	0.20	mg/L	1	B4H5190	20-Aug-24	20-Aug-24 10:55	EPA 350.1	SSJ	
BOD-5	**3.6**	2.0	mg/L	1	B4H4580	07-Aug-24	07-Aug-24 17:30	SM5210 B	AGT	I
CBOD-5	**3.3**	2.0	mg/L	1	B4H4707	08-Aug-24	08-Aug-24 18:14	SM5210 B	MS2	
Chloride	**200**	12.0	mg/L	4	B4H4817	19-Aug-24	19-Aug-24 12:00	SM4500 Cl-B	BRC	
Conductivity at 25 C	**1310**	30	umho/cm	1	B4H5646	26-Aug-24	26-Aug-24 13:10	SM2510 B	BRC	
Cyanide, Amenable	<0.005	0.005	mg/L	1	B4I3412	21-Aug-24	21-Aug-24 00:00	EPA 335.4	SUB	L
Fluoride	**0.87**	0.10	mg/L	1	B4H4532	15-Aug-24	15-Aug-24 12:09	SM 4500-F C	SKP	
Nitrate-N	**5.60**	1.00	mg/L	2	B4H4251	09-Aug-24	09-Aug-24 08:15	EPA 353.1	SSJ	
Oil & Grease	<5.0	5.0	mg/L	1	B4H5679	27-Aug-24	27-Aug-24 15:58	EPA 1664 A	MLM	
Phosphorus, Total	**2.11**	0.10	mg/L	1	B4I3158	03-Sep-24	03-Sep-24 11:18	SM4500-P E	BRC	
Sulfate	**56.6**	10.0	mg/L	5	B4H3991	09-Aug-24	09-Aug-24 09:05	EPA 375.4	SSJ	
TDS	**820**	50.0	mg/L	1	B4H4380	12-Aug-24	12-Aug-24 10:15	SM2540 C	SAS	
TKN-N	**2.03**	0.50	mg/L	1	B4H4762	23-Aug-24	23-Aug-24 00:00	SM 4500-NH3 D	SUB	L
TSS	**4.8**	2.0	mg/L	1	B4H4185	12-Aug-24	12-Aug-24 11:06	SM2540 D	JH	
Metals										
Chromium, Hexavalent	<1.0	1.0	ug/L	1	B4H4032	09-Aug-24	09-Aug-24 08:45	SM 3500-Cr B	SSJ	H
Mercury by EPA 245.1										
Mercury	<0.20	0.20	ug/L	1	B4I3413	20-Aug-24	20-Aug-24 22:46	EPA 245.1	SUB	L

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Reported:
05-Sep-24 16:06

Effluent

24H0968-01 (Water) Sampled: 07-Aug-24 09:16

Envirodyne Laboratories, Inc.

Total Metals by ICP-MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Aluminum	**39.9**	2.0	ug/L	1	B4H4483	13-Aug-24	14-Aug-24 16:21	EPA 200.8	JMM	
Antimony	<0.5	0.5	ug/L	1	B4H4483	13-Aug-24	14-Aug-24 16:21	EPA 200.8	JMM	
Arsenic	**1.4**	0.5	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Barium	**76.9**	2.0	ug/L	1	B4H4483	13-Aug-24	14-Aug-24 16:21	EPA 200.8	JMM	
Beryllium	<0.5	0.5	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Cadmium	**3.7**	0.50	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Chromium	<2.0	2.0	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Copper	**3.0**	0.5	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	B
Lead	<0.5	0.5	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Nickel	**1.2**	0.5	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Selenium	<2.0	2.0	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Silver	<0.5	0.5	ug/L	1	B4H4483	13-Aug-24	14-Aug-24 19:54	EPA 200.8	JMM	
Thallium	<0.5	0.5	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	
Zinc	**16.5**	2.0	ug/L	1	B4H4483	13-Aug-24	15-Aug-24 17:44	EPA 200.8	JMM	B

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia, Administrator

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CERTIFICATE OF ANALYSIS

CLIENT: **CITY OF CUERO PERMIT RENEWAL** (Urban Engineering)

LAB NUMBER: 24H0968-01

DATE COLLECTED: 07-Aug-24

DATE RECEIVED: 08-Aug-24

DATE COMPLETED: 19-Aug-24

SAMPLED BY: GS

LOCATION: **EFFLUENT**

PARAMETERS:

BASE/ NEUTRALS

ACENAPHTHENE (ug/l)	10.0 U	ISOPHORONE (ug/l)	10.0 U
ACENAPHTHYLENE (ug/l)	10.0 U	NAPHTHALENE (ug/l)	10.0 U
ANTHRACENE (ug/l)	10.0 U	NITROBENZENE (ug/l)	10.0 U
BENZIDINE (ug/l)	50.0 U	N-NITROSO-di-n-PROPYLAMINE (ug/l)	20.0 U
BENZO (a) ANTHRACENE (ug/l)	5.0 U	N-NITROSODIPHENYLAMINE (ug/l)	20.0 U
BENZO (a) PYRENE (ug/l)	5.0 U	N-NITROSODIMETHYLAMINE (ug/l)	50.0 U
BENZO (B) FLUORANTHENE (ug/l)	10.0 U	PHENANTHRENE (ug/l)	10.0 U
BENZO (GHI) PERYLENE (ug/l)	20.0 U	PYRENE (ug/l)	10.0 U
BENZO (k) FLUORANTHENE (ug/l)	5.0 U	1,2,4-TRICHLOROBENZENE (ug/l)	10.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l)	10.0 U	1,2,4,5-TETRACHLOROBENZENE (ug/l	20.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l)	10.0 U	2, 4-DINITROTOLUENE (ug/l)	10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l)	10.0 U	2, 6-DINTROTOLUENE (ug/l)	10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l)	10.0 U	2-METHYLNAPHTHALENE (ug/l)	10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l)	10.0 U	Di-n-octyl PHTHALATE (ug/l)	10.0 U
BUTYL BENZYL PHTHALATE (ug/l)	10.0 U	PYRIDINE (ug/l)	20.0 U
2-CHLORONAPHTHALENE (ug/l)	10.0 U	p-CRESOL (ug/l)	10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l)	10.0 U		
CHRYSENE (ug/l)	5.0 U	ACID COMPOUNDS	
DIBENZO (a,h) ANTHRACENE (ug/l)	5.0 U	EFFLUENT (Cont.)	
1,2-DICHLOROBENZENE (ug/l)	10.0 U		
1,3-DICHLOROBENZENE (ug/l)	10.0 U	2-CHLOROPHENOL (ug/l)	10.0 U
(p)1,4-DICHLOROBENZENE (ug/l)	10.0 U	2,4-DICHLOROPHENOL (ug/l)	10.0 U
3,3-DICHLOROBENZIDINE (ug/l)	5.0 U	2,4-DIMETHYLPHENOL (ug/l)	10.0 U
DIETHYL PHTHALATE (ug/l)	10.0 U	4, 6-DINITRO-o-CRESOL (ug/l)	50.0 U
DIMETHYL PHTHALATE (ug/l)	10.0 U	4,6-DINITRO-2-METHYLPHENOL (ug/l)	20.0 U
DI-N-BUTYL PHTHALATE (ug/l)	10.0 U	2,4-DINITROPHENOL (ug/l)	50.0 U
DIBENZOFURAN (ug/l)	10.0 U	2-NITROPHENOL (ug/l)	20.0 U
FLUORANTHENE (ug/l)	10.0 U	4-NITROPHENOL (ug/l)	50.0 U
FLUORENE (ug/l)	10.0 U	p-CHLORO-m-CRESOL (ug/l)	10.0 U
HEXACHLOROBENZENE (ug/l)	5.0 U	2-METHYLPHENOL (ug/l)	10.0 U
HEXACHLOROBUTADIENE (ug/l)	10.0 U	PENTACHLOROPHENOL (ug/l)	5.0 U
HEXACHLOROETHANE (ug/l)	20.0 U	PHENOL (ug/l)	10.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l)	10.0 U	2,4,6-TRICHLOROPHENOL (ug/l)	10.0 U
HEXACHLOROPHENE (ug/l)	10.0 U	2,4,5-TRICHLOROPHENOL (ug/l)	50.0 U
IDENO (1,2,3,cd) PYRENE (ug/l)	5.0 U	PENTACHLOROBENZENE (ug/l)	20.0 U
1,2-Diphenyl Hydrazine (ug/l)	20.0 U	4-CHLORO-3-METHYL PHENOL (ug/l)	10.0 U
N-NITROSO-di-n-BUTYLAMINE (ug/l)	20.0 U	NONYLPHENOL (ug/l)	5.0 U
N-NITROSO-DI-ETHYLAMINE (ug/l)	20.0 U		

Laura Bynum
LAB REPRESENTATIVE

Ref. EPA-625.1 (Base/Neutrals & Acids)
U - Analyte Not Detected at the listed Detection Limit
J - Analyte Present but below Detection Limit

CERTIFICATE OF ANALYSIS

CLIENT: **CITY OF CUERO PERMIT RENEWAL** (Urban Engineering)
LAB NUMBER: 24H0968-01
DATE COLLECTED: 07-Aug-24
DATE RECEIVED: 08-Aug-24
DATE COMPLETED 19-Aug-24
SAMPLED BY: GS

SAMPLE TYPE:
LOCATION: EFFLUENT EFFLUENT

PARAMETERS: PESTICIDES-PCB PESTICIDES-PCB

EPA 1657*

Guthion (Azinphos Methyl) (ug/l)	< 0.10
Chlorpyrifos (ug/l)	< 0.05
Demeton -O (ug/l)	< 0.20
Demeton -S (ug/l)	< 0.20
Diazinon (ug/l)	< 0.5
Disulfoton (ug/l)	< 0.5
EPN (ug/l)	< 0.5
Ethion (ug/l)	< 0.5
Ethyl Parathion (ug/l)	< 0.1
Malathion (ug/l)	< 0.10
Methyl Parathion (ug/l)	< 0.1
Parathion (ug/l)	< 0.10

EPA 608*

Aldrin (ug/l)	< 0.01
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05
Beta - BHC (ug/l)	< 0.05

EPA 608*

Chlordane (ug/l)	< 0.15
4-4' - DDD (ug/l)	< 0.10
4-4' - DDE (ug/l)	< 0.10
4-4' - DDT (ug/l)	< 0.02
Dieldrin (ug/l)	< 0.02
Dicofol (ug/l)	< 1.0
Endosulfan I (ug/l)	< 0.01
Endosulfan II (ug/l)	< 0.02
Endosulfan Sulfate (ug/l)	< 0.10
Endrin (ug/l)	< 0.02
Gamma-BHC (Lindane) (ug/l)	< 0.05
Heptachlor (ug/l)	< 0.01
Heptaclor Epoxide (ug/l)	< 0.01
Methoxychlor (ug/l)	< 0.20
Mirex (ug/l)	< 0.02
Total PCBs (ug/l)	< 0.2
PCB-1016 (ug/l)	< 0.2
PCB-1221 (ug/l)	< 0.2
PCB-1232 (ug/l)	< 0.2
PCB-1242 (ug/l)	< 0.2
PCB-1248 (ug/l)	< 0.2
PCB-1254 (ug/l)	< 0.2
PCB-1260 (ug/l)	< 0.2
Toxaphene (ug/l)	< 0.3
Endrin Aldehyde (ug/l)	< 0.10
Delta - BHC (ug/l)	< 0.05

EPA 632*

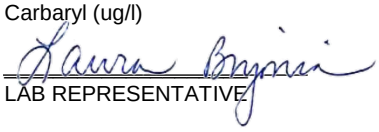
Diuron (ug/l)	<0.09

EPA 8151*

2,4-D (ug/l)	< 0.7
2,4,5-TP (Silvex) (ug/l)	< 0.3

EPA 625*

Carbaryl (ug/l)	< 5.0



LAB REPRESENTATIVE

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Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

Microbiology - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4325 - Microbiology										
Blank (B4H4325-BLK1)				Prepared & Analyzed: 08-Aug-24						
Enterococci	<1	1	MPN/100 mL							
Duplicate (B4H4325-DUP1)		**Source: 24H0980-01**		Prepared & Analyzed: 08-Aug-24						
Enterococci	<10	10	MPN/100 mL		<10			0	0.5366	
Batch B4H4365 - Microbiology										
Blank (B4H4365-BLK1)				Prepared & Analyzed: 08-Aug-24						
E.coli	<1	1	MPN/100 mL							
Duplicate (B4H4365-DUP1)		**Source: 24H0352-02**		Prepared & Analyzed: 08-Aug-24						
E.coli	2.00	2	MPN/100 mL		4.00			.3010	0.402	

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Work Order:	24H0968

Reported:
05-Sep-24 16:06

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H3991 - Inorganics										
Blank (B4H3991-BLK1)				Prepared & Analyzed: 09-Aug-24						
Sulfate	<2.00	2.00	mg/L							
LCS (B4H3991-BS1)				Prepared & Analyzed: 09-Aug-24						
Sulfate	19.9		mg/L	20.0		99.4	90-110			
Matrix Spike (B4H3991-MS1)	**Source: 24H0986-01**			Prepared & Analyzed: 09-Aug-24						
Sulfate	92.1	10.0	mg/L	20.0	72.9	95.9	80-120			
Matrix Spike Dup (B4H3991-MSD1)	**Source: 24H0986-01**			Prepared & Analyzed: 09-Aug-24						
Sulfate	91.1	10.0	mg/L	20.0	72.9	90.6	80-120	1.16	20	
Batch B4H4185 - Inorganics										
Blank (B4H4185-BLK1)				Prepared & Analyzed: 12-Aug-24						
TSS	<2.0	2.0	mg/L							
LCS (B4H4185-BS1)				Prepared & Analyzed: 12-Aug-24						
TSS	118		mg/L	100		118	80-120			
Duplicate (B4H4185-DUP1)	**Source: 24H0239-01**			Prepared & Analyzed: 12-Aug-24						
TSS	3.0	2.0	mg/L		3.5			15.4	20	
Batch B4H4251 - Inorganics										
Blank (B4H4251-BLK1)				Prepared & Analyzed: 09-Aug-24						
Nitrate-N	<0.50	0.50	mg/L							

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Reported:
05-Sep-24 16:06

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4251 - Inorganics										
LCS (B4H4251-BS1)				Prepared & Analyzed: 09-Aug-24						
Nitrate-N	3.09		mg/L	3.00		103	90-110			
Matrix Spike (B4H4251-MS1)		**Source: 24H0738-01**		Prepared & Analyzed: 09-Aug-24						
Nitrate-N	73.8	10.0	mg/L	60.0	15.4	97.3	80-120			
Matrix Spike Dup (B4H4251-MSD1)		**Source: 24H0738-01**		Prepared & Analyzed: 09-Aug-24						
Nitrate-N	72.8	10.0	mg/L	60.0	15.4	95.7	80-120	1.36	20	
Batch B4H4380 - Inorganics										
Blank (B4H4380-BLK1)				Prepared & Analyzed: 12-Aug-24						
TDS	<50.0	50.0	mg/L							
LCS (B4H4380-BS1)				Prepared & Analyzed: 12-Aug-24						
TDS	598		mg/L	500		120	0-200			
Duplicate (B4H4380-DUP1)		**Source: 24H0280-02**		Prepared & Analyzed: 12-Aug-24						
TDS	574	50.0	mg/L		590			2.75	20	
Batch B4H4400 - Inorganics										
Blank (B4H4400-BLK1)				Prepared & Analyzed: 14-Aug-24						
Alkalinity (Total) as CaCO3	<20.0	20.0	mg/L							
LCS (B4H4400-BS1)				Prepared & Analyzed: 14-Aug-24						
Alkalinity (Total) as CaCO3	101		mg/L	100		101	90-110			

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Work Order:	24H0968

Reported:
05-Sep-24 16:06

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4400 - Inorganics										
Duplicate (B4H4400-DUP1)		**Source: 24H0085-01**		Prepared & Analyzed: 14-Aug-24						
Alkalinity (Total) as CaCO3	102	20.0	mg/L		103			0.694	20	
Batch B4H4532 - Inorganics										
Blank (B4H4532-BLK1)				Prepared & Analyzed: 15-Aug-24						
Fluoride	<0.10	0.10	mg/L							
LCS (B4H4532-BS1)				Prepared & Analyzed: 15-Aug-24						
Fluoride	0.49		mg/L	0.500		98.0	90-110			
Matrix Spike (B4H4532-MS1)		**Source: 24H0787-01**		Prepared & Analyzed: 15-Aug-24						
Fluoride	1.28	0.20	mg/L	1.00	0.25	103	80-120			
Matrix Spike Dup (B4H4532-MSD1)		**Source: 24H0787-01**		Prepared & Analyzed: 15-Aug-24						
Fluoride	1.33	0.20	mg/L	1.00	0.25	108	80-120	3.98	20	
Batch B4H4580 - Inorganics										
Blank (B4H4580-BLK1)				Prepared & Analyzed: 07-Aug-24						
BOD-5	<2.0	2.0	mg/L							
LCS (B4H4580-BS1)				Prepared & Analyzed: 07-Aug-24						
BOD-5	224		mg/L	198		113	84.6-115.4			
Duplicate (B4H4580-DUP1)		**Source: 24H0838-01**		Prepared & Analyzed: 07-Aug-24						
BOD-5	3.80	2.0	mg/L		4.00			5.13	20	I

Envirodyne Laboratories, Inc.

Laura Bonjonia, Administrator

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client: Urban Engineering
Project: Urban Engineering - City of Cuero Permit Renewal
Work Order: 24H0968

Reported:
05-Sep-24 16:06

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4707 - Inorganics										
Blank (B4H4707-BLK1)				Prepared & Analyzed: 08-Aug-24						
CBOD-5	<2.0	2.0	mg/L							
LCS (B4H4707-BS1)				Prepared & Analyzed: 08-Aug-24						
CBOD-5	215		mg/L	198		109	84.6-115.4			
Duplicate (B4H4707-DUP1)		**Source: 24H0261-01**		Prepared & Analyzed: 08-Aug-24						
CBOD-5	6.50	2.0	mg/L		6.10			6.35	20	
Batch B4H4817 - Inorganics										
Blank (B4H4817-BLK1)				Prepared & Analyzed: 19-Aug-24						
Chloride	<3.0	3.0	mg/L							
LCS (B4H4817-BS1)				Prepared & Analyzed: 19-Aug-24						
Chloride	100		mg/L	100		100	90-110			
Matrix Spike (B4H4817-MS1)		**Source: 24H1235-01**		Prepared & Analyzed: 19-Aug-24						
Chloride	82.0	6.0	mg/L	20.0	63.0	95.0	80-120			
Matrix Spike Dup (B4H4817-MSD1)		**Source: 24H1235-01**		Prepared & Analyzed: 19-Aug-24						
Chloride	84.0	6.0	mg/L	20.0	63.0	105	80-120	2.41	20	
Batch B4H5190 - Inorganics										
Blank (B4H5190-BLK1)				Prepared & Analyzed: 20-Aug-24						
Ammonia-N (NH3-N)	<0.20	0.20	mg/L							

Envirodyne Laboratories, Inc.

Laura Bonjonia, Administrator

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Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H5190 - Inorganics										
LCS (B4H5190-BS1)				Prepared & Analyzed: 20-Aug-24						
Ammonia-N (NH3-N)	1.06		mg/L	1.00		106	90-110			
Matrix Spike (B4H5190-MS1)		**Source: 24H1547-01**		Prepared & Analyzed: 20-Aug-24						
Ammonia-N (NH3-N)	1.11	0.20	mg/L	1.00	ND	111	90-110			
Matrix Spike Dup (B4H5190-MSD1)		**Source: 24H1547-01**		Prepared & Analyzed: 20-Aug-24						
Ammonia-N (NH3-N)	1.11	0.20	mg/L	1.00	ND	111	90-110	0.00	20	
Batch B4H5646 - Inorganics										
Blank (B4H5646-BLK1)				Prepared & Analyzed: 26-Aug-24						
Conductivity at 25 C	<30	30	umho/cm							
Duplicate (B4H5646-DUP1)		**Source: 24H0968-01**		Prepared & Analyzed: 26-Aug-24						
Conductivity at 25 C	1350	30	umho/cm		1310			2.41	20	
Reference (B4H5646-SRM1)				Prepared & Analyzed: 26-Aug-24						
Conductivity at 25 C	179		umho/cm	180		99.5	90-110			
Batch B4H5679 - Inorganics										
Blank (B4H5679-BLK1)				Prepared & Analyzed: 27-Aug-24						
Oil & Grease	7.30	5.0	mg/L							Q
LCS (B4H5679-BS1)				Prepared & Analyzed: 27-Aug-24						
Oil & Grease	3.60		mg/L	40.0		9.00	78-114			Q

Envirodyne Laboratories, Inc.

Laura Bonjonia, Administrator

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Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H5679 - Inorganics										
LCS Dup (B4H5679-BSD1)				Prepared & Analyzed: 27-Aug-24						
Oil & Grease	4.80		mg/L	40.0		12.0	78-114	28.6	18	Q
Batch B4I3158 - Inorganics										
Blank (B4I3158-BLK1)				Prepared & Analyzed: 03-Sep-24						
Phosphorus, Total	<0.10	0.10	mg/L							
LCS (B4I3158-BS1)				Prepared & Analyzed: 03-Sep-24						
Phosphorus, Total	1.00		mg/L	1.00		100	80-120			
Matrix Spike (B4I3158-MS1)		**Source: 24H2325-01**		Prepared & Analyzed: 03-Sep-24						
Phosphorus, Total	2.79	0.10	mg/L	1.00	1.80	99.0	80-120			
Matrix Spike Dup (B4I3158-MSD1)		**Source: 24H2325-01**		Prepared & Analyzed: 03-Sep-24						
Phosphorus, Total	2.82	0.10	mg/L	1.00	1.80	102	80-120	1.07	20	

Envirodyne Laboratories, Inc.

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Laura Bonjonia, Administrator

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Client:	Urban Engineering
Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

Metals - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4032 - Inorganics										
Blank (B4H4032-BLK1)				Prepared & Analyzed: 09-Aug-24						
Chromium, Hexavalent	<1.0	1.0	ug/L							
LCS (B4H4032-BS1)				Prepared & Analyzed: 09-Aug-24						
Chromium, Hexavalent	50.0		ug/L	50.0		100	95-105			
Matrix Spike (B4H4032-MS1)	**Source: 24H0968-01**			Prepared & Analyzed: 09-Aug-24						
Chromium, Hexavalent	49.0	1.0	ug/L	50.0	ND	98.0	80-120			
Matrix Spike Dup (B4H4032-MSD1)	**Source: 24H0968-01**			Prepared & Analyzed: 09-Aug-24						
Chromium, Hexavalent	48.4	1.0	ug/L	50.0	ND	96.8	80-120	1.23	20	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia, Administrator

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Client:	Urban Engineering
Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
05-Sep-24 16:06

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4483 - Metals - EPA 200.2										
Blank (B4H4483-BLK1)				Prepared: 13-Aug-24 Analyzed: 15-Aug-24						
Beryllium	<0.5	0.5	ug/L							
Arsenic	<0.5	0.5	"							
Cadmium	<0.50	0.50	"							
Thallium	<0.5	0.5	"							
Lead	<0.5	0.5	"							
Chromium	<2.0	2.0	"							
Copper	0.657	0.5	"							B
Barium	<2.0	2.0	"							
Silver	<0.5	0.5	"							
Nickel	<0.5	0.5	"							
Zinc	6.59	2.0	"							B
Selenium	<2.0	2.0	"							
Antimony	<0.5	0.5	"							
Aluminum	<2.0	2.0	"							
LCS (B4H4483-BS1)				Prepared: 13-Aug-24 Analyzed: 15-Aug-24						
Arsenic	78.9		ug/L	75.0		105	85-115			
Copper	79.1		"	75.0		105	85-115			B
Thallium	78.0		"	75.0		104	85-115			
Silver	65		"	75.0		86.2	85-115			
Nickel	79.4		"	75.0		106	85-115			
Lead	78		"	75.0		104	85-115			
Barium	69.6		"	75.0		92.8	85-115			
Chromium	81.0		"	75.0		108	85-115			
Cadmium	79		"	75.0		106	85-115			
Beryllium	80.2		"	75.0		107	85-115			
Zinc	85.9		"	75.0		115	85-115			B
Selenium	79.6		"	75.0		106	85-115			
Antimony	68.7		"	75.0		91.5	85-115			
Aluminum	66.8		"	75.0		89.1	85-115			

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Client: Urban Engineering
Project: Urban Engineering - City of Cuero Permit Renewal
Work Order: 24H0968

Reported:
05-Sep-24 16:06

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H4483 - Metals - EPA 200.2										
Matrix Spike (B4H4483-MS1)	**Source: 24H0985-01**			Prepared: 13-Aug-24 Analyzed: 14-Aug-24						
Barium	275	2.0	ug/L	100	160	115	70-130			
Thallium	95.0	0.5	"	100	ND	95.0	70-130			
Silver	83	0.5	"	100	0.63	81.9	70-130			
Arsenic	99.7	0.5	"	100	1.96	97.8	70-130			
Nickel	101	0.5	"	100	1.04	99.9	70-130			
Lead	96	0.5	"	100	0.12	96.4	70-130			
Copper	99.8	0.5	"	100	3.32	96.5	70-130			B
Beryllium	97.9	0.5	"	100	ND	97.9	70-130			
Cadmium	98	0.50	"	100	ND	97.5	70-130			
Chromium	98.7	2.0	"	100	ND	98.7	70-130			
Zinc	99.9	2.0	"	100	2.70	97.2	70-130			B
Selenium	94.5	2.0	"	100	ND	94.5	70-130			
Antimony	106	0.5	"	100	ND	106	70-130			
Aluminum	102	2.0	"	100	2.18	100	70-130			
Matrix Spike Dup (B4H4483-MSD1)	**Source: 24H0985-01**			Prepared: 13-Aug-24 Analyzed: 15-Aug-24						
Beryllium	96.5	0.5	ug/L	100	ND	96.5	70-130	1.39	20	
Thallium	95.3	0.5	"	100	ND	95.3	70-130	0.239	20	
Arsenic	99.7	0.5	"	100	1.96	97.8	70-130	0.0105	20	
Silver	81	0.5	"	100	0.63	80.1	70-130	2.21	20	
Nickel	100	0.5	"	100	1.04	99.0	70-130	0.939	20	
Barium	268	2.0	"	100	160	107	70-130	2.64	20	
Copper	99.6	0.5	"	100	3.32	96.3	70-130	0.157	20	B
Chromium	97.7	2.0	"	100	ND	97.7	70-130	1.04	20	
Lead	95	0.5	"	100	0.12	95.2	70-130	1.25	20	
Cadmium	97	0.50	"	100	ND	97.1	70-130	0.423	20	
Zinc	98.7	2.0	"	100	2.70	96.0	70-130	1.24	20	B
Selenium	93.5	2.0	"	100	ND	93.5	70-130	0.978	20	
Antimony	97.6	0.5	"	100	ND	97.6	70-130	7.78	20	
Aluminum	91.6	2.0	"	100	2.18	89.4	70-130	11.2	20	

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Client:	Urban Engineering
Project:	Urban Engineering - City of Cuero Permit Renewal
Work Order:	24H0968

Reported:
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Notes and Definitions

Q	QC did not meet ELI acceptance criteria
L	Analyzed by third party laboratory
I	Greater than 30% difference between highest and lowest values
H	Hold time exceeded
B	Target detected in method blank
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia, Administrator

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Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568

TCEQ Certification # T104704265

24H0968

Analysis Request and Chain of Custody Record

Name: Urban Engineering
Address: 2725 Swantner Dr.,
City: Corpus Christi, TX 78404
Contact: Brian Wik, P.E. Phone: 361.339.2085 Email: BWik@urbaneng.com

Project No. Client/Project: Permit Renewal (Cuero, TX)

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Effluent	8-7-24 0726			NA	Liquid	NA	pH,DO,Cl2 residual (Test before 9AM)	7.6	6.9	Cl2 1.04	DE #2 .03
	Effluent	8-7-24 0916			1 gal cubie	Liquid	Ice	CBOD,BOD,TSS,TDS,SO4,Cl,Cond,Cr+6,Cr-T,F,ALK				
	Effluent	8-7-24 0919			500 mL P	Liquid	Ice, H2SO4	NH3-N, TKN-N, T. PO4,NO3-N				
	Effluent	8-7-24 0919			(2) 120 Idexx	Liquid	Ice, Sod Thio	Ecoli, Enterococci				
	Effluent	8-7-24 0919			500 ml P	Liquid	HNO3	Sb,As,Be,Cd,Cr,Cu,Pb,Hg,Ni,Se,Ag,Tl,Zn,Al,Ba				
	Effluent	8-7-24 0922			1 L G	Liquid	Ice, HCl	Oil & Grease				
	Effluent	8-7-24 0934			(4) 40ml VOA	Liquid	Ice	VOC (624)				
	Effluent	8-7-24 0930			250 ml P	Liquid	Ice, NaOH	Cyanide, Amenable			Temp 4.1C	
	Effluent	8-7-24 0930			1 L Amber	Liquid	Ice, H2SO4	Phenol (Coolers Red)			4.0	
	Effluent	8-7-24 0930			(3) 1 L Amber	Liquid	Ice	BNA, Pesticides, PCBs			IR#34 CF0.0	

Samplers: (Signature) Gary Shad	Relinquished by: (Signature) Gary Shad	Date: 8-7-24 Time: 1005	Received by: (Signature) SM	Date: 08/08/24 Time: 10:25 Seal Intact?
	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
Affiliation W/W PLANT MANAGER	Relinquished by: (Signature) From ALS Driver	Date: 8/8/24 Time: 1620	Received by Lab: (Signature)	Date: 8/8/24 Time: 1620 Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Mn Correction: Cl2 Corrected	Arrival Temp. 3.9/3.7 IR#4	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.

Francesca Findlay

From: Brian Wik, PE <BWik@dccm.com>
Sent: Monday, September 30, 2024 5:25 PM
To: Francesca Findlay
Cc: Wayne Berger; Mark A. Maroney PE
Subject: RE: WQ0010403002 City of Cuero
Attachments: wq0010403002-nod1.pdf

Subject: WQ0010403002 City of Cuero

Good Afternoon Francesca,
In response to the below email, the City of Cuero and Urban DCCM has reviewed the information in the attached letter and we have three comments as noted below.

RE: Application to Renew, for Permit No.: WQ0010403002 (EPA I.D. No. TX0024244)
Applicant Name: City of Cuero (CN600337125)
Site Name: City of Cuero WWTP (RN102076726)
Type of Application: Renewal without changes

VIA EMAIL

Dear Mr. Berger:

We have received the application for the above referenced permit, and it is currently under review. Your attention to the following item(s) are requested before we can declare the application administratively complete. Please submit responses to the following items via email.

1. The fo… the NORI which co… vant to your application. Please… ndicate if it contain… ns. The complete notice wil… be… pplication is dec… mplete.

Item 1: Show C as uppercase in the word City.

Item 2: Show b as lowercase in the word below.

APPLICATION. City of Cuero, P.O. Box 660, Cuero, Texas 77954, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010403002 (EPA I.D. No. TX0024244) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 2,000,000 gallons per day. The domestic wastewater treatment facility is located at approximately 1.5 miles south of the intersection of Stockdale Street and Morgan Avenue, in the city of Cuero, in Dewitt County, Texas 77954. The discharge route is from the plant site to Gohlke Creek; thence to Guadalupe River Below San Marcos River. TCEQ received this application on September 11, 2024. The permit application will be available for viewing and copying at Cuero City Hill, 212 East Main Street, Cuero, in Dewitt 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.

Item 3: Please change spelling from Hill to Hall.

P.O. Box 13087 • … 512-239-1000 • tceq.texas.gov

How is our … xas.gov/customersurvey

printed on recycled paper

Thanks

Brian

Brian Wik, PE
Project Engineer

Urban | DCCM
361-339-2085 p 361-288-0152 c

Please note that our e-mail addresses have changed.

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Tuesday, September 17, 2024 8:38 AM
To: citymanager@cityocuero.com
Cc: Brian Wik, PE <BWik@dccm.com>
Subject: FW: WQ0010403002 City of Cuero

Dear Mr. Berger:

The attached Notice of Deficiency letter sent on September 17, 2024, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention October 1, 2024.

Thank you,

Brian Findlay

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

Please consider whether it is necessary to print this e-mail