

This file contains the following documents:

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

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

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

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

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

DOMESTIC WASTEWATER

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

City of Sundown (CN600741110) operates City of Sundown WWTP (RN101916955). a facultative lagoon treatment system. The facility is located approximately 1 mile northwest of the intersection of FM 301 and FM 303, in Sundown, Hockley County, Texas 79372.

Application is requesting renewal of existing permit to discharge 175,000 gallons per day of treated domestic wastewater. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD. Domestic Wastewater is treated by *a facultative lagoon system*.

INSTRUCTIONS

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

Examples

Example 1: Domestic Wastewater TPDES Renewal application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30

Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

The City of Texas (CN0000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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

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

Example 2: TPDES New Application

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

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

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

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

Example 3: TLAP Renewal application

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may

change during the technical review of the application and are not federal enforceable representations of the permit application.

The City of Texas (CN0000000000) operates the City of Texas wastewater treatment plant (RN00000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0011253001

APPLICATION. City of Sundown, P.O. Box 600, Sundown, Texas 79372, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0011253001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 175,000 gallons per day via surface irrigation of 50 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1 mile northwest of the intersection of Farm-to-Market Road 301 and Farm-to-Market Road 303, near the city of Sundown, in Hockley County, Texas 79372. TCEQ received this application on November 7, 2024. The permit application will be available for viewing and copying at Sundown City Hall, main entrance, 809 South Slaughter Avenue, Sundown, in Hockley County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This 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=-102.494444,33.469444&level=18

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

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

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

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at https://www14.tceq.texas.gov/epic/eComment/, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

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

Further information may also be obtained from City of Sundown at the address stated above or by calling Mr. Billy Hernandez, C.P.M., City Administrator, at 806-229-3131.

Issuance Date: December 9, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

RENEWAL

PERMIT NO. WQ0011253001

APPLICATION AND PRELIMINARY DECISION. City of Sundown, P.O. Box 600, Sundown, Texas 79372, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0011253001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 175,000 gallons per day via surface irrigation of 50 acres of non-public access agricultural land. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on November 7, 2024.

The wastewater treatment facility and disposal site are located approximately one mile northwest of the intersection of Farm-to-Market Road 301 and Farm-to-Market Road 303, in Hockley County, Texas 79372. The wastewater treatment facility and disposal site are located in the drainage basin of Lake J.B. Thomas in Segment No. 1413 of the Colorado River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-102.494444,33.469444&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 Sundown City Hall, main entrance, 809 South Slaughter Avenue, Sundown, in Hockley County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

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

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

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

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

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

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

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

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

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at 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 Sundown at the address stated above or by calling Mr. Billy Hernandez, C.P.M., City Administrator, at 806-229-3131.

Issuance Date: May 20, 2025



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

This is a renewal of Permit No. WQ0011253001 issued on February 28, 2023.

PERMIT TO DISCHARGE WASTES

under provisions of Chapter 26 of the Texas Water Code

City of Sundown

whose mailing address is

P.O. Box 600 Sundown, Texas 79372

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

General Description and Location of Waste Disposal System:

Description: The City of Sundown Wastewater Treatment Facility consists of a pond system. Treatment units include a facultative lagoon with a surface area of 1.95 acres and volume of 14.57 acre-feet. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.175 million gallons per day (MGD) via surface irrigation of 50 acres of non-public access agricultural land. The facility includes one storage pond with a total surface area of 1.55 acres and total capacity of 14.57 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 3.92 acre-feet per year per acre irrigated. The permittee will maintain native grasses on the disposal site.

Location: The wastewater treatment facility and disposal site are located approximately one mile northwest of the intersection of Farm-to-Market Road 301 and Farm-to-Market Road 303, in Hockley County, Texas 79372. See Attachment A.

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Lake J.B. Thomas in Segment No. 1413 of the Colorado River Basin. No discharge of pollutants into water in the state is authorized by this permit.

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

ISSUED DATE:	
	For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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

A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

<u>Volume</u>: Daily Average Flow – 0.175 MGD from the treatment system

<u>Quality</u>: The following effluent limitations are required:

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

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

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

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

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

STANDARD PERMIT CONDITIONS

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

DEFINITIONS

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

1. Flow Measurements

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

2. Concentration Measurements

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

3. Sample Type

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

MONITORING REQUIREMENTS

1. Monitoring Requirements

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

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

2. Test Procedures

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

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

3. Records of Results

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

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

4. Additional Monitoring by Permittee

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

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
 - i. Unauthorized discharges as defined in Permit Condition 2(g).
 - ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.
- 8. In accordance with the procedures described in 30 TAC §§ 35.301 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.
- 9. Changes in Discharges of Toxic Substances
 - All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

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

10. Signatories to Reports

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

PERMIT CONDITIONS

1. General

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

2. Compliance

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

3. Inspections and Entry

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

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

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

4. Permit Amendment and/or Renewal

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

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

5. Permit Transfer

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

6. Relationship to Hazardous Waste Activities

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

7. Property Rights

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

8. Permit Enforceability

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

9. Relationship to Permit Application

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

10. Notice of Bankruptcy.

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

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

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

TCEQ Revision 06/2020

SLUDGE PROVISIONS

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

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

A. General Requirements

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

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested prior to sludge disposal in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 2) 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 2) 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

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

^{*} Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

Alternative 1

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

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

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

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

i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

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

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

Alternative 8 -

The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

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

Alternative 10-

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

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test
PCBs - prior to sludge disposal - prior to sludge disposal

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

Amount of biosolids (*)

metric tons per 365-day period Monitoring Frequency

o to less than 290 Once/Year

290 to less than 1,500 Once/Quarter

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

15,000 or greater Once/Month

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

Monthly Average
Concentration
(milligrams per kilogram)*
41
39
1200
1500
300
17
Report Only
420
36
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 or biosolids enters a wetland or other waters in the State.
- 2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
- 3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
- 4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
 - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
 - b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
 - c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

- 1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
 - a. The location, by street address, and specific latitude and longitude, of each land application site.
 - b. The approximate time period bulk biosolids will be applied to the site.
 - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
- 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 <u>five years</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

- 1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
- 2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
- 3. A description of how the vector attraction reduction requirements are met.
- 4. A description of how the management practices listed above in Section II.C are being met
- 5. The following certification statement:

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

- 6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative <u>indefinitely</u>. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
 - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge or biosolids treatment activities.
 - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
 - c. The number of acres in each site on which bulk sludge or biosolids are applied.
 - d. The date and time sludge or biosolids are applied to each site.
 - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
 - f. The total amount of sludge applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall 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 2) 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 or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
- 12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
- 13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
- 14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
- 15. Vector attraction reduction alternative used as listed in Section I.B.4.

- 16. Amount of sludge or biosolids transported in dry tons/year.
- 17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
- 18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
 - a. The location, by street address, and specific latitude and longitude.
 - b. The number of acres in each site on which bulk biosolids are applied.
 - c. The date and time bulk biosolids are applied to each site.
 - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
 - e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested prior to sludge disposal in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 2) 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 2) and the Enforcement Division (MC 224), by September 30_{th} 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 2) and the Enforcement Division (MC224).

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

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

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

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

A. General Requirements

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

B. Record Keeping Requirements

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

C. Reporting Requirements

The permittee shall 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 2) and the Enforcement Division (MC 224).

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

TCEQ Revision 06/2020

SPECIAL PROVISIONS:

- of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.
- 2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.
 - This Category D facility must be operated by a chief operator or an operator holding a Class D license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.
- 3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
- 4. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, the native grasses and Jose wheatgrass shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
- 5. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
- 6. Application rates to the irrigated land shall not exceed 3.92 acre-feet per year per acre. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.

- 7. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Wastewater Treatment Systems.
- 8. The permittee shall obtain representative soil samples from the root zones of the land application area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 80 acres with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 inches to 18 inches and 18 inches to 30 inches below ground level. The permittee shall sample and analyze soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample procurement.

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

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

The permittee shall provide a copy of this plan to the analytical laboratory prior to sample

analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 2) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division no later than end of September following the sampling date of each year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater and/or sludge has not been applied on the approved land disposal sites during that year.

- 9. The permittee shall maintain a long term contract with the owner(s) of the land application site which is authorized for use in this permit, or own the land authorized for land application of treated effluent.
- 10. For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
- 11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 12. Irrigation with effluent shall be accomplished only when the area specified is not in use.
- 13. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
- 14. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203 **and** 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. New or modified wastewater ponds shall not be put into service until the permittee demonstrates that the pond liners meet the requirements of 30 TAC §217.203 **and** 30 TAC §309.13(d). The permittee shall demonstrate that the number, location, and test results of samples collected for geotechnical testing are in accordance with 30 TAC §217.203(d) and (e), and that the liner has a minimum thickness of 3 feet in accordance with 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. The report providing this demonstration shall be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC-Region 2) for review and approval prior to use of the wastewater ponds. If a synthetic liner is to be used, the liner thickness shall be a minimum of 40 mils and be constructed with an underground leak detection system with appropriate sampling points.

The permittee shall submit the liner certification for a newly constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC-Region 2), and the TCEQ Compliance Monitoring Section (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texaslicensed professional engineer and include a description of how the liner meets the requirements of 30 TAC §217.203 **and** 30 TAC §309.13(d).

15. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the permittee shall inspect the sides

and bottom (if visible) of the wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made, or replacement ponds are constructed.

- 16. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ personnel for inspection and review.
- 17. A wastewater treatment plant unit may not be located in wetlands per 30 TAC §309.13(b).
- 18. The permittee shall comply with the approved Groundwater Monitoring Plan ("Plan") approved on August 13, 2002 and any subsequent modifications approved by the Water Quality Assessment Team.

The permittee may submit, in writing, a request to modify the Plan to the Water Quality Assessment Team (MC-150) for review, possible revisions, and approval. The request must include data and justification supporting the modification, as appropriate. Proposed modifications to the Plan must be prepared by a Texas licensed professional geoscientist or professional engineer qualified in hydrogeology, where required by their respective authorizing acts. Approved Plan modifications must be maintained onsite and made available to TCEQ personnel upon request.

The Executive Director may require modifications to the Plan to ensure protection of groundwater quality.

Groundwater shall be analyzed from each monitoring well according to the schedule below:

Parameter	Units	Sampling Frequency
Water Level	Feet (*)	One/6-months
Total Nitrogen	mg/L	One/6-months
Nitrate-Nitrogen	mg/L	One/6-months
Ammonia-Nitrogen	mg/L	One/6-months
Phosphorous	mg/L	One/6-months
Total Dissolved Solids	mg/L	One/6-months
Fecal Coliform	CFU/100 mL	One/6-months

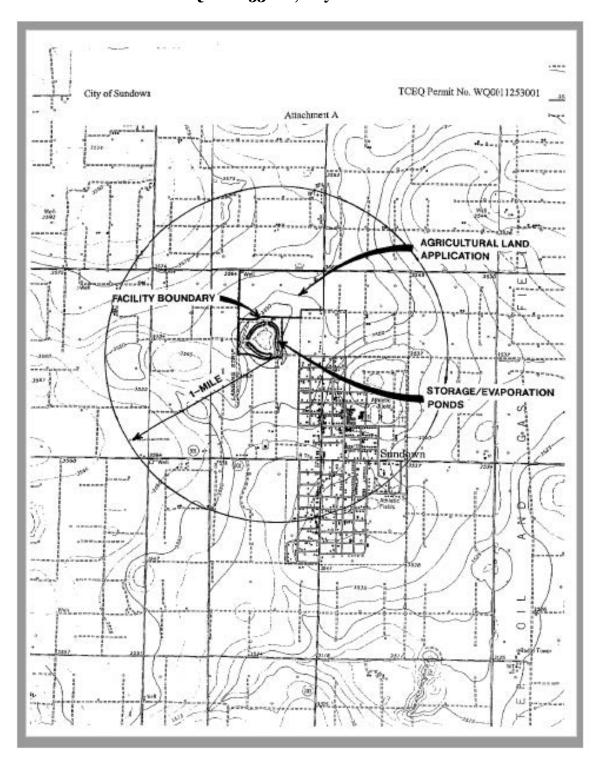
The permittee shall compile the results of the annual groundwater monitoring in a summary letter to be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC Region 2) by September 30th of each year. The annual submission must include laboratory reports.

The Water Quality Assessment Team (MC-150) has not been receiving the compiled results and laboratory reports annually.

19. A summary transmittal letter has been approved for the 0.175 MGD wastewater treatment facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. A summary transmittal approval letter was issued on October 12, 2021 (Log No. 1021/001). A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

- 20. The permittee shall notify the TCEQ Regional Office (MC Region 2) and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to the completion of the Final phase facility on Notification of Completion Form 20007.
- 21. The permittee shall comply with the buffer zone requirements of 30 TAC §309.13(c), specifically regarding water wells. The permittee must locate the wastewater irrigation fields a minimum horizontal distance of 500 feet from public water wells, springs, or other similar sources of public drinking water; and 150 feet from private water wells.
- 22. The permittee shall use cultural practices to promote and maintain the health and propagation of the native grasses and Jose wheatgrass crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.
- 23. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.

Attachment A Site Map WQ0011253001, City of Sundown



TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant: City of Sundown

TCEQ Permit No. WQ0011253001

Regulated Activity: Domestic Wastewater Permit

Type of Application: Renewal

Request: Renewal with no changes

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

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

Commission policies.

EXECUTIVE DIRECTOR RECOMMENDATION

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

REASON FOR PROJECT PROPOSED

City of Sundown has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0011253001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.175 million gallons per day (MGD) via surface irrigation of 50 acres of non-public access agricultural land. The facility includes one storage pond with a total surface area of 1.55 acres and total capacity of 14.57 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the City of Sundown.

PROJECT DESCRIPTION AND LOCATION

The City of Sundown Wastewater Treatment Facility consists of a pond system. Treatment units include a facultative lagoon with a surface area of 1.95 acres and volume of 14.57 acre-feet and a holding pond with a surface area of 1.55 acres and volume of 11.55 acre-feet. The facility is in operation.

The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located approximately 1 mile northwest of the intersection of Farm-to-Market Road 301 and Farm-to-Market Road 303 in Hockley County, Texas 79372.

The wastewater treatment facility and disposal site are located in the drainage basin of Lake J.B. Thomas in Segment No. 1413 of the Colorado River Basin. No discharge of pollutants into water

City of Sundown Permit No. WQ0011253001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period July 2022 through June 2024. The average of Daily Average value is computed by averaging of all 30-day average values for the reporting period for each parameter: flow and five-day biochemical oxygen demand (BOD_5).

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

Flow, MGD 0.068 BOD₅, mg/l 39

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.175 MGD via surface irrigation of 50 acres of non-public access agricultural land. The facility includes one storage pond with a total surface area of 1.55 acres and total capacity of 14.57 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 3.92 acre-feet per year per acre irrigated. The permittee will maintain native grasses on the disposal site.

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

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

SUMMARY OF CHANGES FROM EXISTING PERMIT

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

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.

The Interim phase of the existing permit has been removed since the City of Sundown WWTP is currently operating in the Final phase.

City of Sundown Permit No. WQ0011253001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

Based on the Agronomy Recommendation and the Geology Compliance Review, Special Provision Nos. 4, 6, 10, and 18 in the existing permit were updated in the draft permit, and Special Provision Nos. 21, 22, and 23 were added to the draft permit.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

- 1. Application received on November 7, 2024, and additional information received on December 5, 2024.
- 2. Existing TCEQ permit: Permit No. WQ0011253001 issued on February 28, 2023.
- 3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

PROCEDURES FOR FINAL DECISION

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

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

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

City of Sundown Permit No. WQ0011253001 Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

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 Kimberly Kendall, P.E. at (512) 239-4540.

Date

April 18, 2025 Kimberly Kendall

Kimberly Kendall, P.E. **Municipal Permits Team**

Wastewater Permitting Section (MC 148)

THE TONMENTAL OURS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT	NAME:	City	of Sundown

PERMIT NUMBER (If new, leave blank): WQ00 WQ0011253001

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

	1	1.4		I	IA
Administrative Report 1.0	\boxtimes		Original USGS Map	\boxtimes	
Administrative Report 1.1		\boxtimes	Affected Landowners Map		\boxtimes
SPIF		\boxtimes	Landowner Disk or Labels		\boxtimes
Core Data Form	\boxtimes		Buffer Zone Map		\boxtimes
Public Involvement Plan Form		\boxtimes	Flow Diagram	\boxtimes	
Technical Report 1.0	\boxtimes		Site Drawing		
Technical Report 1.1		\boxtimes	Original Photographs		\boxtimes
Worksheet 2.0		\boxtimes	Design Calculations		\boxtimes
Worksheet 2.1		\boxtimes	Solids Management Plan		\boxtimes
Worksheet 3.0	\boxtimes		Water Balance		\boxtimes
Worksheet 3.1		\boxtimes			
Worksheet 3.2		\boxtimes			
Worksheet 3.3		\boxtimes			
Worksheet 4.0		\boxtimes			
Worksheet 5.0		\boxtimes			
Worksheet 6.0	\boxtimes				
Worksheet 7.0		\boxtimes			

For TCEQ Use Only	
Segment Number	County
Expiration Date	Region
Permit Number	

THE TONMENTAL OURS

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 □

 \boxtimes

Active

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

Voucher Number: 729121

EPAY Voucher Number: 728131

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.	Che	ck the box next to the appropriate facility status.			

Inactive

TCEQ ePay Receipt

- Transaction Information

Trace Number: 582EA000631669 **Date:** 10/29/2024 12:19 PM

Payment Method: CC - Authorization 000004403G

ePay Actor: BILLY HERNANDEZ

TCEQ Amount: \$815.00 **Texas.gov Price::** \$833.59*

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

- Payment Contact Information

Name:BILLY HERNANDEZCompany:CITY OF SUNDOWN

Address: 809 S SLAUGHTER AVE, SUNDOWN, TX 79372 0600

Phone: 806-229-3131

- Cart Items

Voucher 728131	Fee Description WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD -	AR Number	Amount \$800.00
720131	RENEWAL		\$800.00
728132	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		\$15.00
		TCEQ Amount:	\$815.00

TCEQ ePay Voucher Receipt

- Transaction Information

Voucher Number: 728131

Trace Number: 582EA000631669 **Date:** 10/29/2024 12:19 PM

Payment Method: CC - Authorization 000004403G

Voucher Amount: \$800.00

Fee Type: WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - RENEWAL

ePay Actor: BILLY HERNANDEZ

- Payment Contact Information -

Name:BILLY HERNANDEZCompany:CITY OF SUNDOWN

Address: 809 S SLAUGHTER AVE, SUNDOWN, TX 79372 0600

Phone: 806-229-3131

- Site Information -

 Site Name:
 CITY OF SUNDOWN WASTEWATER TREATMENT PLANT

 Site Address:
 809 S SLAUGHTER AVE, SUNDOWN, TX 79372 0600

Site Location: 1 MILE NORTHWEST OF FM 301 AND FM 303 IN HOCKLEY COUNTY TEXAS

Customer Information

Customer Name: CITY OF SUNDOWN

Customer Address: 809 S SLAUGHTER AVE, SUNDOWN, TX 79372

Other Information

Program Area ID: WQ0011253001

TCEQ ePay Voucher Receipt

- Transaction Information -

Voucher Number: 728132

Trace Number: 582EA000631669 **Date:** 10/29/2024 12:19 PM

Payment Method: CC - Authorization 000004403G

Voucher Amount: \$15.00

Fee Type: 30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE

ePay Actor: BILLY HERNANDEZ

- Payment Contact Information -

Name:BILLY HERNANDEZCompany:CITY OF SUNDOWN

Address: 809 S SLAUGHTER AVE, SUNDOWN, TX 79372 0600

Phone: 806-229-3131

c.	Check the box next to the appropriate permit type.					
□ TPDES Permit						
	\boxtimes	TLAP				
		TPDES Permit with TLAP component				
		Subsurface Area Drip Dispersal System (SAD	DS)			
d. Check the box next to the appropriate application type				ee ee		
		New	, 1			
		Major Amendment <i>with</i> Renewal		Minor Amendment with Renewal		
		Major Amendment <i>without</i> Renewal		Minor Amendment <i>without</i> Renewal		
	\boxtimes	Renewal without changes		Minor Modification of permit		
Δ	For	amendments or modifications, describe the p	ronc	osed changes: N/A		
		-	Topo	oscu changes. <u>N/A</u>		
f.	f. For existing permits:					
Permit Number: WQ00 <u>11253001</u>						
	EPA	A I.D. (TPDES only): TX <u>N/A</u>				
	Exp	piration Date: <u>December 1, 2024</u>				
Sc	cti	on 3. Facility Owner (Applicant) a	nd	Co-Applicant Information		
30	.cu	(Instructions Page 26)	шu	Co-Applicant information		
	Tl.					
Α.		e owner of the facility must apply for the per				
		at is the Legal Name of the entity (applicant) a	pply	ing for this permit?		
	<u>City</u>	<u>of Sundown</u>				
	(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)					
		he applicant is currently a customer with the T n may search for your CN on the TCEQ website				
		CN: <u>600741110</u>				
		at is the name and title of the person signing cutive official meeting signatory requirements				

Prefix: Mr. Last Name, First Name: <u>Strickland, Jonathan</u>

Title: Mayor 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: Click to enter text.

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

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

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

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

C. Core Data Form

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

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: Krueger, Paul

Title: <u>Civil Engineer</u> Credential: <u>PE</u>

Organization Name: Parkhill

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

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

Check one or both: extstyle exts

B. Prefix: Mr. Last Name, First Name: Hernandez, Billy

Title: <u>City Administrator</u> Credential: <u>CPM</u>

Organization Name: City of Sundown

Mailing Address: PO Box 600 City, State, Zip Code: Sundown, TX 79372

Phone No.: 806.229.3131 E-mail Address: billy@sundowntx.com

Check one or both: oxdot Administrative Contact oxdot 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: Krueger, Paul

Title: <u>Civil Engineer</u> Credential: <u>PE</u>

Organization Name: Parkhill

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

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

B. Prefix: Mr. Last Name, First Name: Hernandez, Billy

Title: City Administrator Credential: CPM

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

Mailing Address: PO Box 600 City, State, Zip Code: Sundown, TX 79372

Phone No.: 806.229.3131 E-mail Address: billy@sundowntx.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: Hernandez, Billy

Title: <u>City Administrator</u> Credential: <u>CPM</u>

Organization Name: City of Sundown

Mailing Address: PO Box 600 City, State, Zip Code: Sundown, TX 79372

Phone No.: 806.229.3131 E-mail Address: billy@sundowntx.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: Hernandez, Billy

Title: <u>City Administrator</u> Credential: <u>CPM</u>

Organization Name: City of Sundown

Mailing Address: PO Box 600 City, State, Zip Code: Sundown, TX 79372

Phone No.: 806.229.3131 E-mail Address: billy@sundowntx.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

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

Title: <u>Civil Engineer</u> Credential: <u>PE</u>

Organization Name: Parkhill

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

Phone No.: 806.473.3715 E-mail Address: pkrueger@parkhill.com

Ь.	Package					
	Ind	icate by a check mark the pre	ferred method for receiving the first notice and instructions:			
	\boxtimes	E-mail Address				
		Fax				
		Regular Mail				
C.	Coı	ntact permit to be listed in th	ne Notices			
	Pre	fix: <u>Mr.</u>	Last Name, First Name: <u>Hernandez, Billy</u>			
	Titl	e: <u>City Administrator</u>	Credential: <u>CPM</u>			
	Org	ganization Name: <u>City of Sundo</u>	<u>wn</u>			
	Mai	ling Address: <u>PO Box 600</u>	City, State, Zip Code: Sundown, TX 79372			
	Pho	one No.: <u>806.229.3131</u>	E-mail Address: <u>billy@sundowntx.com</u>			
D.	Pul	olic Viewing Information				
	-	he facility or outfall is located inty must be provided.	in more than one county, a public viewing place for each			
	Puk	lic building name: <u>City Hall</u>				
	Location within the building: Main Entrance					
	Phy	rsical Address of Building: <u>80</u> 9	9 S. Slaughter			
	City	y: <u>Sundown</u>	County: <u>Hockley</u>			
		ntact (Last Name, First Name):	<u>Hernandez, Billy</u>			
		one No.: <u>806.229.3131</u> Ext.:				
Ε.		ngual Notice Requirements				
		s information is required for dification, and renewal appli	new, major amendment, minor amendment or minor cations.			
	be :		only used to determine if alternative language notices will s on publishing the alternative language notices will be in			
	obt		dinator at the nearest elementary and middle schools and to determine whether an alternative language notices are			
	1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?					
		□ Yes ⊠ No				
		If no , publication of an altern below.	ative language notice is not required; skip to Section 9			
		Are the students who attend a bilingual education progran	either the elementary school or the middle school enrolled in at that school?			
		□ Yes □ No				

	3.	Do the locatio		at these	e schools attend a bilingual education program at another
			Yes		No
	4.				uired to provide a bilingual education program but the school has rement under 19 TAC §89.1205(g)?
			Yes		No
	5.				uestion 1, 2, 3, or 4 , public notices in an alternative language are te is required by the bilingual program? Click to enter text.
F.	Pla	in Lang	guage Sun	nmary T	Template
	Co	mplete	the Plain	Languag	ge Summary (TCEQ Form 20972) and include as an attachment.
	At	tachme	nt: <u>N/A- N</u>	lot Subje	ct to alternative language requirements (page 29 of Instructions)
G	Pu	blic Inv	olvemen	t Plan Fo	orm
٠.					ement Plan Form (TCEQ Form 20960) for each application for a
					dment to a permit and include as an attachment.
	At	tachme	nt: <u>N/A</u>		
Se	cti	on 9.	Regul Page		Entity and Permitted Site Information (Instructions
Α.				ly regula	ated by TCEQ, provide the Regulated Entity Number (RN) issued to
	Sea	arch the	e TCEQ's (Central R	Registry at http://www15.tceq.texas.gov/crpub/ to determine if ed by TCEQ.
B.	Na	me of p	roject or	site (the	name known by the community where located):
	<u>Cit</u>	y of Sun	down Was	tewater T	<u>Creatment Plant</u>
C.	Ov	vner of	treatment	facility:	City of Sundown
	Ov	vnershij	of Facili	ty: 🖂	Public □ Private □ Both □ Federal
D.	Ov	vner of	land wher	e treatm	nent facility is or will be:
	Pre	efix: _			Last Name, First Name:
	Tit	:le:			Credential:
	Or	ganizat	ion Name	: City of S	<u>Sundown</u>
	Ma	iling A	ddress: <u>PC</u>) Box 600	City, State, Zip Code: <u>Sundown, TX 79372</u>
	Ph	one No.	: <u>806.229.</u>	<u>3131</u>	E-mail Address: billy@sundowntx.com
					same person as the facility owner or co-applicant, attach a lease d easement. See instructions.
		Attach	ment: <u>N/</u>	<u>A</u>	

E.	Owner of effluent disposal site:						
	Prefix: _	Last Name, First Name:					
	Title: _	Credential:					
	Organization Name: <u>City of Sundown</u>						
	Mailing Address: PO Box 600	City, State, Zip Code: Sundown, TX 79372					
	Phone No.: <u>806.229.3131</u>	E-mail Address: billy@sundowntx.com					
	If the landowner is not the same agreement or deed recorded ease	person as the facility owner or co-applicant, attach a lease ement. See instructions.					
	Attachment: <u>N/A</u>						
F.	Owner sewage sludge disposal si property owned or controlled by	ite (if authorization is requested for sludge disposal on the applicant)::					
	Prefix: <u>N/A</u>	Last Name, First Name: Click to enter text.					
	Title: Click to enter text.	Credential: Click to enter text.					
	Organization Name: Click to enter	er text.					
	Mailing Address: Click to enter to	ext. City, State, Zip Code: Click to enter text.					
	Phone No.: Click to enter text.	E-mail Address: Click to enter text.					
If the landowner is not the same person as the facility owner or co-applicant, attach a least agreement or deed recorded easement. See instructions.							
	Attachment: Click to enter te	xt.					
Se	ction 10. TPDES Dischar	ge Information (Instructions Page 31)					
A.	Is the wastewater treatment facil	lity location in the existing permit accurate?					
□ Yes □ No							
	□ Yes □ No						
	If no, or a new permit application	on, please give an accurate description:					
		on, please give an accurate description:					
	If no, or a new permit application N/A – TLAP Only						
В.	If no , or a new permit application N/A – TLAP Only Are the point(s) of discharge and	on, please give an accurate description: I the discharge route(s) in the existing permit correct?					
В.	If no, or a new permit application N/A – TLAP Only						
В.	If no, or a new permit application N/A – TLAP Only Are the point(s) of discharge and Yes No If no, or a new or amendment proport of discharge and the d						
В.	If no, or a new permit application N/A – TLAP Only Are the point(s) of discharge and Yes No If no, or a new or amendment p	I the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the					
В.	If no , or a new permit application N/A – TLAP Only Are the point(s) of discharge and Yes No If no , or a new or amendment p point of discharge and the discharge and the discharge 307:	I the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the					
В.	If no, or a new permit application N/A – TLAP Only Are the point(s) of discharge and the discharge an	I the discharge route(s) in the existing permit correct? Permit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text.					
	If no, or a new permit application N/A – TLAP Only Are the point(s) of discharge and the point of discharge and the dis	I the discharge route(s) in the existing permit correct? The ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text. The discharge route(s) in the existing permit correct? The discharge route(s) in the existing permit correct?					
	If no, or a new permit application N/A – TLAP Only Are the point(s) of discharge and the point of discharge and the dis	I the discharge route(s) in the existing permit correct? ermit application, provide an accurate description of the arge route to the nearest classified segment as defined in 30 to enter text. s/are located: Click to enter text. discharge to a city, county, or state highway right-of-way, or					

	If yes , indicate by a check mark if:					
	\square Authorization granted \square Authorization pending					
	For new and amendment applications, provide copies of letters that show proof of contact and the approval letter upon receipt.					
	Attachment: Click to enter text.					
D.	For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.					
Se	ection 11. TLAP Disposal Information (Instructions Page 32)					
A.	For TLAPs, is the location of the effluent disposal site in the existing permit accurate?					
	⊠ Yes □ No					
	If no, or a new or amendment permit application , provide an accurate description of the disposal site location:					
	Click to enter text.					
В.	City nearest the disposal site: <u>Sundown</u>					
C.	County in which the disposal site is located: <u>Hockley</u>					
D.	D. For TLAPs , describe the routing of effluent from the treatment facility to the disposal site:					
	Effluent is pumped via PVC pipeline					
Е.	For TLAPs , please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: <u>Lake JB Thomas in Segment 1413 of the Colorado River Basin</u>					
Se	ection 12. Miscellaneous Information (Instructions Page 32)					
	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?					
	\square Yes \square No \boxtimes Not Applicable					
	If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.					
	Click to enter text.					

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: <u>WQ0011253001</u>

Applicant: City of Sundown

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name	(typed or	printed):	<u>Jonathan</u>	Strickland
----------------	-----------	-----------	-----------------	------------

Signatory title: Mayor

(333 3133					
			Maure	La Un Chill	1
Subscribed and Sworn to before	e me by the	said_	Mayor -	Johathen of tricklan	id
Subscribed and Sworn to before on this/ \$f	day of	No	vem ber	, 2024	

Founded

My commission expires on the 17th day of December, 2026.

S. L. A. A.

Notary Public

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION **ADMINISTRATIVE REPORT 1.0**

N/A - Renewal

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:						
☐ The applicant's property boundaries						
		The facility site boundaries within the applicant's property boundaries				
☐ The distance the buffer zone falls into adjacent properties and the proper of the landowners located within the buffer zone						
		The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)				
		The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream				
The property boundaries of the landowners located on both sides of the discharge for one full stream mile downstream of the point of discharge						
	The property boundaries of the landowners along the watercourse for a one-half marked radius from the point of discharge if the point of discharge is into a lake, bay, estudor affected by tides					
		The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property				
		The property boundaries of all landowners surrounding the effluent disposal site				
	The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is local					
		The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located				
В.	□ add	Indicate by a check mark that a separate list with the landowners' names and mailing resses cross-referenced to the landowner's map has been provided.				
C.	Indi	cate by a check mark in which format the landowners list is submitted:				
		☐ USB Drive ☐ Four sets of labels				
D.	Prov	vide the source of the landowners' names and mailing addresses: Click to enter text.				
Е.		required by <i>Texas Water Code § 5.115</i> , is any permanent school fund land affected by application? Yes \square No				
		100 - 110				

If yes , provide the location and foreseeable impacts and effects this application has on the land(s):						
	Clicl	x to enter text.				
Se	ction	n 2. Original Photographs (Instructions Page 38)				
Pro	ovide (original ground level photographs. Indicate with checkmarks that the following ion is provided.				
		At least one original photograph of the new or expanded treatment unit location				
		At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.				
		At least one photograph of the existing/proposed effluent disposal site				
		A plot plan or map showing the location and direction of each photograph				
Se	ction	1 3. Buffer Zone Map (Instructions Page 38)				
	Buffe infor	r zone map. Provide a buffer zone map on 8.5×11 -inch paper with all of the following mation. The applicant's property line and the buffer zone line may be distinguished by dashes or symbols and appropriate labels.				
	•	The applicant's property boundary; The required buffer zone; and Each treatment unit; and The distance from each treatment unit to the property boundaries.				
В.		r zone compliance method. Indicate how the buffer zone requirements will be met. k all that apply.				
		Ownership Restrictive easement Nuisance odor control				
C.		Variance itable site characteristics. Does the facility comply with the requirements regarding itable site characteristic found in 30 TAC § 309.13(a) through (d)?				
		Yes No				

DOMESTIC WASTEWATER PERMIT APPLICATION SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Click to enter text.

N/A - TLAP

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

BY OVERNIGHT/EXPRESS MAIL

Texas Commission on Environmental Quality Texas Commission on Environmental Quality

Financial Administration Division Financial Administration Division

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

Fee Code: WQP Waste Permit No: WQ0011253001

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

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

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

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

5. APPLICATION INFORMATION

Name of Project or Site: City of Sundown WWTP

Physical Address of Project or Site: <u>1 mile NW of the intersection of FM 301 and FM 303 in Hockley County, Texas.</u>

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

Plain Language Summary

Yes

THE TONMENTAL OURS

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-Hr Peak Flow (MGD):

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): <u>0.175</u>

2-Hr Peak Flow (MGD): N/A

Estimated construction start date:

Estimated waste disposal start date:

D. Current Operating Phase

Provide the startup date of the facility: March 6, 2023

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**.

Raw wastewater enters the plant headworks via bar screen, then to a facultative lagoon, then to a holding pond. Effluent leaving the holding pond is land applied on 50 acres of permitted land.

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)		
Bar Screen	1	3.5' X 2.5' X 2'		
Facultative Lagoon	1	505' X 168' X 12' to 8'		
Holding Pond	1	505' X 134' X 10'		

C. Process Flow Diagram

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

Attachment: Attachment C

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

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

• Latitude: <u>N/A</u>

• Longitude: N/A

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

• Latitude: 33° 28' 10"

• Longitude: <u>-102° 29' 40"</u>

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

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

Attachment: Attachment D

Provide the name and a des	ecription of the area	served by the treatmen	t facility.
City of Sundown, Texas			
Collection System Informati	ion for wastewate r	TPDES permits only: Pr	rovide information for
each uniquely owned collection	ction system, existi	ng and new, served by tl	his facility, including
satellite collection systems. examples.	Please see the ins	tructions for a detailed	explanation and
examples.			
Collection System Informatio	n		
Collection System Name	Owner Name	Owner Type	Population Served
N/A - TLAP		Choose an item.	
Section 4. Unbuilt F	Phagog (Ingtmic	tions Dago 45)	
☐ Yes ⊠ No			
If yes , does the existing per years of being authorized b	_	e that has not been cons	tructed within five
☐ Yes ☐ No	y the relation		
			d 1 21 1
If yes, provide a detailed di Failure to provide sufficien	0 0		-
recommending denial of the			Director
Click to enter text.			
Section 5. Closure 1	Plans (Instruct	ions Page 45)	
			ll any unite he taken
Have any treatment units be out of service in the next fix		ivice permanently, or wi	ii aiiy uiiits de takeii

Yes □ No

	⊠ Yes □ No
If y	yes, provide a brief description of the closure and the date of plan approval.
P	ond Closure Plan was submitted to TCEQ in September 2021.
Se	ection 6. Permit Specific Requirements (Instructions Page 45)
	r applicants with an existing permit, check the Other Requirements or Special
Pro	ovisions 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: October 12, 2021
	Provide information, including dates, on any actions taken to meet a <i>requirement or provision</i> pertaining to the submission of a summary transmittal letter. Provide a copy of an approval letter from the TCEQ, if applicable.
	Click to enter text.
R.	Buffer zones
٥.	Have the buffer zone requirements been met?
	∀es □ No
	Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.
	Click to enter text.

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

C.	Ot	her actions required by the current permit
	sul	tes the <i>Other Requirements</i> or <i>Special Provisions</i> section in the existing permit require bmission of any other information or other required actions? Examples include tification of Completion, progress reports, soil monitoring data, etc.
		⊠ Yes □ No
		yes, provide information below on the status of any actions taken to meet the nditions of an <i>Other Requirement</i> or <i>Special Provision</i> .
	S _] J ₁ S _] S _]	pecial Provision 8 – Soil Sampling: The city conducts annual soil samples of the effluent site. pecial Provision 14 – Liner Certification: A liner certification was submitted and approved on ine 12, 2023. pecial Provision 18 – Groundwater Monitoring Plan: The city conducts groundwater monitoring pecial Provision 20 – Notification of Completion Form 20007: A completed copy of the form was ent to TCEQ in March 2023
D.	Gr	it and grease treatment
	1.	Acceptance of grit and grease waste
		Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?
		□ Yes ⊠ No
		If No, stop here and continue with Subsection E. Stormwater Management.
	2.	Grit and grease processing
		Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.
		Click to enter text.
	2	Costs discussed
	3.	Grit disposal Describe for cility have a Municipal Calid Wests (MCM) variatyation on powerit for cuit
		Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

disposal requirements and restrictions.

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

Yes □ No

		Describe the method of grit disposal.
		Click to enter text.
	4.	Grease and decanted liquid disposal
		Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.
		Describe how the decant and grease are treated and disposed of after grit separation.
		Click to enter text.
F	Sta	ormwater management
L.		Applicability
	1.	Does the facility have a design flow of 1.0 MGD or greater in any phase?
		☐ Yes ☑ No
		Does the facility have an approved pretreatment program, under 40 CFR Part 403?
		☐ Yes ☒ No
	_	If no to both of the above, then skip to Subsection F, Other Wastes Received.
	2.	MSGP coverage
		Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?
		□ Yes □ No
		If yes , please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:
		TXR05 Click to enter text. or TXRNE Click to enter text.
		If no, do you intend to seek coverage under TXR050000?
		□ Yes □ No
	3.	Conditional exclusion
		Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?
		□ Yes □ No

	If yes, please explain below then proceed to Subsection F, Other Wastes Received:
	Click to enter text.
1	Existing coverage in individual permit
4.	Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?
	□ Yes □ No
	If yes , provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.
	Click to enter text.
5 .	Zero stormwater discharge
	Do you intend to have no discharge of stormwater via use of evaporation or other means?
	□ Yes □ No
	If yes, explain below then skip to Subsection F. Other Wastes Received.
	Click to enter text.
	Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.
6.	Request for coverage in individual permit
	Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?
	□ Yes □ No
	If yes , provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you

		it to water in the state.
		Click to enter text.
		Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.
F.	Di	scharges to the Lake Houston Watershed
	Do	es the facility discharge in the Lake Houston watershed?
		□ Yes ⊠ No
		yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions. ck to enter text.
G.	Ot	her wastes received including sludge from other WWTPs and septic waste
	1.	Acceptance of sludge from other WWTPs
		Does or will the facility accept sludge from other treatment plants at the facility site?
		□ Yes ⊠ No
		If yes, attach sewage sludge solids management plan. See Example 5 of instructions.
		In addition, provide the date the plant started or is anticipated to start accepting
		sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an
		estimate of the BOD ₅ concentration of the sludge, and the design BOD ₅ concentration of the influent from the collection system. Also note if this information has or has not
		changed since the last permit action.
		Click to enter text.
		Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.
	2.	Acceptance of septic waste
		Is the facility accepting or will it accept septic waste?
		□ Yes ⊠ No
		If yes, does the facility have a Type V processing unit?
		□ Yes □ No
		If yes, does the unit have a Municipal Solid Waste permit?

intend to divert stormwater to the treatment plant headworks and indirectly discharge

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

Click to enter text.

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

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

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

□ Yes ⊠ No

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

Click to enter text.			

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

Is the facility in operation?

⊠ Yes □ No

See Appendix E

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

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

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

Table 1.0(2) - Pollutant Analysis for Wastewater Treatment Facilities

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	14.4	14.4	1	Grab	7/31/24 @12:02
Total Suspended Solids, mg/l	28.5	28.5	1	Grab	7/31/24 @12:02
Ammonia Nitrogen, mg/l	4.37	4.37	1	Grab	7/31/24 @12:02
Nitrate Nitrogen, mg/l	<0.10	<0.10	1	Grab	7/31/24 @12:02
Total Kjeldahl Nitrogen, mg/l	33.5	33.5	1	Grab	7/31/24 @12:02
Sulfate, mg/l	194	194	1	Grab	7/31/24 @12:02
Chloride, mg/l	418	418	1	Grab	7/31/24 @12:02
Total Phosphorus, mg/l	4.54	4.54	1	Grab	7/31/24 @12:02
pH, standard units	8.6	8.6	1	Grab	7/31/24 @12:02
Dissolved Oxygen*, mg/l	N/A	N/A	1	Grab	7/31/24 @12:02
Chlorine Residual, mg/l			1	Grab	7/31/24 @12:02
<i>E.coli</i> (CFU/100ml) freshwater			1	Grab	7/31/24 @12:02
Entercocci (CFU/100ml) saltwater	N/A	N/A	1	Grab	7/31/24 @12:02
Total Dissolved Solids, mg/l	1730	1730	1	Grab	7/31/24 @12:02
Electrical Conductivity, µmohs/cm, †	2490	2490	1	Grab	7/31/24 @12:02
Oil & Grease, mg/l	<5	<5	1	Grab	7/31/24 @12:02
Alkalinity (CaCO ₃)*, mg/l	N/A	N/A	1	Grab	7/31/24 @12:02

^{*}TPDES permits only †TLAP permits only

Table 1.0(3) - Pollutant Analysis for Water Treatment Facilities

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: <u>Librado "Lee" Torrez</u>

Facility Operator's License Classification and Level: Class C

Facility Operator's License Number: WW0035755

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

A.	WW	TP's Biosolids Management Facility Type
	Che	ck all that apply. See instructions for guidance
		Design flow>= 1 MGD
		Serves >= 10,000 people
		Class I Sludge Management Facility (per 40 CFR § 503.9)
		Biosolids generator
		Biosolids end user – land application (onsite)
		Biosolids end user - surface disposal (onsite)
		Biosolids end user – incinerator (onsite)
B.	ww	TP's Biosolids Treatment Process
	Che	ck all that apply. See instructions for guidance.
		Aerobic Digestion
		Air Drying (or sludge drying beds)
		Lower Temperature Composting
		Lime Stabilization
		Higher Temperature Composting
		Heat Drying
		Thermophilic Aerobic Digestion
		Beta Ray Irradiation
		Gamma Ray Irradiation
		Pasteurization
		Preliminary Operation (e.g. grinding, de-gritting, blending)
		Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
		Sludge Lagoon
		Temporary Storage (< 2 years)
	\boxtimes	Long Term Storage (>= 2 years)
		Methane or Biogas Recovery
	⊠ of th	Other Treatment Process: The facultative lagoon will store and digest sludge for the lifetime are facility.

C. Biosolids Management

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Storage	On-Site Owner or Operator	Not Applicable	N/A	Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): The facultative lagoon will store and digest sludge for the lifetime of the facility.

D . 1	Dispos	al site
--------------	--------	---------

Diopodal offer fidilies 11/12	Disposal	site	name:	N	/A
-------------------------------	----------	------	-------	---	----

TCEQ permit or registration number:

County where disposal site is located:

E. Transportation method

Method of transportation	(truck,	train,	pipe,	other):	N/A
--------------------------	---------	--------	-------	---------	-----

Name of the hauler:

Hauler registration number:

Sludge is transported as a:

Liquid 🗆	semi-liquid □	semi-solid □	solid □
Liquiu 🗀	Schii-nquiu 🗀	SCHII-SOHU 🗀	Sonu 🗀

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)?

Ш	Yes □ No				
B. Sludge	e processing authorization				
	the existing permit include authorization for se or disposal options?	or an	y of the	follov	ving sludge processing,
Slu	dge Composting		Yes	\boxtimes	No
Ma	rketing and Distribution of sludge		Yes	\boxtimes	No
Slu	dge Surface Disposal or Sludge Monofill		Yes		No
Tei	mporary storage in sludge lagoons		Yes	\boxtimes	No
author	to any of the above sludge options and the rization, is the completed Domestic Wasterical Report (TCEQ Form No. 10056) attack	wate	r Permit	Appl	lication: Sewage Sludge
	Yes □ No				
Section	11. Sewage Sludge Lagoons (Ins	stru	ctions	Page	e 53)
Does this	facility include sewage sludge lagoons?				
□ Ye	es 🗵 No				
If yes, cor	nplete the remainder of this section. If no,	proc	eed to S	ection	12.
A. Locati	on information				
	ollowing maps are required to be submitted le the Attachment Number.	l as p	oart of th	ie app	lication. For each map,
•	Original General Highway (County) Map:				
	Attachment: Click to enter text.				
•	USDA Natural Resources Conservation Ser	vice	Soil Map	:	
	Attachment: Click to enter text.				
•	Federal Emergency Management Map:				
	Attachment: Click to enter text.				
•	Site map:				
Dicens	Attachment: Click to enter text. ss in a description if any of the following ex	viet v	vithin th	o lago	oon area. Check all that
apply.	· ,	XIST V	VICIIIII CII	e iago	on area. Check an that
	Overlap a designated 100-year frequency	floo	d plain		
	Soils with flooding classification				
	Overlap an unstable area				
	Wetlands				
	Located less than 60 meters from a fault				
	None of the above				
Att	tachment: Click to enter text.				

	Click to enter text.
•	Temporary storage information
	Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in <i>Section 7 of Technical Report 1.0.</i>
	Nitrate Nitrogen, mg/kg: Click to enter text.
	Total Kjeldahl Nitrogen, mg/kg: Click to enter text.
	Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: Click to enter text.
	Phosphorus, mg/kg: Click to enter text.
	Potassium, mg/kg: <u>Click to enter text.</u>
	pH, standard units: <u>Click to enter text.</u>
	Ammonia Nitrogen mg/kg: Click to enter text.
	Arsenic: Click to enter text.
	Cadmium: Click to enter text.
	Chromium: Click to enter text.
	Copper: Click to enter text.
	Lead: Click to enter text.
	Mercury: Click to enter text.
	Molybdenum: Click to enter text.
	Nickel: Click to enter text.
	Selenium: Click to enter text.
	Zinc: Click to enter text.
	Total PCBs: Click to enter text.
	Provide the following information:
	Volume and frequency of sludge to the lagoon(s): Click to enter text.
	Total dry tons stored in the lagoons(s) per 365-day period: Click to enter text.
	Total dry tons stored in the lagoons(s) over the life of the unit: Click to enter text.

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

Yes	No

	If yes	, describe the liner below. Please note that a liner is required.
	Click	to enter text.
D.	Site d	evelopment plan
	Provid	le a detailed description of the methods used to deposit sludge in the lagoon(s):
	Click	to enter text.
	Attacl	n the following documents to the application.
	•	Plan view and cross-section of the sludge lagoon(s)
		Attachment: Click to enter text.
	•	Copy of the closure plan
		Attachment: Click to enter text.
	•	Copy of deed recordation for the site
		Attachment: Click to enter text.
	•	Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons
		Attachment: Click to enter text.
	•	Description of the method of controlling infiltration of groundwater and surface water from entering the site
		Attachment: Click to enter text.
	•	Procedures to prevent the occurrence of nuisance conditions
		Attachment: Click to enter text.
E.	Groun	ndwater monitoring
	groun	undwater monitoring currently conducted at this site, or are any wells available for dwater monitoring, or are groundwater monitoring data otherwise available for the e lagoon(s)?
		Yes □ No
	types	undwater monitoring data are available, provide a copy. Provide a profile of soil encountered down to the groundwater table and the depth to the shallowest dwater as a separate attachment.
	0	tachment: Click to enter text.

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

A.	Additional authorizations
	Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?
	□ Yes ⊠ No
	If yes, provide the TCEQ authorization number and description of the authorization:
C	lick to enter text.
B.	Permittee enforcement status
	Is the permittee currently under enforcement for this facility?
	□ Yes ⊠ No
	Is the permittee required to meet an implementation schedule for compliance or enforcement?
	□ Yes ⊠ No
	If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:
C	lick to enter text.
Se	ection 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:
 - o periodically inspected by the TCEQ; or
 - o located in another state and is accredited or inspected by that state; or
 - o performing work for another company with a unit located in the same site; or
 - o performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

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

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

CERTIFICATION:

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

Printed Name: Jonathan Strickland

Title: Mayor

Signature: _

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1 N/A - Renewal

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit	it neea
----------------------------	---------

B.

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

(Click to enter text.
Re	egionalization of facilities
Fo	r additional guidance, please review <u>TCEO's Regionalization Policy for Wastewater</u> <u>eatment</u> ¹ .
	ovide the following information concerning the potential for regionalization of domestic astewater treatment facilities:
1.	Municipally incorporated areas
	If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.
	Is any portion of the proposed service area located in an incorporated city?
	□ Yes □ No □ Not Applicable
	If yes, within the city limits of: Click to enter text.
	If yes, attach correspondence from the city.
	Attachment: Click to enter text.
	If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.
	Attachment: Click to enter text.
2.	Utility CCN areas
	Is any portion of the proposed service area located inside another utility's CCN area? $\hfill\Box$ Yes $\hfill\Box$ No

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

If yes, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.
Attachment: Click to enter text.
3. Nearby WWTPs or collection systems
Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?
□ Yes □ No
If yes, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.
Attachment: Click to enter text.
If yes , attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.
Attachment: Click to enter text.
If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.
Attachment: Click to enter text.
Section 2. Proposed Organic Loading (Instructions Page 59)
Is this facility in operation?
□ Yes □ No
If no, proceed to Item B, Proposed Organic Loading.
If yes, provide organic loading information in Item A, Current Organic Loading
A. Current organic loading
Facility Design Flow (flow being requested in application): Click to enter text.
Average Influent Organic Strength or BOD ₅ Concentration in mg/l: Click to enter text.
Average Influent Loading (lbs/day = total average flow X average BOD ₅ conc. X 8.34): $\underline{\text{Click}}$ to enter text.
Provide the source of the average organic strength or BOD ₅ concentration.
Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) - Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park - transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD ₅ from all sources		

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: Click to enter text.

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

Other: Click to enter text.

В.	interim ii Phase Design Efficient Quanty
	Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.
	Total Suspended Solids, mg/l: Click to enter text.
	Ammonia Nitrogen, mg/l: Click to enter text.
	Total Phosphorus, mg/l: Click to enter text.
	Dissolved Oxygen, mg/l: Click to enter text.
	Other: Click to enter text.
C.	Final Phase Design Effluent Quality
	Biochemical Oxygen Demand (5-day), mg/l: Click to enter text.
	Total Suspended Solids, mg/l: Click to enter text.
	Ammonia Nitrogen, mg/l: Click to enter text.
	Total Phosphorus, mg/l: Click to enter text.
	Dissolved Oxygen, mg/l: Click to enter text.
	Other: Click to enter text.
D.	Disinfection Method
	Identify the proposed method of disinfection.
	☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow
	Dechlorination process: Click to enter text.
	☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow
	□ Other: Click to enter text.
Se	ection 4. Design Calculations (Instructions Page 59)
	tach design calculations and plant features for each proposed phase. Example 4 of the
	structions includes sample design calculations and plant features.
	Attachment: Click to enter text.
Se	ction 5. Facility Site (Instructions Page 60)
	·
Α.	100-year floodplain
	Will the proposed facilities be located <u>above</u> the 100-year frequency flood level?
	□ Yes □ No
	If no, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.
	Click to enter text.

	Provide the source(s) used to determine 100-year frequency flood plain.
	Click to enter text.
	For a new or expansion of a facility, will a wetland or part of a wetland be filled?
	□ Yes □ No
	If yes , has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?
	□ Yes □ No
	If yes, provide the permit number: <u>Click to enter text.</u>
	If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.
B.	Wind rose
	Attach a wind rose: <u>Click to enter text.</u>
Se	ection 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)
	(mstructions rage 00)
Α.	Beneficial use authorization
	Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?
	□ Yes □ No
	If yes, attach the completed Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451): Click to enter text.
B.	Sludge processing authorization
	Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:
	□ Sludge Composting
	□ Marketing and Distribution of sludge
	□ Sludge Surface Disposal or Sludge Monofill
	If any of the above, sludge options are selected, attach the completed Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056): Click to enter text.
Se	ection 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

N/A - TLAP

Section 1. Domestic Drinking Water Supply (Instructions Page 64)
Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?
□ Yes □ No
If no , proceed it Section 2. If yes , provide the following:
Owner of the drinking water supply: Click to enter text.
Distance and direction to the intake: Click to enter text.
Attach a USGS map that identifies the location of the intake.
Attachment: Click to enter text.
Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)
Does the facility discharge into tidally affected waters?
□ Yes □ No
If no , proceed to Section 3. If yes , complete the remainder of this section. If no, proceed to Section 3.
A. Receiving water outfall
Width of the receiving water at the outfall, in feet: Click to enter text.
B. Oyster waters
Are there oyster waters in the vicinity of the discharge?
□ Yes □ No
If yes, provide the distance and direction from outfall(s).
Click to enter text.
C. Sea grasses
Are there any sea grasses within the vicinity of the point of discharge?
□ Yes □ No
If yes, provide the distance and direction from the outfall(s).
Click to enter text.

26	ection	5. Classified Segments (instructions Page 64)
Is	the disc	harge directly into (or within 300 feet of) a classified segment?
	□ Ye	es 🗆 No
If	yes , this	s Worksheet is complete.
If	no , com	plete Sections 4 and 5 of this Worksheet.
Se	ection	4. Description of Immediate Receiving Waters (Instructions
	3012322	Page 65)
Na	ame of t	he immediate receiving waters: <u>Click to enter text.</u>
A.	Receiv	ring water type
	Identif	y the appropriate description of the receiving waters.
		Stream
		Freshwater Swamp or Marsh
		Lake or Pond
		Surface area, in acres: Click to enter text.
		Average depth of the entire water body, in feet: Click to enter text.
		Average depth of water body within a 500-foot radius of discharge point, in feet: Click to enter text.
		Man-made Channel or Ditch
		Open Bay
		Tidal Stream, Bayou, or Marsh
		Other, specify: <u>Click to enter text.</u>
B.	Flow c	haracteristics
	existin	eam, man-made channel or ditch was checked above, provide the following. For g discharges, check one of the following that best characterizes the area <i>upstream</i> discharge. For new discharges, characterize the area <i>downstream</i> of the discharge one).
		Intermittent - dry for at least one week during most years
	□ ma	Intermittent with Perennial Pools - enduring pools with sufficient habitat to intain significant aquatic life uses
		Perennial - normally flowing
	Check discha	the method used to characterize the area upstream (or downstream for new rgers).
		USGS flow records
		Historical observation by adjacent landowners
		Personal observation
		Other, specify: Click to enter text.

	List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.				
	Click t	o enter text.			
D.	Downs	stream characteristics			
		rge (e.g., natural or man-mad		vithin three miles downstream of the nds, reservoirs, etc.)?	
		Yes □ No			
		discuss how.			
	Click t	o enter text.			
E.	Norma	l dry weather characteristic	es es		
	Provide	e general observations of the	water body	during normal dry weather conditions.	
	Click to enter text.				
	Date a	nd time of observation: Click	to enter tex	xt.	
	Was th	e water body influenced by s	stormwater 1	runoff during observations?	
		Yes 🗆 No			
Se	ection	5. General Characte Page 66)	ristics of	the Waterbody (Instructions	
Α.	Upstre	am influences			
	Is the i			he discharge or proposed discharge site	
		Oil field activities		Urban runoff	
		Upstream discharges	_	Agricultural runoff	
		Septic tanks		Other(s), specify: <u>Click to enter text.</u>	

C. Downstream perennial confluences

B. Waterbody uses Observed or evidences of the following uses. Check all that apply. Livestock watering Contact recreation Irrigation withdrawal Non-contact recreation **Fishing Navigation** Domestic water supply Industrial water supply Park activities Other(s), specify: Click to enter text. C. Waterbody aesthetics Check one of the following that best describes the aesthetics of the receiving water and the surrounding area. Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored Common Setting: not offensive; developed but uncluttered; water may be colored or turbid Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

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

N/A - Renewal

Section 1. General Information (Instructions Page 66)
Date of study: Click to enter text. Time of study: Click to enter text.
Stream name: Click to enter text.
Location: Click to enter text.
Type of stream upstream of existing discharge or downstream of proposed discharge (check one).
\square Perennial \square Intermittent with perennial pools
Section 2. Data Collection (Instructions Page 66)
Number of stream bends that are well defined: Click to enter text.
Number of stream bends that are moderately defined: Click to enter text.
Number of stream bends that are poorly defined: <u>Click to enter text.</u>
Number of riffles: Click to enter text.
Evidence of flow fluctuations (check one):
□ Minor □ moderate □ severe
Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.
Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 66)

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

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

Length of stream evaluated, in feet: Click to enter text.

Number of lateral transects made: Click to enter text.

Average stream width, in feet: Click to enter text.

Average stream depth, in feet: Click to enter text.

Average stream velocity, in feet/second: Click to enter text.

Instantaneous stream flow, in cubic feet/second: Click to enter text.

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): <u>Click to enter text.</u>

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION **WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT**

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

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

Identif	y the method of land disposal:		
	Surface application		Subsurface application
\boxtimes	Irrigation		Subsurface soils absorption
	Drip irrigation system		Subsurface area drip dispersal system
	Evaporation		Evapotranspiration beds
	Other (describe in detail): Click	to er	nter text.
	All applicants without authoriza complete and submit Worksheet		or proposing new/amended subsurface disposal

For existing authorizations, provide Registration Number: Click to enter text.

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

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

Table 3.0(1) - Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native Vegetation/Wheat Grass	50	Does not exceed 3.92 ac-ft/ac/yr	N

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

Table 3.0(2) - Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
Facultative 1	1.95	14.57	505' x 168' x 12' to 8'	Synthetic
Holding 1	1.55	11.55	505' x 134' x 10'	Synthetic

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

Attachment: N/A

application site.

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

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

□ Yes ⊠ No	
If yes, describe how the site will be protected from inundation.	
Click to enter text.	
Provide the source used to determine the 100-year frequency floor	d level:
FEMA Flood Mapping	
Provide a description of tailwater controls and rainfall run-on con-	trols used for the land

Irrigation will not occur during rainfall events.

Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment**: Attachment F

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

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

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: <u>Attachment G</u>

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

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

Table 3.0(3) - Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
47923	Domestic	Y	Cased	Buffer

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
62965	Irrigation	Y	Cased	Buffer
72913	Stock	Y	Cased	Buffer
95279	Domestic	Y	Cased	Buffer
120114	Domestic	Y	Cased	Buffer
185707	Soil boring	N	Plugged	Buffer
188815	Domestic	Y	Cased	Buffer
195090	Irrigation	Y	Cased	Buffer
430284	Domestic	Y	Cased	Buffer
2436303	Industrial	Y	Cased	Buffer
2436304	Industrial	Y	Cased	Buffer
2436305	Industrial	Y	Cased	Buffer
2437102	Industrial	Y	Cased	Buffer
2437103	Public Supply	Y	Cased	Buffer
2437107	Public Supply	Y	Cased	Buffer
2437406	Public Supply	Y	Cased	Buffer

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

Attachment: Attachment G

Attachment: Click to enter text.

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: Attachment H					
Are groundwater monitoring wells available onsite?	\boxtimes	Yes		No	
Do you plan to install ground water monitoring wells application site? \square Yes \boxtimes No	s or l	ysimet	ers aro	und the land	
If yes, provide the proposed location of the monitor	ing w	vells or	lysime	eters on a site	e map.

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

A. Soil map

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

Attachment: Attachment I

B. Soil analyses

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

Attachment: Attachment I

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

Table 3.0(4) - Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
See Appendix I				

Section 9. Effluent Monitoring Data (Instructions Page 71)

S	the	facil	lity	in	or	era	tion	':

⊠ Yes □ No

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

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

Table 3.0(5) - Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	рН	Chlorine Residual mg/l	Acres irrigated
June 2024	0.075	29.0	N/A	8.1	N/A	50
May 2024	0.070	52.5	N/A	8.5	N/A	50
April 2024	0.073	30.4	N/A	7.7	N/A	50

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pН	Chlorine Residual mg/l	Acres irrigated
March 2024	0.075	24.1	N/A	7.8	N/A	50
February 2024	0.077	66.5	N/A	8.5	N/A	50
January 2024	0.081	38.5	N/A	7.9	N/A	50
December 2023	0.072	30.3	N/A	8.5	N/A	50
November 2023	0.071	53.5	N/A	8.3	N/A	50
October 2023	0.075	42.9	N/A	8.3	N/A	50
September 2023	0.076	23.5	N/A	8.4	N/A	50
August 2023	0.076	32.8	N/A	8.8	N/A	50
July 2023	0.074	37.5	N/A	8.6	N/A	50
June 2023	0.049	40.6	N/A	8.3	N/A	50
May 2023	0.071	77.9	N/A	7.7	N/A	50
April 2023	0.070	51.0	N/A	8.4	N/A	50
March 2023	0.065	77.3	N/A	8.5	N/A	50
February 2023	0.055	29.0	N/A	8.0	N/A	50
January 2023	0.048	31.8	N/A	8.1	N/A	50
December 2022	0.052	22.3	N/A	7.7	N/A	50
November 2022	0.055	17.2	N/A	8.8	N/A	50
October 2022	0.062	21.1	N/A	8.4	N/A	50
September 2022	0.067	18.7	N/A	9.2	N/A	50
August 2022	0.068	19.0	N/A	9.2	N/A	50
July 2022	0.063	57.5	N/A	9.0	N/A	50

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

The Permit began operating in the Final Phase around March of 2023.	

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

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

N/A - Renewal

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

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

Design application frequency:

hours/day Click to enter text. And days/week Click to enter text.

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

Design application rate in acre-feet/acre/year: Click to enter text.

Design total nitrogen loading rate, in lbs N/acre/year: Click to enter text.

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: Click to enter text.

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

Area of bed(s), in acres: <u>Click to enter text.</u>

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

Void ratio of soil in the beds: Click to enter text.

Storage volume within the beds, in acre-feet: Click to enter text.

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

Attachment: Click to enter text.

Area used for application, in acres: Click to enter text. Slopes for application area, percent (%): Click to enter text. Design application rate, in gpm/foot of slope width: Click to enter text. Slope length, in feet: Click to enter text. Design BOD5 loading rate, in lbs BOD5/acre/day: Click to enter text. Design application frequency: hours/day: Click to enter text. And days/week: Click to enter text. Attach a separate engineering report with the method of application and design requirements according to 30 TAC Chapter 217. Attachment: Click to enter text. Section 2. Edwards Aquifer (Instructions Page 73) Is the facility subject to 30 TAC Chapter 213, Edwards Aquifer Rules?

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

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

Attachment: Click to enter text.

Yes □ No

Yes □ No

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

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

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

N/A - Renewal

Section 1. Subsurface Application (Instructions Page 74)
Identify the type of system:
□ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
☐ Low Pressure Dosing
☐ Other, specify: <u>Click to enter text.</u>
Application area, in acres: Click to enter text.
Area of drainfield, in square feet: Click to enter text.
Application rate, in gal/square foot/day: Click to enter text.
Depth to groundwater, in feet: Click to enter text.
Area of trench, in square feet: Click to enter text.
Dosing duration per area, in hours: <u>Click to enter text.</u>
Number of beds: Click to enter text.
Dosing amount per area, in inches/day: Click to enter text.
Infiltration rate, in inches/hour: Click to enter text.
Storage volume, in gallons: <u>Click to enter text.</u>
Area of bed(s), in square feet: Click to enter text.
Soil Classification: <u>Click to enter text.</u>
Attach a separate engineering report with the information required in $30\ TAC\ \S\ 309.20$, excluding the requirements of $\S\ 309.20\ b(3)(A)$ and (B) design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.
Attachment: Click to enter text.
Section 2. Edwards Aquifer (Instructions Page 74)
Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?
□ Yes □ No
Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?
□ Yes □ No
If yes to either question , the subsurface system may be prohibited by <i>30 TAC §213.8</i> . Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

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

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

N/A - Renewal

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

Se	ection 1. Administrative Information (Instructions Page 75)
A.	Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:
В.	<u>Click to enter text.</u> Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?
	□ Yes □ No
	If no , provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.
	Click to enter text.
C.	Owner of the subsurface area drip dispersal system: <u>Click to enter text.</u>
D.	Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?
	□ Yes □ No
	If no , identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.
	Click to enter text.
Е.	Owner of the land where the subsurface area drip dispersal system is located: <u>Click to enter text.</u>
F.	Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system? Yes No
	If no , identify the name of all corporations or other business entities managed, owned, or
	otherwise closely related to the entity identified in item 1.E.
	Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page

A.	Type of system
	□ Subsurface Drip Irrigation
	□ Surface Drip Irrigation
	□ Other, specify: <u>Click to enter text.</u>
B.	Irrigation operations
	Application area, in acres: Click to enter text.
	Infiltration Rate, in inches/hour: Click to enter text.
	Average slope of the application area, percent (%): Click to enter text.
	Maximum slope of the application area, percent (%): Click to enter text.
	Storage volume, in gallons: <u>Click to enter text.</u>
	Major soil series: Click to enter text.
	Depth to groundwater, in feet: Click to enter text.
C.	Application rate
	Is the facility located west of the boundary shown in <i>30 TAC § 222.83</i> and also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?
	□ Yes □ No
	If yes, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.
	Is the facility located east of the boundary shown in <i>30 TAC § 222.83</i> or in any part of the state when the vegetative cover is any crop other than non-native grasses?
	□ Yes □ No
	If yes , the facility must use the formula in <i>30 TAC §222.83</i> to calculate the maximum hydraulic application rate.
	Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?
	□ Yes □ No
	Hydraulic application rate, in gal/square foot/day: Click to enter text.
	Nitrogen application rate, in lbs/gal/day: <u>Click to enter text.</u>
D.	Dosing information
	Number of doses per day: Click to enter text.
	Dosing duration per area, in hours: Click to enter text.

Rest period between doses, in hours: Click to enter text.

Dosing amount per area, in inches/day: Click to enter text.

Number of zones: Click to enter text.
Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?
□ Yes □ No
If yes , provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.
Attachment: Click to enter text.
Section 3. Required Plans (Instructions Page 75)
A. Recharge feature plan
Attach a Recharge Feature Plan with all information required in 30 TAC §222.79.
Attachment: Click to enter text.
B. Soil evaluation
Attach a Soil Evaluation with all information required in 30 TAC §222.73.
Attachment: Click to enter text.
C. Site preparation plan
Attach a Site Preparation Plan with all information required in 30 TAC §222.75.
Attachment: <u>Click to enter text.</u>
D. Soil sampling/testing
Attach soil sampling and testing that includes all information required in 30 TAC §222.157.
Attachment: Click to enter text.
Section 4. Floodway Designation (Instructions Page 76)
A. Site location
Is the existing/proposed land application site within a designated floodway?
□ Yes □ No
B. Flood map
Attach either the FEMA flood map or alternate information used to determine the
floodway.
Attachment: <u>Click to enter text.</u>
Section 5. Surface Waters in the State (Instructions Page 76)

S

A. Buffer Map

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

Attachment: Click to enter text.

Do you plan to request a buffer variance from water wells or waters in the state?
□ Yes □ No
If yes, then attach the additional information required in 30 TAC § 222.81(c).
Attachment: Click to enter text.
Section 6 Edwards Aguifor (Instructions Dags 76)
Section 6. Edwards Aquifer (Instructions Page 76)
A. Is the SADDS located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?
□ Yes □ No
B. Is the SADDS located over the Edwards Aquifer Transition Zone as mapped by TCEQ?
□ Yes □ No
If yes to either question , then the SADDS may be prohibited by <i>30 TAC §213.8</i> . Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

B. Buffer variance request

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

N/A - Flow

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: Click to enter text.

Table 4.0(1) - Toxics Analysis

Pollutant	AVG Effluent Conc. (μg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzidine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (μg/l)	Number of Samples	MAL (μg/l)
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) (*1)				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide (*2)				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01

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

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

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

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

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

Section 2. Priority Pollutants

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

Grab □ Composite □

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

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				10

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

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

Table 4.0(2)B - Volatile Compounds

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

Table 4.0(2)C - Acid Compounds

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

Table 4.0(2)D - Base/Neutral Compounds

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (μg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

^{*} For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

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

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

□ Yes □ No

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

l	Click to enter text.			
l				
l				
l				
l				

C.	If any of the compounds in Subsection A ${f or}$ B are present, complete Table 4.0(2)F.
	For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab □ Composite □

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

Table 4.0(2)F - Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

N/A - Flow

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

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

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

Section 1. All POTWs (Instructions Page 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: o Average Daily Flows, in MGD: o Significant IUs - non-categorical: Number of IUs: o Average Daily Flows, in MGD: o Other IUs: Number of IUs: o Average Daily Flows, in MGD: o

B. Treatment plant interference

In the past three yea	rs, has your POTW	/ experienced	treatment pla	ant interference	(see
instructions)?					

□ Yes ⊠ No

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

Click to enter text.

	In the past three years, has your POTW experienced pass through (see instructions)?
	□ Yes ⊠ No
	If yes , identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.
	Click to enter text.
D.	Pretreatment program
L .	Does your POTW have an approved pretreatment program?
	□ Yes ⊠ No
	If yes, complete Section 2 only of this Worksheet.
	Is your POTW required to develop an approved pretreatment program?
	□ Yes ⊠ No
	If yes, complete Section 2.c. and 2.d. only, and skip Section 3.
	If yes, complete Section 2.c. and 2.d. only, and skip Section 3. If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.
Se	If no to either question above, skip Section 2 and complete Section 3 for each significant
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. ection 2. POTWs with Approved Programs or Those Required to
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Ection 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18?
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. **Ction 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) **Substantial modifications** Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? ■ Yes ■ No
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.
	If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user. Cotion 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90) Substantial modifications Have there been any substantial modifications to the approved pretreatment program that have not been submitted to the TCEQ for approval according to 40 CFR §403.18? Yes No If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

C. Treatment plant pass through

		ny non-substantial e not been submitte								
	□ Yes □	No								
	If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.									
	Click to enter text.									
C.	Effluent paramete	ers above the MAL								
Tal		t all parameters meant the last three years								
P	ollutant	Concentration	MAL	Units	Date					
D.	Industrial user in	terruptions	1	1						
		or other IU caused c ass throughs) at you			cluding					
	□ Yes □	No								
		industry, describe nd probable polluta		luding dates, dura	ation, description					
	Click to enter text									

B. Non-substantial modifications

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

	Categorical industrial User (CIU) (instructions Page 90)
A.	General information
	Company Name: <u>N/A – No Industrial Users</u>
	SIC Code: Click to enter text.
	Contact name: <u>Click to enter text.</u>
	Address: Click to enter text.
	City, State, and Zip Code: Click to enter text.
	Telephone number: Click to enter text.
	Email address: Click to enter text.
B.	Process information
	Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).
	Click to enter text.
C.	Product and service information
	Provide a description of the principal product(s) or services performed.
	Click to enter text.
D.	Flow rate information
	See the Instructions for definitions of "process" and "non-process wastewater."
	Process Wastewater:
	Discharge, in gallons/day: Click to enter text.
	Discharge Type: □ Continuous □ Batch □ Intermittent
	Non-Process Wastewater:

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

Discharge Type: ☐ Continuous

Intermittent

Batch

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

E.

F.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

For TCEQ Use Only
Reg. No
Date Received
Date Authorized

N/A - TLAP

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

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

Program ID: Click to enter text.

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

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

□ Owner □ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

5.	Latitude and Longitude, in degrees-minutes-seconds
	Latitude: Click to enter text.
	Longitude: Click to enter text.
	Method of determination (GPS, TOPO, etc.): Click to enter text.
	Attach topographic quadrangle map as attachment A.
6.	Well Information
	Type of Well Construction, select one:
	□ Vertical Injection
	□ Subsurface Fluid Distribution System
	□ Infiltration Gallery
	☐ Temporary Injection Points
	☐ Other, Specify: <u>Click to enter text.</u>
	Number of Injection Wells: <u>Click to enter text.</u>
7.	Purpose
	Detailed Description regarding purpose of Injection System:
	Click to enter text.
	Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)
8.	Water Well Driller/Installer
	Water Well Driller/Installer Name: Click to enter text.
	City, State, and Zip Code: Click to enter text.
	Phone Number: Click to enter text.
	License Number: Click to enter text.
Section	n 2. Proposed Down Hole Design
	a diagram signed and sealed by a licensed engineer as Attachment C.
	0(1) - Down Hole Design Table of Size Setting Seeks Compat /Crosst Uple Weight

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

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

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

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

Section 4.	Site Hydrogeo	logical and Ir	ijection Zone Data
occuon 1.	one my droged	iogical alla li	ijection Zone Data

- 1. Name of Contaminated Aquifer: Click to enter text.
- 2. Receiving Formation Name of Injection Zone: Click to enter text.
- **3.** Well/Trench Total Depth: Click to enter text.
- 4. Surface Elevation: Click to enter text.
- **5.** Depth to Ground Water: <u>Click to enter text.</u>
- **6.** Injection Zone Depth: Click to enter text.
- 7. Injection Zone vertically isolated geologically? \square Yes \square No Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: Click to enter text.

Thickness: Click to enter text.

- **8.** Provide a list of contaminants and the levels (ppm) in contaminated aquifer Attach as Attachment E.
- **9.** Horizontal and Vertical extent of contamination and injection plume Attach as Attachment F.
- **10.** Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc. Attach as Attachment G.
- **11.** Injection Fluid Chemistry in PPM at point of injection Attach as Attachment H.
- 12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.
- **13.** Maximum injection Rate/Volume/Pressure: <u>Click to enter text.</u>
- **14.** Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.
- 15. Injection wells within 1/4 mile radius (attach map as Attachment J): <u>Click to enter text.</u>
- **16.** Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.
- 17. Sampling frequency: Click to enter text.
- **18.** Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

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

Class V Injection Well Designations

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

Attachment A

Core Data Form



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)

_											
☐ New Pern	nit, Registra	ation or Authorization	(Core Data Form	should be	submitted	with the prog	gram application.)				
⊠ Renewal	(Core Data	Form should be submi	tted with the ren	ewal form))		Other				
2. Customer	Reference	Number (if issued)	_	ollow this li	N numbers						
CN 6007411	10			Central R	Registry**	RN 1	101916955				
SECTIO	N II:	Customer	Inform	<u>ation</u>	1						
4. General Cu	istomer In	formation	5. Effective D	ate for Cu	ustomer I	nformation	Updates (mm/do	d/yyyy)			
New Custor	mer		pdate to Custom	er Informa	ntion	Cha	nge in Regulated E	ntity Own	ership		
☐Change in Le	egal Name	(Verifiable with the Te	xas Secretary of	State or Te	xas Compt	roller of Publ	ic Accounts)				
The Custome	r Name su	ıbmitted here may l	be updated au	tomatical	lly based o	on what is c	urrent and activ	e with t	he Texas Sec	retary of State	
		oller of Public Accou									
6. Customer	Legal Nam	ne (If an individual, pri	nt last name first	:: eg: Doe, J	John)		If new Customer	, enter pr	evious Custon	ner below:	
City of Sundow	n										
7. TX SOS/CP	A Filing N	umber	8. TX State Tax ID (11 digits)						10. DUNS applicable)	Number (if	
11. Type of C	ustomor	☐ Corpora	tion			☐ Individ	dual	Partne	ershin: \Box Ge	neral Limited	
		County Federal		Other			roprietorship	Ot	· -	nerai 🗀 Limited	
12. Number o	of Employ	ees					13. Independe	ntly Ow	ned and Op	erated?	
⊠ 0-20 □ 2	21-100] 101-250 251-	500 🗌 501 ar	nd higher			☐ Yes	⊠ No			
14. Customer	Role (Pro	posed or Actual) – as i	t relates to the R	egulated Ei	ntity listed	on this form.	Please check one o	of the foll	owing		
Owner Occupation	al Licensee	Operator Responsible Pa	<u> </u>	er & Opera CP/BSA App			☐ Other	:			
15. Mailing		_									
Address:	PO Box 6	00									
Auuress:	City	Sundown		State	TX	ZIP	79372		ZIP + 4	0600	
16. Country N	Mailing Inf	 formation (if outside	USA)		1	7. E-Mail A	ddress (if applicat	ole)			
					b	illy@sundow	ntx.com				
10 Tolombon	a Numaka:		10	Letopoio			20 Fay I	\	/if amaliantile	1	

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

(806) 229-3131	(() -
------------------	---	-------

SECTION III: Regulated Entity Information

21 Compared Department For	A:4 I.a.f.a	-4: //C/N/ D		-111			1			
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 Namas Inc, LP, or LLC).	ne submitte	ed may be updo	ated, in order to	meet TCEQ Co	ore Data Stand	lards (removal o	f organizatio	nal endings such		
22. Regulated Entity Nam	ne (Enter nam	ne of the site whe	ere the regulated a	tion is taking p	lace.)					
City of Sundown Wastewater	r Treatment P	Plant								
23. Street Address of the Regulated Entity:										
(No PO Boxes)	City		State		ZIP		ZIP + 4			
24. County			1				<u> </u>			
		If no Stre	et Address is pro	ovided, fields	25-28 are requ	ired.				
25. Description to										
Physical Location:	1 mile north	nwest of the inte	rsection of FM 301	and FM 303 in	Hockley County,	Texas.				
26. Nearest City					S	itate	Nea	arest ZIP Code		
Sundown					T	X	793	72		
Latitude/Longitude are re used to supply coordinate	-	-	-		Data Standara	ls. (Geocoding o	f the Physica	l Address may be		
_	es where no	-	-	iin accuracy).	Data Standara		-102.494			
used to supply coordinate	es where no	ne have been p	-	iin accuracy).	Longitude (W)					
used to supply coordinate 27. Latitude (N) In Decima	al: Minutes	ne have been p	provided or to go	ain accuracy).	Longitude (W)	In Decimal:		44		
27. Latitude (N) In Decima	al: Minutes	33.469483	Seconds	28. Degr	Longitude (W)	In Decimal: Minutes	-102.494	Seconds 40		
27. Latitude (N) In Decimal Degrees	Minutes 30.	33.469483 28	Seconds	28. Degr	Longitude (W) ees 102 ary NAICS Code	In Decimal: Minutes	-102.494 29 condary NAI	Seconds 40		
27. Latitude (N) In Decimal Degrees 33 29. Primary SIC Code	Minutes 30.	33.469483 28 Secondary SIC	Seconds	28. Degr	Longitude (W) ees 102 ary NAICS Code	In Decimal: Minutes 32. Se	-102.494 29 condary NAI	Seconds 40		
Degrees 33 29. Primary SIC Code (4 digits)	Minutes 30.	33.469483 28 Secondary SIC	Seconds 10 Code	28. Degr 31. Prima (5 or 6 dig	ees 102 ary NAICS Code	In Decimal: Minutes 32. Se	-102.494 29 condary NAI	Seconds 40		
Degrees 29. Primary SIC Code (4 digits)	Minutes 30. (4 d	33.469483 28 Secondary SIC	Seconds 10 Code	28. Degr 31. Prima (5 or 6 dig	ees 102 ary NAICS Code	In Decimal: Minutes 32. Se	-102.494 29 condary NAI	Seconds 40		
used to supply coordinate 27. Latitude (N) In Decima Degrees 33 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic wastewater treatm	Minutes 30. (4 d	33.469483 28 Secondary SIC	Seconds 10 Code	28. Degr 31. Prima (5 or 6 dig	ees 102 ary NAICS Code	In Decimal: Minutes 32. Se	-102.494 29 condary NAI	Seconds 40		
used to supply coordinate 27. Latitude (N) In Decima Degrees 33 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic wastewater treatm 34. Mailing	Minutes 30. (4 d	33.469483 28 Secondary SIC ligits)	Seconds 10 Code	28. Degr 31. Prima (5 or 6 dig	ees 102 ary NAICS Code	In Decimal: Minutes 32. Se	-102.494 29 condary NAI	Seconds 40		
used to supply coordinate 27. Latitude (N) In Decima Degrees 33 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic wastewater treatm	Minutes 30. (4 d	33.469483 28 Secondary SIC ligits)	Seconds 10 Code	28. Degr 31. Prima (5 or 6 dig	Longitude (W) ees 102 ary NAICS Code its)	In Decimal: Minutes 32. Se	-102.494 29 condary NAI	Seconds 40		
used to supply coordinate 27. Latitude (N) In Decima Degrees 33 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic wastewater treatm 34. Mailing	Minutes 30. (4 d Business of t PO Box 60 City	33.469483 28 Secondary SIC ligits) this entity? (D	Seconds 10 Code State	28. Degr 31. Prima (5 or 6 dig	Longitude (W) ees 102 ary NAICS Code its)	In Decimal: Minutes 32. Se (5 or 6	-102.494 29 condary NAI	Seconds 40 CS Code		
27. Latitude (N) In Decimal Degrees 33 29. Primary SIC Code (4 digits) 4952 33. What is the Primary B Domestic wastewater treatm 34. Mailing Address:	Minutes 30. (4 d Business of t PO Box 60 City	33.469483 28 Secondary SIC ligits) this entity? (D	Seconds 10 Code State	28. Degr 31. Prima (5 or 6 dig	ees 102 ary NAICS Code its) ZIP	In Decimal: Minutes 32. Se (5 or 6	-102.494 29 condary NAI digits)	Seconds 40 CS Code		

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.

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

☐ Dam Safety	Districts	Edwards Aquifer		Emissions Inventory Air	☐ Industrial Hazardous Waste
Municipal Solid Waste	New Source Review Air	OSSF		Petroleum Storage Tank	□ PWS
				1	
Sludge	Storm Water	Title V Air		Tires	Used Oil
☐ Voluntary Cleanup	⊠ Wastewater	☐ Wastewater Agricultu	Ire	Water Rights	Other:
	WQ0011253001			, water rights	
ECTION IV: P	reparer Inf	ormation	1		
40. Name: Paul Krueger,	PE		41. Title:	Civil Engineer	
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address	

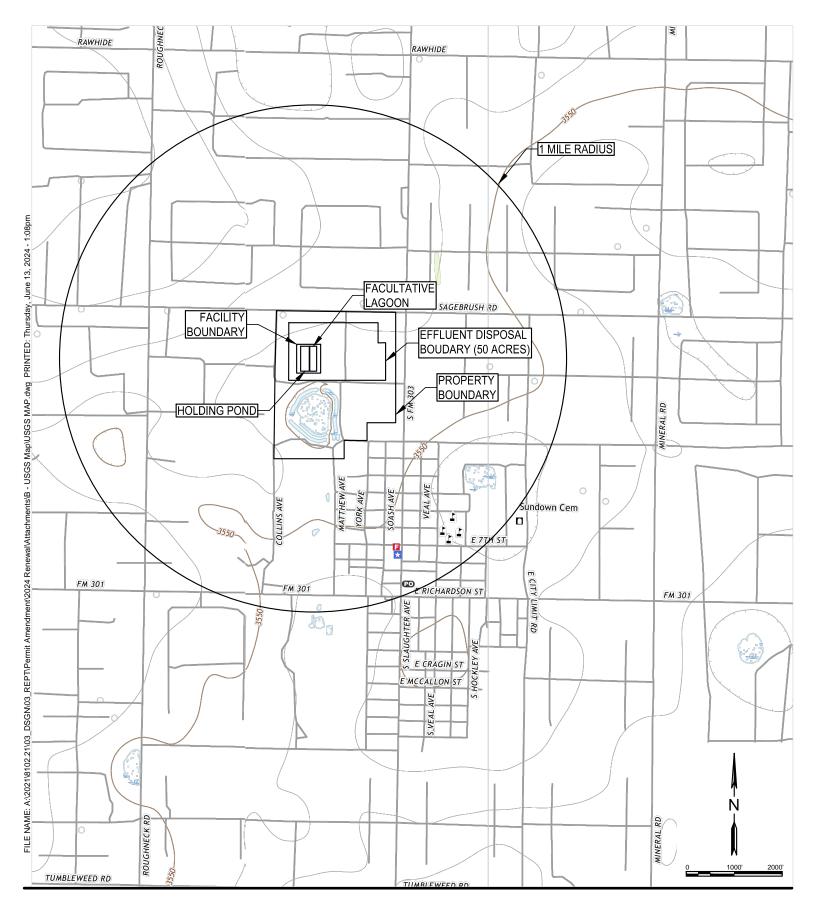
40. Name:	me: Paul Krueger, PE			41. Title:	Civil Engineer
42. Telephone	Number	43. Ext./Code	44. Fax Number	45. E-Mail	Address
(806) 473-2200)		() -	pkrueger@p	arkhill.com

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 Sundown	Job Title:	tle: City Administrator		
Name (In Print):	Billy Hernandez	Phone:	(806) 229-3131		
Signature:	1201	>	Date:	11-1-2024	

TCEQ-10400 (11/22) Page 3 of 3 Attachment B
USGS Map





CITY OF SUNDOWN WWTP

Parkhill.com

PO Box 600 Sundown, TX 79372

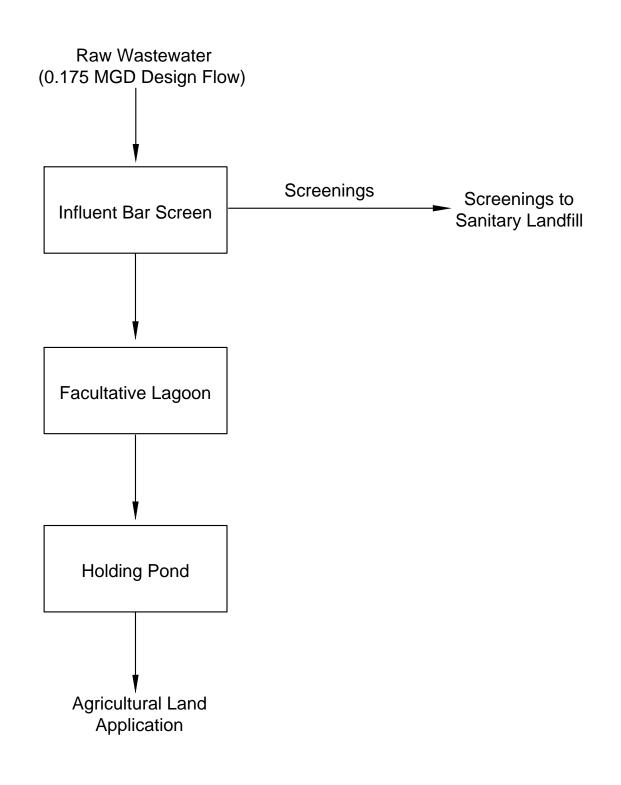
USGS MAP Appendix B

Issue:

Date: 06/13/2024
Project No: 8102.21
Sheet: 1 OF 1

Attachment C

Flow Diagram





Parkhill.com

Parkhill City of Sundown WWTP

Flow Diagram Issue:

Appendix C

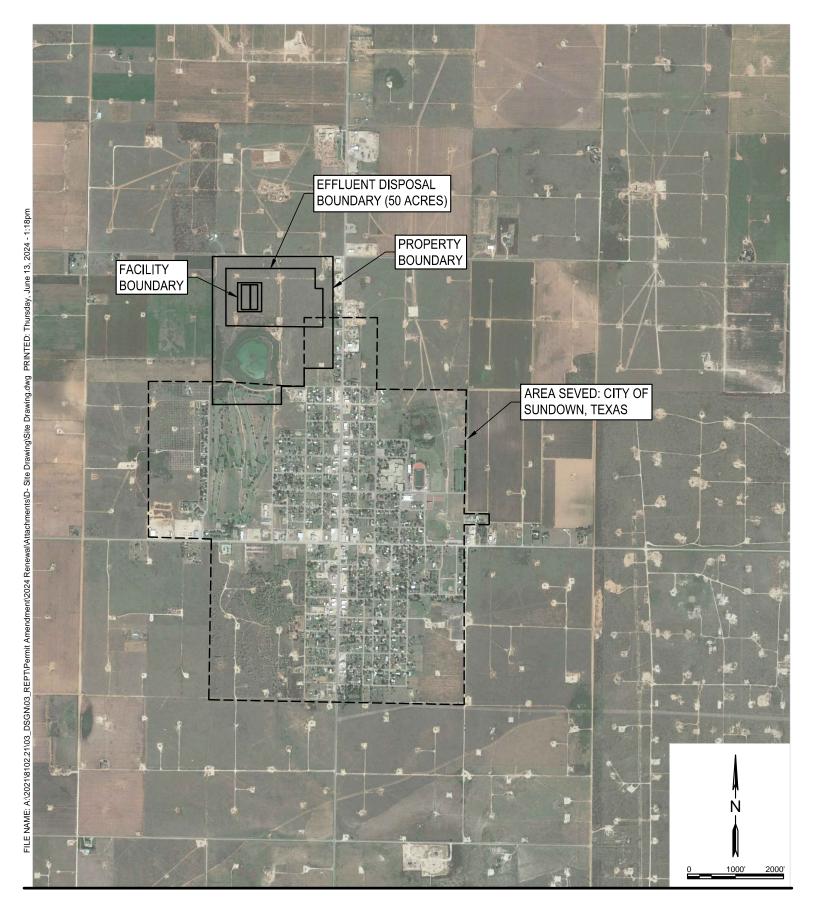
Date: 06/13/2024 Project No:

Sheet: 2 of 2

8102.21

Attachment D

Site Drawing





CITY OF SUNDOWN WWTP

Parkhill.com

PO Box 600 Sundown, TX 79372

SITE DRAWING APPENDIX D

Issue:

Date: 06/13/2024
Project No: 8102.21
Sheet: 1 OF 1

Attachment E

Pollutant Analysis

ANALYTICAL REPORT

PREPARED FOR

Attn: Lee Torrez City of Sundown PO BOX 600 Sundown, Texas 79372

Generated 8/14/2024 5:13:33 PM

JOB DESCRIPTION

Pollutant Analysis Wastewater Plant

JOB NUMBER

820-14493-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



Eurofins Lubbock

Job Notes

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

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

Authorization

Grisma Tul

Generated 8/14/2024 5:13:33 PM

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com (432)704-5440

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD,and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

• Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification # 02015.

VL = field staff performs tests under NJ State certification # 06005.

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334. H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Brianna Tel

Laboratory Job ID: 820-14493-1 SDG: Wastewater Plant

Table of Contents

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	
Chain of Custody	19
Receipt Checklists	22

3

4

Q

9

10

12

Definitions/Glossary

Client: City of Sundown Job ID: 820-14493-1 Project/Site: Pollutant Analysis SDG: Wastewater Plant

Qualifiers

HPLC/IC

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

LOD LOQ

MCL

MDA

MQL

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

MDL ML MPN

MDC Minimum Detectable Concentration (Radiochemistry) Method Detection Limit Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: City of Sundown Project: Pollutant Analysis

Job ID: 820-14493-1 Eurofins Lubbock

Job Narrative 820-14493-1

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

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

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

Receipt

The sample was received on 7/31/2024 12:54 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.1°C.

HPLC/IC

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

General Chemistry

Method 2540D: The Laboratory Control Standard (LCS) was not included in the current batch. Compliance with reference method necessitates the inclusion of the LCS in every batch to ensure accurate and reliable results. All samples were analyzed in accordance with the prescribed procedures and protocols.

Pollutant Analysis (820-14493-1), (MB 860-179908/1), (860-79435-B-3), (860-79435-B-3 DU), (860-79435-B-4) and (860-79435-B-4 DU)

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

Eurofins Lubbock

Job ID: 820-14493-1

Page 6 of 23 8/14/2024

Client Sample Results

Client: City of Sundown

Job ID: 820-14493-1

Project/Site: Pollutant Analysis

SDG: Wastewater Plant

Client Sample ID: Pollutant Analysis

Date Collected: 07/31/24 12:02
Date Received: 07/31/24 12:54

Lab Sample ID: 820-14493-1 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	418		5.00		mg/L			08/01/24 18:55	10
Nitrate as N	<0.100	U	0.100		mg/L			08/01/24 18:48	1
Nitrite as N	<0.100	U	0.100		mg/L			08/01/24 18:48	1
Sulfate	194		0.500		mg/L			08/01/24 18:48	1
Nitrate Nitrite as N	<0.100	U	0.100		mg/L			08/01/24 18:48	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<5.00	U	5.00		mg/L	_		08/07/24 07:47	1
Ammonia (EPA 350.1)	4.37		0.100		mg/L			08/03/24 18:24	1
Nitrogen, Kjeldahl (EPA 351.2)	33.5		2.00		mg/L		08/03/24 17:40	08/06/24 15:20	10
Phosphorus Total (EPA 365.1)	4.54		0.200		mg/L			08/13/24 23:11	10
Phosphorus Total (EPA 365.1)	4.54		0.200		mg/L			08/13/24 23:11	10
Specific Conductance (SM 2510B)	2490		10.0		umho/cm @			08/02/24 15:19	1
					25C				
Total Dissolved Solids (SM 2540C)	1730		20.0		mg/L			08/07/24 13:06	1
Total Suspended Solids (SM 2540D)	28.5		20.0		mg/L			08/06/24 16:45	1
рН (SM 4500 H+ B)	8.6	HF			SU			08/02/24 15:19	1
Temperature (SM 4500 H+ B)	18.7	HF			Degrees C			08/02/24 15:19	1
Carbonaceous Biochemical Oxygen Demand (SM5210B CBOD)	14.4		6.00		mg/L		08/01/24 13:40	08/01/24 14:04	1
Nitrogen, Total (EPA Total Nitrogen)	33.5		0.200		mg/L			08/12/24 13:11	,

8/14/2024

3

5

7

10

Job ID: 820-14493-1

SDG: Wastewater Plant

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-178986/3

Matrix: Water

Analysis Batch: 178986

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			08/01/24 12:52	1
Sulfate	<0.500	U	0.500		mg/L			08/01/24 12:52	1

MD MD

Lab Sample ID: LCS 860-178986/4

Matrix: Water

Analysis Batch: 178986

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

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Chloride 10.0 9.376 94 90 - 110 mg/L Sulfate 10.0 9.897 mg/L 99 90 - 110

Lab Sample ID: LCSD 860-178986/5

Analysis Batch: 178986

Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	10.0	9.369		mg/L		94	90 - 110	0	20
Sulfate	10.0	9.897		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-178986/7

Matrix: Water

Analysis Batch: 178986

		Spike	LLCS	LLCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		0.500	0.4707	J	mg/L		94	50 - 150	
Sulfate		0.500	0.6459		mg/L		129	50 - 150	

Lab Sample ID: MB 860-178987/3

Matrix: Water

Analysis Batch: 178987

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

мв мв

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.100	U	0.100	mg/L			08/01/24 12:52	1
Nitrite as N	<0.100	U	0.100	mg/L			08/01/24 12:52	1
Nitrate Nitrite as N	<0.100	U	0.100	mg/L			08/01/24 12:52	1

Lab Sample ID: LCS 860-178987/4

Matrix: Water

Analysis Batch: 178987

Nitrate as N	<0.100	U	0.100		08/01/24 12:52	1
Nitrite as N	<0.100	U	0.100	mg/L	08/01/24 12:52	1
Nitrate Nitrite as N	<0.100	U	0.100	mg/L	08/01/24 12:52	1

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 90 - 110 Nitrate as N 10.0 9.858 99 mg/L Nitrite as N 10.0 9.897 mg/L 99 90 - 110

Lab Sample ID: LCSD 860-178987/5

Matrix: Water

Analysis Batch: 178987

randing one Dations in cook									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate as N	10.0	9.852		mg/L		99	90 - 110	0	20

Eurofins Lubbock

Page 8 of 23

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Job ID: 820-14493-1 SDG: Wastewater Plant

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-178987/5

Analysis Batch: 178987

Matrix: Water

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrite as N	10.0	9.898		mg/L		99	90 - 110	0	20

Lab Sample ID: LLCS 860-178987/6

Matrix: Water

Analysis Batch: 178987

-	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate as N	0.100	0.1113		mg/L		111	50 - 150	
Nitrite as N	0.100	0.1141		mg/L		114	50 - 150	

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 860-179999/1

Matrix: Water

Analysis Batch: 179999

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
HEM	<5.00 U	5.00	mg/L			08/07/24 07:47	1

Lab Sample ID: LCS 860-179999/2

Matrix: Water

Analysis Batch: 179999

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
HEM	 	40.0	37.20		mg/L		93	78 - 114	

Lab Sample ID: LCSD 860-179999/3

Matrix: Water

Analysis Batch: 1/9999										
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
HEM	40.0	40.00		mg/L		100	78 - 114	7	18	

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 860-179531/16

Matrix: Water

Analysis Batch: 179531

MB MB

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed <0.100 U 0.100 Ammonia mg/L 08/03/24 14:17

Lab Sample ID: MB 860-179531/95

Matrix: Water

Analysis Batch: 179531

Analysis Batom 170001									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.100	U	0.100		mg/L			08/03/24 18:02	1

Eurofins Lubbock

8/14/2024

Page 9 of 23

Job ID: 820-14493-1

SDG: Wastewater Plant

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 860-179531/96 **Matrix: Water**

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

Analysis Batch: 179531

Spike LCS LCS %Rec Analyte Added Result Qualifier %Rec Limits Unit Ammonia 1.00 0.9446 mg/L 94 90 - 110

Client Sample ID: Lab Control Sample Dup

50 - 150

Prep Type: Total/NA

Prep Batch: 179405

Prep Type: Total/NA

Prep Batch: 179405

Prep Type: Total/NA

Matrix: Water

Lab Sample ID: LCSD 860-179531/97

Analysis Batch: 179531

Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Ammonia 1.00 0.9809 mg/L 98 90 - 110

Lab Sample ID: LLCS 860-179531/17 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

0.07660

mg/L

Analysis Batch: 179531

LLCS LLCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits

0.100

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 860-179405/32-A Client Sample ID: Method Blank

Matrix: Water

Ammonia

Analysis Batch: 179904

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Nitrogen, Kjeldahl <0.200 U 0.200 08/03/24 17:40 08/06/24 14:56 mq/L

Lab Sample ID: MB 860-179405/4-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 179904

MB MB

Result Qualifier MDL Dil Fac Analyte RL Unit Prepared Analyzed Nitrogen, Kjeldahl <0.200 U 0.200 08/03/24 17:39 08/06/24 14:43 mg/L

Lab Sample ID: LCS 860-179405/33-A Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 179904

Prep Type: Total/NA Prep Batch: 179405

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit D %Rec 2.00 Nitrogen, Kjeldahl 1.998 mg/L 100 90 - 110

Lab Sample ID: LCSD 860-179405/34-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA Analysis Batch: 179904

Prep Batch: 179405 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Nitrogen, Kjeldahl 2.00 1.996 mg/L 100 90 _ 110

Eurofins Lubbock

Job ID: 820-14493-1 SDG: Wastewater Plant

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCSD 860-179405/7-A

Matrix: Water

Analysis Batch: 179904

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 179405**

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Spike LCSD LCSD Analyte babbA Result Qualifier %Rec Limits RPD Limit Unit Nitrogen, Kjeldahl 2.00 2.052 mg/L 103 90 - 110 3 20

Lab Sample ID: LLCS 860-179405/5-A

Matrix: Water

Analysis Batch: 179904							Prep	Batch: 179405
	Spike	LLCS	LLCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrogen, Kjeldahl	0.200	0.2230		mg/L		111	50 - 150	

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 860-181419/161

Matrix: Water

Analysis Batch: 181419

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Phosphorus Total <0.0200 U 0.0200 mg/L 08/13/24 21:18

Lab Sample ID: LCS 860-181419/162

Matrix: Water

Analysis Batch: 181419

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier U	nit D	%Rec	Limits	
Phosphorus Total	 0.250	0.2550	m	g/L	102	90 - 110	_

Lab Sample ID: LCSD 860-181419/163

Matrix: Water

Analysis Batch: 181419

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	RPD	Limit
Phosphorus Total	0.250	0.2500		mg/L	100	90 - 110	2	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 860-179279/30 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 179279

MR MR

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<10.0	U	10.0		umho/cm @			08/02/24 14:49	1
					25C				

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-180079/1

Matrix: Water

Analysis Batch: 180079

MB MB

Result Qualifier RLMDL Unit Dil Fac Analyte D Prepared Analyzed 5.00 Total Dissolved Solids <5.00 U 08/07/24 13:06 mg/L

Eurofins Lubbock

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

Prep Type: Total/NA

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

Job ID: 820-14493-1

SDG: Wastewater Plant

Prep Type: Total/NA

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 860-180079/2

Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 180079

		Spike	LCS	LCS				%Rec
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids		1000	905.0		ma/L		91	80 - 120

Lab Sample ID: LLCS 860-180079/3

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

Matrix: Water

Analysis Batch: 180079

•	Spike	LLCS	LLCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	5.00	7.000		mg/L		140	50 - 150

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 860-179908/1

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 179908

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.00	U	4.00		mg/L			08/06/24 16:45	1

Method: SM5210B CBOD - Carbonaceous BOD, 5 Day

Lab Sample ID: SCB 860-180096/2

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 180096

SCB SCB

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen	0.9120		0.0000020		mg/L			08/01/24 13:41	1
Demand			0						

Lab Sample ID: USB 860-180096/1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 180096

USB USB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonaceous Biochemical Oxygen	<0.00000200	U	0.0000020		mg/L		 	08/01/24 13:40	1
Demand			0						

Lab Sample ID: LCS 860-180096/3

Client Sample ID: Lab Control Sample

Matrix: Water Analysis Batch: 180096

LCS LCS %Rec Spike Added Result Qualifier Unit %Rec Limits Carbonaceous Biochemical 198 190.0 mg/L 96 85 - 115

Oxygen Demand

QC Association Summary

Client: City of Sundown Project/Site: Pollutant Analysis Job ID: 820-14493-1 SDG: Wastewater Plant

9

HPLC/IC

Analysis Batch: 178986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	300.0	
820-14493-1	Pollutant Analysis	Total/NA	Water	300.0	
MB 860-178986/3	Method Blank	Total/NA	Water	300.0	
LCS 860-178986/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-178986/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-178986/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 178987

Lab Sample ID 820-14493-1	Client Sample ID Pollutant Analysis	Prep Type Total/NA	Matrix Water	Method 300.0	Prep Batch
MB 860-178987/3	Method Blank	Total/NA	Water	300.0	
LCS 860-178987/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-178987/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-178987/6	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry

Prep Batch: 179027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	BOD Prep	

Analysis Batch: 179279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	SM 2510B	-: · -
MB 860-179279/30	Method Blank	Total/NA	Water	SM 2510B	
LCS 860-179279/31	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 860-179279/32	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
LLCS 860-179279/34	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 179280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 179405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	351.2	
MB 860-179405/32-A	Method Blank	Total/NA	Water	351.2	
MB 860-179405/4-A	Method Blank	Total/NA	Water	351.2	
LCS 860-179405/33-A	Lab Control Sample	Total/NA	Water	351.2	
LCSD 860-179405/34-A	Lab Control Sample Dup	Total/NA	Water	351.2	
LCSD 860-179405/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	
LLCS 860-179405/5-A	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 179531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	350.1	
MB 860-179531/16	Method Blank	Total/NA	Water	350.1	
MB 860-179531/95	Method Blank	Total/NA	Water	350.1	
LCS 860-179531/96	Lab Control Sample	Total/NA	Water	350.1	
LCSD 860-179531/97	Lab Control Sample Dup	Total/NA	Water	350.1	
LLCS 860-179531/17	Lab Control Sample	Total/NA	Water	350.1	

Eurofins Lubbock

Page 13 of 23

8/14/2024

QC Association Summary

Client: City of Sundown

Job ID: 820-14493-1

Project/Site: Pollutant Analysis

SDG: Wastewater Plant

General Chemistry

Analysis Batch: 179904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	351.2	179405
MB 860-179405/32-A	Method Blank	Total/NA	Water	351.2	179405
MB 860-179405/4-A	Method Blank	Total/NA	Water	351.2	179405
LCS 860-179405/33-A	Lab Control Sample	Total/NA	Water	351.2	179405
LCSD 860-179405/34-A	Lab Control Sample Dup	Total/NA	Water	351.2	179405
LCSD 860-179405/7-A	Lab Control Sample Dup	Total/NA	Water	351.2	179405
LLCS 860-179405/5-A	Lab Control Sample	Total/NA	Water	351.2	179405

Analysis Batch: 179908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	SM 2540D	
MB 860-179908/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 179999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	1664B	
MB 860-179999/1	Method Blank	Total/NA	Water	1664B	
LCS 860-179999/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 860-179999/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 180079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	SM 2540C	
MB 860-180079/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-180079/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LLCS 860-180079/3	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 180087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	Total Nitrogen	

Analysis Batch: 180096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	SM5210B CBOD	179027
SCB 860-180096/2	Method Blank	Total/NA	Water	SM5210B CBOD	
USB 860-180096/1	Method Blank	Total/NA	Water	SM5210B CBOD	
LCS 860-180096/3	Lab Control Sample	Total/NA	Water	SM5210B CBOD	

Analysis Batch: 181419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-14493-1	Pollutant Analysis	Total/NA	Water	365.1	
MB 860-181419/161	Method Blank	Total/NA	Water	365.1	
LCS 860-181419/162	Lab Control Sample	Total/NA	Water	365.1	
LCSD 860-181419/163	Lab Control Sample Dup	Total/NA	Water	365.1	

Eurofins Lubbock

8/14/2024

3

4

6

Q

10

11

12

Lab Chronicle

Client: City of Sundown

Job ID: 820-14493-1

Project/Site: Pollutant Analysis

SDG: Wastewater Plant

Client Sample ID: Pollutant Analysis

Date Collected: 07/31/24 12:02

Date Received: 07/31/24 12:54

Matrix: Water

Lab Sample ID: 820-14493-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			178986	08/01/24 18:48	YG	EET HOU
Total/NA	Analysis	300.0		1			178987	08/01/24 18:48	YG	EET HOU
Total/NA	Analysis	300.0		10			178986	08/01/24 18:55	YG	EET HOU
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	179999	08/07/24 07:47	ТВ	EET HOU
Total/NA	Analysis	350.1		1	10 mL	10 mL	179531	08/03/24 18:24	BW	EET HOU
Total/NA	Prep	351.2			20 mL	20 mL	179405	08/03/24 17:40	MLEI	EET HOU
Total/NA	Analysis	351.2		10			179904	08/06/24 15:20	HN	EET HOU
Total/NA	Analysis	365.1		10	10 mL	10 mL	181419	08/13/24 23:11	BW	EET HOU
Total/NA	Analysis	SM 2510B		1			179279	08/02/24 15:19	MR	EET HOU
Total/NA	Analysis	SM 2540C		1	50 mL	200 mL	180079	08/07/24 13:06	TR	EET HOU
Total/NA	Analysis	SM 2540D		1	200 mL	1000 mL	179908	08/06/24 16:45	NR	EET HOU
Total/NA	Analysis	SM 4500 H+ B		1			179280	08/02/24 15:19	MR	EET HOU
Total/NA	Prep	BOD Prep					179027	08/01/24 13:40	ALL	EET HOU
Total/NA	Analysis	SM5210B CBOD		1	100 mL	300 mL	180096	08/01/24 14:04	ALL	EET HOU
Total/NA	Analysis	Total Nitrogen		1			180087	08/12/24 13:11	MC	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

2

4

5

8

9

10

12

Accreditation/Certification Summary

Client: City of Sundown

Job ID: 820-14493-1

Project/Site: Pollutant Analysis

SDG: Wastewater Plant

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	06-30-25
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-25
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

3

4

5

7

ŏ

9

4 4

Method Summary

Client: City of Sundown Project/Site: Pollutant Analysis Job ID: 820-14493-1

SDG: Wastewater Plant

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET HOU
1664B	HEM and SGT-HEM	1664B	EET HOU
350.1	Nitrogen, Ammonia	EPA	EET HOU
351.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
865.1	Phosphorus, Total	EPA	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
M 2540D	Solids, Total Suspended (TSS)	SM	EET HOU
SM 4500 H+ B	рН	SM	EET HOU
M5210B CBOD	Carbonaceous BOD, 5 Day	SM	EET HOU
otal Nitrogen	Nitrogen, Total	EPA	EET HOU
51.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
OD Prep	Preparation, BOD	SM	EET HOU

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: City of Sundown Project/Site: Pollutant Analysis Job ID: 820-14493-1

SDG: Wastewater Plant

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-14493-1	Pollutant Analysis	Water	07/31/24 12:02	07/31/24 12:54

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) \$09-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

ins

Loc: 820 **14493**

Xenco

o

Page

www.xenco.com

820-14493 Chain of Custody

Project Manager:	1 orrez	Bill to: (if different)	MHM: Silvia Garza	Work Order Comments
Company Name:	of Sandown	Company Name:	City of Surdousn	Program: UST/PST
Address: 709	S. Slaughtor	Address:	P.O. Box 600	State of Project:
City, State ZIP: Sur, AUCOW,		City, State ZIP:	Sundawn, TR. 19572	Reporting: Level II
Phone: 800-3	800-229-3131 Em	Email: (60 54	er & sundown + com	Deliverables: EDD \rightarrow ADaPT \rightarrow Other:
Project Name: Bolluta	Pollutant Anglysis	Turn Around	ANALYSIS REQUEST	EST Preservative Codes
Project Number:	Noutine	Rush	Pres. Code	None: NO DI Water: H ₂ O
Project Location: Wastow, ater	Jater Plant Due Date:	ë		Cool: Cool MeOH: Me
er's Name: Lep-	4	the day received by	1	
PO #:	the lab, ii	the lab, ir received by 4:30pm	SI	H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT Te	U	Yes No	and the state of t	H ₃ PO ₄ ; HP
Samples Received Intact:	Yes No Thermometer ID:	ナンノブ	Op	NaHSO 4: NABIS
Cooler Custody Seals:	No Ny Correction Factor:	70,5		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals: Yes	No N/A Temperature Reading:	6.5		Zn Acetate+NaOH: Zn
Total Containers:	Corrected Temperature:	e: 6 c /	9	NaOH+Ascorbic Acid: SAPC
Sample Identification	All Addring Sampled Sampled	Depth Grab/	# of Cont	Sample Comments
Pollutant May 1/5:5	5 1-31-24 1202		7	
Total 200.7 / 6010 200	200.8 / 6020: 8RCRA 13PPM	Texas 11	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010 : 8RCR	6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	ie Ag TI U Hg:1631/245.1/7470/7471

of Eurofins Xenco. A minimum charge of \$58.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously progotated Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control

Relinquished by: (Signature)	Recgived by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
The Man	Ted Met Sun All Des	100 1-31-24 1254	2		
3			4		
S			9		
	Memory and the second s			ď	Devised Date: 08/25/2020 Bearing

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	11				
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
/					1
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
			-		
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					

Chain of Custody Record

Custody Seals Infact Custody Seal No. Δ Yes Δ No	Relinquished by:	Relinquished by:	Reinquished by:	Empty Kit Relinquished by	Deliverable Requested: I II, III, IV Other (specify)	Possible Hazard Identification Unconfirmed	Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compilance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.								Pollutant Analysis (820-14493-1)		Sample Identification - Client ID (Lab ID)	Site:	Project Name: Pollutant Analysis	Email:	Phone: 281-240-4200(Tel)	State, Zp: TX, 77477	City: Stafford	Address: 4145 Greenbriar Dr	Company: Eurofins Environment Testing South Centr	i .	Client Information (Sub Contract Lab)	Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 806-794-1296
	Date/Time:	Date/Time:	15/Jethated		Primary Deliverable Rank: 2		nment Testing South Centra ted above for analysis/tests/r th Central, LLC attention inc								7/31/24	X	Sample Date	SSOW#	Project #: 82000251	WO#	**		TAT Requested (days):	Due Date Requested: 8/7/2024		Phone:	Sampler	C
		1	401	Date:	ble Rank: 2		I, LLC places natrix being a nediately. If a								12:02 Central	X	Sample Time						/s):	H+				hain
			1700		``		the ownership nalyzed, the sali requested as									Preserva	Sample Type (C=comp, G=grab)											of Cus
,	Company	Company	Company				of method, an amples must b coreditations a								Water	Preservation Code:	Matrix (Wester, Secold, Characteroil									E-Mail: Briant	Lab PM: Teel, B	Chain of Custody Record
	70	20	20	Time:	Spec	Sam □	alyte & acon e shipped ba re current to										Field Filtered Perform MS/I	nemica success	Sanosanat Salid	SW/Sween	0)				Accreditations Required (See NELAP Texas	E-Mail: Brianna.Teel@et.eurofinsus	Lab PM: Teel, Brianna	Recor
Cooler Temperature(s)	Received by:	Received by:	Received by:		Special Instructions	Sample Disposal (editation ack to the date, rea	-	H	-		{			×		2540D 350.1/ Ammoni	a							Texas	@et.eu		Q.
mperat	š	Ϋ́	by:		ructio	le Disposal (Retum To Clie	complia Eurofi um the								×		300_ORGFMS/	(MOD)	Custo	m List					lumed (3	rofins		
No.					ns/QC	I (A fee Client	ance up ns Env signed	-							×		300_ORGFM_2							₽	see note):			
and					QC Requirements:	ee m	oon ou ironme i Chain	_		\dashv	_				×		351.2/351.2_Pn					(TKN)		Analysis) (§)]3		
and Other Remarks:	1	/			uirem	may be assessed if samples Disposal By Lab	r subco	-		_}	\dashv		 -	_	×		365.1/365_Prep SM4500_H+/ pl				15 P							
eman					ents:	Disp	ing So stody a	-	\vdash	\dashv		-			×		2540C_Cated	· ·						Requested		급监	ନ୍ଧୁ	73.3
9.				Meth		assessed if san Disposal By Lab	aborat uth Cer tasting	<u> </u>		\neg	寸	_			×		2510B/ Specific	c Cond	uctanc	9				sted		State of Origin: Texas	Carrier Tracking No(s):	12.00
72				lod of s		if sa 3y La	ories ntral, L to said								×		1664B_NP/ HE	M Only] g	cking	
"	Date/Time: イールへ	Date/Time:	Date/Time:	Method of Shipment		mple	This sa LC lab								×		Nitrogen,Total							[Ì		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
から	ا ا ا	íme:	ine:	ੜੇ		Sare ∏e	mple s bratory fiance	-	\sqcup		_	_	 		×		SM5210B_CBC				OD			1				
ابرا	ı j					retai.	hipme or oth to Euro								×	V	365.1_NP/ (MO Total Number				70							
3.00	ertra					are retained longer than 1 i	nt is forwarded under charinstructions will be pro sfinstructions will be pro sfins Environment Testin			Š.								Other	But Cart with	•				Preservation Codes:	320-14493-1	Page: Page 1 of 1	COC No: 820-9682.1	💸 eurofins
Ver 04/02/2024	Company	Company	Company			month) Months	ain-of-custody. If the wided. Any changes to g South Central, LLC.										Special Instructions/Note:	Yes, and the second sec						es:				Environment Testing

Login Sample Receipt Checklist

Client: City of Sundown

Job Number: 820-14493-1

SDG Number: Wastewater Plant

List Source: Eurofins Lubbock

Login Number: 14493 List Number: 1 Creator: Lee, Randell

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

3

4

6

Q

9

11

12

Login Sample Receipt Checklist

Client: City of Sundown Job Number: 820-14493-1

SDG Number: Wastewater Plant

Login Number: 14493 **List Source: Eurofins Houston** List Number: 2

List Creation: 08/01/24 11:08 AM

Creator: Grandits, Corey

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

<6mm (1/4").

Attachment F

Annual Cropping Plan

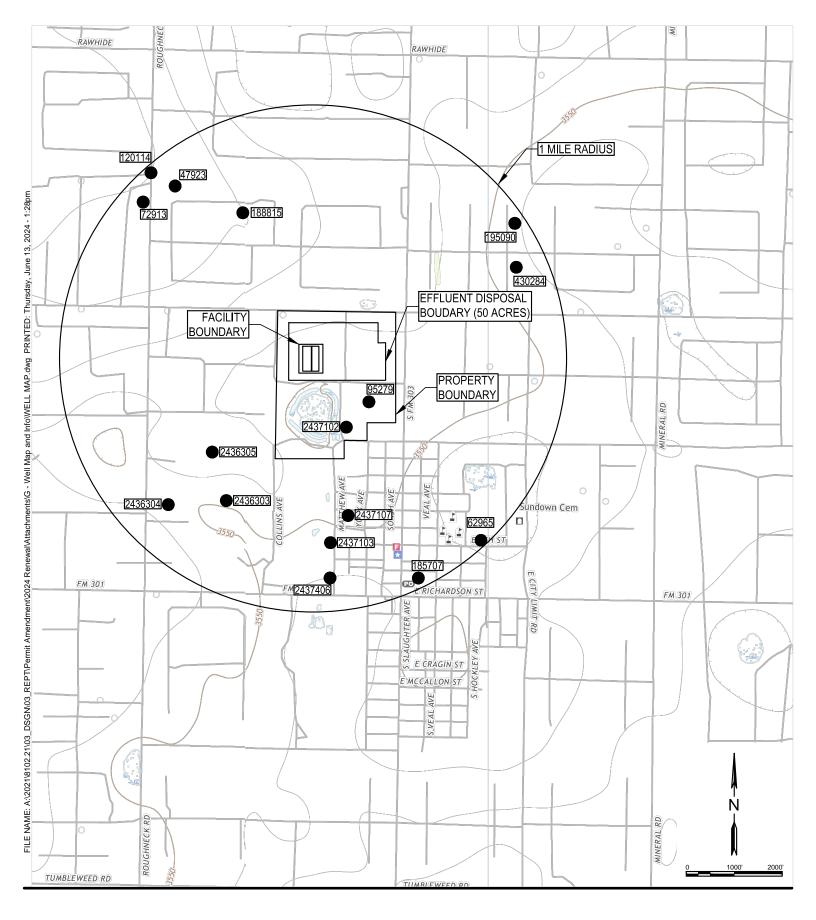
Attachment F Annual Cropping Plan

- A. See the Attached Soil Map (Attachment I)
- B. The Native Grasses & Jose Wheatgrass with account for both the cool and warm season plant species.
- C. N/A
- D. Typical Annual Growing Season is as follows:

Month	Native Grasses & Jose Wheatgrass
January	X
February	X
March	X
April	X
May	X
June	X
July	X
August	X
September	X
October	X
November	X
December	X

- E. The City of Sundown will provide the essential nutrients required to keep the crop in good health which includes Nitrogen, Phosphorus, Potassium, Sulfur, Magnesium, Calcium, Zinc and Boron.
- F. There is no minimum harvest height. Crops will be harvested as-needed.
- G. The crop will not need any supplementary watering requirements.
- H. According to table 3 of TAC 309.20, Wheat Grasses are a relatively salt tolerant crop with 6.0-8.0 millimhos/cm @ 25° C.
- I. The land application area will be mowed as necessary.
- J. N/A

Attachment G Well Map and Information





CITY OF SUNDOWN WWTP

Parkhill.com

PO Box 600 Sundown, TX 79372

WELL MAP Appendix G

Issue:

Date: 06/13/2024 Project No: 8102.21 Sheet: 1 OF 1

STATE OF TEXAS WELL REPORT for Tracking #47923

Owner Well #: Owner: No Data **Delvin Webber**

Address: **Box 73** Grid #: 24-36-3

Latitude: 33° 28' 49" N 3236 West Hwy 114

Well Location: Levelland, TX 79379 Longitude: 102° 30' 20" W

Well County: **Hockley** Elevation: No Data

Type of Work: **New Well** Proposed Use: **Domestic**

Drilling Start Date: 10/28/2003 Drilling End Date: 10/29/2003

White Face, TX 79379

Diameter (in.) Top Depth (ft.) Bottom Depth (ft.) Borehole: 8 0 167

Mud (Hydraulic) Rotary **Drilling Method:**

Borehole Completion: **Filter Packed**

Top Depth (ft.) Bottom Depth (ft.) Filter Material Size Filter Pack Intervals: 15 152 Gravel

Top Depth (ft.) Bottom Depth (ft.) Description (number of sacks & material) Annular Seal Data: 15 27

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

Sealed By: Unknown Distance to Septic Field or other

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Slab Installed Surface Completion:

Water Level: No Data

Packers: No Data

Type of Pump: **Submersible**

Well Tests: No Test Data Specified Water Quality:

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

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which

contained injurious constituents?: No

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

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

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

Company Information: Panhandle Pump

850 North State Hwy 1490 Levelland, TX 79336

Driller Name: Elton Spears License Number: 4475

Comments: LCS\$

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	Top Soil
5	15	Caliche
15	40	Brown Clay
40	90	Sand Stone
90	110	Rock
110	120	Brown Clay
120	162	Sand and Gravel
162	167	Blue Clay

Dia. (in.) New/Used	Туре	Setting From/To (ft.)
5 New Plastic 1 1	67	
5 New Plastic 12	B 167	

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

Texas Department of Licensing and Regulation P.O. Box 12157 Austin, TX 78711 (512) 334-5540 STATE OF TEXAS WELL REPORT for Tracking #62965

Owner: R & J FARMS Owner Well #: 6360

Address: **P.O. BOX 936** Grid #: **24-37-1**

LEVELLAND, TX 79336

Latitude: 33° 27' 32" N

Well Location: No Data

Longitude: 102° 28' 45" W

Well County: Hockley Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 6/27/2005 Drilling End Date: 7/1/2005

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

 Borehole:
 14.75
 0
 25

12.25 25 195

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

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

Filter Pack Intervals: 15 195 Gravel GRADE 4

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

3/4 YD CEMENT

Seal Method: **Poured** Distance to Property Line (ft.): **231**

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

concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): No Data

Method of Verification: HPUWD

Surface Completion: Surface Sleeve Installed

Water Level: 151 ft. below land surface on 2005-07-11 Measurement Method: Unknown

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

No Data

Water Type

No Data

Chemical Analysis Made: No

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

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

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

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

Company Information: SUBMERSIBLE PUMP SPECIALISTS

8104 WEST 19TH LUBBOCK, TX 79407

Driller Name: LYNDALL COUCH License Number: 54256

Apprentice Name: JOE KNOX Apprentice Number: 1804

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.) Bottom (ft.) Description 0 5 **TOP SOIL** 5 23 **CALICHE & SANDY CLAY** 23 150 **SANDSTONE & SANDY CLAY** 150 160 **FINE SAND** 194 **COARSE SAND & GRAVEL** 160 194 195 **BLUE CLAY**

Casing: BLANK PIPE & WELL SCREEN DATA

8 NEW SLOTTE	PVC 1	155-195 .200	
8 NEW BLANK P			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #72913

Owner: BILLY CARTER Owner Well #: 2005-1

Address: **ROUTE 5, BOX 160** Grid #: **24-36-3**

Levelland, TX 79336

Latitude: 33° 28' 45" N

Well Location: No Data

Longitude: 102° 30' 26" W

Well County: Hockley Elevation: No Data

Type of Work: New Well Proposed Use: Stock

Drilling Start Date: 11/23/2005 Drilling End Date: 11/25/2005

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

 Borehole:
 9.875
 0
 20

8.75 20 234

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

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

Filter Pack Intervals: 15 234 Gravel 00

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

3/4 YD CEMENT

Seal Method: **Poured** Distance to Property Line (ft.): **125**

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

concentrated contamination (ft.): NONE

Distance to Septic Tank (ft.): No Data

Method of Verification: **OWNER**

Surface Completion: Surface Sleeve Installed

Water Level: 186 ft. below land surface on 2005-12-20 Measurement Method: Unknown

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

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

Chemical Analysis Made: No

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

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

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

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

Company Information: SUBMERSIBLE PUMP SPECIALISTS

BOX 1625

LEVELLAND, TX 79336

Driller Name: LYNDALL COUCH License Number: 54256

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	TOP SOIL
3	16	CALICHE & SANDY CLAY
16	192	SANDSTONE & SANDY CLAY
192	227	SAND & GRAVEL
227	229	SANDY YELLOW CLAY
229	234	BLUE CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)	
5 NEW	SLOTTED	PVC 1	94-234 .200	
5 NEW BLANK PVC +2-234 .160				

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #95279

Owner: Alfred Hernandez Owner Well #: No Data

Address: **P.O. Box 92** Grid #: **24-37-1**

Sundown, TX 79372

Well Location: Sundown TX

Latitude: 33° 28' 01" N

Sundown, TX 79372 Longitude: 102° 29' 30" W

Well County: Hockley Elevation: No Data

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 9/1/2006 Drilling End Date: 9/1/2006

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

 Borehole:
 8
 0
 214

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Straight Wall

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

9

Seal Method: hand Distance to Property Line (ft.): 150

Sealed By: **Driller**Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Ocatio Tool ((1) No Bata

Distance to Septic Tank (ft.): No Data

Method of Verification: driller

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: Bailer Yield: 10 GPM with 10 ft. drawdown after 1 hours

Water Quality: Strata Depth (ft.) Water Type

167-205 good

Chemical Analysis Made: No

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

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

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

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

Company Information: Jack Spears Drilling

HCR 1 Box 5 Plains, TX 79355

Driller Name: Jack Spears License Number: 533

Apprentice Name: Jake Klassen Apprentice Number: 1992

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	topsoil
5	31	red clay
31	63	white clay
63	92	brown sandy clay
167	205	sand and gravel
205	213	yellow clay
213	214	blue clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)	
5in new	pvc 200#	pref 1	74-214 slotted .033	

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #120114

Owner: Eddie Carter Owner Well #: No Data

Address: **PO Box 574** Grid #: **24-36-3**

Sundown, TX 79372

Well Location: Latitude: 33° 29' 01" N

Sundown, TX 79372 Longitude: 102° 30' 24" W

Well County: Hockley Elevation: No Data

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 7/24/2007 Drilling End Date: 7/24/2007

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

 Borehole:
 8
 0
 224

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

Filter Pack Intervals:

Top Depth (ft.)

Bottom Depth (ft.)

Filter Material

Size

15

224

Gravel

1\4 in

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

7

Seal Method: hand Distance to Property Line (ft.): 150

Sealed By: **Driller**Distance to Septic Field or other concentrated contamination (ft.): **150**

Distance to Septic Tank (ft.): No Data

Method of Verification: driller

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: Bailer Yield: 10 GPM with 10 ft. drawdown after 1 hours

Water Quality: Strata Depth (ft.) Water Type

Mater Quality: good

Chemical Analysis Made: No

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

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

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

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

Company Information: Jack Spears Drilling

HCR 1 Box 5 Plains, TX 79355

Driller Name: Jack Spears License Number: 533

Apprentice Name: Jake Klassen Apprentice Number: 56122

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	topsoil
5	13	cleache
13	66	brown clay
66	142	sand
142	151	brown clay & rock
151	166	brown sandy clay
166	204	sand & gravel
204	216	brown sandy clay
216	221	white clay
221	224	yellow clay

Dia. (in.) N	lew/Used	Туре	Setting From/To (ft.)
5 in pvc	new 200#	pref. fi	rom 184-224 .033 slotted

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #185707

Owner: TOWN & COUNTRY FOOD STORES Owner Well #: SB-6

Address: **4525 AYERS ST** Grid #: **24-37-4**

Well Location: 103 E RICHARDSON Latitude: 33° 27' 24" N

SUNDOWN, TX 79372 Longitude: 102° 29' 19" W

Well County: Hockley Elevation: No Data

Plugged Within 48 Hours

This well has been plugged

Plugging Report Tracking #124647

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

Drilling Start Date: 6/24/2009 Drilling End Date: 6/24/2009

CORPUS CHRISTI, TX 78415

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

 Borehole:
 7.875
 0
 10

Drilling Method: Hollow Stem Auger

Borehole Completion: Open Hole

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

1.5 Cement

1.5 bentonite

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

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

concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

No Data

Water Type

fresh

Chemical Analysis Made: No

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

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

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

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

Company Information: Talon Drilling, LP

921 N Bivins

Amarillo, TX 79107

Driller Name: John Talbot License Number: 3180

Comments: No Data

moisture, hard, low plasticity

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description

O to 5 7.5yr-4/4, brown fine sandy clay, no moisture, hard, low plasticity

Dia. (in.) New/Used Type Setting From/To (ft.)

No Data

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #188815

Owner: **Kurt Mckee** Owner Well #: No Data

Address:

PO Box 561

24-37-1

Sundown, TX 79372

33° 28' 41" N

Well Location:

1 Mile north & 1\2 west

Sundown TX, TX 79372

Longitude:

Grid #:

Latitude:

102° 29' 59" W

Well County:

Hockley

Elevation:

No Data

Type of Work:

New Well

Proposed Use:

Domestic

Drilling Start Date: 7/27/2009

Drilling End Date: 7/27/2009

Borehole:

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
8	0	210

Drilling Method:

Mud (Hydraulic) Rotary

Borehole Completion:

Filter Packed

Filter Pack Intervals:

Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
10	210	Gravel	3\16

Annula	ar Sea	I Data:

Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
0	10	12

Seal Method: Hand

Distance to Property Line (ft.): 150

Sealed By: Driller

Distance to Septic Field or other concentrated contamination (ft.): 150

Distance to Septic Tank (ft.): No Data

Method of Verification: Driller

Surface Completion:

Surface Sleeve Installed

Water Level:

No Data

Packers:

No Data

Type of Pump:

No Data

Well Tests:

No Test Data Specified

Water Quality: No Da

Strata Depth (ft.) Water Type

No Data Good

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which

contained injurious constituents?: No

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

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

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

Company Information: Jack Spears Drilling

1211 East FM 1585 Lubbock, TX 79423

Driller Name: Jack Spears License Number: 533

Apprentice Name: Jake Klassen Apprentice Number: 56122

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	3	top soil
3	14	caliche
14	37	brown sandy clay
37	62	sand
62	76	brown clay & rock
76	156	sand
156	175	sand & brown clay
175	198	sand
198	208	sand & small gravel
208	210	blue clay

Casing: BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)	
	C new 200 1\8 in slot		ng Pref from 170-210 ft.	

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #195090

Owner: Newsom, Steve Owner Well #: No Data

Address: **3573 Horseshoe Rd.** Grid #: **24-37-1**

Levelland, TX 79336

Well Location: E of CR 303 1mi. N of Sundown

Levelland, TX

Latitude:

Longitude: 102° 28' 42" W

33° 28' 44" N

Well County: Hockley Elevation: No Data

Type of Work: New Well Proposed Use: Irrigation

Drilling Start Date: 6/15/2006 Drilling End Date: 6/15/2006

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

 Borehole:
 15
 0
 200

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Straight Wall

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

15

Seal Method: **Hand** Distance to Property Line (ft.): **150**

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

concentrated contamination (ft.): 150

Distance to Septic Tank (ft.): No Data

Method of Verification: Driller

Surface Completion: Unknown

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

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

Chemical Analysis Made: No

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

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

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

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

Company Information: Jack Spears

HCR 1 Box 5 Plains, TX 79355

Driller Name: Jack Spears License Number: 533

Apprentice Name: Jake Klassen Apprentice Number: 56122

Comments: ^EO

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	4	topsoil
4	16	caliche
16	42	brown sandy clay
42	87	sand
87	92	rock
92	96	sand
96	138	brown sandy clay
138	182	sand & gravel
182	187	yellow clay
187	226	blue clay
226	273	black clay

Casing: BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used	Type	Setting From/To (ft.)
10 3/4" New Stee	l 0'-200)'
10 3/4" New Slott	ed 140)'-160'

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #430284

Latitude:

Owner: Steve Newsome Owner Well #: 1

Address: 3440 Sagebrush RD Grid #: 24-37-1

Levelland, TX 79336

Well Location: 3440 Sagebrush RD

Levelland, TX 79336

4000 001 44 011 18

Longitude: 102° 28' 41.3" W

33° 28' 29.64" N

Well County: Hockley Elevation: No Data

Type of Work: New Well Proposed Use: Domestic

Drilling Start Date: 8/19/2016 Drilling End Date: 8/19/2016

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

 Borehole:
 12
 0
 183

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed

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

Filter Pack Intervals: 123 183 Gravel #5

Annular Seal Data:

Top Depth (ft.)

Bottom Depth (ft.)

Description (number of sacks & material)

Concrete 2 Bags/Sacks

4 123 Bentonite 31 Bags/Sacks

Seal Method: Slurry Distance to Property Line (ft.): 100+

Sealed By: Driller Distance to Septic Field or other

concentrated contamination (ft.): 100+

Distance to Septic Tank (ft.): 100+

Method of Verification: owner

Surface Completion: Surface Sleeve Installed Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

Water Quality:

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

Chemical Analysis Made: No

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

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

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

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

Company Information: Weston Drilling Inc

1622 Cactus Dr

Levelland, TX 79336

Driller Name: Jonathan Pool License Number: 59742

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing: BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	6	Top Soil
5	17	Caliche
17	80	Sand/ sandy clay Layers
80	86	Hard Rock
86	142	Sand
142	180	Sand / Gravel
180	183	Yellow/ Blue Clay

Dla (in.)	Туре	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
8	Blank	New Plastic (PVC)	160	0	143
8	Perforated or Slotted	New Plastic (PVC)	160 0.085	143	183

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2436303
County	Hockley
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	33.461389
Latitude (degrees minutes seconds)	33° 27' 41" N
Longitude (decimal degrees)	-102.501112
Longitude (degrees minutes seconds)	102° 30' 04" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3550
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Texaco, Inc.
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1989
Last Update Date	

Remarks			
Casing - No Data			
Well Tests - No Data			
Lithology - No Data			
Annular Seal Range - No Data			
Borehole - No Data	Plugged Back	- No Data	
Filter Pack - No Data		Packers - No Data	





Water Level Measurements	
No Data Available	





Water Quality Analysis

Sample Date: 5/24/1974 Sample Time: 0000 Sample Number: 1 Collection Entity: Groundwater Conservation District

(general)

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		251	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		306	mg/L	
00910	CALCIUM (MG/L)		51	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		76	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		345	mg/L	
00920	MAGNESIUM (MG/L)		53	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.4	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.9	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		39	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.08		
00932	SODIUM, CALCULATED, PERCENT		22	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		46	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		821	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		95	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		513	mg/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2436304			
County	Hockley			
River Basin	Colorado			
Groundwater Management Area	2			
Regional Water Planning Area	O - Llano Estacado			
Groundwater Conservation District	High Plains UWCD #1			
Latitude (decimal degrees)	33.461112			
Latitude (degrees minutes seconds)	33° 27' 40" N			
Longitude (decimal degrees)	-102.505001			
Longitude (degrees minutes seconds)	102° 30' 18" W			
Coordinate Source	+/- 1 Second			
Aquifer Code	1210GLL - Ogallala Formation			
Aquifer	Ogallala			
Aquifer Pick Method				
Land Surface Elevation (feet above sea level)	3555			
Land Surface Elevation Method	Interpolated From Topo Map			
Well Depth (feet below land surface)	190			
Well Depth Source	Driller's Log			
Drilling Start Date				
Drilling End Date	4/7/1969			
Drilling Method				
Borehole Completion				

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Texaco, Inc.
Driller	Autry & Son Drilling Co.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1989
Last Update Date	

Remarks			
Casing - No Data			
Well Tests - No Data			
Lithology - No Data			
Annular Seal Range - No Data			
Borehole - No Data	Plugge	ed Back - No Data	
Filter Pack - No Data		Packers - No Data	





Water Level Measurements			
No Data Available			





Water Quality Analysis

Sample Date: 5/24/1974 Sample Time: 0000 Sample Number: 1 Collection Entity: Groundwater Conservation District

(general)

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		243	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		296	mg/L	
00910	CALCIUM (MG/L)		46	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		47	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		302	mg/L	
00920	MAGNESIUM (MG/L)		46	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.7	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		10	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		42	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.1		
00932	SODIUM, CALCULATED, PERCENT		23	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		44	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		738	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		95	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		483	mg/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2436305
County	Hockley
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	33.463889
Latitude (degrees minutes seconds)	33° 27' 50" N
Longitude (decimal degrees)	-102.501945
Longitude (degrees minutes seconds)	102° 30' 07" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3562
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	197
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	3/5/1970
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Perforated or Slotted

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Texaco, Inc.
Driller	Hi Plains Drilling, Inc.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1989
Last Update Date	

Remarks

SII	

_						
Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
9	Blank	Steel			0	133
9	Screen	Steel			133	197

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data





Water Level Measurements			
No Data Available			





Water Quality Analysis

Sample Date: 5/24/1974 Sample Time: 0000 Sample Number: 1 Collection Entity: Groundwater Conservation District

(general)

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		318	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		388	mg/L	
00910	CALCIUM (MG/L)		47	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		21	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		341	mg/L	
00920	MAGNESIUM (MG/L)		54	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		29	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		9	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		42	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.87		
00932	SODIUM, CALCULATED, PERCENT		18	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		37	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		737	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		60	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		493	mg/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2437102
State Well Number	
County	Hockley
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	33.465556
Latitude (degrees minutes seconds)	33° 27' 56" N
Longitude (decimal degrees)	-102.493334
Longitude (degrees minutes seconds)	102° 29' 36" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3549
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	193
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	8/16/1967
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Industrial
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Texaco Inc
Driller	George Autry
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	
Last Update Date	

Remarks			
Casing - No Data			
Well Tests - No Data			
Lithology - No Data			
Annular Seal Range - No Data			
Borehole - No Data	Plugge	d Back - No Data	
Filter Pack - No Data		Packers - No Data	





Water Level Measurements	
No Data Available	





Water Quality Analysis

Sample Date: 7/27/1981 Sample Time: 0000 Sample Number: 1 Collection Entity: Groundwater Conservation District

(general)

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		418	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		510.1	mg/L	
00910	CALCIUM (MG/L)		86	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		193	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		609	mg/L	
00920	MAGNESIUM (MG/L)		96	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		27.3	mg/L	
00400	PH (STANDARD UNITS), FIELD		8	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		13	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		53	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.1		
00932	SODIUM, CALCULATED, PERCENT		29	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		119	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1881	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		151	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		992	mg/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2437103
County	Hockley
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	33.458889
Latitude (degrees minutes seconds)	33° 27' 32" N
Longitude (decimal degrees)	-102.494167
Longitude (degrees minutes seconds)	102° 29' 39" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3545
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	211
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	8/4/1976
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Sundown
Driller	Hi Plains Drilling, Inc.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/17/1989
Last Update Date	

Remarks City well #6. Reported yield 355 GPM with 11 feet drawdown after pumping 24 hours in 1976.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	100
10	Blank	Steel			0	153
10	Screen	Steel			153	211

Well Tests - No Data

Lithology - No Data

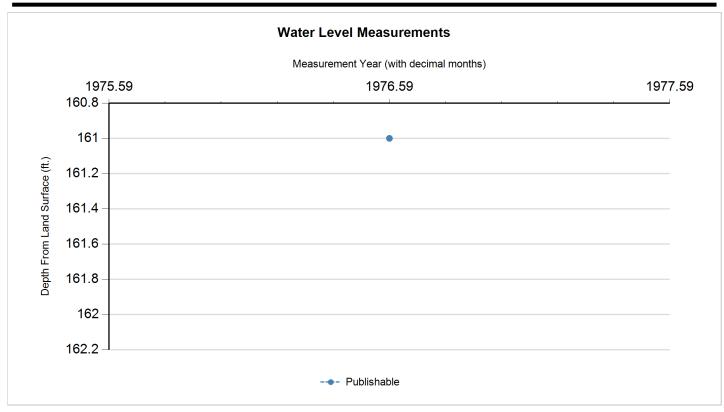
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







	Status Code	Date	Time	Water Level (ft. below land surface)	Change value in () indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	•	8/4/1976		161		3384	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
Р	Publishable





Water Quality Analysis

Sample Date: 8/13/1986 Sample Time: 0000 Sample Number: 1 Collection Entity: Texas Water Development Board

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		274	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		334.37	mg/L	
00910	CALCIUM (MG/L)		62	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		113	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		426	mg/L	
00920	MAGNESIUM (MG/L)		66	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		13.91	mg/L	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		11	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		45	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.5		
00932	SODIUM, CALCULATED, PERCENT		26	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		71	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1304	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		151	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		700	mg/L	





Water Quality Analysis

Collection Entity: Texas Water Development Board **Sample Date:** 8/21/1990 Sample Time: 1430 Sample Number:

Sampled Aquifer: Ogallala Formation

Reliability: Field test using TWDB protocols; cation - TDH; anion & nutrient - TX Tech Analyzed Lab: Combo of TDH (01) and TTU (15)

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		250	mg/L	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		255	mg/L	
01503	ALPHA, DISSOLVED (PC/L)		7.7	PC/L	3.4
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	50	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	10	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		32	ug/L	
03503	BETA, DISSOLVED (PC/L)		15	PC/L	5
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		311.19	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		460	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)	<	3	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	10	ug/L	
00910	CALCIUM (MG/L)		61	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		133	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	20	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	20	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		2.85	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		463	mg/L	
71865	IODIDE (MG/L AS I)		0.68	mg/L	
01046	IRON, DISSOLVED (UG/L AS FE)		20	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)	<	50	ug/L	
00920	MAGNESIUM (MG/L)		75	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	20	ug/L	
71890	MERCURY, DISSOLVED (UG/L AS HG)	<	0.2	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	20	ug/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		2.88	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		12.75	mg/L	
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)		0.002	mg/L	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.12	mg/L	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	<	0.1	mg/L	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		121.2	MV	
00400	PH (STANDARD UNITS), FIELD		7.31	SU	
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		0.12	mg/L	
00937	POTASSIUM, TOTAL (MG/L AS K)		13	mg/L	





Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
09503	RADIUM 226, DISSOLVED, PC/L	<	0.2	PC/L	
81366	RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1	PC/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)		11	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		42	mg/L	
01075	SILVER, DISSOLVED (UG/L AS AG)	<	10	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.46		
00932	SODIUM, CALCULATED, PERCENT		25	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		72	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1258	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		2710	ug/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		137	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		20	С	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		704	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		46	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)	<	20	ug/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2437107
County	Hockley
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	33.460278
Latitude (degrees minutes seconds)	33° 27' 37" N
Longitude (decimal degrees)	-102.492222
Longitude (degrees minutes seconds)	102° 29' 32" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3549
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Ronnie Srader
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1989
Last Update Date	

Remarks			
Casing - No Data			
Well Tests - No Data			
Lithology - No Data			
Annular Seal Range - No Data			
Borehole - No Data	Plugged	Back - No Data	
Filter Pack - No Data		Packers - No Data	





Water Level Measurements			
No Data Available			





Water Quality Analysis

Sample Date: 5/23/1974 Sample Time: 0000 Sample Number: 1 Collection Entity: Groundwater Conservation District

(general)

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		269	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		328	mg/L	
00910	CALCIUM (MG/L)		51	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		92	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		369	mg/L	
00920	MAGNESIUM (MG/L)		59	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		10	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		42	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.79		
00932	SODIUM, CALCULATED, PERCENT		31	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		79	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		975	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		106	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		604	mg/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.





GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2437406
County	Hockley
River Basin	Colorado
Groundwater Management Area	2
Regional Water Planning Area	O - Llano Estacado
Groundwater Conservation District	High Plains UWCD #1
Latitude (decimal degrees)	33.456945
Latitude (degrees minutes seconds)	33° 27' 25" N
Longitude (decimal degrees)	-102.494167
Longitude (degrees minutes seconds)	102° 29' 39" W
Coordinate Source	+/- 1 Second
Aquifer Code	1210GLL - Ogallala Formation
Aquifer	Ogallala
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	3537
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	203
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	8/28/1978
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Gravel Pack w/Perforations

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	City of Sundown
Driller	Hi Plains Drilling, Inc.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/17/1989
Last Update Date	

Remarks City well #7. Reported yield 205 GPM with 16 feet drawdown after pumping 24 hours in 1978.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	100
10	Blank	Steel			0	148
10	Screen	Steel			148	203

Well Tests - No Data

Lithology - No Data

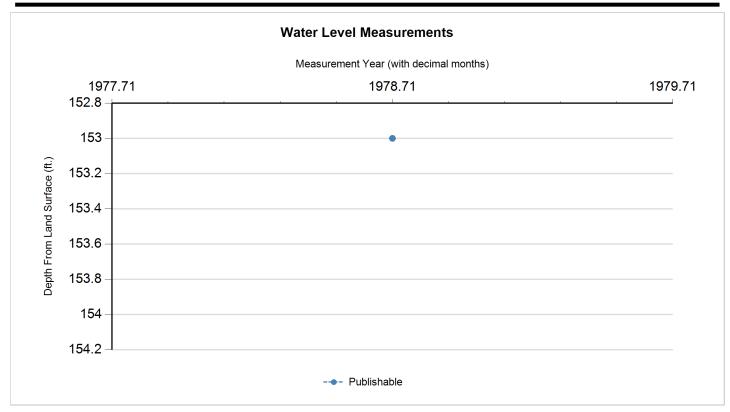
Annular Seal Range - No Data

Borehole - No Data Plugged Back - No Data

Filter Pack - No Data Packers - No Data







Status Code	Date	Time	Water Level (ft. below land surface)	indiantan sina	Water Elevation (ft. above sea level)	#	Measuring Agency	Method	Remark ID	Comments
Р	9/19/1978		153		3384	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
Р	Publishable





Water Quality Analysis

Sample Date: 8/13/1986 Sample Time: 0000 Sample Number: 1 Collection Entity: Texas Water Development Board

Sampled Aquifer: Ogallala Formation

Analyzed Lab: Texas Department of Health Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		275	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		335.6	mg/L	
00910	CALCIUM (MG/L)		62	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		114	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		430	mg/L	
00920	MAGNESIUM (MG/L)		67	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		13.47	mg/L	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		11	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		45	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.49		
00932	SODIUM, CALCULATED, PERCENT		26	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		71	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1304	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		151	mg/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		702	mg/L	

^{*} Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (http://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Attachment H Groundwater Quality Assessment

GROUNDWATER QUALITY REPORT

The City of Sundown Wastewater Treatment Plant and effluent disposal site are located in southwest Hockley County, approximately 1 mile north of downtown Sundown, Texas. The site is located within the boundaries of the Ogallala Aquifer, a major aquifer in West Texas. Minor aquifer Edwards Trinity (High Plains) are present at the site as well. Please refer to the maps provided for further details. The maps and following information was obtained from Texas Water Development Board Groundwater Database.

The Ogallala Aquifer – is unconfined and the largest aquifer in the United States. The aquifer consists of sand, gravel, clay, and silt and has a maximum thickness of 800 feet. Freshwater saturated thickness in the aquifer averages 95 feet but is significantly greater in several paleo-valleys that were eroded into the Permian- to Cretaceous-aged surfaces before deposition of the Ogallala Formation.

The Ogallala Formation was deposited as alluvial outwash from the Rocky Mountains. The thickest and coarsest grained sediments are fluvial channel facies in alluvial fan lobes deposited in paleo-valleys, where pebble- to boulder-size gravel lenses are common along the basal surface. Three major paleo-valleys are located north of the Canadian River, and a smaller paleo-valley stretches from near Clovis to southeast of Plainview. Most sediment in the preserved extent of the Formation are sands and gravels that were deposited in braided stream channels. Further away from the mountains the Formation becomes finer-grain. Blackwater Draw Formation overlays the Ogallala Formation, which forms a layer of Quaternary eolian fine sand, silt, clay, and caliche that covers the Ogallala Formation except along breaks and draws.

The hydraulic conductivity of the Southern Ogallala Aquifer ranges from 0.01 to 2,600 feet per day with a mean of about 6.8 feet per day. The geometric mean of hydraulic conductivity in the Northern Ogallala Aquifer is about 14.8 feet per day with a standard deviation of 5 to 44 feet per day. The specific yield of the Ogallala Aquifer ranges from 15 to 22 percent, with an average of 16 percent. Studies indicate that recharge represents a small fraction of current water usage. Recharge in the southern region of the Ogallala Aquifer has been affected by agricultural development and ranges from 0.007 to over 3 inches per year, with the most recharge in areas where irrigated crops are raised on relatively permeable soils. In the northern region, relatively clayey soils limit agricultural influence on recharge, and the predevelopment distribution of recharge remains in place, with rates ranging from 0.1 to 0.8 inches per year.

The Edwards-Trinity (High Plains) Aquifer - is a minor aquifer that underlies about 9,000 square miles of the Ogallala Aquifer in western Texas and eastern New Mexico. Its water-producing units include sandstone and limestone. Freshwater saturated thickness in the aquifer averages 126 feet. Regional groundwater flow in the aquifer is to the southeast, but locally, flow is determined by the presence of paleo-channels containing Ogallala Formation sediments that are incised into the Cretaceous limestone forming the Edwards-Trinity (High Plains) Aquifer. Recharge to the aquifer is primarily due to downward leakage from the younger Ogallala Aquifer. The greatest amounts of recharge most likely occur where low-permeability clay layers, which lie between the Edwards-Trinity (High Plains) and Ogallala aquifers, are missing, thin, or relatively permeable. Groundwater in the Edwards-Trinity (High Plains) Aquifer generally is confined, although there are small areas where the aquifer is unconfined.

The impact on groundwater is estimated to be very minimal, if at all. The waste disposal system consists of irrigating 50 acres of land with the treated effluent. At the maximum permitted flow this would result

in only 3.92 acre-ft/year of applied effluent. Effluent will be applied at rates stipulated in the annual cropping plan as to not penetrate past the root zone and infiltrate groundwater. The irrigated crops and associated land can be considered as an additional treatment unit, which will provide a pathway for nutrients to be extracted from the irrigated area. In addition, the City's newly constructed Wastewater Facility includes an improved facultative pond system with a new synthetic liner and leak detection system. The proposed lining system consists of a 60 mil HDPE liner and 20 oz geotextile.

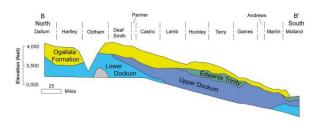


Figure 6-25. Geologic cross-sections showing the relationship of the Ogallala Formation to underlying strata (modified from McGowen and others, 1977).

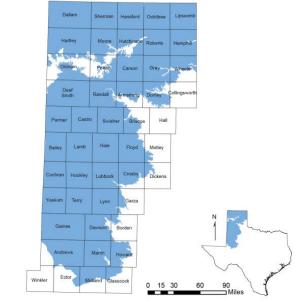


Figure 6-24. Extent of the Ogallala Aquifer in Texas.

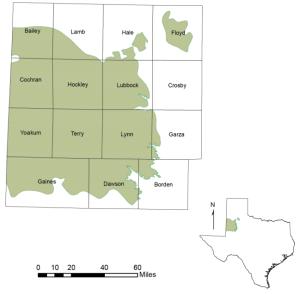


Figure 6-63. Extent of the Edwards-Trinity High Plains Aquifer.

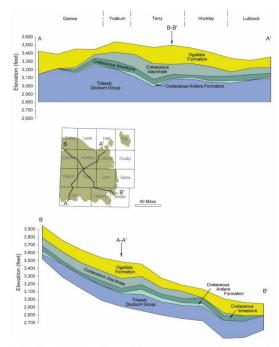


Figure 6-64. Geologic cross-section across the Edwards-Trinity (High Plains) Aquifer (modified from Blandford and others, 2008).

Attachment I
USDA Soil Survey &
Annual Soil Analysis



NRCS

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

Custom Soil Resource Report for Hockley County, Texas



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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

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

Contents

Preface	2
How Soil Surveys Are Made	5
Soil Map	
Soil Map	9
Legend	10
Map Unit Legend	
Map Unit Descriptions	11
Hockley County, Texas	13
AfA—Amarillo fine sandy loam, 0 to 1 percent slopes	13
AfB—Amarillo fine sandy loam, 1 to 3 percent slopes	14
PAB—Patricia and Amarillo loamy fine sands, 0 to 3 percent slopes	16
PsB—Posey fine sandy loam, 1 to 3 percent slopes	18
References	20

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

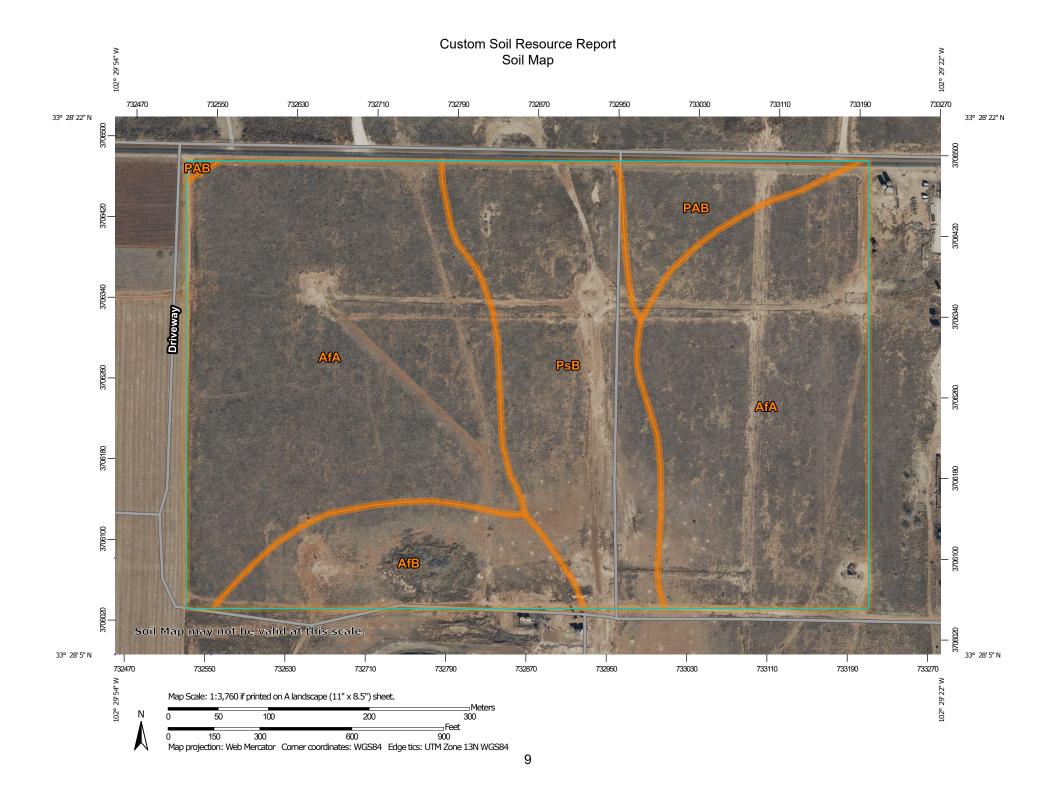
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

ဖ

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

· .

Gravel Pit

.

Gravelly Spot

0

Landfill Lava Flow



Marsh or swamp

2

Mine or Quarry

0

Miscellaneous Water

Perennial Water

0

Rock Outcrop

+

Saline Spot

. .

Sandy Spot

_

Severely Eroded Spot

.

Sinkhole

8

Slide or Slip

Ø

Sodic Spot

OL.12

8

Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

_

Streams and Canals

Transportation

ransp

Rails

~

Interstate Highways

US Routes

 \sim

Major Roads

~

Local Roads

Background

Marie Control

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hockley County, Texas Survey Area Data: Version 23, Sep 5, 2023

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

Date(s) aerial images were photographed: Jan 16, 2022—Jan 29, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AfA	Amarillo fine sandy loam, 0 to 1 percent slopes	48.1	64.3%
AfB	Amarillo fine sandy loam, 1 to 3 percent slopes	7.2	9.7%
PAB	Patricia and Amarillo loamy fine sands, 0 to 3 percent slopes	3.8	5.1%
PsB	Posey fine sandy loam, 1 to 3 percent slopes	15.6	20.9%
Totals for Area of Interest	'	74.7	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Hockley County, Texas

AfA—Amarillo fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: f5r6 Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

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

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

Description of Amarillo

Setting

Landform: Plains

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

Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 10 inches: fine sandy loam Bt - 10 to 41 inches: sandy clay loam Btkk - 41 to 56 inches: sandy clay loam Btk - 56 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Negligible

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

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 65 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

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

Hydrologic Soil Group: B

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Minor Components

Arvana

Percent of map unit: 4 percent

Landform: Plains

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

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Posey

Percent of map unit: 4 percent

Landform: Plains

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

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

Hydric soil rating: No

Sharvana

Percent of map unit: 2 percent

Landform: Plains

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

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

AfB—Amarillo fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: f5r7 Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

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

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

Description of Amarillo

Setting

Landform: Plains, playa slopes Down-slope shape: Convex, concave

Across-slope shape: Linear

Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 10 inches: fine sandy loam
Bt - 10 to 41 inches: sandy clay loam
Btkk - 41 to 56 inches: sandy clay loam
Btk - 56 to 85 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 65 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

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

Hydrologic Soil Group: B

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Minor Components

Arvana

Percent of map unit: 4 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Posey

Percent of map unit: 4 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

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

Hydric soil rating: No

Sharvana

Percent of map unit: 2 percent

Landform: Plains

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

Ecological site: R077CY037TX - Very Shallow 16-21" PZ

Hydric soil rating: No

PAB—Patricia and Amarillo loamy fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: f5sx Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches
Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Patricia and similar soils: 50 percent Amarillo and similar soils: 40 percent Minor components: 10 percent

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

Description of Patricia

Setting

Landform: Plains

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

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

pleistocene age

Typical profile

Ap - 0 to 12 inches: loamy fine sand Bt1 - 12 to 40 inches: sandy clay loam Bt2 - 40 to 78 inches: sandy clay loam Btk - 78 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 70 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Description of Amarillo

Setting

Landform: Plains

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

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

pleistocene age.

Typical profile

Ap - 0 to 13 inches: loamy fine sand Bt - 13 to 53 inches: sandy clay loam Btkk - 53 to 68 inches: sandy clay loam Btk - 68 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): 3e Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Minor Components

Tokio

Percent of map unit: 5 percent

Landform: Plains

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

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Brownfield

Percent of map unit: 3 percent

Landform: Plains

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

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

Arvana

Percent of map unit: 2 percent Landform: Playa slopes, plains Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077CY035TX - Sandy 16-21" PZ

Hydric soil rating: No

PsB—Posey fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: f5t5 Elevation: 2,600 to 5,100 feet

Mean annual precipitation: 16 to 21 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 185 to 220 days

Farmland classification: Farmland of statewide importance, if irrigated

Map Unit Composition

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

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

Description of Posey

Setting

Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

Parent material: Calcareous loamy eolian deposits

Typical profile

Ap - 0 to 10 inches: fine sandy loam

Btk1 - 10 to 18 inches: sandy clay loam

Btkk - 18 to 39 inches: sandy clay loam

B'tk2 - 39 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

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

(0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 70 percent

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

Available water supply, 0 to 60 inches: Low (about 5.5 inches)

Interpretive groups

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

Hydrologic Soil Group: B

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

Hydric soil rating: No

Minor Components

Midessa

Percent of map unit: 6 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

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

Hydric soil rating: No

Amarillo

Percent of map unit: 5 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

Arvana

Percent of map unit: 4 percent Landform: Playa slopes, plains Down-slope shape: Concave, convex

Across-slope shape: Linear

Ecological site: R077CY036TX - Sandy Loam 16-21" PZ

Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

ANALYTICAL REPORT

PREPARED FOR

Attn: Lee Torrez City of Sundown PO BOX 600 Sundown, Texas 79372

Generated 4/3/2024 8:12:24 AM

JOB DESCRIPTION

City Soils annually WWTP

JOB NUMBER

820-12091-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424



Eurofins Lubbock

Job Notes

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

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

Authorization

Brianna Tul

Generated 4/3/2024 8:12:24 AM

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com (432)704-5440

Page 2 of 28 4/3/2024

3

4

5

<u> 10</u>

19

9

Client: City of Sundown Project/Site: City Soils annually Laboratory Job ID: 820-12091-1

SDG: WWTP

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	13
Lab Chronicle	18
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	27













Definitions/Glossary

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

Qualifiers

Metals

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control timits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
Н	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
U	Indicates the analyte was analyzed for but not detected.

Glussary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

DŁ, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

DC, 104, 11C, 114	indicates a Dilution, re-analysis, re-extraction, or additional initial metalsranion analysis of the sample
DLC	Decision Level Concentration (Padiochamistry)

DEO	Decision Level Concentration (Madiocriemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCI	EDA recommended Mideries on Contentional Levell

MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated

NO Not Detected at the reporting limit (or MDL or EDL if show	f n

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

PRES	Presumptive
OC.	Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

Too Numerous To Count TNTC

Case Narrative

Client: City of Sundown Project: City Soils annually

Eurofins Lubbock

Job ID: 820-12091-1

Job ID: 820-12091-1

Job Narrative 820-12091-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/15/2024 12:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 18.7°C.

Metals

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

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-149745 and 860-147624 and analytical batch 860-149735 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 351.2: instrument issues

City soils 0-6 (820-12091-1) and City soils 6-18 (820-12091-2)

Method 351.2: The following samples were analyzed outside of analytical holding time due to Analyst overlooked/did not check the backlog for prioritizing hold time: City soils 0-6 (820-12091-1) and City soils 6-18 (820-12091-2).

Method 353.2_Nitrite: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-148081 and analytical batch 860-147597 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 353.2_Nitrite: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-148081 and analytical batch 860-147597 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Lubbock

2

4

5

57

8

9

H

i i

Client Sample Results

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

Client Sample ID: City soils 0-6

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06 Lab Sample ID: 820-12091-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fa
Na	51.5		0.500		mg/L		02/26/24 08:55	02/26/24 11:51	
Sodium Adsorption Ratio	1.64		0.100		NONE		02/26/24 08:55	02/26/24 16:44	
Method: SW846 6010C - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fa
Phosphorus	19.9		0.394		mg/Kg		02/26/24 09:17	02/26/24 15:59	
Potassium	304		4.93		mg/Kg		02/26/24 09:17	02/26/24 15:59	
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fa
Specific Conductance (LA 29B EC)	725	Н	10.0		umho/cm		04/02/24 15:43	04/02/24 15:41	
Electrical Conductivity (LA 29B_EC)	725	Н	10.0		umho/cm		04/02/24 15:43	04/02/24 15:41	
pH (LA 29B_pH)	8.03	HF	0.100		S.U.		03/25/24 07:45	03/25/24 14:02	
Temperature (LA 29B_pH)	20.0	HF	0.100		Deg. C		03/25/24 07:45	03/25/24 14:02	
Nitrogen, Kjeldahl (EPA 351.2)	11.9		2.00		mg/Kg			03/08/24 20:01	
Nitrate Nitrite as N (EPA 353.2)	5.20		1.00		mg/Kg		02/26/24 12:56	02/26/24 17:22	
Nitrite as N (EPA 353.2)	<1.00	U	1.00		mg/Kg		02/26/24 12:56	02/26/24 18:09	
Nitrate as N (SM Nitrate by calc)	5.20		1.00		mg/Kg			03/05/24 09:48	
Nitrogen, Total (EPA Total Nitrogen)	17.1		0.200		mg/Kg			03/07/24 21:52	

Client Sample ID: City soils 6-18

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06 Lab Sample ID: 820-12091-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Na	34.6		0.500		mg/L		02/26/24 08:55	02/26/24 12:03	1
Sodium Adsorption Ratio	0.924		0.100		NONE		02/26/24 08:55	02/26/24 16:44	1
Method: SW846 6010C - Metals	(ICP)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	13.1		0.398		mg/Kg		02/26/24 09:17	02/26/24 16:30	1
Potassium	309		4.98		mg/Kg		02/26/24 09:17	02/26/24 16:30	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	684	Н	10.0		umho/cm		04/02/24 15:43	04/02/24 15:41	1
Electrical Conductivity (LA 29B_EC)	684	Н	10.0		umho/cm		04/02/24 15:43	04/02/24 15:41	1
pH (LA 29B_pH)	7.99	HF	0.100		S.U.		03/25/24 07:45	03/25/24 14:02	1
Temperature (LA 29B_pH)	20.8	HF	0.100		Deg. C		03/25/24 07:45	03/25/24 14:02	1
Nitrogen, Kjeldahl (EPA 351.2)	11.3		2.00		mg/Kg			03/08/24 20:02	10
Nitrate Nitrite as N (EPA 353.2)	3.73		1.00		mg/Kg		02/26/24 12:56	02/26/24 17:22	1
Nitrite as N (EPA 353.2)	<1.00	U	1.00		mg/Kg		02/26/24 12:56	02/26/24 18:10	1
Nitrate as N (SM Nitrate by calc)	3.73		1.00		mg/Kg			03/05/24 09:48	1
Nitrogen, Total (EPA Total Nitrogen)	15.0		0.200		mg/Kg			03/07/24 21:52	1

Eurofins Lubbock

Client Sample Results

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

Client Sample ID: City soils 18-30

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06 Lab Sample ID: 820-12091-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Na	33.2		0.500		mg/L		02/26/24 08:55	02/26/24 12:05	
Sodium Adsorption Ratio	0.826		0.100		NONE		02/26/24 08:55	02/26/24 16:44	
Method: SW846 6010C - Metals	(ICP)								
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Phosphorus	12.8		0.398		mg/Kg		02/26/24 09:17	02/26/24 16:34	
Potassium	257		4.98		mg/Kg		02/26/24 09:17	02/26/24 16:34	
General Chemistry									
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Specific Conductance (LA 29B EC)	1010	Н	10.0		umho/cm		04/02/24 15:43	04/02/24 15:41	
Electrical Conductivity (LA 29B_EC)	1010	Н	10.0		umho/cm		04/02/24 15:43	04/02/24 15:41	
pH (LA 29B_pH)	8.60	HF	0.100		S.U.		03/26/24 13:43	03/26/24 14:13	
Temperature (LA 29B_pH)	21.5	HF	0.100		Deg. C		03/26/24 13:43	03/26/24 14:13	
Nitrogen, Kjeldahl (EPA 351.2)	720		76.9		mg/Kg		02/29/24 12:19	03/06/24 14:50	1
Nitrate Nitrite as N (EPA 353.2)	3.97		1.01		mg/Kg		02/26/24 12:56	02/26/24 17:23	
Nitrite as N (EPA 353.2)	<1.01	U	1.01		mg/Kg		02/26/24 12:56	02/26/24 18:11	
Nitrate as N (SM Nitrate by calc)	3.97		1.00		mg/Kg			03/05/24 09:48	
Nitrogen, Total (EPA Total Nitrogen)	724		0.200		mg/Kg			03/25/24 10:26	

QC Sample Results

Client: City of Sundown Project/Site: City Soils annually Job ID: 820-12091-1

SDG: WWTP

Client Sample ID: Method Blank

Client Sample ID: City soils 18-30

Method: 29B SAR - Sodium Adsorption Ratio

Lab Sample ID: MB 86 Matrix: Solid Analysis Batch: 14700							•	le ID: Method Prep Type: ! Prep Batch:	Soluble
		MB						i	
Analyte	Result	Qualifler	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Na	<0.500	U	0.500		mg/L		02/26/24 08:55	02/26/24 11:44	1

Method: 6010C - Metals (ICP)

Lab Sample ID: 820-12091-3 DU

Lab Sample ID: MB 860-146970/1-A

	atrix: Solid nalysis Batch: 147150								Prep Type: To Prep Batch:	
	•	MB	MB						-	
Ar	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Ph	osphorus	<0.400	υ	0.400		mg/Kg		02/26/24 09:17	02/26/24 15:44	1
Po	otassium	<5.00	U	5.00		mg/Kg		02/26/24 09:17	02/26/24 15:44	1

Matrix: Solid Analysis Batch: 147150)						Prep Type: Tot Prep Batch: 1	
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifler	Unit	D	RPD	Limit
Phosphorus	12.8		12.57		mg/Kg		2	25
Potassium	257		256.4		mg/Kg		0.1	20

Matrix: Solid	ab Sample ID: 620-12091-3 DO					Prep Type: Total/NA				
Analysis Batch: 147150						Prep Batch: 1				
	Sample	Sample	DU	DŲ				RPD		
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	RPD	Limit		
Phosphorus	19.9		<19.8	U	mg/Kg		NC	25		
Potassium	322		325.7		mg/Kg		1	20		

Method: 29B_pH - pH

Lab Sample ID: 820-12 Matrix: Solid Analysis Batch: 15146						Client S	ample ID: City soils Prep Type: Tot Prep Batch: 1	tal/NA
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifler	Unit	D	RPD	Limit
pH	7.99	HF	8.070		S.U.		1	20
Temperature	20.8	HF	20.80		Deg. C		0	25
Lab Sample ID: 820-12	2091-3 DU					Client Sa	mple ID: City soils	

Matrix: Solid Analysis Batch: 151667							Prep Type: To Prep Batch: 1	
	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifler	Result	Qualifler	Unit	D	RPD	Limit
pH	8.60	HF	8.600		S.U.		0	20
Temperature	21.5	HF	21.50		Deg. C		0	25

Eurofins Lubbock

QC Sample Results

Client: City of Sundown

Analyte

Nitrogen, Kjeldahl

SDG: WWTP Project/Site: City Soils annually Method: 351.2 - Nitrogen, Total Kjeldahl Lab Sample ID: MB 860-147624/4-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 149735 Prep Batch: 147624 мв мв RI **MDL** Unit Prepared **Analyte** Result Qualifier Analyzed **Dil Fac** Nitrogen, Kjeldahl <8.00 U 8.00 mg/Kg 02/29/24 12:19 03/06/24 14:45 Lab Sample ID: MB 860-147624/4-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Prep Batch: 147624 Analysis Batch: 148959 MB MB RL **MDL** Unit Result Qualifier **Analyte** Prepared Analyzed **Dil Fac** Nitrogen, Kjeldahl <8.00 U 8.00 02/29/24 12:19 03/08/24 19:38 mg/Kg Lab Sample ID: LCS 860-147624/6-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 149735 Prep Batch: 147624 Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 80.0 78.29 90 - 110 Nitrogen, Kjeldahl mg/Kg Client Sample ID: Lab Control Sample Lab Sample ID: LCS 860-147624/6-A Prep Type: Total/NA **Matrix: Solid** Analysis Batch: 148959 Prep Batch: 147624 Spike LCS LCS %Rec Added Result Qualifier **Analyte** Unit D %Rec Limits Nitrogen, Kjeldahl 80.0 86.17 90 - 110 mg/Kg Lab Sample ID: LCSD 860-147624/7-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Prep Batch: 147624 Analysis Batch: 149735 Spike LCSD LCSD %Rec RPD Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Nitrogen, Kjeldahl 80.0 79.50 90 - 110 mg/Kg Lab Sample ID: LCSD 860-147624/7-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA Analysis Batch: 148959 Prep Batch: 147624 Spike LCSD LCSD %Rec RPN Added Result Qualifier Unit D %Rec Limits RPD Limit Nitrogen, Kjeldahl 80.0 84.08 mg/Kg Lab Sample ID: LLCS 860-147624/5-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 149735 Prep Batch: 147624 Spike LLCS LLCS %Rec Analyte Added Result Qualifler Unit D %Rec Limits Nitrogen, Kjeldahl 8.00 8.673 mg/Kg 108 50 - 150 Lab Sample ID: LLCS 860-147624/5-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 148959 Prep Batch: 147624

Eurofins Lubbock

%Rec

Limits

50 - 150

%Rec

Job ID: 820-12091-1

Page 9 of 28

LLCS LLCS

8.315

Result Qualifier

Unit

ma/Ka

Spike

Added

8.00

4/3/2024

QC Sample Results Client: City of Sundown Job ID: 820-12091-1 Project/Site: City Soils annually SDG: WWTP Method: 351.2 - Nitrogen, Total Kjeldahl Lab Sample ID: 870-24583-A-2-M MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Prep Batch: 147624 Analysis Batch: 149735 Spike MS MS %Rec Sample Sample Added **Result Qualifier Analyte** Result Qualifier Unit D %Rec Limits Nitrogen, Kjeldahl 360 78.4 583.3 4 mg/Kg 284 90 - 110 Lab Sample ID: 870-24583-A-2-N MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Total/NA Prep Batch: 147624 Analysis Batch: 149735 Spike MSD MSD Sample Sample %Rec RPD Added Result Qualifier Limits Analyte Result Qualifler Unit D %Rec RPD Limit Nitrogen, Kjeldahl 75.5 591.8 4 mg/Kg 307 90 - 110 20 Lab Sample ID: MB 860-148735/44-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Analysis Batch: 149426 Prep Batch: 148735 MR MR Ri **MDL** Unit Result Qualifler **Prepared Analyzed** DII Fac <0.200 U 0.200 03/07/24 17:45 03/12/24 11:39 Nitrogen, Kjeldahl mg/Kg Client Sample ID: Method Blank Lab Sample ID: MB 860-148735/44-A Prep Type: Total/NA Matrix: Solid Analysis Batch: 150019 Prep Batch: 148735 MR MR RL MDL Unit **Analyzed DII Fac Analyte** Result Qualifier **Prepared** Nitrogen, Kjeldahl <0.200 U 0.200 03/07/24 17:45 03/15/24 11:45 mg/Kg Lab Sample ID: LCS 860-148735/45-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Prep Batch: 148735 Analysis Batch: 149426 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits Nitrogen, Kjeldahl 2.00 2.034 90 - 110 mg/Kg 102 Lab Sample ID: LCS 860-148735/45-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 150019 Prep Batch: 148735 Spike LCS LCS %Rec Added Result Qualifler Unit D %Rec Limits Nitrogen, Kjeldahl 2.00 1.950 mg/Kg 90 - 110 Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 860-148735/46-A

Eurofins Lubbock

RPD

Prep Type: Total/NA Prep Batch: 148735

Prep Type: Total/NA

Prep Batch: 148735

RPD

%Rec

Limits

90 - 110

%Rec

Limits

90 ... 110

D %Rec

D %Rec

101

Client Sample ID: Lab Control Sample Dup

Spike

Added

2.00

Spike

Added

2.00

LCSD LCSD

LCSD LCSD

Result Qualifier

2.024

1.922

Result Qualifler

Unit

Unit

mg/Kg

mg/Kg

Matrix: Solid

Nitrogen, Kjeldahl

Matrix: Solid

Nitrogen, Kjeldahl

Analyte

Analyte

Analysis Batch: 149426

Analysis Batch: 150019

Lab Sample ID: LCSD 860-148735/46-A

RPD

Limit

RPD

Limit

QC Sample Results

Client: City of Sundown Project/Site: City Soils annually Job ID: 820-12091-1

SDG: WWTP

Method: 351.2 - Nitrogen, Total Kjeldahl

48735/5-A					Clier	nt Sai	mple ID			•
									-	
		Spike	LLCS	LLCS				%Rec	atcii. I	40/33
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
		0.200	0.2335		mg/Kg		117	50 - 150		
48735/5-A					Clier	nt Sai	mple ID	: Lab Cor	ntrol Sa	ample
								Prep Ty	pe: To	tal/NA
								Prep Ba	atch: 1	48735
		Spike	LLCS	LLCS				%Rec		
		Added	Result	Qualifier	Unit	D	%Rec	Limits		
		0.200	0.2500		mg/Kg		125	50 - 150		
A-1-AA MS	D				Client S	Samp	le ID: N	latrix Spi	ke Dup	licate
								Prep Ty	pe: To	tal/NA
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1240		83.3	1453	4	mg/Kg		259	90 - 110	6	20
Δ.1.7 MS						CI	ient Sa	mole ID:	Matrix	Snike
A-1-E IVIO							ioni ou	•		
									-	
	A-1-AA MS Sample Result		Spike Added 0.200 48735/5-A Spike Added 0.200 A-1-AA MSD Sample Sample Spike Result Qualifier Added 1240 83.3	Spike LLCS Added Result 0.200 0.2335 48735/5-A Spike LLCS Added Result 0.200 0.2500 A-1-AA MSD Sample Sample Spike MSD Result Qualifier Added Result 1240 83.3 1453	Spike Added Result Qualifier 0.200 0.2335 48735/5-A Spike LLCS LLCS Added Result Qualifier 0.200 0.2500 A-1-AA MSD Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Added Result Qualifier 1240 83.3 1453 4	Spike Added Result Qualifier Unit mg/Kg 148735/5-A Spike LLCS LLCS mg/Kg Client Spike Added Result Qualifier Unit mg/Kg Client A-1-AA MSD Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Unit mg/Kg 1240 83.3 1453 4 mg/Kg	Spike LLCS LLCS Added Result Qualifier Unit D mg/Kg LLCS LLCS Mg/Kg Client Sat Spike LLCS LLCS Added Result Qualifier Unit D mg/Kg O.200 0.2500 mg/Kg Client Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Unit D mg/Kg Client Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Unit D mg/Kg	Spike	Spike	Spike

Spike

Added

78.4

MS MS

LCSD LCSD

9.932

Result Qualifier Unit

mg/Kg

1366 4

Result Qualifler

Unit

mg/Kg

Sample Sample

1240

Result Qualifier

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 860-148081/1-A

Analyte

Analyte

Nitrite as N

Nitrogen, Kjeldahl

Matrix: Solid Analysis Batch: 147597										-	Prep Type: To Prep Batch:	
Analyte		MB Qualifler		RL		MDL (Unit) [Prepared	Analyzed	Dil Fac
Nitrite as N	<1.00			1.00			mg/Kg				02/26/24 17:57	1
Lab Sample ID: LCS 860-1480 Matrix: Solid	81/2-A							Clie	nt Sa	imple ID:	Lab Control : Prep Type: T	•
Analysis Batch: 147597											Prep Batch:	148081
			Spike		LCS	LCS					%Rec	
Analyte			Added		Result	Quali	ifier	Unit	D	%Rec	Limits	
Nitrite as N			10.0		9.945			mg/Kg		99	90 - 110	
Lab Sample ID: LCSD 860-148 Matrix: Solid Analysis Batch: 147597	8081/3-A						CI	ient Sa	mple	e ID: Lab	Control Samp Prep Type: T Prep Batch:	otal/NA

Spike

Added

10.0

%Rec

Limits

90 - 110

Client Sample ID: Method Blank

%Rec

Limits

90 - 110

D %Rec

D %Rec

165

RPD

20

RPD Limit

0

QC Sample Results

Client: City of Sundown Project/Site: City Soils annually Method: 353.2 - Nitrogen, Nitrite (Continued) Lab Sample ID: 830-4940-A-1-E MS

Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Total/NA **Prep Batch: 148081** Analysis Batch: 147597 Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Nitrite as N <0.996 UF1 9.96 2.847 F1 90 - 110 mg/Kg

Lab Sample ID: 830-4940-A-1-F MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid Prep Type: Total/NA Analysis Batch: 147597 Prep Batch: 148081 MSD MSD Sample Sample Spike %Rec **RPD** Result Qualifier %Rec Limits Analyte Result Qualifier Added RPD Limit Nitrite as N <0.996 U F1 9.94 2.813 F1 22 90 - 110 20 mg/Kg

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Matrix: Solid

Lab Sample ID: MB 860-148081/1-A Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA Prep Batch: 148081 **Analysis Batch: 147600**

RL Result Qualifier **MDL** Unit Dii Fac **Analyte** Prepared **Analyzed** 02/26/24 12:56 02/26/24 17:02 Nitrate Nitrite as N <1.00 U 1.00 mg/Kg

Lab Sample ID: LCS 860-148081/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 147600 Prep Batch: 148081 Spike LCS LCS %Rec **Analyte** Added Result Qualifier Unit %Rec Limite Nitrate Nitrite as N 10.0 9.436 mg/Kg 90 - 110

Lab Sample ID: LCSD 860-148081/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA **Prep Batch: 148081** Analysis Batch: 147600 LCSD LCSD Spike %Rec **RPD** Result Qualifler Added D %Rec **RPD Analyte** Unit Limits Limit Nitrate Nitrite as N 10.0 9.117 90 - 110 3 20 mg/Kg

Lab Sample ID: 830-4940-A-1-E MS Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Total/NA

Analysis Batch: 147600 **Prep Batch: 148081** Spike MS MS %Rec Sample Sample Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits

Nitrate Nitrite as N 3.63 9.96 13.36 mg/Kg 98 90 - 110 Lab Sample ID: 830-4940-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 147600 Prep Batch: 148081 Sample Sample Spike MSD MSD %Rec RPD Added Limits Result Qualifler D %Rec Analyte Result Qualifier Unit RPD Limit Nitrate Nitrite as N 3.63 9.94 13.46 90 - 110 20 mg/Kg

Eurofins Lubbock

4/3/2024

Prep Type: Total/NA

Job ID: 820-12091-1

SDG: WWTP

6

Page 12 of 28

Client: City of Sundown Project/Site: City Soils annually Job ID: 820-12091-1

SDG: WWTP

Metals

Prep	Batch:	146967
------	--------	--------

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Soluble	Solid	29B	
820-12091-2	City soils 6-18	Soluble	Solid	29B	
820-12091-3	City soils 18-30	Soluble	Solid	29B	
MB 860-146967/1-A	Method Blank	Soluble	Solid	29B	

Prep Batch: 146970

Lab Sample ID	Cilent Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	MEHL Prep	
820-12091-2	City soils 6-18	Total/NA	Solid	MEHL Prep	
820-12091-3	City soils 18-30	Total/NA	Solid	MEHL Prep	
MB 860-146970/1-A	Method Blank	Total/NA	Solid	MEHL Prep	
820-12091-3 DU	City soils 18-30	Total/NA	Solid	MEHL Prep	

Analysis Batch: 147062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Soluble	Solid	29B SAR	146967
820-12091-2	City soils 6-18	Soluble	Solid	29B SAR	146967
820-12091-3	City soils 18-30	Soluble	Solid	29B SAR	146967
MB 860-146967/1-A	Method Blank	Soluble	Solid	29B SAR	146967

Analysis Batch: 147073

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Soluble	Solid	29B SAR	146967
820-12091-2	City soils 6-18	Soluble	Solid	29B SAR	146967
820-12091-3	City soils 18-30	Soluble	Solid	29B SAR	146967

Analysis Batch: 147150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	6010C	146970
820-12091-2	City soils 6-18	Total/NA	Solid	6010C	146970
820-12091-3	City soils 18-30	Total/NA	Solid	6010C	146970
MB 860-146970/1-A	Method Blank	Total/NA	Solid	6010C	146970
820-12091-3 DU	City soils 18-30	Total/NA	Solid	6010C	146970
820-12091-3 DU	City soils 18-30	Total/NA	Solid	6010C	146970

General Chemistry

Analysis Batch: 141767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	Total Nitrogen	
820-12091-2	City soils 6-18	Total/NA	Solid	Total Nitrogen	
820-12091-3	City soils 18-30	Total/NA	Solid	Total Nitrogen	

Analysis Batch: 144016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	Nitrate by calc	
820-12091-2	City soils 6-18	Total/NA	Solid	Nitrate by calc	
820-12091-3	City soils 18-30	Total/NA	Solid	Nitrate by calc	

Eurofins Lubbock

Client: City of Sundown Project/Site: City Soils annually Job ID: 820-12091-1

SDG: WWTP

General Chemistry

Analysis Batch: 147597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	353.2	148081
820-12091-2	City soils 6-18	Total/NA	Solid	353.2	148081
820-12091-3	City soils 18-30	Total/NA	Solid	353.2	148081
MB 860-148081/1-A	Method Blank	Total/NA	Solid	353.2	148081
LCS 860-148081/2-A	Lab Control Sample	Total/NA	Solid	353.2	148081
LCSD 860-148081/3-A	Lab Control Sample Dup	Total/NA	Solid	353.2	148081
830-4940-A-1-E MS	Matrix Spike	Total/NA	Solid	353.2	148081
830-4940-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	353.2	148081

Analysis Batch: 147600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	353.2	148081
820-12091-2	City soils 6-18	Total/NA	Solid	353.2	148081
820-12091-3	City soils 18-30	Total/NA	Solid	353.2	148081
MB 860-148081/1-A	Method Blank	Total/NA	Solid	353.2	148081
LCS 860-148081/2-A	Lab Control Sample	Total/NA	Solid	353.2	148081
LCSD 860-148081/3-A	Lab Control Sample Dup	Total/NA	Solid	353.2	148081
830-4940-A-1-E MS	Matrix Spike	Total/NA	Solid	353.2	148081
830-4940-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	353.2	148081

Prep Batch: 147624

TE					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	351.2	149745
MB 860-147624/4-A	Method Blank	Total/NA	Solid	351.2	
LCS 860-147624/6-A	Lab Control Sample	Total/NA	Solid	351.2	
LCSD 860-147624/7-A	Lab Control Sample Dup	Total/NA	Solid	351.2	
LLCS 860-147624/5-A	Lab Control Sample	Total/NA	Solid	351.2	
870-24583-A-2-M MS	Matrix Spike	Total/NA	Solid	351.2	149745
870-24583-A-2-N MSD	Matrix Spike Duplicate	Total/NA	Solid	351.2	149745

Prep Batch: 148081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	KCI Extract	148082
820-12091-2	City soils 6-18	Total/NA	Solid	KC Extract	148082
820-12091-3	City soils 18-30	Total/NA	Solid	KCI Extract	148082
MB 860-148081/1-A	Method Blank	Total/NA	Solid	KCI Extract	
LCS 860-148081/2-A	Lab Control Sample	Total/NA	Solid	KC Extract	
LCSD 860-148081/3-A	Lab Control Sample Dup	Total/NA	Solid	KC Extract	
830-4940-A-1-E MS	Matrix Spike	Total/NA	Solid	KCI Extract	
830-4940-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	KCI Extract	

Leach Batch: 148082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	Dry and Grind	
820-12091-2	City soils 6-18	Total/NA	Solid	Dry and Grind	
820-12091-3	City soils 18-30	Total/NA	Solid	Dry and Grind	

Prep Batch: 148735

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 860-148735/44-A	Method Blank	Total/NA	Solid	351.2	
LCS 860-148735/45-A	Lab Control Sample	Total/NA	Solid	351.2	

Eurofins Lubbock

Page 14 of 28









Client: City of Sundown

Job ID: 820-12091-1 Project/Site: City Soils annually SDG: WWTP

General Chemistry (Continued)

Prep Batch: 148735 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-148735/46-A	Lab Control Sample Dup	Total/NA	Solid	351.2	
LLCS 860-148735/5-A	Lab Control Sample	Total/NA	Solid	351.2	
820-11980-A-1-AA MSD	Matrix Spike Duplicate	Total/NA	Solid	351.2	149203
820-11980-A-1-Z MS	Matrix Spike	Total/NA	Solid	351.2	149203

Analysis Batch: 148959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	351.2	
820-12091-2	City soils 6-18	Total/NA	Solid	351.2	
MB 860-147624/4-A	Method Blank	Total/NA	Solid	351.2	147624
LCS 860-147624/6-A	Lab Control Sample	Total/NA	Solid	351.2	147624
LCSD 860-147624/7-A	Lab Control Sample Dup	Total/NA	Solid	351.2	147624
LLCS 860-147624/5-A	Lab Control Sample	Total/NA	Solid	351.2	147624
820-11980-A-1-AJ MS	Matrix Spike	Total/NA	Solid	351.2	
820-11980-A-1-AK MSD	Matrix Spike Duplicate	Total/NA	Solid	351.2	

Leach Batch: 149203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11980-A-1-AA MSD	Matrix Spike Duplicate	Total/NA	Solid	Dry and Grind	
820-11980-A-1-Z MS	Matrix Spike	Total/NA	Solid	Dry and Grind	

Analysis Batch: 149426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-148735/44-A	Method Blank	Tota!/NA	Solid	351.2	148735
LCS 860-148735/45-A	Lab Control Sample	Total/NA	Solid	351.2	148735
LCSD 860-148735/46-A	Lab Control Sample Dup	Total/NA	Solid	351.2	148735
LLCS 860-148735/5-A	Lab Control Sample	Total/NA	Solid	351.2	148735

Analysis Batch: 149735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	351.2	147624
MB 860-147624/4-A	Method Blank	Total/NA	Solid	351.2	147624
LCS 860-147624/6-A	Lab Control Sample	Total/NA	Solid	351.2	147624
LCSD 860-147624/7-A	Lab Control Sample Dup	Total/NA	Solid	351.2	147624
LLCS 860-147624/5-A	Lab Control Sample	Total/NA	Solid	351.2	147624
870-24583-A-2-M MS	Matrix Spike	Total/NA	Solid	351.2	147624
870-24583-A-2-N MSD	Matrix Spike Duplicate	Total/NA	Solid	351.2	147624

Leach Batch: 149745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	Dry and Grind	
870-24583-A-2-M MS	Matrix Spike	Total/NA	Solid	Dry and Grind	
870-24583-A-2-N MSD	Matrix Spike Duplicate	Total/NA	Solid	Dry and Grind	

Analysis Batch: 150019

Lab Sample ID	Cilent Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-148735/44-A	Method Blank	Total/NA	Solid	351.2	148735
LCS 860-148735/45-A	Lab Control Sample	Total/NA	Solid	351.2	148735
LCSD 860-148735/46-A	Lab Control Sample Dup	Total/NA	Solid	351.2	148735
LLCS 860-148735/5-A	Lab Control Sample	Total/NA	Solid	351.2	148735
820-11980-A-1-AA MSD	Matrix Spike Duplicate	Total/NA	Solid	351.2	148735

Eurofins Lubbock

4/3/2024

Page 15 of 28

Client: City of Sundown Project/Site: City Soils annually Job ID: 820-12091-1

SDG: WWTP

General Chemistry (Continued)

Analysis	Batch:	150019	(Continued)
-----------------	--------	--------	-------------

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-11980-A-1-Z MS	Matrix Spike	Total/NA	Solid	351.2	148735

Prep Batch: 151374

Lab Sample ID 820-12091-1	Client Sample ID City soils 0-6	Prep Type Total/NA	Matrix Solid	Method 29B	Prep Batch
820-12091-2	City soils 6-18	Total/NA	Solid	29B	
820-12091-2 DU	City soils 6-18	Total/NA	Solid	29B	

Prep Batch: 151401

Lab Sample ID 820-12091-1	Client Sample ID City soils 0-6	Prep Type Total/NA	Matrix Solid	Method Sat Paste Ext	Prep Batch 151374
820-12091-2	City soils 6-18	Total/NA	Solid	Sat Paste Ext	151374
820-12091-2 DU	City soils 6-18	Total/NA	Solid	Sat Paste Ext	151374

Analysis Batch: 151460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	29B_pH	151401
820-12091-2	City soils 6-18	Total/NA	Solid	29B_pH	151401
820-12091-2 DU	City soils 6-18	Total/NA	Solid	29B_pH	151401

Prep Batch: 151658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	Sat Paste Ext	151664
820-12091-3 DU	City soils 18-30	Total/NA	Solid	Sat Paste Ext	151664

Prep Batch: 151664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	298	
820-12091-3 DU	City soils 18-30	Total/NA	Solid	29B	

Analysis Batch: 151667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	29B_pH	151658
820-12091-3 DU	City soils 18-30	Total/NA	Solid	29B_pH	151658

Analysis Batch: 152885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	29B_EC	152889
820-12091-2	City soils 6-18	Total/NA	Solid	29B_EC	152889
820-12091-3	City soils 18-30	Total/NA	Solid	29B_EC	152889

Prep Batch: 152886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	29B	
820-12091-2	City soils 6-18	Total/NA	Solid	29B	
820-12091-3	City soils 18-30	Total/NA	Solid	29B	

Prep Batch: 152889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-12091-1	City soils 0-6	Total/NA	Solid	Sat Paste Ext	152886
820-12091-2	City soils 6-18	Total/NA	Solid	Sat Paste Ext	152886

Eurofins Lubbock

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

General Chemistry (Continued)

Prep Batch: 152889 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
820-12091-3	City soils 18-30	Total/NA	Solid	Sat Paste Ext	152886







Lab Chronicle

Client: City of Sundown Project/Site: City Soils annually Job ID: 820-12091-1

SDG: WWTP

Lab Sample ID: 820-12091-1

Matrix: Solid

Client Sample ID: City soils 0-6

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			100 g	100 mL	146967	02/26/24 08:55	РВ	EET HOU
Soluble	Analysis	29B SAR		1			147062	02/26/24 11:51	JDM	EET HOU
Soluble	Prep	29B			100 g	100 mL	146967	02/26/24 08:55	РВ	EET HOU
Soluble	Analysis	29B SAR		1			147073	02/26/24 16:44	JDM	EET HOU
Total/NA	Prep	MEHL Prep			2.03 g	20 mL	146970	02/26/24 09:17	PB	EET HOU
Total/NA	Analysis	6010C		1			147150	02/26/24 15:59	JDM	EET HOU
Total/NA	Analysis	29B_EC		1			152885	04/02/24 15:41	BW	EET HOU
Total/NA	Prep	29B			120 g	90 g	152886	04/02/24 15:43		EET HOU
Total/NA	Prep	Sat Paste Ext			35.7 g	35.7 mL	152889	04/02/24 15:45	BW	EET HOU
Total/NA	Prep	29B			30 g	30 mL	151374	03/25/24 07:45	BW	EET HOU
Total/NA	Prep	Sat Paste Ext		- 2	30 g	30 g	151401	03/25/24 08:54		EET HOU
Total/NA	Analysis	29B_pH		1			151460	03/25/24 14:02		EET HOU
Total/NA	Analysis	351.2		10			148959	03/08/24 20:01	LD	EET HOU
Total/NA	Leach	Dry and Grind			150 g	150 g	148082	02/25/24 13:04		EET HOU
Total/NA	Prep	KCI Extract		21	4.99 g	50 mL	148081	02/26/24 12:56		EET HOU
Total/NA	Analysis	353.2		1	10 mL	10 mL	147597	02/26/24 18:09		EET HOU
Total/NA	Leach	Dry and Grind			150 g	150 g	148082	02/25/24 13:04		EET HOU
Total/NA	Prep	KCI Extract		1	4.99 g 10 mL	50 mL 10 mL	148081 147600	02/26/24 12:56 02/26/24 17:22		EET HOU
Total/NA	Analysis	353.2			10 mL	10 mL				EET HOU
Total/NA	Analysis	Nitrate by calc		1			144016	03/05/24 09:48		EET HOU
Total/NA	Analysis	Total Nitrogen		1			141767	03/07/24 21:52	MC	EET HOU

Client Sample ID: City soils 6-18

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06

Lab Sample ID: 820-12091-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			100 g	100 mL	146967	02/26/24 08:55	PB	EET HOU
Soluble	Analysis	29B SAR		1			147062	02/26/24 12:03	JDM	EET HOU
Soluble	Prep	29B			100 g	100 mL	146967	02/26/24 08:55	PB	EET HOU
Soluble	Analysis	29B SAR		1			147073	02/26/24 16:44	JDM	EET HOU
Total/NA	Prep	MEHL Prep			2.01 g	20 mL	146970	02/26/24 09:17	PB	EET HOU
Total/NA	Analysis	6010C		1			147150	02/26/24 16:30	JDM	EET HOU
Total/NA	Analysis	29B_EC		1			152885	04/02/24 15:41	BW	EET HOU
Total/NA	Prep	29B			120 g	90 g	152886	04/02/24 15:43	BW	EET HOU
Total/NA	Prep	Sat Paste Ext			35.1 g	35.1 mL	152889	04/02/24 15:45	BW	EET HOU
Total/NA	Prep	29B			30 g	30 mL	151374	03/25/24 07:45	BW	EET HOU
Total/NA	Prep	Sat Paste Ext			30 g	30 g	151401	03/25/24 08:54	BW	EET HOU
Total/NA	Analysis	29B_pH		1			151460	03/25/24 14:02	BW	EET HOU
Total/NA	Analysis	351.2		10			148959	03/08/24 20:02	LD	EET HOU
Total/NA	Leach	Dry and Grind			150 g	150 g	148082	02/25/24 13:04	HN	EET HOU
Total/NA	Prep	KCI Extract			4.98 g	50 mL	148081	02/26/24 12:56	HN	EET HOU
Total/NA	Analysis	353.2		1	10 mL	10 mL	147597	02/26/24 18:10	HN	EET HOU

Eurofins Lubbock

Page 18 of 28

4/3/2024

Lab Chronicle

Client: City of Sundown
Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

Client Sample ID: City soils 6-18

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06 Lab Sample ID: 820-12091-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Leach	Dry and Grind			150 g	150 g	148082	02/25/24 13:04	HN	EET HOU
Total/NA	Prep	KCI Extract			4.98 g	50 mL	148081	02/26/24 12:56	HN	EET HOU
Total/NA	Analysis	353.2		1	10 mL	10 mL	147600	02/26/24 17:22	LD	EET HOU
Total/NA	Analysis	Nitrate by calc		1			144016	03/05/24 09:48	МС	EET HOU
Total/NA	Analysis	Total Nitrogen		1			141767	03/07/24 21:52	MC	EET HOU

Client Sample ID: City soils 18-30

Date Collected: 02/15/24 10:20 Date Received: 02/15/24 12:06 Lab Sample ID: 820-12091-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			100 g	100 mL	146967	02/26/24 08:55	PB	EET HOU
Soluble	Analysis	29B SAR		1	11.1 -		147062	02/26/24 12:05	JDM	EET HOU
Soluble	Prep	29B			100 g	100 mL	146967	02/26/24 08:55	PB	EET HOU
Soluble	Analysis	29B SAR		1			147073	02/26/24 16:44	JDM	EET HOU
Total/NA	Prep	MEHL Prep			2.01 g	20 mL	146970	02/26/24 09:17	PB	EET HOU
Total/NA	Analysis	6010C		1			147150	02/26/24 16:34	JDM	EET HOU
Total/NA	Analysis	29B_EC		1			152885	04/02/24 15:41	BW	EET HOU
Total/NA	Prep	29B			120 g	90 g	152886	04/02/24 15:43	BW	EET HOU
Total/NA	Prep	Sat Paste Ext			40.5 g	40.5 mL	152889	04/02/24 15:45	BW	EET HOU
Total/NA	Prep	Sat Paste Ext			20 g	20 mL	151658	03/26/24 13:43	BW	EET HOU
Total/NA	Prep	29B			20 g	20 g	151664	03/26/24 13:59	BW	EET HOU
Total/NA	Analysis	29B_pH		1			151667	03/26/24 14:13	BW	EET HOU
Total/NA	Leach	Dry and Grind			50 g	50 g	149745	02/28/24 12:14	LD	EET HOU
Total/NA	Prep	351.2			0.52 g	20 mL	147624	02/29/24 12:19	LD	EET HOU
Total/NA	Analysis	351.2		10			149735	03/06/24 14:50	LD	EET HOU
Total/NA	Leach	Dry and Grind			150 g	150 g	148082	02/25/24 13:04	HN	EET HOU
Total/NA	Prep	KCI Extract			4.96 g	50 mL	148081	02/26/24 12:56	HN	EET HOU
Total/NA	Analysis	353.2		1	10 mL	10 mL	147597	02/26/24 18:11	HN	EET HOU
Total/NA	Leach	Dry and Grind			150 g	150 g	148082	02/25/24 13:04	HN	EET HOU
Total/NA	Prep	KCI Extract			4.96 g	50 mL	148081	02/26/24 12:56	HN	EET HOU
Total/NA	Analysis	353.2		1	10 mL	10 mL	147600	02/26/24 17:23	LD	EET HOU
Total/NA	Analysis	Nitrate by calc		1			144016	03/05/24 09:48	MC	EET HOU
Total/NA	Analysis	Total Nitrogen		1			141767	03/25/24 10:26	MC	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Progra	am	Identification Number	Expiration Date
exas	NELAF		T104704215	06-30-24
	s are included in this report does not offer certification		not certified by the governing authori	ty. This list may include analytes
Analysis Method	Prep Method	Matrix	Analyte	
29B SAR	29B	Solid	Na	
29B SAR	29B	Solid	Sodium Adsorption Ratio	
29B_EC	29B	Solid	Electrical Conductivity	
29B_EC	29B	Solid	Specific Conductance	
29В_рН	29B	Solid	рН	
29B_pH	29B	Solid	Temperature	
29B_pH	Sat Paste Ext	Solid	рH	
29B_pH	Sat Paste Ext	Solid	Temperature	
351.2		Solid	Nitrogen, Kjeldahl	
351.2	351.2	Solid	Nitrogen, Kjeldahl	
Nitrate by calc		Solid	Nitrate as N	
Total Nitrogen		Solid	Nitrogen, Total	

Method Summary

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

lethod	Method Description	Protocol	Laboratory
98 SAR	Sodium Adsorption Ratio	LA	EET HOU
010C	Metals (ICP)	SW846	EET HOU
9B_EC	Conductivity, Electrical	LA	EET HOU
98_pH	pH	LA	EET HOU
51.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
53.2	Nitrogen, Nitrate-Nitrite	EPA	EET HOU
53.2	Nitrogen, Nitrite	EPA	EET HOU
itrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET HOU
otal Nitrogen	Nitrogen, Total	EPA	EET HOU
9B	Preparation, Dry, Grind and Sieve	LA	EET HOU
9B	Preparation, Sodium Absorption Ratio	LA	EET HOU
51.2	Nitrogen, Total Kjeldahl	EPA	EET HOU
ry and Grind	Preparation, Dry and Grind	None	EET HOU
CI Extract	Potassium chloride Extraction	EPA	EET HOU
CL Extraction	Potassium chloride Extraction - Auto Complete	EPA	EET HOU
EHL Prep	Preparation, MEHL	None	EET HOU
at Paste Ext	Saturated Paste Extraction	TAL SOP	EET HOU

Protocol References:

EPA = US Environmental Protection Agency

LA = Statewide Order No. 29-B, State Of Louisianna

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200





Sample Summary

Client: City of Sundown

Project/Site: City Soils annually

Job ID: 820-12091-1

SDG: WWTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-12091-1	City soils 0-6	Solid	02/15/24 10:20	02/15/24 12:06
820-12091-2	City soils 6-18	Solid	02/15/24 10:20	02/15/24 12:06
820-12091-3	City soils 18-30	Solid	02/15/24 10:20	02/15/24 12:06

4

5

9

11

(K

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paeo, TX (815) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 382-7560, Carisbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dalbae, TX (214) 902-0300 Little Rock, AR (501) 224-5060

Environment Testing

urofins

Loc: 820 12091



ı

Page	Work Order Comments	Program: UST/PST PRP Brownfields RRC Superfund		Reporting: Level II Clevel III PST/UST TRRP Level W	DD 🗌 ADaPT 🗆 Other:	Preservative Codes	None: NO DI Weter: H ₂ O	Cool: Cool MeOH: Me		H2SO4: H2 NBOH: NB	M₃PO₄: HP	NaHSO ₄ : NABIS	Na ₂ S ₂ O ₃ ; NaSO ₃	Zn Acetate+NaOH: Zn	NaOH+Ascorbic Acid: SAPC	Sample Comments								క్రి	U Hg: 1631 / 245.1 / 7470 / 7471	
		Program: UST	State of Project:	Reporting: Leve	Deliverables: EDD	ANAL YSIS REQUEST				7		1												Fe Pb Mg Mn Mo N	An Mo Ni Se Ag TI (
	Attor Selvie Gover	- Luccour	600	x 79373									0 /	2 6										13PPM Texas 11 At Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K	TCLP / SPLP 6010; BRCRA Sb As Be Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	
1			3 ,03	Sundans.	20 @ Suranut to com		Pres.			834	ater	FIBILI	₽4 -		-	# of Cont			1	_	_			Al Sb As Ba Be	RA Sb As Ba B	
	Bill to: (if different)	Company Name:	Address:	City, State ZIP:	1]	Tum Around	e 🗌 Rush		TAT starts the day received by	received by 4. July 11	: Yes Alg	トルエ	10.6		(B.)	d Depth Grab/ # of								3PPM Texas 11	8PLP 6010: 8RC	
	emo	Ludon or	aus (feed	R. 74372	Email:	مارم	Ro.	Due Date:		UNE MED.	Yes No Wet ton:	Thermometer ID:	Yes No New Comection Factor:	Temperature Reading:	Corrected Temperature:	Date Time Sampled Sampled	2-6-51020		200 pt 205-24 1020	0201 Jrc-22-Gmm				BRCRA 13		
98	Lee To	City of S	209 5, 51	100000	N6-24-13	City Soils and		子33	ee Janet		Temp Blank:	£ (Y88) NO.	18 65 S	Yes No Nuk	1.3	cation Matrix	2 - C " (VW	2		 30 "	\$			200.8 / 6020:	Metal(s) to be analy	
	Project Manager:	Company Name:	Address:	City, State ZIP		Project Name:	g.	Project Location:	ar's Name: [#0A	SAMPLE RECEIPT	Semples Received Intact:	Cooler Custody Seals:	Sample Custody Seals:	Total Containers:	Sample Identification	C. the soils 0		City 5:10 6"- (3"	-"81 Jis 45	•			Total 200.7 / 6010	Circle Method(s) and Metal(s) to be analyzed	

Received by: (Signature) of Eurofins Kenco. A minimum change of 845,00 will be applied to each project and a change of 85 for each eartiple exhibitized to Eurofins Xenco, but not enabyzed. These terms will be enforced unless praviously negotiated. Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquighed by: (Signature) maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.

- 7. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Wastewater Treatment Systems.
- 8. The permittee shall obtain representative soil samples from the root zones of the land application area. Composite sampling techniques shall be used. Each composite sample shall represent no more than 50 acres with no less than 10 to 15 subsamples representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

Samples shall be analyzed annually according to the following table:

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
pН	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	2:1 (v/v) water to soil mixture	0.01	dS/m (same as mmho/cm)
Nitrate-nitrogen	From a 1 N KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN plus Nitrate-nitrogen		mg/kg (dry weight basis)

Parameter	Method	Minimum Analytical	Reporting units
		Level	
		(MAL)	

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (K)	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K)	mg/kg (dry weight basis)
Amendment addition, e.g., gypsum			Report in short tons/acre in the year effected

A copy of this soil testing plan shall be provided to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 2) and the Compliance Monitoring Team (MC 224) of the Enforcement Division, no later than the end of September of each sampling year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land irrigation site(s) during that year.

- 9. The permittee shall maintain a long-term contract with the owner(s) of the land application site, which is authorized for use in this permit, or own the land authorized for land application of treated effluent.
- 10. The permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply for any area where treated effluent is stored or where there exist hose bibs or faucets. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
- 11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
- 12. Irrigation with effluent shall be accomplished only when the area specified is not in use.
- 13. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.

Page 35

3

E

6

8

2

12

mpler	Chain of C
Teel, Brianna	hain of Custody Record
Carrier Tracking No(s);	717
COC No: 820-8832.1	** CUPOTINS Environment Testi
No: 8832.1	UPOTITS Environment Testing

elinculatived by:	denoting poly.	Construction (specify)	Possible Hazard Klentification Uncommed	yots. Since laboratory acceditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyse & accreditation complishes upon our aboratory stoss not currently multitum accreditation in the State of Crigin Island above for analysis/lasts/matrix being sustyced, the samples must be shoped back to the Eurofins Environment above for analysis/lasts/matrix, the firequested accreditations are current to date, return the algred Chain					City soils 18-30 (820-12091-3)	City soils 6-18 (820-12091-2)	City soils 0-6 (820-12091-1)	Sample Identification - Client ID (Lab ID)		Stee.	Project Name: City Soils annually		Phone: 281-240-4200(TeJ)	State, Zip: TX, 77477	City: Stafford	idees: 145 Greenbriar Dr	Eurofins Environment Testing South Centr	Shipping/Receiving	Client Information (Sub Contract Lab)	Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phane: 806-794-1296
Date/firme:	y James	Primary Deriverable Ranic 2		Testing South Cerve for analysis/testral, LLC attention					2/15/24	2/15/24	2/15/24	Sample Date		SSOWE	Project #: 82001157	# OM	PO		TAT Requested (days):	Due Date Requested: 2/21/2024		PTORK	Sempler	
1	124	France Ranic		wrai, LLC piaces defination being a immediately. If i					Central Central	10:20 Centrai	10:20 Central	Time	40						days):	theck				Chain of Custody Record
	1750	`		the ownership or prehipsed, the ser all requested ac								- 144	Sample Type (Cacamp,											of Cust
Company	Company			d method, anely notes must be a preditations are					Solid	Solid	Solid											Brian	Teel, B	lody R
Rec Rec	Rece	Special Instructions/ICC Req	Camp	/e & accredit chipped back current to de	H			F	×	×	×	dia	B_SAR_Culo	1100							NELAP Texas	s-Mail: Brianna. Teel@et.eurofinsus.com	Teel, Brianna	ecord
Contract of the same	aceived by:	lustruc.	Otspo etum 7	adon con to the Eu	\Box	\Box			×	×	×		10C/MEHL_P	_	_	_	_	TVN			exas	Leurofi	5 0	
W		porision	sal (A	Otience rofens Er the aign	H	H	+	+	×	×	×		3.2/Dry_Grine	_	(40100	The feet of the fe	Marit (11117		≥	0 (500)	nsus.o		
			, 46 W	Apon out		П		F	×	×	×		3.2_Nitrita/Dr	y_Grin	d			_		Analysi		ă		
1		urements:	[]8	of Cust	1	+	+	-	×	×	×		trogen,Total trate_Calc/KC	L_Ext	AC		_		-	<u>50</u>				
		M.	Dispo	wract le		\forall	_		×	×	×	28	B_EC/29B_P	ep_80	lid					Requested		Texas	0	
2 2	Depart in	200	sed If samp	boratories. The h Central, LLC reting to said of					×	×	×	28	B_)H(129B_Pi	*P_80	lid					ted		Texas	Carmor Traciding No(s):	
2716	Depart inter		les ave net	s sample ships laboratory or o ampliance to E								E											**	
124 9:30			Sample Disposal (A fee may be assessed if samples are retained longur than 1 Return To Client Disposal By Lab Archive For	r aubcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the mit Testing South Central, LLC laboratory or other restructors will be provided. Any changes n of Custody attesting to said compilation to Eurofins Environment Teeting South Central, LLC		3.5			74				ig Weige goed to Weige goed to	Other	>			D Nitric Acid	C to 3	Preservation Codes:	820-12091-1	Page 1 of 1	620-8832.1	eurofins 💸
Company (<	Company		than 1 month) Months	hain-of-custody. If the rovided. Any changes to fing South Central, LLC.			9	8	2369			Special instructions/Note:				V MCAA			N None O AsNag2	des: M. Hexene				Environment Testing

Job Number: 820-12091-1

SDG Number: WWTP

List Source: Eurofins Lubbock

Login Number: 12091

List Number: 1

Creator: Triplett, Colby

arada riskings, acray		
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: City of Sundown

Job Number: 820-12091-1

SDG Number: WWTP

Login Number: 12091

List Source: Eurofins Houston List Creation: 02/16/24 01:47 PM

List Number: 2

Creator: Baker, Jeremlah

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Candice Calhoun

From: Paul Krueger < PKrueger@Parkhill.com> Sent: Wednesday, December 4, 2024 1:52 PM To: Erwin Madrid; billy@sundowntx.com

Cc: Candice Calhoun

RE: Application for Permit No. WQ0011253001 - Notice of Deficiency 30-Day Will **Subject:**

Return Letter

Attachments: WQ0011253001_NOD-1_Response.pdf; Municipal TPDES and TLAP PLS Form.docx

Follow Up Flag: Follow up Flag Status: Flagged

All,

Please find the attached complete response to NOD 1 for the City of Sundown WWTP Permit Renewal.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

From: Erwin Madrid < Erwin. Madrid@tceq.texas.gov>

Sent: Monday, December 2, 2024 12:08 PM

To: billy@sundowntx.com

Cc: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>; Paul Krueger < PKrueger@Parkhill.com> Subject: Application for Permit No. WQ0011253001 - Notice of Deficiency 30-Day Will Return Letter

Importance: High

Dear applicant,

The attached Notice of Deficiency 30-Day Will Return Letter was mailed on December 2, 2024, requesting additional information needed to declare the application administratively complete. Please mail an original and two copies (with a cover letter) of the complete response by January 1, 2025.

Regards,

Erwin Madrid Team Lead ARP Team | Water Quality Division 512-239-2191

Texas Commission on Environmental Quality



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

Candice Calhoun

From: Paul Krueger < PKrueger@Parkhill.com>
Sent: Thursday, December 5, 2024 11:11 AM

To: Candice Calhoun; Erwin Madrid; billy@sundowntx.com

Subject: RE: Application for Permit No. WQ0011253001 – Notice of Deficiency 30-Day Will

Return Letter

Attachments: Municipal TPDES and TLAP PLS Form.docx

Follow Up Flag: Follow up Flag Status: Flagged

Good morning,

My apologies for leaving out the flow information. I have attached an updated PLS with discharge information for the final phase flow.

We will keep an eye out for confirmation on the letter and Notice of Completion. I have the form filled out from March, but unfortunately I do not have a copy of the signed version that was mailed out. We can resend a new form if needed, just let me know.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Thursday, December 5, 2024 9:59 AM

To: Paul Krueger < PKrueger@Parkhill.com>; Erwin Madrid < Erwin.Madrid@tceq.texas.gov>; billy@sundowntx.com

Subject: RE: Application for Permit No. WQ0011253001 - Notice of Deficiency 30-Day Will Return Letter

Importance: High

Good morning, Mr. Krueger,

Thank you for your response. Your response to items 1 and 4 is sufficient. For item 2, I am still awaiting confirmation from my team that the letter and Notice of Completion, that you sent in March of 2023, was received. I have reached back out for an update so once I receive a response, I will follow up with you to inform you if it was received or not. As for item 3, the Plain Language Summary provided is missing the discharge flow information. Please provide an updated PLS to include this information.

Please let me know if you have any additional questions.

Regards,

Candice Calhoun

From: Paul Krueger < PKrueger@Parkhill.com>
Sent: Thursday, December 5, 2024 11:58 AM

To: Candice Calhoun; Erwin Madrid; billy@sundowntx.com

Subject: RE: Application for Permit No. WQ0011253001 – Notice of Deficiency 30-Day Will

Return Letter

Attachments: notice of completion_phase of waste water.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Ms. Calhoun,

Billy with the City was able to track down the signed letter/form and USPS receipt. Thank you Billy! Please see the attachment and let us know if we need to provide anything further.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

From: Paul Krueger

Sent: Thursday, December 5, 2024 11:11 AM

To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>; Erwin Madrid <Erwin.Madrid@tceq.texas.gov>;

billy@sundowntx.com

Subject: RE: Application for Permit No. WQ0011253001 - Notice of Deficiency 30-Day Will Return Letter

Good morning,

My apologies for leaving out the flow information. I have attached an updated PLS with discharge information for the final phase flow.

We will keep an eye out for confirmation on the letter and Notice of Completion. I have the form filled out from March, but unfortunately I do not have a copy of the signed version that was mailed out. We can resend a new form if needed, just let me know.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

From: Candice Calhoun < Candice. Calhoun@tceq.texas.gov>

Sent: Thursday, December 5, 2024 9:59 AM

To: Paul Krueger < PKrueger @ Parkhill.com >; Erwin Madrid < Erwin.Madrid@tceq.texas.gov >; billy@sundowntx.com



Candice Calhoun-Courville Applications Review and Processing Team (MC148) Texas Commission on Environmental Quality Water Quality Division

Re: Application to Renew Permit No.: WQ0011253001

Applicant Name: City of Sundown (CN600741110) Site Name: City of Sundown WWTP (RN101916955)

Type of Application: Renewal

Dear Candice:

We have received the Notice of Deficiency (NOD) letter dated November 12, 2024, requesting additional information for the above referenced permit renewal application. Please find our complete response below.

1. <u>Comment</u>: Administrative Report 1.0, Section 2, item a – an incorrect authorization type was marked. The box listed as "Conventional Wastewater Treatment" is an error on our end and should say "Conventional Water Treatment". This is the incorrect authorization type. Please provide an updated section to show the correct authorization type marked.

Response: Please see Attachment 1 for an updated section indicating the correct authorization.

2. <u>Comment</u>: Technical Report 1.0, Section 1, Item a – the interim I phase flow information was not listed. Please provide an updated section to show the interim flow information listed.

Response: Interim I phase flow was not provided because as of March 06, 2023 the facility has been operating in the final phase of the permit.

3. <u>Comment</u>: The Plain Language Summary (PLS), in English Language, was missing from the application. Please use the provided template to provide a complete PLS, in English Language.

<u>Response</u>: The completed Plain Language Summary has been provided on the template as an attachment to our response email. A PDF version is provided as Attachment 2 for reference.

4. <u>Comment</u>: The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. City of Sundown, P.O. Box 600, Sundown, Texas 79372, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0011253001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 175,000 gallons per day via surface irrigation of 50 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1 mile northwest of the intersection of Farm-to-Market Road 301 and Farm-to-Market Road 303, near the city of Sundown, in Hockley County, Texas 79372. TCEQ received this application on November 7, 2024. The permit application will be available for viewing and copying at Sundown City Hall, main entrance, 809 South Slaughter Avenue, Sundown, in Hockley County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available

electronically at the following webpage:

https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This 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=-102.494444,33.469444&level=18

Further information may also be obtained from City of Sundown at the address stated above or by calling Mr. Billy Hernandez, C.P.M., City Administrator, at 806-229-3131.

Response: No errors or omissions were found in the NORI.

Sincerely,

PARKHILL

Paul Krueger, PE Civil Project Manager

PSK
Enclosures
Attachment 1 – Revised Administrative Report 1.0, Section 2
Attachment 2 - Completed Plain Language Summary

cc: Billy Hernandez, City of Sundown, PO Box 600, Sundown, TX 79372

Attachment 1

Updated Administrative Report - Section 1

THE THE PART OF TH

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 In	nforma	tion
------------	--------	------

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY Voucher Number: 728131

Copy of Payment Voucher enclosed? Yes

✓

Section 2. Type of Application (Instructions Page 26)

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

Attachment 2 Plain Language Summary

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

This template is a guide to assist applicant's in developing a plain language summary as required by 30 Texas Administrative Code Chapter 39 Subchapter H. Applicant's may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

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

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

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

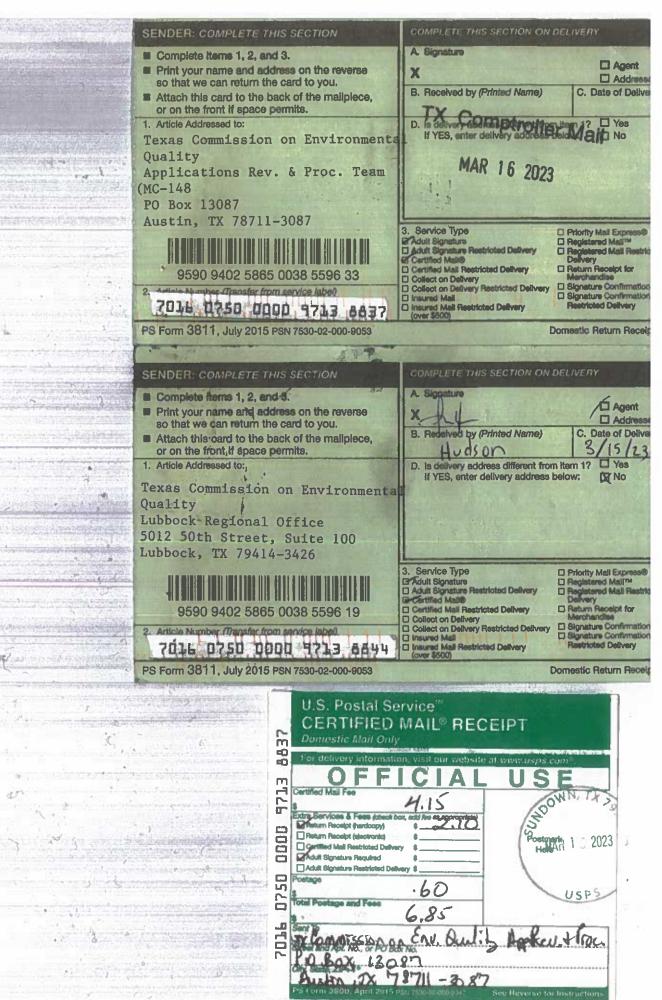
DOMESTIC WASTEWATER

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

City of Sundown (CN600741110) operates City of Sundown WWTP (RN101916955). a facultative lagoon treatment system. The facility is located approximately 1 mile northwest of the intersection of FM 301 and FM 303, in Sundown, Hockley County, Texas 79372.

Application is requesting renewal of existing permit to discharge 175,000 gallons per day of treated domestic wastewater. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD. Domestic Wastewater is treated by *a facultative lagoon system*.



Texas Commission on Environmental Quality Applications Review and Processing Team (MC-148) P.O. Box 13087 Austin, Texas 78711-3087

Re:

City of Sundown Wastewater Treatment Facility (WQ0011253001)

Notification of Completion of Final Phase

Ladies and Gentlemen:

This letter is to notify you that the City of Sundown Wastewater Treatment Facility will soon be operating in the final phase as defined in the permit referenced above. Please see the attached Notification of Completion form.

If you have any questions regarding this issue, please contact Paul Krueger, P.E. at (806) 473-2200.

Sincerely,

Billy Hernandez, CPM

City Administrator - Sundown, TX

cc: Texas Commission on Environmental Quality

Lubbock Regional Office 5012 50th Street, Suite 100 Lubbock, Texas 79414-3426



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY NOTIFICATION OF COMPLETION/PHASE OF WASTEWATER TREATMENT FACILITY

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

Current Permit Information

What is the TCEQ Water Quality Permit Number? WQ0011253001

What is the EPA I.D. Number? TX N/A

Current Name on Permit: City of Sundown WWTP

Notification

- Interim Phase I Flow
- Interim Phase II Flow
- Interim Phase III Flow
- Final Phase Flow

Indicate the date that the operation began or will begin operating under the selected phase:

Month/Day/Year: 03/06/2023

Comments:

Certification and Signature

Responsible Official Name (Print or Type): Billy Hernandez, CPM

Responsible Official Title: City Administrator

Responsible Official Email: billy@sundowntx.com

I 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.

Signature (use blue ink);

Date: 3 13 2023

Email completed form to:

WQ-ARPTeam@tceq.texas.gov

or

Fax completed form to:

512-239-0884

or mail completed form to:

Texas Commission on Environmental Quality

Applications Review and Processing Team (MC-148)

P.O. Box 13087

Austin TX 78711-3087

To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.



Compliance History Report

Compliance History Report for CN600741110, RN101916955, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

Customer, Respondent, CN600741110, City of Sundown Classification: SATISFACTORY Rating: 0.75

Regulated Entity: RN101916955, CITY OF SUNDOWN Classification: SATISFACTORY Rating: 1.41

Complexity Points: 8 Repeat Violator: NO

CH Group: 08 - Sewage Treatment Facilities

Location: 706 S SLAUGHTER AVE SUNDOWN, TX 79372-9807, HOCKLEY COUNTY

TCEQ Region: REGION 02 - LUBBOCK

ID Number(s):

or Owner/Operator:

PUBLIC WATER SYSTEM/SUPPLY REGISTRATION WASTEWATER PERMIT WQ0011253001

1100003

Compliance History Period: September 01, 2019 to August

Compliance History Period: September 01, 2019 to August 31, 2024 Rating Year: 2024 Rating Date: 09/01/2024

Date Compliance History Report Prepared: December 16, 2024

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial,

suspension, or revocation of a permit.

Component Period Selected: November 07, 2019 to December 16, 2024

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: PT Phone: (512) 239-3581

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period? YES

2) Has there been a (known) change in ownership/operator of the site during the compliance period?

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:

1 Effective Date: 12/03/2019 ADMINORDER 2019-0295-MWD-E (1660 Order-Agreed Order With Denial)

Classification: Moderate

Citation: 30 TAC Chapter 305, SubChapter F 305.125(1)

Rgmt Provi Special Provision 14 PERMIT

Description: Failure to provide liner certification documents for the settling basins and aerobic lagoons.

B. Criminal convictions:

N/A

C. Chronic excessive emissions events:

N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):

N/A

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):

A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

	N/A
G.	Type of environmental management systems (EMSs): $\ensuremath{N/A}$
н.	Voluntary on-site compliance assessment dates: $\ensuremath{N/A}$
I.	Participation in a voluntary pollution reduction program: $\ensuremath{\text{N/A}}$
J.	Early compliance: N/A
Sites Outside of Texas:	

F. Environmental audits:

Senate Bill 709 (84th Legislative Session, 2015) amended the Texas Water Code by adding new Section 5.5553, which requires the Texas Commission on Environmental Quality (TCEQ) to provide written notice to you at least thirty (30) days prior to the TCEQ's issuance of draft permits for applications that are located in your district.

City of Sundown, P.O. Box 600, Sundown, Texas 79372, has applied to the TCEQ to renew Texas Land Application Permit No. WO0011253001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 175,000 gallons per day via surface irrigation of 50 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1 mile northwest of the intersection of Farm-to-Market Road 301 and Farm-to-Market Road 303, near the city of Sundown, in Hockley County, Texas 79372. TCEQ received this application on November 7, 2024. The permit application will be available for viewing and copying at Sundown City Hall, main entrance, 809 South Slaughter Avenue, Sundown, in Hockley County, Texas, The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. 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=-102.494444,33.469444&level=18

TCEQ is preparing the initial draft permit. At the time the draft permit is issued, the applicant will be required to publish notice in a newspaper of general circulation, and the TCEQ will provide a copy of the notice of draft permit to persons who have requested to be on a mailing list.

Questions regarding this application may be directed to Mr. Deba Dutta, P.E., by calling 512-239-4608.
Issuance Date:

TCEQ Interoffice Memorandum

To: Deba Dutta, P.E., Leader, Municipal Permits Team

From: April Hoh, P.G., Geologist, Water Quality Assessment Team

Date: December 19, 2024

Subject: Geology Compliance Review of Groundwater-Related Special Provisions for

Permit No. WQ0011253-001, City of Sundown, Renewal, Hockley County

Based upon the review of the existing permit language the WQA Team reviewing geologist recommends the following modifications to special provisions:

Recommendations:

1. Add a bolded statement to the bottom of Special Provision 18 identifying that they are not submitting groundwater data to the WQA Team. See last paragraph of that provision to show where to add the bolded statement:

"The permittee shall compile the results of the annual groundwater monitoring in a summary letter to be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC Region 2) by September 30th of each year. The annual submission must include laboratory reports.

The Water Quality Assessment Team (MC-150) has not been receiving the compiled results and laboratory reports annually."

Add the following as a new provision to address any wells near the irrigation field:

2. The permittee shall comply with the buffer zone requirements of 30 TAC §309.13(c), specifically regarding water wells. The permittee must locate the wastewater irrigation fields a minimum horizontal distance of 500 feet from public water wells, springs, or other similar sources of public drinking water; and 150 feet from private water wells.

From: <u>Sara Holmes</u>

To: <u>pkrueger@parkhill.com</u>

Cc: April Hoh; billy@sundowntx.com

Subject: WQ0011253001 City of Sundown - Notice of Deficiency (NOD)

Date: Thursday, December 12, 2024 2:26:12 PM

Attachments: <u>11253-001.NOD.Dec2024.docx</u>

Good afternoon,

We have received the renewal application for WQ0011253001 – City of Sundown, and it is missing information necessary to complete our review. Please provide the updated information listed above in the attachment of this email within **15 days** or by December 27th, 2024.

Any revisions can be sent electronically. If you have any questions, please feel free to contact either April Hoh or myself.

Thank you,

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

CITY OF SUNDOWN PERMIT APPLICATION NO. WQ0011253001 APPLICATION FOR A RENEWAL Technical Completeness Review

Please address the following items:

GEOLOGY ITEMS

1. It appears that the Water Quality Assessment Team has not received groundwater monitoring data required by Special Provision 18 since 2022. Please submit the data and laboratory reports for 2023 and 2023.

AGRONOMY ITEMS

- 1. Domestic Worksheet 3.0, Section 2. Land Application Site(s) Please include the land use (hay land, pastureland, etc.) in column 1 of Table 3.0(1) and the permitted flow rate of 0.175MGD in column 3 instead of the permitted application rate.
- 2. Domestic Worksheet 3.0, Section 5. Annual Cropping Plan Please include quantitative values for the nutrient (Nitrogen and Phosphorus) requirements of native grasses and Jose Wheatgrass in the cropping plan. A reputable source for this info can be found using the Texas A&M Agrilife Extension **S crops table**: Nutrient Management Planning Tools.

For geology/groundwater-related questions, please contact April Hoh, P.G. via email at April.Hoh@tceq.texas.gov (preferred) or at 512-239-3567 and for agronomy related questions, please contact Sara Holmes via email at Sara.Holmes@tceq.texas.gov (preferred) or at 512-239-4534.

From: Paul Krueger
To: Sara Holmes

Cc: April Hoh; billy@sundowntx.com; Jordan Duarte

Subject: RE: WQ0011253001 City of Sundown - Notice of Deficiency (NOD)

Date: Wednesday, December 18, 2024 9:00:16 AM

Attachments: 11253-001.NOD2 Response.pdf

Good Morning Sara,

Please see our attached response to the referenced NOD. Feel free to let me know if you need anything further.

Thank you,

Paul Krueger, PE

Civil Engineer

Parkhill

806.473.3715 | Parkhill.com

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

Sent: Thursday, December 12, 2024 2:26 PM **To:** Paul Krueger < PKrueger@Parkhill.com>

Cc: April Hoh <april.hoh@tceq.texas.gov>; billy@sundowntx.com **Subject:** WQ0011253001 City of Sundown - Notice of Deficiency (NOD)

Good afternoon,

We have received the renewal application for WQ0011253001 – City of Sundown, and it is missing information necessary to complete our review. Please provide the updated information listed above in the attachment of this email within **15 days** or by December 27th, 2024.

Any revisions can be sent electronically. If you have any questions, please feel free to contact either April Hoh or myself.

Thank you,

Sara Holmes
Natural Resource Specialist II
Water Quality Assessment Team

12100 Park 35 Circle Austin, TX 78753 512-239-4534

This email has been scanned for spam and viruses by Proofpoint Essentials. Click <u>here</u> to report this email as spam.



Sara Holmes
Natural Resource Specialist II
Water Quality Division
Texas Commission of Environmental Quality
12100 Park 35 Circle
Austin, TX 78753

Re: Application to Renew Permit No. WQ0011253001

Issued to City of Sundown (CN600741110, RN101916955)

Dear Ms. Holmes,

We have received the Notice of Deficiency letter in the above referenced application in your e-mail dated December 12, 2024, and provide the following response.

GEOLOGY ITEMS

 Comment: It appears that the Water Quality Assessment Team has not received groundwater monitoring data required by Special Provision 18 since 2022. Please submit the data and laboratory reports for 2023 and 2023.

Response: See Attachment 1 for copies of Groundwater Monitoring Data.

AGRONOMY ITEMS

1. Comment: Domestic Worksheet 3.0, Section 2. Land Application Site(s) – Please include the land use (hay land, pastureland, etc.) in column 1 of Table 3.0(1) and the permitted flow rate of 0.175MGD in column 3 instead of the permitted application rate.

Response: Please see Attachment 2 for an updated version of Table 3.0(1).

Comment: Domestic Worksheet 3.0, Section 5. Annual Cropping Plan – Please include quantitative values for the nutrient (Nitrogen and Phosphorus) requirements of native grasses and Jose Wheatgrass in the cropping plan. A reputable source for this info can be found using the Texas A&M Agrilife Extension S crops table: Nutrient Management Planning Tools.

Response: Please see Attachment 3 for an updated Annual Cropping Plan.

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

Sincerely,

PARKHILL

Paul Krueger, P.E. Civil Engineer

PK/jd Enclosures

cc: Mr. Billy Hernandez, City Administrator, City of Sundown, P.O. Box 600, Sundown, Texas 79372

Attachment 1 Groundwater Monitoring Data

Hoddanldaddladlalladladladladladladla

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600

40B SYS

WQ0011253-001 PERMIT NUMBER

TELEPHONE NUMBER

AREA CODE

NUMBER

01 SET

WELL MON 401 SEMI-ANN UP-GRADIENT

17423 EID





EASE RETAIN A PHO	1 10007	FFLUENT CONDITION)N	NO.	F	REQUENCY		SAMPLE
PARAMETER		VALUE	UNITS	EX.	(OF ANALYSIS		TYPE
006001030 TOT NIT	REPORTED	20.1	MG/L				0.4	O.A. UD. COMP.
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP
006101030 NH3-N	REPORTED	40.100	MG/L		0.1	D (VEAD	04	24-HR COMP
IND GRAB	PERMITTED				21	2/YEAR	04	24-HK COMP
006201030 NO3-N	REPORTED	20.1	MG/L			O (MEAD	04	24-HR COMP
IND GRAB	PERMITTED				21	2/YEAR	04	24-HK COMP
006651030)T PHOS	REPORTED	40.0300	MG/L	1		0.07545	0.4	DA UD COMD
IND GRAB	PERMITTED			_	21	2/YEAR	04	24-HR COMP
316164030 FEC.COLI	REPORTED	< LO	#/100 ML			O WEAR	04	24-HR COMP
IND GRAB	PERMITTED				21	2/YEAR	04	24-HK COME
702951030 TDS	REPORTED	1560	MG/L			235	0.4	O.A. HD. COME
IND GRAB	PERMITTED			Write	21	2/YEAR	04	24-HR COMF
825463130 WATER LV	REPORTED	159	FEET	÷		(3) =	104	O.4 UD COM
IND GRAB	PERMITTED		10.00	110	21	2/YEAR	04	24-HR COMI
NUMBER OF OPERATOR	REPORTED	wwm35755	NUMBER			7 10, 714	NA	NIX
CERTIFICATE	PERMITTED		1 100 100	- E	01	01	NA	NA 1
EXPIRATION OF OPERATOR	REPORTED	02/05/2026	DATE	.78 .78	0.4	100	NA NA	NA = *
CERTIFICATE	PERMITTED		3/2	- 1	01	01	24 NA	TO SECURE
CLASS OF OPERATOR	REPORTED	C	LETTER			A STATE OF THE STATE OF	SO NIA	NA .
CERTIFICATE	PERMITTED		A TANKE Y	100	0,	01	N/	NA PROPERTY
	REPORTED	REC	EIVED	7.1				
	PERMITTED	1120	0.0.0000			100		M - F - SEPERATE
COMMENTS AND EXPLA	NATIONS (Reference	all attachments here MAK	2 2 2023			R		
			TCEQ					
RTIFY THAT I AM FAMILIA	AR WITH THE INFORMATIO	N REGNAM	5 - LABROCK			SIGNATURE	1	DATE

PLANT OPERATOR

EXECUTIVE OFFICER/

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087 MONTHLY EFFLUENT REPORT

Harlidand Idada billimila Harlia Harlia Harl

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600

40B SYS WQ0011253-001 PERMIT NUMBER 01 SET 23 3 YEAR MO.

17425 EID





HIS REPORT TO BE USED FOR WELL MON 601 SEMI-ANN DOWN-GRADIENT

EE BACK FOR INSTRUCTIONS AND DEFINITIONS.

LEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

TCEQ COPY

PARAMETER

EFFLUENT CONDITION
PARAMETER

VALUE

UNITS

REPORTED

NO. FREQUENCY
OF ANALYSIS

TYPE

		EFFLUENT CONDITION	N	NO.		REQUENCY		SAMPLE
PARAMETER		VALUE	UNITS	EX.	(OF ANALYSIS		TYPE
006001030 TOT NIT	REPORTED	22.1	MG/L			404 400		
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP
006101030 NH3-N	REPORTED	50,100	MG/L					
IND GRAB	PERMITTED		\$ 9.75 J. 19.5	The same	21	2/YEAR	:04	24-HR COMP
006201030 N03-N	REPORTED	21.15	MG/L				6.40	
IND GRAB	PERMITTED		alarahan (xi s	-	21	2/YEAR	04	24-HR COMP
006651030 T PHOS	REPORTED	<0.0200	MG/L	4				
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP
316164030 FEC.COLI	REPORTED	115	#/100 ML			TOTAL TOTAL		
IND GRAB	PERMITTED			10	21	2/YEAR	04	24-HR COMP
702951030 TDS	REPORTED	1735	MG/L			11 % 174 % 113 % 20 %		
IND GRAB	PERMITTED		《特别》。据 统	2	21	2/YEAR	04	24-HR COMP
825463130 WATER LV	REPORTED	161	FEET	100				
IND GRAB	PERMITTED	Tradebook a s	1221	1	21	2/YEAR	04	24-HR COMP
NUMBER OF OPERATOR	REPORTED	ww0035755	NUMBER					
CERTIFICATE	PERMITTED	一颗肾量 人民 教司	· 经数据定分 197		01	015337	: NA	NA SEE
EXPIRATION OF OPERATOR	REPORTED	02/05/2026	DATE	· · · · · · · · · · · · · · · · · · ·				
CERTIFICATE	PERMITTED		。 透贈《远話》		01	01	5 NA	NA SA
CLASS OF OPERATOR	REPORTED	C	LETTER					
CERTIFICATE	PERMITTED		1 計劃電影		-01	1013以东西设施	N/	A NA
	REPORTED							
	PERMITTED		可是對於,如其他		1	S STREET		对背景的意思和
1								

PRTIEV THAT I AM FAMILIAR WITH THE INFORMATION	_ NAME	SIGNATURE	DATE
CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.		Tilled Till	23 9321
. TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO. DA
81016 21219 31/131/	BillyHerronde	1 January III III	23032

O. BOX 13087 • AUSTIN, TEXAS 78711-3087 MONTHLY EFFLUENT REPORT

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600



SEP 2 8 2023

TCEQ 2 - LUBBOCK





PAGE

WQ0011253-001

PERMIT NUMBER

SET

YEAR MO.

17425 EID

THIS REPORT TO BE USED FOR

40B

SYS

WELL MON 601 SEMI-ANN DOWN-GRADIENT

SEE BACK FOR INSTRUCTIONS AND DEFINITIONS.

TCEQ COPY

PARAMETER		EFFLUENT CONDITIO		NO	100	FREQUENCY			
PARAMETER		VALUE	UNITS	EX.	(OF ANALYSIS		TYPE	
006001030 FOT NIT	REPORTED	22.3	MG/L			a sa Bara aki nakin			
IND GRAB	PERMITTED		Section 1996	TIVE S	21	2/YEAR	04	24-HR COMP	
006101030 NH3-N	REPORTED	0	MG/L						
IND GRAB	PERMITTED		telle.		21	2/YEAR	04	24-HR COMP	
006201030 NO3-N	REPORTED	20.8	MG/L						
IND GRAB	PERMITTED		na Acce	Ten	21	2/YEAR	04	24-HR COMP	
006651030 T PHOS	REPORTED	<0.0200	MG/L						
IND GRAB	PERMITTED		5 10 5 4 6 6 5		21	2/YEAR	04	24-HR COMP	
316164030 FEC.COLI	REPORTED	100	#/100 ML	7					
IND GRAB	PERMITTED	(51)		100	21	2/YEAR	04	24-HR COMP	
702951030 TDS	REPORTED	2030	MG/L						
IND GRAB	PERMITTED		Section seath	5	21	2/YEAR	0.4	24-HR COMP	
825463130 WATER LV	REPORTED	162	FEET						
IND GRAB	PERMITTED	A Street of the	RET C. I.	9	21	2/YEAR	04	24-HR COMP	
NUMBER OF OPERATOR	REPORTED	www.035755 c	NUMBER				5		
CERTIFICATE	PERMITTED	- 1919/11 - 1419 35 4	自己被压力。200		01	01 4 2 2 2 2 2	-NA	NA NE SERVE	
EXPIRATION OF OPERATOR	REPORTED	02/05/2026	DATE				1)		
CERTIFICATE	PERMITTED		7657		01	01	NA	NA SE	
CLASS OF OPERATOR	REPORTED	C	LETTER			示。第19章指导数	A	Us a M	
CERTIFICATE	PERMITTED		行為可以自然的	·	01	01333	ŃΑ	NA	
	REPORTED								
	PERMITTED				100	THE RESERVE	3 5 19	分析以及在重新	

PRTIFY THAT I AM FAMILIAR WITH THE INFORMATION	NAME	SIGNATURE	DATE
CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.	Librado Tornez	Jula Life	2301926
TELEPHONE NUMBER	PLANT OPERATOR	CELANT OPERATOR	YEAR MO. DAY
81016 2129 31/131/	BillyHorande	Second of the second	230826

O BOX 13087 • AUSTIN, TEXAS 78711-3087 MONTHLY EFFLUENT REPORT

Badlaladdaladdhadladhadladladladladlad

CITY OF SUNDOWN ATTN: GARY PO BOX 600

SUNDOWN TX 79372-0600

40B SYS

WQ0011253-001 PERMIT NUMBER 02 SET 23 09 YEAR MO.

12792 EID





TCEQ COPY

THIS REPORT TO BE USED FOR SOIL MON 101 ANN 0-6
SEE BACK FOR INSTRUCTIONS AND DEFINITIONS.
PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

PARAMETER		FFLUENT CONDITI		NO.	FREQUENCY		SAMPLE	
PARAMETER		VALUE	UNITS	EX.		OF ANALYSIS		TYPE
004006080 PH	REPORTED	NA	STD UNIT					
MAXIMUM	PERMITTED	, ,			22	1/YEAR	04	24-HR COMP
006001430 TOT NIT	REPORTED	NA	MG/KG					
IND GRAB	PERMITTED	6.	No.		22	1/YEAR	04	24-HR COMP
006651430 TOT PHOS	REPORTED	NA	MG/KG					
IND GRAB	PERMITTED				22	1/YEAR	04	24-HR COMP
009371430 TSSIUM	REPORTED	NA	MG/KG					
ND GRAB	PERMITTED		M35555		22	1/YEAR	04	24-HR COMP
009504280 CNDUCTVY	REPORTED	NA	MICMHOS				2	
MUMIXAM	PERMITTED				22	1/YEAR	04	24-HR COMP
NUMBER OF OPERATOR	REPORTED	UW0035755	NUMBER					
CERTIFICATE	PERMITTED			FINE	01	01	NA	NA
EXPIRATION OF OPERATOR	REPORTED	2/05/2026	DATE	3/1				
CERTIFICATE	PERMITTED	1/2			01	01	NA	NA
CLASS OF OPERATOR	REPORTED	C	LETTER					
CERTIFICATE	PERMITTED		1.50		01	01	NA	NA
	REPORTED			17				
	PERMITTED		Emileting of	100				
	REPORTED						114	
	PERMITTED		100					
	REPORTED							
	PERMITTED			AUS.				
COMMENTS AND EXPLANA	ATIONS (Reference all	attachments here)						

RTIF THAT I AM FAMILIAR WITH THE INFORMATION		SIGNATIBE	DATE
TAINED IN THIS REPORT AND THAT TO THE BEST OF M KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AN COMPLETE AND ACCURATE.	/	The Fif	213019216
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPENATOR	YEAR MO. DAY
806 229 3131	Bill Lordends	Sal	2130926
ÁREA CODE NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO. DAY

P.O. BOX 13087 • AUSTIN, TEXAS 78711-3087 MONTHLY EFFLUENT REPORT

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600

40B SYS

WQ0011253-001 PERMIT NUMBER 01 SET 23 09 YEAR MO.

17424 EID



PAGE

1

THIS REPORT TO BE USED FOR WELL MON 501 SEMI-ANN DOWN-GRADIENT

SEE BACK FOR INSTRUCTIONS AND DEFINITIONS.

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

TCEQ COPY

EASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.							ICE	ICEW COPY	
PARAMETER				NO.	FREQUENCY		SAMPLE		
PARAMETER		VALUE	UNITS	EX.		OF ANALYSIS		TYPE	
006001030 TOT NIT	REPORTED	20.5	MG/L						
IND GRAB	PERMITTED		- E.K.	1 100	21	2/YEAR	04	24-HR COMP	
006101030 NH3-N	REPORTED	0	MG/L			E			
IND GRAB	PERMITTED		The state of	210	21	2/YEAR	04	24-HR COMP	
006201030 NO3-N	REPORTED	19.3	MG/L	3			4		
IND GRAB	PERMITTED		11.70		21	2/YEAR	04	24-HR COMP	
006651030 T PHOS	REPORTED	0.0235	MG/L	*					
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP	
316164030 FEC.COLI	REPORTED	67	#/100 ML			- 19 ty, 1s			
IND GRAB	PERMITTED		24000 7 10		21	2/YEAR	04	24-HR COMP	
702951030 TDS	REPORTED	2165	MG/L			35 3			
IND GRAB	PERMITTED	7			21	2/YEAR	04	24-HR COMP	
825463130 WATER LV	REPORTED	160	FEET			M. Indian			
IND GRAB	PERMITTED		12 3 2 48		21	2/YEAR	04	24-HR COMP	
NUMBER OF OPERATOR	REPORTED	ww0035755	NUMBER						
CERTIFICATE	PERMITTED	100 miles	一直被火火	- 1	.01	01	NA	NA	
EXPIRATION OF OPERATOR	REPORTED	02/05/2026	DATE						
CERTIFICATE	PERMITTED				.01	01	NA	NA -	
CLASS OF OPERATOR	REPORTED	C	LETTER	1880 7-18 1					
CERTIFICATE	PERMITTED				01	01	NA	NA	
	REPORTED			911 931					
	PERMITTED	The state of the			1 - 1		500	10 1 图 12 1 1 1 1 1 1	

ATIFY THAT I AM FAMILIAR WITH THE INFORMATION CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY	NAME	SIGNATURE,	DATE
KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.	Librado Torrez	mike //	213 019 216
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO. DAY
8062293131	Billy Donando	Rate	230826
ARFA CODE NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO. DAY

O. BOX 13087 • AUSTIN, TEXAS 78711-3087
MONTHLY EFFLUENT REPORT

HoddaadkhalahHaadlahadladlaallaallaalla

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600

40B SYS

WQ0011253-001 PERMIT NUMBER 02 SET 23 09 YEAR MO.

12793 EID



PAGE 1

THIS REPORT TO BE USED FOR SOIL MON 201 ANN 6-18

SEE BACK FOR INSTRUCTIONS AND DEFINITIONS.

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

TCEQ COPY

UNIT EX.	1	OF ANALYSIS		TYPE
HALTT				
OIATI				
	22	1/YEAR	04	24-HR COMP
G				
	22	1/YEAR	04	24-HR COMP
G				
	22	1/YEAR	04	24-HR COMP
G				
	22	1/YEAR	04	24-HR COMP
HOS				
	22	1/YEAR	04	24-HR COMP
ER				
	01	01	NA	NA
	01	01	NA	NA
ER				
	01	01	NA	NA
	1,118		SEL T	
	13			
THE RESERVED IN CO.	- (The state of the s	1000	TO SHARE THE PROPERTY OF THE PARTY OF THE PA
	ER	01 01 ER	01 01 01 01 ER	01 01 NA 01 01 NA ER

RTIFY THAT I AM FAMILIAR WITH THE INFORMATIO	N NAME	SKGNAZYOR	DATE
KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE OF COMPLETE AND ACCURATE.		Talen / sp.	213 09/216
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO. DAY
8106 229 3131	Billy Hernender	BALL	2301926
AREA CODE NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO. DAY

P.O. BOX 13027 • AUSTIN, TEXAS 78711-3087 MONTHLY EFFLUENT REPORT

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600

40B SYS WQ0011253-001 PERMIT NUMBER 01 SET 23 09 YEAR MO.

17423 EID



PAGE

THIS REPORT TO BE USED FOR WELL MON 401 SEMI-ANN UP-GRADIENT

SEE BACK FOR INSTRUCTIONS AND DEFINITIONS.

T	CE	Q	CO	P	Y

LEASE RETAIN A PHO	DTOCOPY FOR Y	OUR RECORDS.					ICE	Q COPT	
DADAMETED	EFFLUENT CONDITION			NO.	FREQUENCY			SAMPLE	
PARAMETER		VALUE	UNITS	EX	(OF ANALYSIS		TYPE	
006001030 TOT NIT	REPORTED	21.1	MG/L						
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP	
006101030 NH3-N	REPORTED	0	MG/L						
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP	
006201030 NO3-N	REPORTED	19.8	MG/L					1	
IND GRAB	PERMITTED	S7. 3			21	2/YEAR	04	24-HR COMP	
006651030)T PHOS	REPORTED	0.0278	MG/L	1				A Light	
IND GRAB	PERMITTED				21	2/YEAR	04	24-HR COMP	
316164030 FEC.COLI	REPORTED	41.0	#/100 ML	3			3	15-4-11-15	
IND GRAB	PERMITTED		2	A PA	21	2/YEAR	04	24-HR COMP	
702951030 TDS	REPORTED	1410	MG/L						
IND GRAB	PERMITTED		1.1.1.23		21	2/YEAR	04	24-HR COMP	
825463130 WATER LV	REPORTED	160	FEET	1					
IND GRAB	PERMITTED		Territoria.	138	21	2/YEAR	04	24-HR COMP	
NUMBER OF OPERATOR	REPORTED	Low 2035755	NUMBER						
CERTIFICATE	PERMITTED				01	01	NA	NA .	
EXPIRATION OF OPERATOR	REPORTED	02105/2026	DATE						
CERTIFICATE	PERMITTED		13164	10.	-01	01	NA	NA	
CLASS OF OPERATOR	REPORTED	C	LETTER	105					
CERTIFICATE	PERMITTED			- 194	01	01	NA	NA	
	REPORTED								
	PERMITTED	1	M THYSE SHAP	- N		TENDA MEN	WEST PA		

RTIFY THAT I AM FAMILIAR WITH THE INFORMATION	NAME	SIGNATURE	DATE	
CONTAINED IN THIS REPORT AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF SUCH INFORMATION IS TRUE AND COMPLETE AND ACCURATE.	Librado Torrez	Fresh feet.	213 019 216	
TELEPHONE NUMBER	PLANT OPERATOR	PLANT OPERATOR	YEAR MO. DAY	
81016 2249 31315 AREA CODE NUMBER	Bill Herronder	EXECUTIVE OFFICER	ZBOGZE YEAR MO. DAY	

O BOX 13087 • AUSTIN, TEXAS 78711-3087
MONTHLY EFFLUENT REPORT

CITY OF SUNDOWN

ATTN: BILLY HERNANDEZ

PO BOX 600

SUNDOWN TX 79372-0600

40B SYS

WQ0011253-001 PERMIT NUMBER 02 SET 23 09 YEAR MO.

12794 EID



PAGE

THIS REPORT TO BE USED FOR SOIL MON 301 ANN 18-30 SEE BACK FOR INSTRUCTIONS AND DEFINITIONS.

PLEASE RETAIN A PHOTOCOPY FOR YOUR RECORDS.

TCEQ COPY

PARAMETER	EFFLUENT CONDITION			NO.			SAMPLE	
		VALUE	UNITS	EX.	OF ANALYSIS		TYPE	
004006080 PH	REPORTED	.NA	STD UNIT					
MAXIMUM	PERMITTED	30000			22	1/YEAR	04	24-HR COMP
006001430 TOT NIT	REPORTED	NA	MG/KG					
IND GRAB	PERMITTED				22	1/YEAR	04	24-HR COMP
006651430 F OT PHOS	REPORTED	NA	MG/KG			TOPA -		
IND GRAB	PERMITTED				22	1/YEAR	04	24-HR COMP
009371430 TSSIUM	REPORTED	MA	MG/KG					
_, D GRAB	PERMITTED	1.1			22	1/YEAR	04	24-HR COMP
009504280 CNDUCTVY	REPORTED	. NA	MICMHOS					
MUMIXAM	PERMITTED		THE STATE OF		22	1/YEAR	04	24-HR COMP
NUMBER OF OPERATOR	REPORTED	WW 0035755	NUMBER	GW.				
CERTIFICATE EXPIRATION OF OPERATOR	PERMITTED	marie I	L. Brosser		01	01	NA	NA
	REPORTED	02/05/2026	DATE				1	
CERTIFICATE	PERMITTED	7 7	HAMMES.	25. F.X.	01	01	NA	NA
CLASS OF OPERATOR	REPORTED	C	LETTER					
CERTIFICATE	PERMITTED				01	01	NA	NA
	REPORTED							
	PERMITTED	North Colonia						
	REPORTED							
	PERMITTED		SOF SHARE	T SW				
§	REPORTED							
	PERMITTED			1			n genn	

AINED IN THIS B	M FAMILIAR WITH THE INFORMATION EPORT AND THAT TO THE BEST OF MY	NAME	SHRIVETURE	DATE	
KNOWLEDGE AND BEI COMPLETE AND ACCU	LIEF SUCH INFORMATION IS TRUE ALLS	Librado Torrez	The State	213.019 216	
TELEPHONE NUMBER		PLANT OPERATOR	PLANT OPERATOR	YEAR MO. DAY	
806	2129 3131	Billelanude	BA	213 019 216	
AREA CODE	NUMBER	EXECUTIVE OFFICER	EXECUTIVE OFFICER	YEAR MO. DAY	

Attachment 2

Domestic Worksheet 3.0

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identif	y the method of land disposal:						
	Surface application		Subsurface application				
\boxtimes	Irrigation		Subsurface soils absorption				
	Drip irrigation system		Subsurface area drip dispersal system				
	Evaporation		Evapotranspiration beds				
	Other (describe in detail): Click	to er	nter text.				
NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.							

For existing authorizations, provide Registration Number: Click to enter text.

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

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

Table 3.0(1) - Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Native Vegetation/Pastureland	50	175,000 GPD	N

Attachment 3 Annual Cropping Plan

Attachment 3 Annual Cropping Plan

- A. See the Attached Soil Map (Attachment I)
- B. The Native Grasses & Jose Wheatgrass with account for both the cool and warm season plant species.
- C. N/A
- D. Typical Annual Growing Season is as follows:

Month	Native Grasses & Jose Wheatgrass
	<u>vv neatgrass</u>
January	X
February	X
March	X
April	X
May	X
June	X
July	X
August	X
September	X
October	X
November	X
December	X

- E. Nitrogen-80 lb/acre Phosphorous-70 lb/acre
- F. There is no minimum harvest height. Crops will be harvested as needed.
- G. The crop will not need any supplementary watering requirements.
- H. According to table 3 of TAC 309.20, Wheat Grasses are a relatively salt tolerant crop with 6.0-8.0 millimhos/cm @ 25° C.
- I. The land application area will be mowed as necessary.
- J. N/A

From: April Hoh
To: Paul Krueger

Cc: <u>billy@sundowntx.com</u>; <u>Sara Holmes</u>

Subject: Pre-technical Review Comments WQ0011253001 City of Sundown,

 Date:
 Friday, November 15, 2024 11:53:23 AM

 Attachments:
 11253-001.Pretech.Nov2024.docx

Good afternoon,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Therefore, you must send updated technically complete and accurate information by **December 2, 2024**.

Any revisions can be sent electronically to the recipients of this email. If you have any questions, please feel free to contact either Sara Holmes or me.

Thank you, April

April Hoh, P.G.

Water Quality Assessment Team/Water Quality Division Texas Commission on Environmental Quality MC-150 P.O. Box 13087 Austin, TX 78711-3087

512-239-3567

CITY OF SUNDOWN PERMIT APPLICATION NO. WQ0011253001 APPLICATION FOR A RENEWAL Technical Completeness Review

Please address the following items:

GEOLOGY ITEMS

1. It appears that the Water Quality Assessment Team has not received groundwater monitoring data required by Special Provision 18 since 2022. Please submit the data and laboratory reports for 2023 and 2023.

AGRONOMY ITEMS

- 1. Domestic Worksheet 3.0, Section 2. Land Application Site(s) Please include the land use (hay land, pastureland, etc.) in Table 3.0(1).
- 2. Domestic Worksheet 3.0, Section 5. Annual Cropping Plan Please include quantitative values for the nutrient (Nitrogen and Phosphorus) requirements of native grasses and Jose Wheatgrass in the cropping plan. A reputable source for this info can be found using the Texas A&M Agrilife Extension **S crops table**: Nutrient Management Planning Tools.

For geology/groundwater-related questions, please contact April Hoh, P.G. via email at April.Hoh@tceq.texas.gov (preferred) or at 512-239-3567 and for agronomy related questions, please contact Sara Holmes via email at Sara.Holmes@tceq.texas.gov (preferred) or at 512-239-4534.

TCEQ Interoffice Memorandum

To: Deba Dutta, P.E., Team Leader

Municipal Permits Team

From: Sara Holmes

Water Quality Assessment Team

Date: December 19, 2024

Subject: Agronomy Recommendation, City of Sundown, Renewal, Permit WQ0011253001,

Hockley County

Based upon review of the permit application and an evaluation of soils and agronomy information, the WQA Team reviewing agronomist recommends the following:

1. Replace Special Provision 4 with the following:

Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, the native grasses and Jose wheatgrass shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.

2. Replace Special Provision 6 with the following:

Application rates to the irrigated land shall not exceed 3.92 acre-feet per year per acre. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.

3. Replace Special Provision 10 with the following:

For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.

4. Add Special Provision:

The permittee shall use cultural practices to promote and maintain the health and propagation of the native grasses and Jose wheatgrass crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.

5. Add Special Provision:

The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems

such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.							