Technical Package Cover Page

This file contains the following documents:

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

The City of Newcastle (CN 600335020) operates Wastewater Treatment Plant (RN 101611770), a pond system with an Imhoff tank, one stabilization pond, four storage ponds, and sludge drying beds. The facility is located at Approximately 1.5 miles west of the intersection of State HWY 251 and FM 926 , in Newcastle, Young County, Texas 76372. This application is for the renewal to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.06 million gallons per day (MGD) via surface irrigation of 20 acres of non-public access range land in the Interim phase and 83 acres of non-public access range land in the final phase. .This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package.

Domestic wastewater is treated by pond system with an Imhoff tank, one stabilization pond, four storage ponds, and sludge drying beds.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010647003

APPLICATION. City of Newcastle, P.O. Box 66, Newcastle, Texas 76372, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010647003 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 60,000 gallons per day via surface irrigation of 83 acres of rangeland. The facility and disposal area are located approximately 1.5 miles west of the intersection of State Highway 251 and Farm-to-Market Road 926, near the city of Newcastle, in Young County, Texas 76372. TCEQ received this application on September 20, 2024. The permit application will be available for viewing and copying at Newcastle City Hall, 608 Broadway Avenue, Newcastle, in Young 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=-98.758055,33.185833&level=18

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

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

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

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Newcastle at the address stated above or by calling Mr. Josh Bennett, Mayor, at 940-846-3547.

Issuance Date: October 7, 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

RENEWAL

PERMIT NO. WQ0010647003

APPLICATION AND PRELIMINARY DECISION. City of Newcastle, P.O. Box 66, Newcastle, Texas 76372, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0010647003 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 60,000 gallons per day via surface irrigation of 83 acres of non-public access range land. TCEQ received this application on September 20, 2024.

The wastewater treatment facility and disposal site are located approximately 1.5 miles west of the intersection of State Highway 251 and Farm-to-Market Road 926, in Young County, Texas 76372. The wastewater treatment facility and disposal site are located in the drainage basin of Brazos River Above Possum Kingdom Lake in Segment No. 1208 of the Brazos 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=-98.758055,33.185833&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 Newcastle City Hall, 608 Broadway Avenue, Newcastle, in Young 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 Newcastle at the address stated above or by calling Mr. Josh Bennett, Mayor, at 940-846-3547.

Issuance Date: April 23, 2025

PERMIT NO. WQ0010647003

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

This is a renewal of Permit No. WQ0010647003 issued on November 27, 2019.

PERMIT TO DISCHARGE WASTES
under provisions of Chapter 26
of the Texas Water Code

City of Newcastle

whose mailing address is

P.O. Box 66
Newcastle, Texas 76372

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

General Description and Location of Waste Disposal System:

Description: The City of Newcastle Wastewater Treatment Facility consists of a pond system. Treatment units include an Imhoff tank,a stabilization pond, four storage ponds, and sludge drying beds. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.06 million gallons per day (MGD) via surface irrigation of 81 acres of non-public access range land. The facility includes four storage ponds with a total surface area of 2.0 acres and total capacity of 17.6 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 0.81 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 1.5 miles west of the intersection of State Highway 251 and Farm-to-Market Road 926, in Young County, Texas 76372. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Brazos River Above Possum Kingdom Lake in Segment No. 1208 of the Brazos 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

Volume: Daily Average Flow – 0.060 MGD from the treatment system

Quality: The following effluent limitations are required:

	Effluent Concentrations (Not to Exceed)	
Parameter	Daily Average mg/l	Single Grab 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. Monitoring Requirements:

Parameter	Monitoring Frequency	Sample Type
Flow	Five/week	Instantaneous
Biochemical Oxygen Demand (5-day)	One/month	Grab
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 µg/L);
ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
iv. The level established by the TCEQ.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

i. Five hundred micrograms per liter (500 µg/L);
ii. One milligram per liter (1 mg/L) for antimony;
iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
iv. The level established by the TCEQ.

10. Signatories to Reports

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

PERMIT CONDITIONS

1. General

a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

i. Violation of any terms or conditions of this permit;
ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.

e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.

h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the

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

4. Permit Amendment and/or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;

      ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

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

5. Permit Transfer

a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

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

7. Property Rights

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

8. Permit Enforceability

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

9. Relationship to Permit Application

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

10. Notice of Bankruptcy.

a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

i. the permittee;
ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;
ii. the permit number(s);
iii. the bankruptcy court in which the petition for bankruptcy was filed; and
iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

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

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

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

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

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

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

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

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).

7. Documentation

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

8. Facilities which generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.

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

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

   b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

   c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any

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

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:

    a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

    b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

    c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

    d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.

    e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

    f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:

        i. Volume of waste and date(s) generated from treatment process;
        ii. Volume of waste disposed of on-site or shipped off-site;
        iii. Date(s) of disposal;

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

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

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

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SLUDGE PROVISIONS

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

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

A. General Requirements

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

2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge or biosolids to assure compliance with these regulations.

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

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit 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 3) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 3) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(2)(A) for specific information;

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

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

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

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

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

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

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

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

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

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

Alternative 1

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

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

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

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

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

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

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

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

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

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

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

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

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

4. Vector Attraction Reduction Requirements

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

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90% based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

Alternative 9 -

i. 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	- once during the term of this permit
PCBs	- once during the term of this permit

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

Amount of biosolids (*) metric tons per 365-day period	Monitoring Frequency
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

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

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

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

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

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, 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

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge 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 five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

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

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

5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge 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 permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 3) 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 once during the term of this permit 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 3) 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 3) 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 permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 3) 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 permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 3) 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:

1. This permit is granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.

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

   This Category D facility must be operated by a chief operator or an operator holding a Category 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. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

5. Irrigation practices shall be designed and manage 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 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.

6. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.

7. The permittee will maintain native grasses on the disposal site. Application rates to the irrigated land shall not exceed 0.81 acre-feet per year per acre irrigated. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for

review by the TCEQ and shall be maintained for at least three years.

8. The permittee shall use cultural practices to promote and maintain the health and propagation of the native grass 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 logbook kept on site to be made available to TCEQ personnel upon request.

9. 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.

10. 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.

11. 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 20 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 collection.

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

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
pH	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)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN + nitrate-nitrogen (same as, organic-nitrogen + ammonium-nitrogen + nitrate-nitrogen)		mg/kg (dry weight basis)

Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K) 10 (Ca) 5 (Mg) 10 (Na) 1 (S)	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 Water Quality Assessment Team (MC 150), TCEQ Regional Office (MC Region 3) 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. f 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 disposal sites during that year.

12. 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.

13. 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.

14. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.

15. The permittee has submitted sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC Section 309.13(e)(3). In addition, the permittee shall comply with the requirements of 30 TAC Section 309.13(a) through (d). (See Attachment A)

16. **For the existing stabilization pond and four storage ponds:** Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of pond lining are acceptable.

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

        1) More than 30% passing a No. 200 mesh sieve
        2) Liquid limit greater than 30%
        3) Plasticity index greater than 15
        4) A minimum thickness of 2 feet
        5) Permeability equal to or less than $1x10^{-7}$ cm/sec (*)

6) Soil compaction will be 95% standard proctor at optimum moisture content (*)

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

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

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

The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria within 90 days of permit issuance. The certification shall be sent to the TCEQ Regional Office (MC Region 3), the Water Quality Assessment Team (MC-150), and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division. In addition, the permittee shall maintain a copy of the certification on site and make it available for review by TCEQ representatives upon request.

This provision is continued from the permit issued on July 15, 2014, and the permit issued November 27, 2019, which have not been complied with to date.

17. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC § 217.203 and 30 TAC § 309.13(d) since the facility overlies the recharge zone of an aquifer. The permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC-Region 3), 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 Texas-licensed professional engineer and include a description of how the liner meets the requirements of 30 TAC § 217.203 and 30 TAC § 309.13(d).

18. 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.

19. The existing stabilization pond and four storage ponds shall be maintained and operated in a manner that prevents unauthorized discharge to water in the state and contamination of groundwater.

20. 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.

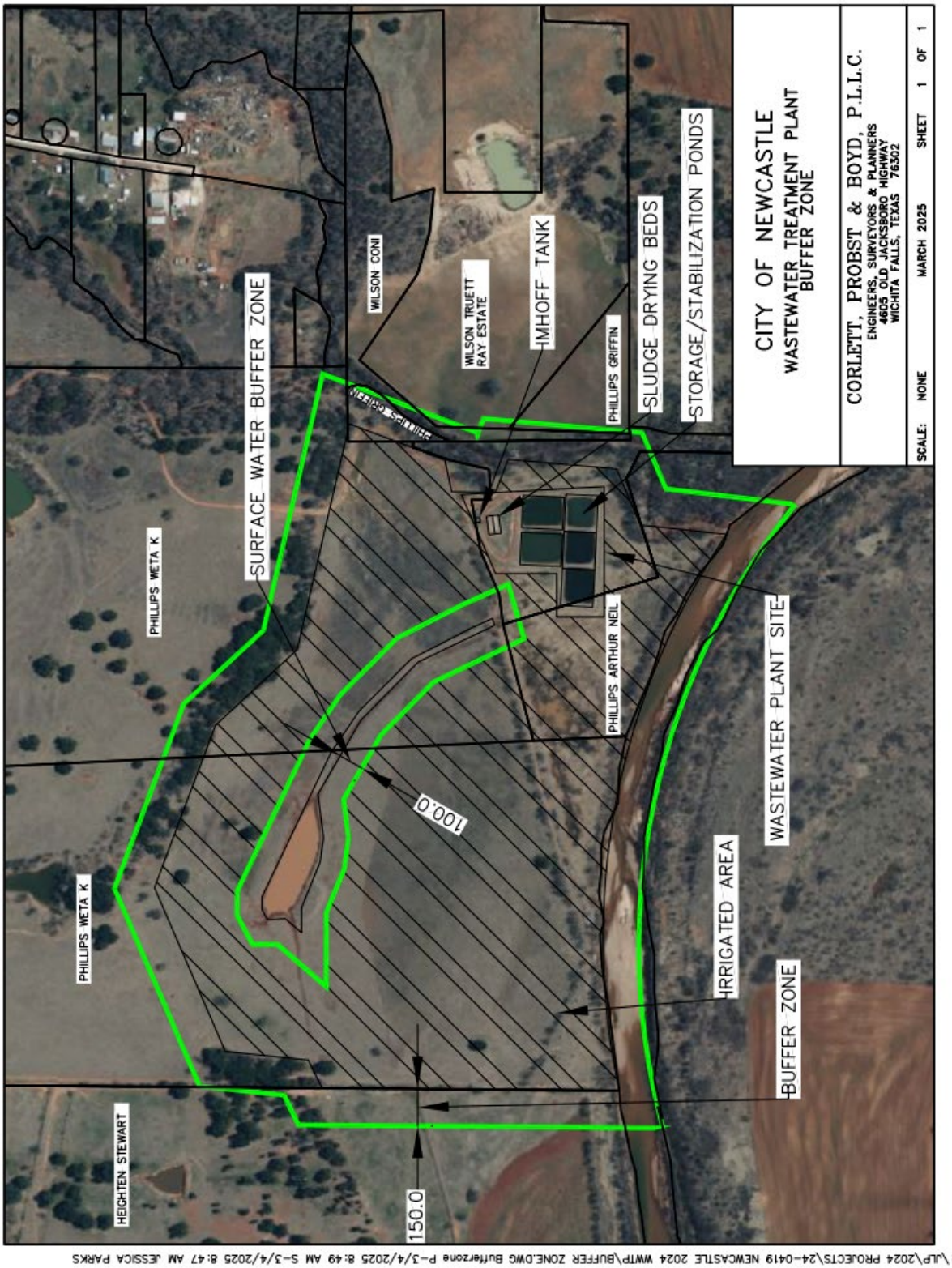
21. The permittee shall comply with buffer zone requirements of 30 TAC Section § 309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section § 309.11(9), must be located a minimum horizontal distance of 250 feet from a private well and a minimum horizontal distance of 500 feet from a public water well site, spring, or other similar sources of public drinking water, as provided by § 290.41(c)(1) of this title. A land application field must be located a minimum horizontal distance of 150 feet from a private well and a minimum horizontal distance of 500 feet from a public water well site, spring, or other similar sources of public drinking water.

22. The permittee shall maintain a minimum 100-foot horizontal buffer between land application areas and all surface water features.

23. Irrigation with effluent shall be accomplished only when the area specified is not in use.

24. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond

Attachment A – Site Map
City of Newcastle
TCEQ Permit No. WQ0010647003



TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	City of Newcastle TCEQ Permit No. WQ0010647003
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 Newcastle has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0010647003 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.060 million gallons per day (MGD) via surface irrigation of 20 acres of non-public access range land in the Interim phase, and 83 acres of non-public access range land in the Final phase. The draft permit authorizes the disposal of treated domestic wastewater at a daily average volume not to exceed 0.060 MGD via surface irrigation of 83 acres of non-public access rangeland. The facility includes four storage ponds with a total surface area of 2.0 acres and total capacity of 17.6 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the City of Newcastle.

PROJECT DESCRIPTION AND LOCATION

The City of Newcastle Wastewater Treatment Facility consists of an existing pond system. Treatment units include an Imhoff tank, one stabilization pond and four storage ponds, and sludge drying beds. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Buffalo Creek Landfill, Permit No. 1571A, in Wichita County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located approximately 1.5 miles west of the intersection of State Highway 251 and Farm-to-Market Road 926 in Young County, Texas 76372.

The wastewater treatment facility and disposal site are located in the drainage basin of Brazos River Above Possum Kingdom Lake in Segment No. 1208 of the Brazos River Basin. No discharge of pollutants into water in the state is authorized by this permit.

SUMMARY OF EFFLUENT DATA

The following is a summary of the applicant's effluent monitoring data for the period June 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).

Parameter	Average of Daily Average
Flow, MGD	0.020
BOD_5, mg/l	47

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.06 MGD via surface irrigation of 83 acres of non-public access range land. The facility includes four storage ponds with a total surface area of 2.0 acres and total capacity of 17.6 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 0.81 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. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Buffalo Creek Landfill, Permit No. 1571A, in Wichita County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

SUMMARY OF CHANGES FROM EXISTING PERMIT

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

Special Provisions No. 5 in the existing permit has been removed in the draft permit.

Special Provisions Nos. 6, 12, 14, and 15 from the existing permit have been revised in the draft permit and are now listed as Special Provisions Nos. 5, 13, 15, and 16 respectively

Special Provisions Nos. 8, 9, 19, and 20 have been added to 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.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on September 20, 2024, and additional information received on March 27, 2025, and April 2, 2025.

2. Existing TCEQ permit: Permit No. WQ0010647003 issued on November 27, 2019.

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 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 Shaun Speck at (512) 239-4549.

Shaun M. Speck — February 18, 2025

Shaun Speck — Date
Municipal Permits Team
Wastewater Permitting Section (MC 148)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Newcastle

PERMIT NUMBER (If new, leave blank): WQ00 10647-003

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed Check/Money Order Number: 14384

$Check/Money Order Amount: $515.00

Name Printed on Check: City of Newcastle

EPAY Voucher Number: N/A

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

e. For amendments or modifications, describe the proposed changes: Click to enter text.

f. For existing permits:

Permit Number: WQ00 10647003

EPA I.D. (TPDES only): TX 0117901

Expiration Date: 11/27/24

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

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

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

City of Newcastle

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

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

CN: 600335020

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: Bennett, Josh

Title: Mr. Credential: Mayor

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. Attachment A

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Click to enter text. Last Name, First Name: Bennett, Josh

Title: Mr. Credential: Mayor

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, TX 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

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

Title: Ms. Credential: Professional Engineer

Organization Name: Corlett, Probst & Boyd, PLLC

Mailing Address: 4605 Old Jacksboro Hwy City, State, Zip Code: Wichita Falls, TX 76302

Phone No.: 940-723-1455 E-mail Address: jessica@cpbwf.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Click to enter text. Last Name, First Name: Bennett, Josh

Title: Mr. Credential: Mayor

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, TX 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.com

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

Title: Ms. Credential: Professional Engineer

Organization Name: Corlett, Probst & Boyd, PLLC

Mailing Address: 4605 Old Jacksboro Hwy City, State, Zip Code: Wichita Falls, TX 76302

Phone No.: 940-723-1455 E-mail Address: jessica@cpbwf.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: Click to enter text. Last Name, First Name: Winder, Alice

Title: Ms. Credential: City Secretary

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, TX 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.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: Click to enter text. Last Name, First Name: Bennett, Josh

Title: Mr. Credential: Mayor

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, TX 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

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

Title: Mr. Credential: Mayor

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, TX 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.com

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

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

☒ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

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

Title: Mr. Credential: Mayor

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, TX 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.com

D. Public Viewing Information

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

Public building name: City of Newcastle City Hall

Location within the building: N/A

Physical Address of Building: 608 Broadway Ave

City: Newcastle County: Young

Contact (Last Name, First Name): Bennett, Josh

Phone No.: 940-846-3547 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☐ Yes ☒ No

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

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

5. If the answer is **yes** to **question 1, 2, 3, or 4**, public notices in an alternative language are required. Which language is required by the bilingual program? N/A

F. Plain Language Summary Template

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

Attachment: B

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 101611770

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

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

Newcastle Wastewater Treatment Plant

C. Owner of treatment facility: City of Newcastle

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

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

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

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

Organization Name: City of Newcastle

Mailing Address: PO Box 66 City, State, Zip Code: Newcastle, Texas, 76372

Phone No.: 940-846-3547 E-mail Address: cityofnewcastle@brazosnet.com

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

Attachment: N/A

E. Owner of effluent disposal site:

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

Prefix: Click to enter text. Last Name, First Name: Phillips, Neal and Weta

Title: Click to enter text. Credential: N/A

Organization Name: N/A

Mailing Address: PO Box 276 and 1311 Roanoke Dr, respectively City, State, Zip Code: TX and TX, 76372 and 76450, respectively

Phone No.: N/A E-mail Address: N/A

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

Attachment: C: 20 Acre Tract, 63 Acre Tract

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): N/A

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: N/A

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

The disposal site is located approximately 1.5 miles west of the intersection of State Highway 251 and Farm-to-Market road 926 in Young County, Texas, 76732 on the survey A-0222 by J M Peveler

B. City nearest the disposal site: Newcastle

C. County in which the disposal site is located: Young

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

Routing of effluent from treatment plant; thence to disposal surface via surface irrigation

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

N/A

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: N/A

Amount past due: N/A

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: N/A

Amount past due: N/A

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010647003

Applicant: City of Newcastle

Certification:

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

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

Signatory name (typed or printed): Josh Bennett

Signatory title: Mayor

Signature: _____ Date: 7-29-24

(Use blue ink)

Subscribed and Sworn to before me by the said Josh Bennett

on this 29th day of July, 20 24.

My commission expires on the 4th day of April, 20 26.

Deborah Casteel

Notary Public

[SEAL]

DEBORAH CASTEEL
NOTARY PUBLIC
STATE OF TEXAS
MY COMM. EXP. 04/04/26
NOTARY ID 13148292-9

Young

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

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): 0.06

2-Hr Peak Flow (MGD): 0.12

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): N/A

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

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: 06/01/1993

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

The city of Newcastle facilities consist of an existing pond system. Treatment units include an Imhoff tank, a stabilization pond, and four storage ponds, and sludge drying beds. The five ponds have a total surface area of approximately 2 acres and total storage design capacity of approximately 17.6 acre-feet for storage of treated effluent prior to irrigation

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)
Imhoff Tank	1	10' x 18' x 20'
Stabilization pond	1	9' x 130' x 165'
Storage pond	4	9' x 130' x 165'
Sludge Drying Beds		25' x 75'

C. Process Flow Diagram

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

Attachment: E

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

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

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

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

- Latitude: 33° 11' 12" N
- Longitude: 98 ° 45' 24"W

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: F

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

City of Newcastle

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

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

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

Not Available

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

150 foot buffer zone surrounding the existing facilities has been met through land ownership

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

N/A

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

N/A

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

N/A

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.

N/A

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☐ No

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

TXR05 N/A or TXRNE N/A

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

N/A

4. Existing coverage in individual permit

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

☐ Yes ☐ No

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

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.

N/A

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

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the 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.

N/A

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

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

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

☐ Yes ☒ No

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

N/A

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	9.76		1	Grab	9/5/24, 8:40AM
Total Suspended Solids, mg/l	108		1	Grab	9/5/24, 8:40AM
Ammonia Nitrogen, mg/l	0.499		1	Grab	9/5/24, 8:40AM
Nitrate Nitrogen, mg/l	<0.1		1	Grab	9/5/24, 8:40AM
Total Kjeldahl Nitrogen, mg/l	5.54		1	Grab	9/5/24, 8:40AM
Sulfate, mg/l	37.3		1	Grab	9/5/24, 8:40AM
Chloride, mg/l	205		1	Grab	9/5/24, 8:40AM
Total Phosphorus, mg/l	1.89		1	Grab	9/5/24, 8:40AM
pH, standard units	9.4		1	Grab	9/5/24, 8:40AM
Dissolved Oxygen*, mg/l	7.0		1	Grab	9/5/24, 8:40AM
Chlorine Residual, mg/l	0.0		1	Grab	9/5/24, 8:40AM
E.coli (CFU/100ml) freshwater	0.0		1	Grab	9/5/24, 8:40AM
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l	600		1	Grab	9/5/24, 8:40AM
Electrical Conductivity, µmohs/cm, †	1130		1	Grab	9/5/24, 8:40AM
Oil & Grease, mg/l	<4.40		1	Grab	9/5/24, 8:40AM
Alkalinity ($CaCO_3$)*, mg/l	221		1	Grab	9/5/24, 8:40AM

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Stephen Brent Casteel

Facility Operator's License Classification and Level: Class D Wastewater Treatment Operator

Facility Operator's License Number: 2520002

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

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

Biosolids Management

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

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

D. Disposal site

Disposal site name: Iowa Park Landfill

TCEQ permit or registration number: MWS 1571A

County where disposal site is located: Wichita

E. Transportation method

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

Name of the hauler: Waste Connections Lone Star Inc.

Hauler registration number: RN100213214

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

B. Sludge processing authorization

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

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

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

☐ Yes ☒ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment: N/A
- USDA Natural Resources Conservation Service Soil Map:

  Attachment: N/A
- Federal Emergency Management Map:

  Attachment: N/A
- Site map:

  Attachment: N/A

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: N/A

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

N/A

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: N/A

Total Kjeldahl Nitrogen, mg/kg: N/A

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

Phosphorus, mg/kg: N/A

Potassium, mg/kg: N/A

pH, standard units: N/A

Ammonia Nitrogen mg/kg: N/A

Arsenic: N/A

Cadmium: N/A

Chromium: N/A

Copper: N/A

Lead: N/A

Mercury: N/A

Molybdenum: N/A

Nickel: N/A

Selenium: N/A

Zinc: N/A

Total PCBs: N/A

Provide the following information:

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

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

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

C. Liner information

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

☒ Yes ☐ No

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

The liner is compacted clay. See Attachment G for liner certification.

D. Site development plan

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

N/A

Attach the following documents to the application.

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

  Attachment: N/A
- Copy of the closure plan

  Attachment: N/A
- Copy of deed recordation for the site

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

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

  Attachment: N/A
- Procedures to prevent the occurrence of nuisance conditions

  Attachment: N/A

E. Groundwater monitoring

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

☐ Yes ☒ No

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

Attachment: N/A

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:

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

N/A

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: N/A

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Alice Winder

Title: City secretary

Signature: Alice Winder

Date: 09/12/2024

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)

Identify the method of land disposal:

- ☒ Surface application
- ☒ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Other (describe in detail): N/A
- ☐ Subsurface application
- ☐ Subsurface soils absorption
- ☐ Subsurface area drip dispersal system
- ☐ Evapotranspiration beds

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

For existing authorizations, provide Registration Number: N/A

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 Grasses	83	<0.06 MGD <72,057 GPD	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
1	.4924	4.43	130 x 165 x 9 ft	Compacted clay
2	.4924	4.43	130 x 165 x 9 ft	Compacted clay
3	.4924	4.43	130 x 165 x 9 ft	Compacted clay
4	.4924	4.43	130 x 165 x 9 ft	Compacted clay

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

Attachment: G

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.

The site is protected from 100 year floodwaters due to site elevation and historical observations. Please see the Attachment H: FEMA Flood Area Discussion and map.

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

FEMA Flood Map 48503C0300E

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

None

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**: I

- 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**: J

- 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
See	Attachment K		Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	
			Choose an item.	

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

Attachment: K

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: L

Are groundwater monitoring wells available onsite? ☐ Yes ☐ No

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

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

Attachment: N/A

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: M

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: N

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
Lincoln Sandy Loam	0	5.95 -19.98 in/hr	High-very high	(A) 68
Padgett Clay	0	0.00 - 0.06 in/hr	Very low to moderately low	(D) 89
Exray-Loving Complex	0	0.20 - 0.57 in/hr	Moderately low-high	(D) 89
Granfield Fine Sandy Loam	0	0.60 - 2.00 in/hr	Moderately high-high	(B) 79
Enterprise Very Fine Sandy Loam	0	1.98 - 5.67 in/hr	High	(A) 68

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
June 2024	0.020	17	20	7.9	N/A	83
May 2024	0.032	28	55.5	8.9	N/A	83
April 2024	0.034	7	8	8.5	N/A	83
March 2024	0.032	26	44	8.7	N/A	83
February 2024	0.020	28	42.4	8.4	N/A	83
January 2024	0.029	45	46	8.4	N/A	83
December 2023	0.332	41	46.4	8.7	N/A	83
November 2023	0.269	31	36.8	8.8	N/A	83
October 2023	0.282	17	27.8	8.7	N/A	83
September 2023	0	28	30.5	8.9	N/A	83
August 2023	0	27	175	8.5	N/A	83
July 2023	0	28	80	8.9	N/A	83
June 2023	0	55	243	7.1	N/A	83
May 2023	0	44	87.3	8.4	N/A	83
April 2023	0.391	32	70.9	9.0	N/A	83
March 2023	0	32	90	8.7	N/A	83
February 2023	0.188	41	68	8.5	N/A	83
January 2023	0.201	39	64	8.5	N/A	83
December 2022	0.022	30	56	7.8	N/A	83
November 2022	0.015	44	-	8.5	N/A	83
October 2022	0.025	71	230	8.7	N/A	83
September 2022	0.015	59	240	8.9	N/A	83
August 2022	0.028	>351	240	7.4	N/A	83

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
July 2022	0	38	232	8.7	N/A	83
June 2022	0.045	18	178	9.0	N/A	83
May 2022	0.025	_	94	8.2	N/A	83
April 2022	0.029	_	105	8.7	N/A	83
March 2022	0.024	_	240	9.42	N/A	83
February 2022	0.024	_	102.7	9.47	N/A	83
January 2022	0.032	_	284	8.82	N/A	83

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

Click to enter text.

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: N/A

B. Treatment plant interference

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

☐ Yes ☒ No

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

N/A

C. Treatment plant pass through

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

☐ Yes ☒ No

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

N/A

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

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

A. Substantial modifications

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

☐ Yes ☒ No

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

N/A

B. Non-substantial modifications

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

☐ Yes ☒ No

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

N/A

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A	N/A	N/A	N/A	N/A

D. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

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

A. General information

Company Name: N/A

SIC Code: N/A

Contact name: N/A

Address: N/A

City, State, and Zip Code: N/A

Telephone number: N/A

Email address: N/A

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Category: Subcategories: N/A

Click or tap here to enter text. N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

Category: N/A

Subcategories: N/A

F. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

☐ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application.)*

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600335020		RN 101611770

SECTION II: Customer Information

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

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

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

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

City of Newcastle

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
N/A	17560006235	756000623	134921613

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☒ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

12. Number of Employees
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **Yes** ☒ **No**

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

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

15. Mailing Address: PO Box 66

City	Newcastle	State	TX	ZIP	76372	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	cityofnewcastle@brazosnet.com

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

(940) 846-3547	0	(940) 846-3200

SECTION III: Regulated Entity Information

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

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

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

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

City of Newcastle

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	City Office							
	608 Broadway Ave							
	City	Newcastle	**State**	TX	**ZIP**	76372	**ZIP + 4**	
24. County	Young							

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

25. Description to Physical Location:	Plant Location: Approx 1.5 miles west of the intersection of SH 251 and FM 926 in Young County.

26. Nearest City	**State**	**Nearest ZIP Code**
Newcastle	TX	76372

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
33	11	11	98	45	22

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

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

Municipal Operations

34. Mailing Address:								
	PO Box 66							
	City	**Newcastle**	**State**	**TX**	**ZIP**	**76372**	**ZIP + 4**	

35. E-Mail Address:	**cityofnewcastle@brazosnet.com**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(940) 846-3547		**(940) 846-3200**

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

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

SECTION IV: Preparer Information

40. Name:	Corlett, Probst & Boyd, PLLC	41. Title:	Engineer

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(940) 723-1455		( ) -	jessica@cpbwf.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:	Corlett, Probst & Boyd, PLLC	Job Title:	Professional Engineer
Name *(In Print)*:	Jessica L. Parks	Phone:	(940) 723- 1455
Signature:	Jessica L. Parks P.E.	Date:	7-22-24

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

The City of Newcastle (CN 600335020) operates Wastewater Treatment Plant (RN 101611770), a pond system with an Imhoff tank, one stabilization pond, four storage ponds, and sludge drying beds. The facility is located at Approximately 1.5 miles west of the intersection of State HWY 251 and FM 926 , in Newcastle, Young County, Texas 76372. This application is for the renewal to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.03 million gallons per day (MGD) via surface irrigation of 20 acres of non-public access range land in the Interim phase and 83 acres of non-public access range land in the final phase. .This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package.

Domestic wastewater is treated by pond system with an Imhoff tank, one stabilization pond, four storage ponds, and sludge drying beds.

CONTRACT

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF YOUNG

This contract is by and between the **CITY OF NEWCASTLE** and **NEIL PHILLIPS** and **WETA PHILLIPS**, of Young County, Texas. Came the parties to make the following agreement:

That the said **NEIL PHILLIPS** and **WETA PHILLIPS**, are the owners of a piece of property described as the South twenty (20) acres of the J.W. Peveler Survey, Abstract No. 222, Young County, Texas. That the **CITY OF NEWCASTLE** is the owner of a waste water treatment plant.

That this lease shall continue for a period of fifteen (15) years.

NEIL PHILLIPS and **WETA PHILLIPS**, hereby warrants that they are the owners of the above site.

Said **NEIL PHILLIPS** and **WETA PHILLIPS**, hereby agree to lease to the **CITY OF NEWCASTLE** the above described property solely for the purpose of the disposal of waste water. The **CITY OF NEWCASTLE** may dispose of the waste water on said land at their expense.

The **CITY OF NEWCASTLE** shall use the highest degree of care and all reasonable safeguards to prevent contamination or pollution of any environmental medium, including soil, surface waters, groundwater, and surface or subsurface strata, ambient air, or any other environmental medium in, on, or under the Premises, by any waste, pollutant, or contaminant. The **CITY OF NEWCASTLE** shall not bring or permit to remain on the Premises any asbestos containing materials, petroleum, explosives, toxic materials, or substances regulated as hazardous wastes, hazardous materials, hazardous substances, or toxic substances under any federal, state, or local law or regulation ("Hazardous Materials"), except ordinary products commonly used in connection with the Permitted Use and stored in the usual manner and quantities. The **CITY OF NEWCASTLE'S** violation of the foregoing prohibition shall constitute a material breach and default hereunder and the **CITY OF NEWCASTLE** shall indemnify, hold harmless and defend **NEIL PHILLIPS** and **WETA PHILLIPS**, from and against any claims, damages, penalties, liabilities, and costs (including reasonable attorney's fees and court costs) caused by or arising out of (i) a violation of the foregoing prohibition or (ii) the presence, release, or disposal of any Hazardous Materials on, under, or about the Premises during the **CITY OF NEWCASTLE'S** occupancy or control of the Premises. The **CITY OF NEWCASTLE** shall clean up, remove, remedy and repair any soil or ground water contamination and damage caused by the presence or release of any Hazardous Materials in, on, under or about the Premises during the **CITY OF NEWCASTLE'S** occupancy of the Premises in conformance with the requirements of applicable law. The **CITY OF NEWCASTLE** shall immediately give **NEIL PHILLIPS** and **WETA PHILLIPS**, written notice of any breach or suspected breach of this Paragraph, upon learning of the presence or any release of any Hazardous Materials, or upon receiving a notice from any governmental agency pertaining to Hazardous Materials which may affect the Premises. The obligations of the **CITY OF NEWCASTLE** shall survive the expiration or earlier termination, for any reason, of this Lease.

The **CITY OF NEWCASTLE** shall not be liable or responsible to **NEIL PHILLIPS** and **WETA PHILLIPS**, for any loss or damage to any property occasioned by theft, act of God,

public enemy, injunction, riot, strike, insurrection, war, court order, requisition or order of any governmental body or authority or any similar matter. **NEIL PHILLIPS** and **WETA PHILLIPS** shall not be liable to the **CITY OF NEWCASTLE**, or to the **CITY OF NEWCASTLE'S** agents, servants, employees, customers, guests, or invitees and the **CITY OF NEWCASTLE** agrees to indemnify, defend and hold harmless **NEIL PHILLIPS** and **WETA PHILLIPS** from and against any and all fines, suits, claims, demands, losses, liabilities, actions, and costs, including, without limitation, court costs and attorneys' fees, arising any way, in whole or in part, from (i) any injury to person or damage to property caused by any act, omission, or neglect, or misconduct of the **CITY OF NEWCASTLE**, the **CITY OF NEWCASTLE'S** agents, servants, employees, customers, guests, or invitees; (ii) any activity, work, or thing done, permitted or suffered by the **CITY OF NEWCASTLE** in or about the Premises; (iii) the **CITY OF NEWCASTLE'S** use of the Premises or the conduct of the **CITY OF NEWCASTLE'S** business; or (iv) any breach or default in the performance of any obligation on the **CITY OF NEWCASTLE'S** part to be performed under the terms of this Lease.

The following events shall be deemed to be events of default by the **CITY OF NEWCASTLE** under this Lease:

The **CITY OF NEWCASTLE** shall fail to comply with any other term, provision or covenant of this Lease within thirty (30) days after notice from **NEIL PHILLIPS** AND **WETA PHILLIPS**, to the **CITY OF NEWCASTLE** specifying wherein the **CITY OF NEWCASTLE** has failed to comply; provided, however, that if the nature of the **CITY OF NEWCASTLE'S** obligation is of such a nature that it cannot reasonably be cured within such 30-day period, the **CITY OF NEWCASTLE** shall not be deemed to be in default so long as the **CITY OF NEWCASTLE** commences curing such failure within such 30-day period and diligently prosecutes same to completion;

Upon occurrence of any event of default by the **CITY OF NEWCASTLE, NEIL PHILLIPS** and **WETA PHILLIPS**, may enforce the provisions of this Lease in any manner provided by law or in equity, including, without limitation, any one or more of the following, in each case, without further notice or demand whatsoever:

At **NEIL PHILLIPS** and **WETA PHILLIPS'**, option, **NEIL PHILLIPS** and **WETA PHILLIPS**, may terminate this Lease and re-enter upon Premises and, in such event, the **CITY OF NEWCASTLE** shall immediately surrender the Premises to **NEIL PHILLIPS** and **WETA PHILLIPS.** If the **CITY OF NEWCASTLE** fails to immediately surrender the Premises, **NEIL PHILLIPS** and **WETA PHILLIPS**, may enter upon and take possession of the Premises by any lawful means, and lock out, expel, or remove the **CITY OF NEWCASTLE** without being guilty of nay manner or trespass, without liability for any damage or loss of occasioned thereby, and without prejudice to any remedies available to **NEIL PHILLIPS** and **WETA PHILLIPS**, for possession of the Premises, collection of amounts due, breach of contract, or otherwise.

Executed this the 10 of December, 2013

NEIL PHILLIPS

WETA PHILLIPS

CITY OF NEWCASTLE

STEPHEN SOSINSKI

CONTRACT

STATE OF TEXAS

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF YOUNG

This contract is by and between the **CITY OF NEWCASTLE** and **NEIL PHILLIPS** and **WETA PHILLIPS**, of Young County, Texas. Came the parties to make the following agreement:

That the said **Neil Phillips** and **Weta Phillips** are the owners of a piece of property described as a portion of the J M Peveler Survey, Abstract 222, and a portion of the W R Peveler Survey, Abstract 223, and containing 63 acres more or less, as noted on the attached exhibit. That the **City of Newcastle** is the owner of a waster water treatment plant.

That this lease shall continue for a period of six (6) years.

NEIL PHILLIPS and **WETA PHILLIPS**, hereby warrants that they are the owners of the above site.

Said **NEIL PHILLIPS** and **WETA PHILLIPS**, hereby agree to lease to the **CITY OF NEWCASTLE** the above described property solely for the purpose of the disposal of waste water. The **CITY OF NEWCASTLE** may dispose of the waste water on said land at their expense.

The **CITY OF NEWCASTLE** shall use the highest degree of care and all reasonable safeguards to prevent contamination or pollution of any environmental medium, including soil, surface waters, groundwater, and surface or subsurface strata, ambient air, or any other environmental medium in, on, or under the Premises, by any waste, pollutant, or contaminant. The **CITY OF NEWCASTLE** shall not bring or permit to remain on the Premises any asbestos containing materials, petroleum, explosives, toxic materials, or substances regulated as hazardous wastes, hazardous materials, hazardous substances, or toxic substances under any federal, state, or local law or regulation ("Hazardous Materials"), except ordinary products commonly used in connection with the Permitted Use and stored in the usual manner and quantities. The **CITY OF NEWCASTLE'S** violation of the foregoing prohibition shall constitute a material breach and default hereunder and the **CITY OF NEWCASTLE** shall indemnify, hold harmless and defend **NEIL PHILLIPS** and **WETA PHILLIPS**, from and against any claims, damages, penalties, liabilities, and costs (including reasonable attorney's fees and court costs) caused by or arising out of (i) a violation of the foregoing prohibition or (ii) the presence, release, or disposal of any Hazardous Materials on, under, or about the Premises during the **CITY OF NEWCASTLE'S** occupancy or control of the Premises. The **CITY OF NEWCASTLE** shall clean up, remove, remedy and repair any soil or ground water contamination and damage caused by the presence or release of any Hazardous Materials in, on, under or about the Premises during the **CITY OF NEWCASTLE'S** occupancy of the Premises in conformance with the requirements of applicable law. The **CITY OF NEWCASTLE** shall immediately give **NEIL PHILLIPS** and **WETA PHILLIPS**, written notice of any breach or suspected breach of this Paragraph, upon learning of the presence or any release of any Hazardous Materials, or upon receiving a notice from any governmental agency pertaining to Hazardous Materials which may affect the Premises. The obligations of the **CITY OF NEWCASTLE** shall survive the expiration or earlier termination, for any reason, of this Lease.

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public enemy, injunction, riot, strike, insurrection, war, court order, requisition or order of any governmental body or authority or any similar matter. **NEIL PHILLIPS** and **WETA PHILLIPS** shall not be liable to the **CITY OF NEWCASTLE,** or to the **CITY OF NEWCASTLE'S** agents, servants, employees, customers, guests, or invitees and the **CITY OF NEWCASTLE** agrees to indemnify, defend and hold harmless **NEIL PHILLIPS** and **WETA PHILLIPS** from and against any and all fines, suits, claims, demands, losses, liabilities, actions, and costs, including, without limitation, court costs and attorneys' fees, arising any way, in whole or in part, from (i) any injury to person or damage to property caused by any act, omission, or neglect, or misconduct of the **CITY OF NEWCASTLE,** the **CITY OF NEWCASTLE'S** agents, servants, employees, customers, guests, or invitees; (ii) any activity, work, or thing done, permitted or suffered by the **CITY OF NEWCASTLE** in or about the Premises; (iii) the **CITY OF NEWCASTLE'S** use of the Premises or the conduct of the **CITY OF NEWCASTLE'S** business; or (iv) any breach or default in the performance of any obligation on the **CITY OF NEWCASTLE'S** part to be performed under the terms of this Lease.

The following events shall be deemed to be events of default by the **CITY OF NEWCASTLE** under this Lease:

The **CITY OF NEWCASTLE** shall fail to comply with any other term, provision or covenant of this Lease within thirty (30) days after notice from **NEIL PHILLIPS AND WETA PHILLIPS,** to the **CITY OF NEWCASTLE** specifying wherein the **CITY OF NEWCASTLE** has failed to comply; provided, however, that if the nature of the **CITY OF NEWCASTLE'S** obligation is of such a nature that it cannot reasonably be cured within such 30-day period, the **CITY OF NEWCASTLE** shall not be deemed to be in default so long as the **CITY OF NEWCASTLE** commences curing such failure within such 30-day period and diligently prosecutes same to completion;

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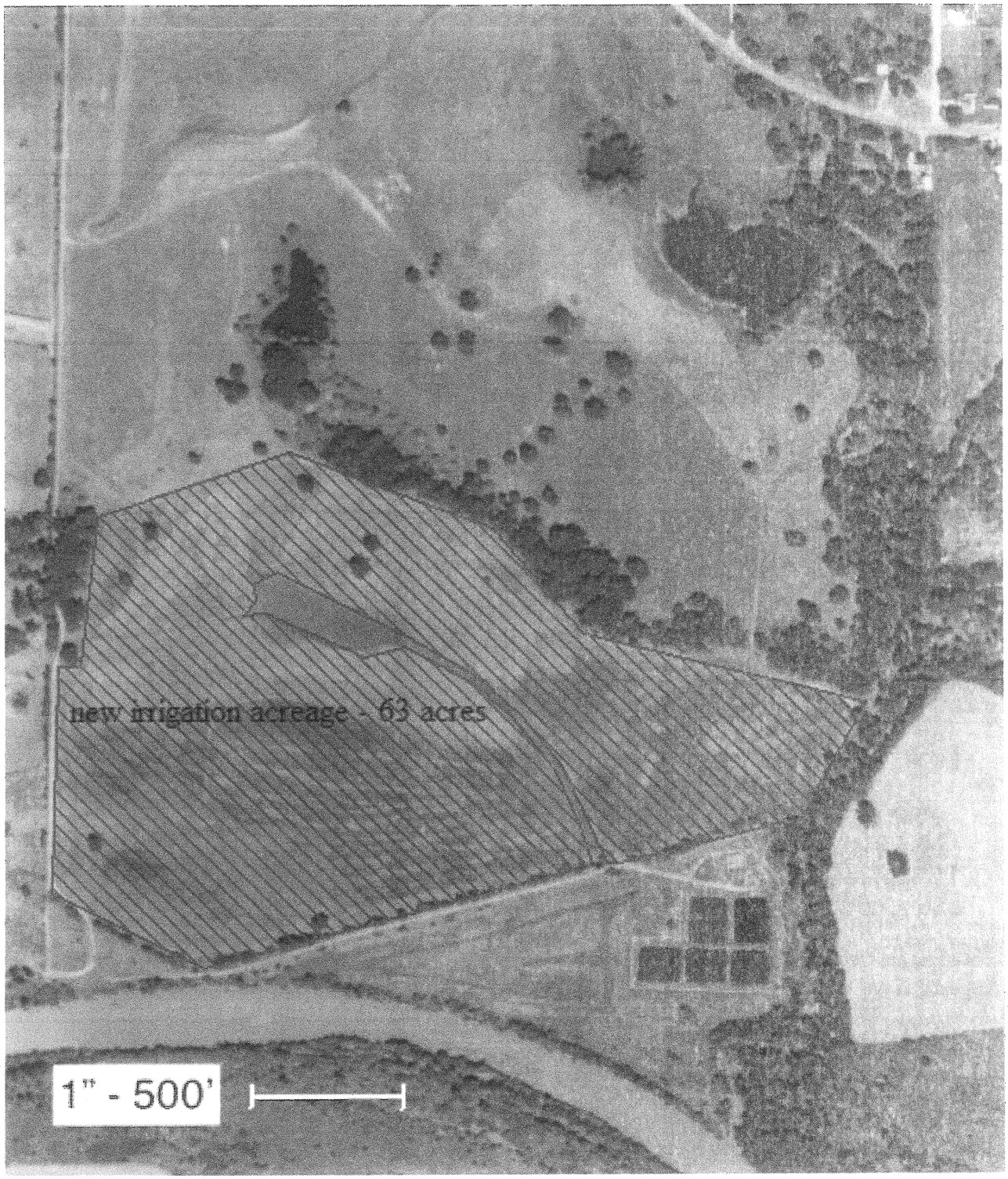
Executed this the 3rd of December, 2018

Neil Phillips

Weta Phillips

City of Newcastle

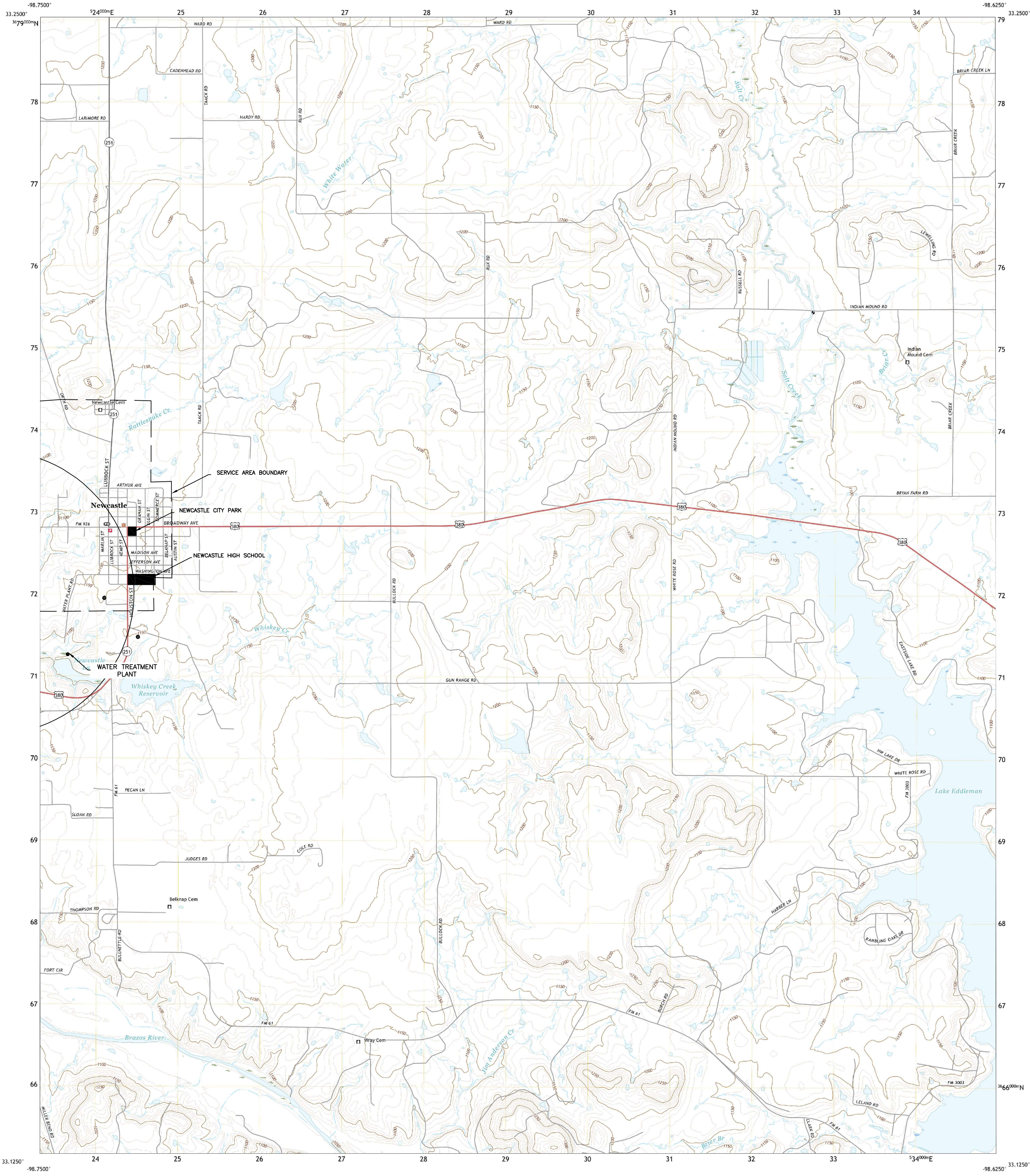
Gina Maxwell


new irrigation acreage - 63 acres
1" - 500'

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

NEWCASTLE QUADRANGLE
TEXAS - YOUNG COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 14S
This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery............NAIP, September 2016 - November 2016
Roads............U.S. Census Bureau, 2015 - 2018
Names............GNIS, 2000 - 2021
Hydrography............National Hydrography Dataset, 2002 - 2018
Contours............National Elevation Dataset 2019

MN
GN
4°17′
76 MILS
0°10′
3 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000
KILOMETERS
METERS
MILES
FEET
CONTOUR INTERVAL 10 FEET

TEXAS
QUADRANGLE LOCATION

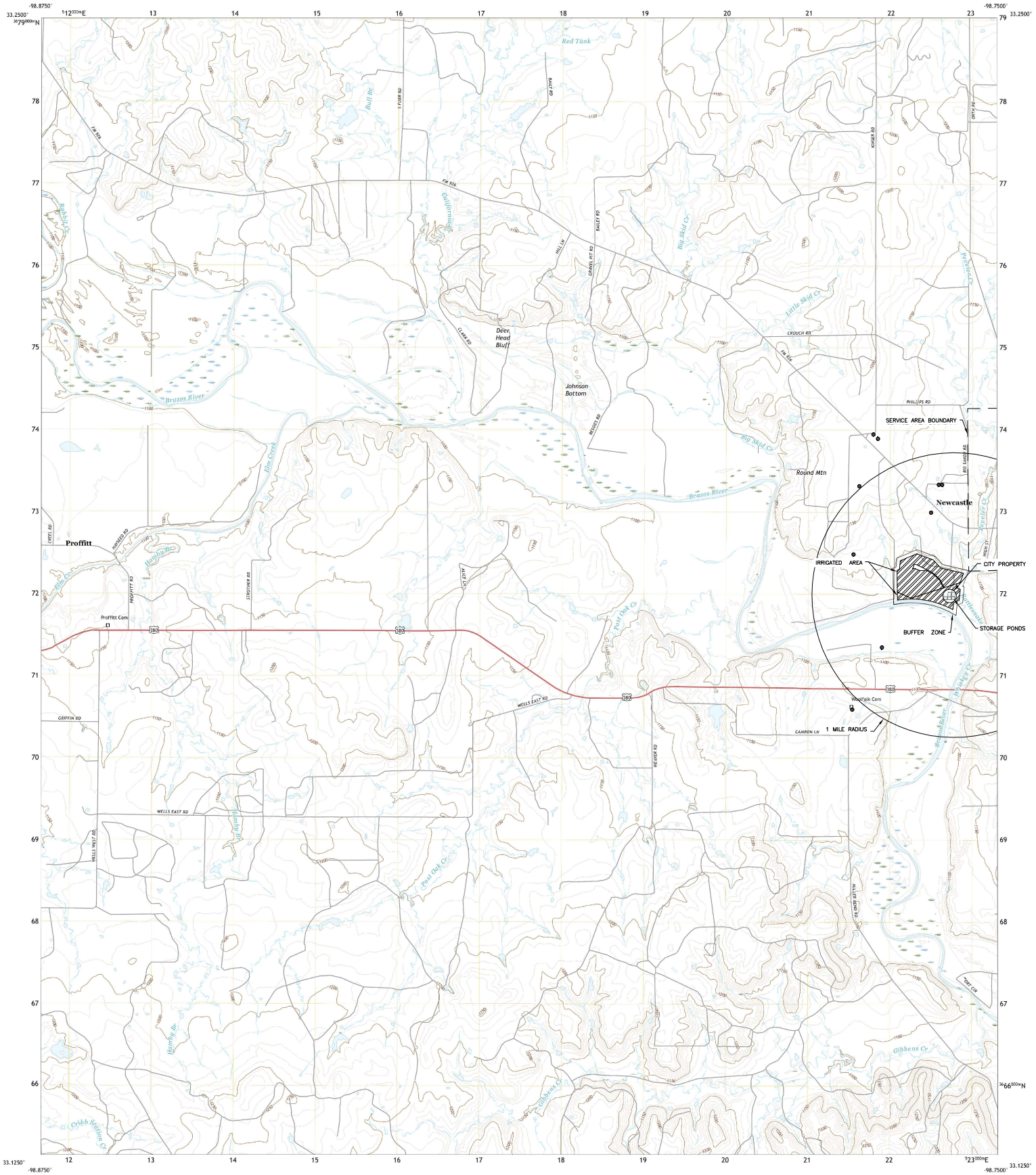
1 Olney
2 True
3 Loving

ROAD CLASSIFICATION
WATER WELL
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map
US Topo

PROFFITT QUADRANGLE
TEXAS - YOUNG COUNTY
7.5-MINUTE SERIES



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North American Datum of 1983 (NAD83)
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Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
U.S. National Grid
100,000-m Square ID

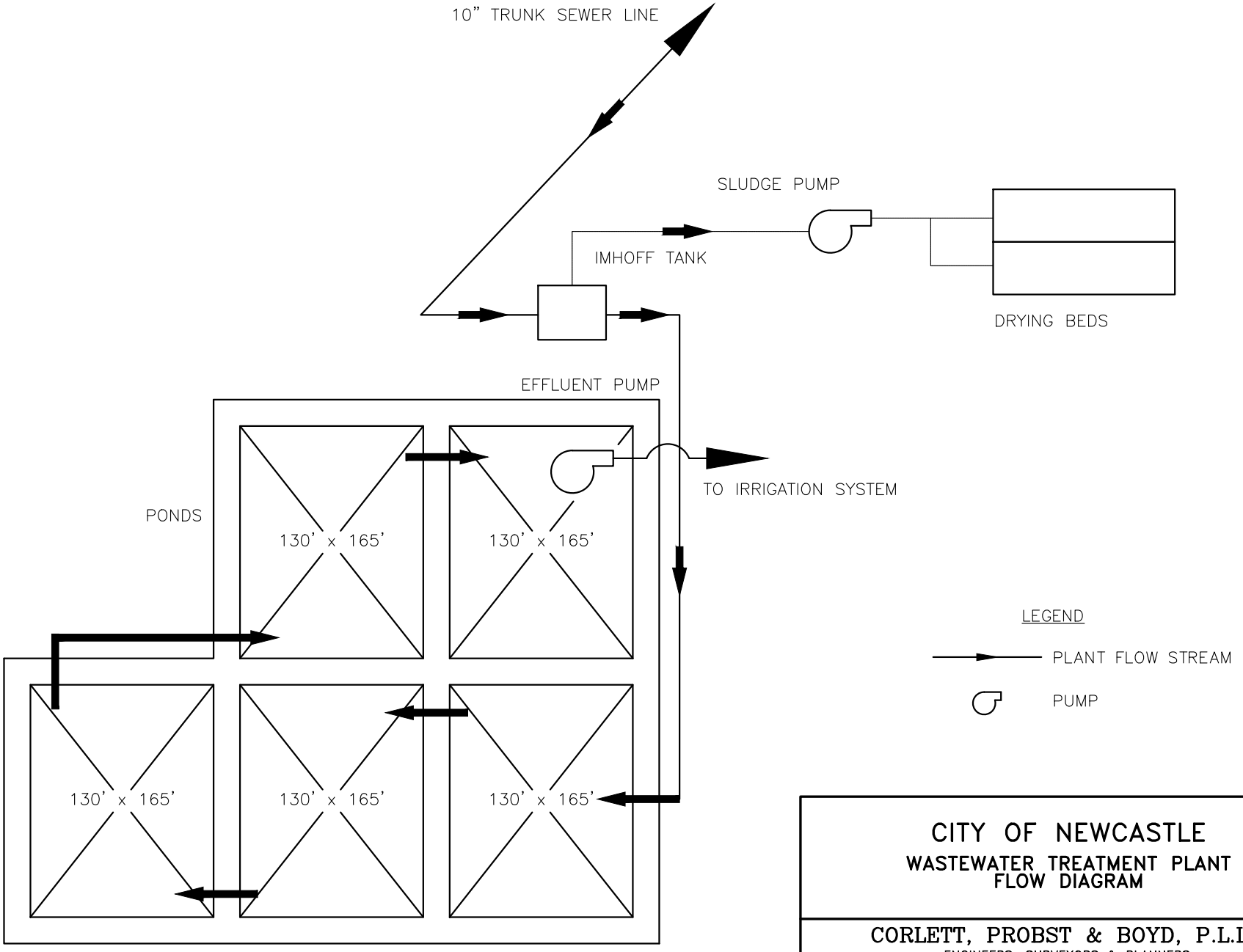
SCALE 1:24 000
KILOMETERS
METERS
MILES
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

TEXAS
QUADRANGLE LOCATION

1 Padgett
2 Olney
3 True
4 Proffitt Crossing

ROAD CLASSIFICATION
WATER WELL
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

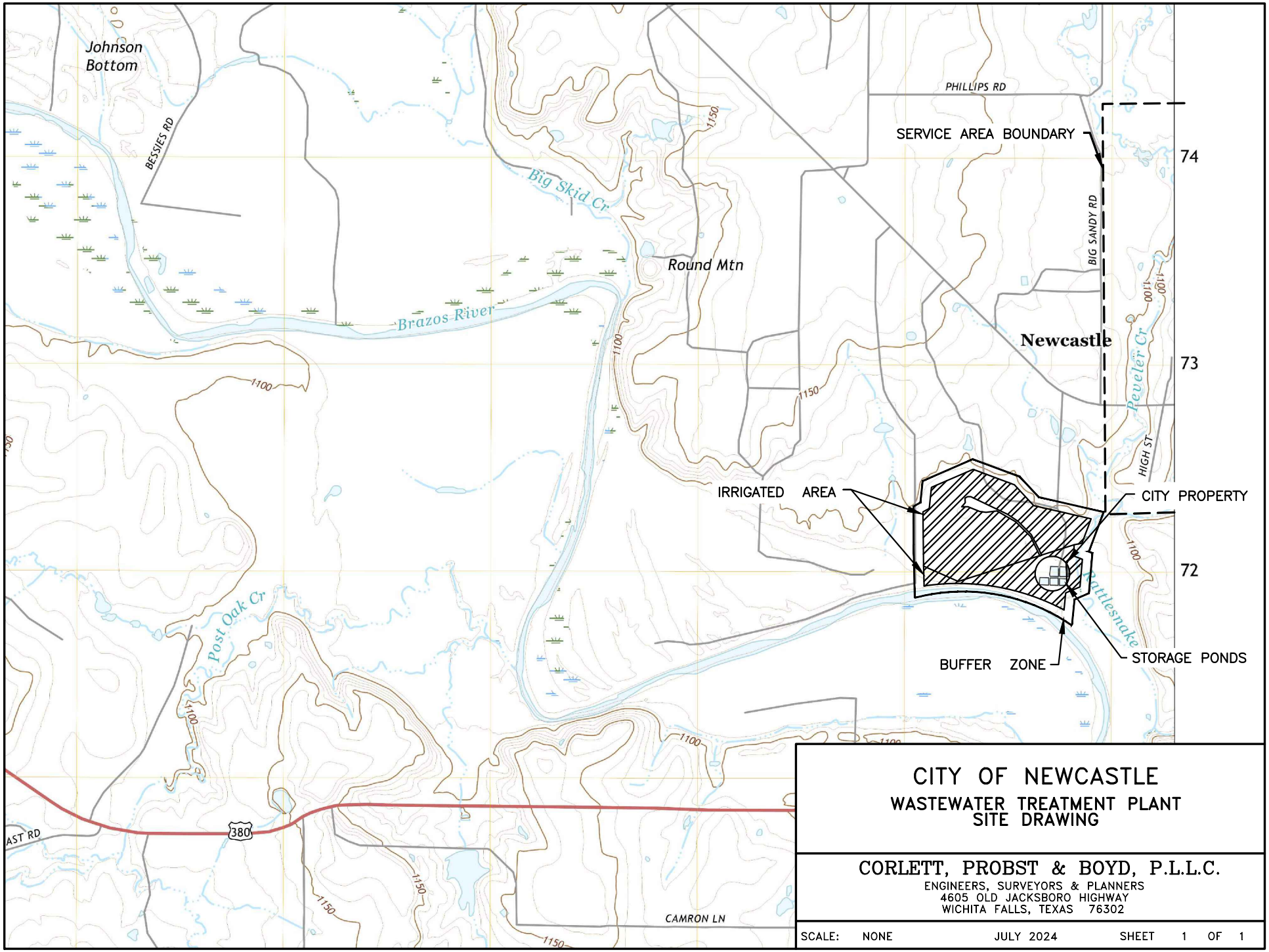


CITY OF NEWCASTLE

WASTEWATER TREATMENT PLANT FLOW DIAGRAM

CORLETT, PROBST & BOYD, P.L.L.C.
ENGINEERS, SURVEYORS & PLANNERS
4605 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302

SCALE: NONE	JULY 2024	SHEET 1 OF 1



CITY OF NEWCASTLE

WASTEWATER TREATMENT PLANT SITE DRAWING

CORLETT, PROBST & BOYD, P.L.L.C.
ENGINEERS, SURVEYORS & PLANNERS
4605 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302

SCALE: NONE JULY 2024 SHEET 1 OF 1

TEXOMA ENGINEERING SERVICES L.L.C.

P.O. Box 8512, Wichita Falls, TX, 76307
Voice (940)761-2284 Fax (940)761-5565

FAX Transmission

Page 1 of 2

From: J. Don Johnston, PE
President

Date: 5/25/2005

To:
Company: Corlett, Probst, & Boyd
Attention: Dean Hinton
FAX #: 397-0549

Message:

TEXOMA ENGINEERING SERVICES
2222 SHEPPARD ACCESS RD.
WICHITA FALLS, TX 76306

May 12, 2005

Corlett, Probst, & Boyd
4605 Jacksboro Hwy.
Wichita Falls, TX 76302

RE: Pond #3 S-1504
West Side of Pond #3 S-1505

Per your request, Texoma Engineering Services tested the soil samples delivered to our office. The samples were marked with our Lab numbers S-1404 and S–1505. The samples were visually classified and tested for Atterberg Limits, Liquid Limit, Plastic Limit and PI, in accordance with ASTM D-4318-98. Results of the tests are tabulated below.

Sample ID #	S-1504	S-1505
Description	CL lean clay	CL lean clay
Liquid Limit - LL	41	44
Plastic Limit – PL	19	19
Plasticity Index - PI	22	25
Passing #200	93%	97%

If you have any questions or need anything further, please call our office at 761-2284.

Respectfully,

STATE OF TEXAS
JAMES DON JOHNSTON
39902
REGISTERED
PROFESSIONAL ENGINEER

J. Don Johnston
President

NOTES TO USERS

use in administering the National Flood Insurance Program. It arily identify all areas subject to flooding, particularly from local e of small size. The **community map repository** should be ssible updated or additional flood hazard information.

detailed information in areas where **Base Flood Elevations** **oodways** have been determined, users are encouraged to consult s and Floodway Data and/or Summary of Stillwater Elevations within the Flood Insurance Study (FIS) report that accompanies rs should be aware that BFEs shown on the FIRM represent flood elevations. These BFEs are intended for flood insurance only and should not be used as the sole source of flood ation. Accordingly, flood elevation data presented in the FIS be utilized in conjunction with the FIRM for purposes of or floodplain management.

Flood Elevations shown on this map apply only landward American Vertical Datum of 1988 (NAVD 88). Users of this aware that coastal flood elevations are also provided in the llwater Elevations table in the Flood Insurance Study report on. Elevations shown in the Summary of Stillwater Elevations used for construction and/or floodplain management purposes igher than the elevations shown on this FIRM.

floodways were computed at cross sections and interpolated ections. The floodways were based on hydraulic considerations quirements of the National Flood Insurance Program. Floodway er pertinent floodway data are provided in the Flood Insurance this jurisdiction.

t in Special Flood Hazard Areas may be protected by **flood es.** Refer to Section 2.4 "Flood Protection Measures" of nce Study report for information on flood control structures n.

used in the preparation of this map was Texas State ral zone (FIPSZONE 4202). The **horizontal datum** was NAD83, oid. Differences in datum, spheroid, projection or State Plane he production of FIRMs for adjacent jurisdictions may result in differences in map features across jurisdiction boundaries. s do not affect the accuracy of the FIRM.

on this map are referenced to the North American Vertical . These flood elevations must be compared to structure and ns referenced to the same **vertical datum.** For information rsion between the National Geodetic Vertical Datum of 1929 American Vertical Datum of 1988, visit the National Geodetic at http://www.ngs.noaa.gov/ or contact the National Geodetic llowing address:

Services

Survey

Highway
20910-3282

elevation, description, and/or location information for **bench marks** map, please contact the Information Services Branch of the tic Survey at **(301) 713-3242,** or visit its website at aa.gov/.

ation shown on this FIRM was derived from multiple sources in e US Geological Survey, National Geodetic Survey, Texas s Information System, the Federal Emergency Management Agency, egional Planning Commission.

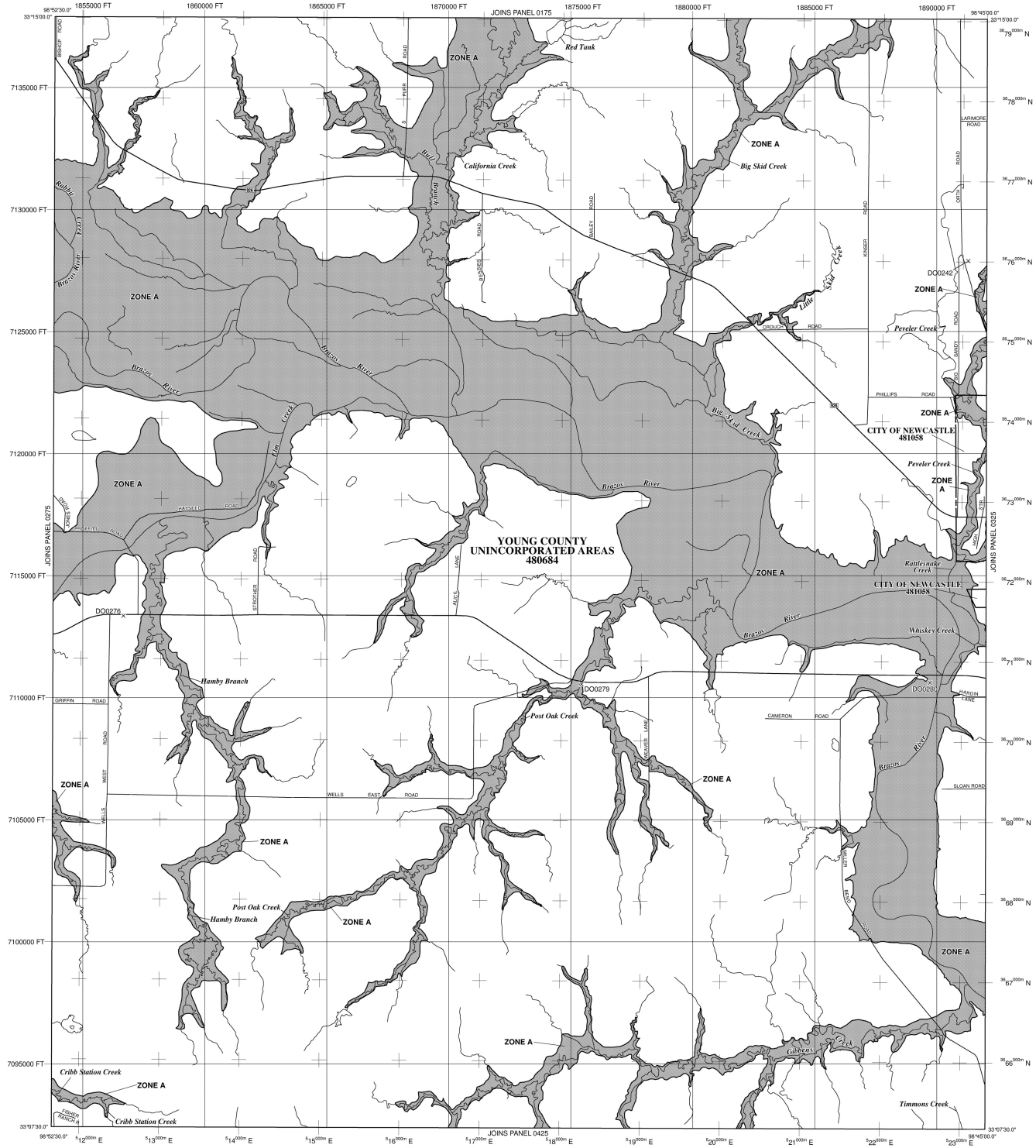
more detailed and up-to-date **stream channel configurations** n on the previous FIRM for this jurisdiction. The floodplains hat were transferred from the previous FIRM may have been nform to these new stream channel configurations. As a d Profiles and Floodway Data tables *in the Flood Insurance hich contains authoritative hydraulic data*) may reflect stream s that differ from what is shown on this map.

s shown on this map are based on the best data available blication. Because changes due to annexations or de-annexations rred after this map was published, map users should contact nunity officials to verify current corporate limit locations.

he separately printed **Map Index** for an overview map of the the layout of map panels; community map repository addresses; Communities table containing National Flood Insurance Program community as well as a listing of the panels on which each ated.

MA Map Service Center at 1-800-358-9616 for information on ts associated with this FIRM. Available products may include d Letters of Map Change, *a Flood Insurance Study report,* sions of this map. The FEMA Map Service Center may also be at 1-800-358-9620 and its website at http://www.msc.fema.gov/.

estions about this map or questions concerning the National Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) A website at http://www.fema.gov/.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A	No Base Flood Elevations determined.
ZONE AE	Base Flood Elevations determined.
ZONE AH	Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
ZONE AO	Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE AR	Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
ZONE A99	Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
ZONE V	Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
ZONE VE	Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X	Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X	Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D	Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

	Floodplain boundary
	Floodway boundary
	Zone D boundary
	CBRS and OPA boundary
	Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
513	Base Flood Elevation line and value; elevation in feet*
(EL 987)	Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

A — A	Cross section line
23 — 23	Transect line
97°07'30", 32°22'30"	Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
4275000mN	1000-meter Universal Transverse Mercator grid ticks, zone 14
6000000 FT	5000-foot grid values: Texas State Plane coordinate system, north central zone (FIPSZONE 4202), Lambert Conformal Conic
DX5510	Bench mark (see explanation in Notes to Users section of this FIRM panel)
M1.5	River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
January 2, 1991

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
July 18, 2011 --to update corporate limits, to advance suffix, to update map format, to add roads and road names, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 2000'
1000 0 2000 4000 FEET
600 0 600 1200 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0300E

FIRM
FLOOD INSURANCE RATE MAP
YOUNG COUNTY, TEXAS
AND INCORPORATED AREAS

PANEL 300 OF 625
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
YOUNG COUNTY	480684	0300	E
NEWCASTLE, CITY OF	481058	0300	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48503C0300E

MAP REVISED
JULY 18, 2011

Federal Emergency Management Agency

National Flood Hazard Layer FIRMette

FEMA

98°45'40"W 33°11'28"N

98°45'2"W 33°10'58"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/10/2024 at 1:55 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Cropping Plan

City of Newcastle- WQ0010647-003

1. Soils Map with Crops
   See Attachment M. Native grasses are growing in this location

2. Cool and warm season plant species
   Native vegetation

3. Crop yield goals
   None

4. Crop growing season
   Year round

5. Crop nutrient requirements
   None

6. Additional fertilizer requirements
   None

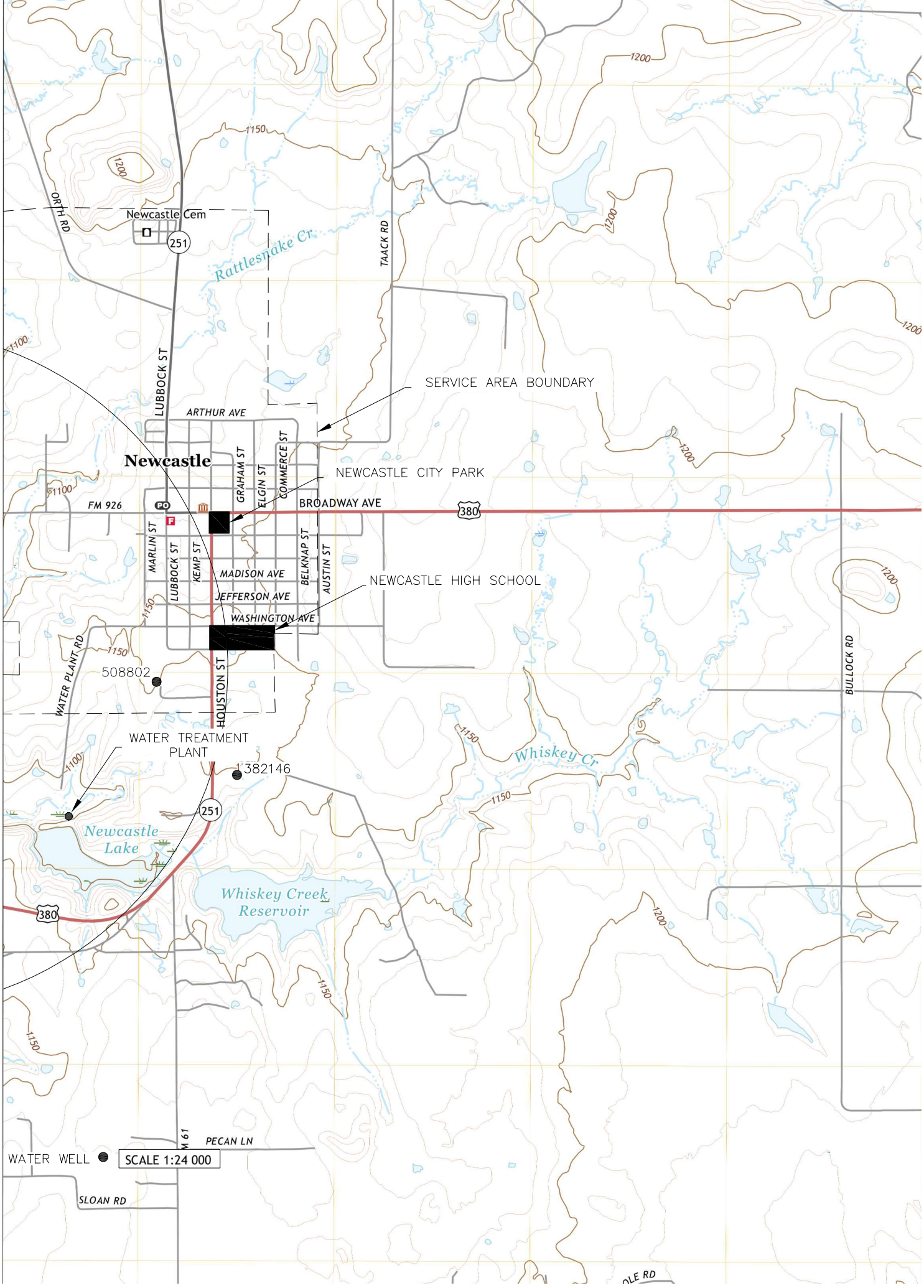
7. Min/Max harvest height
   None

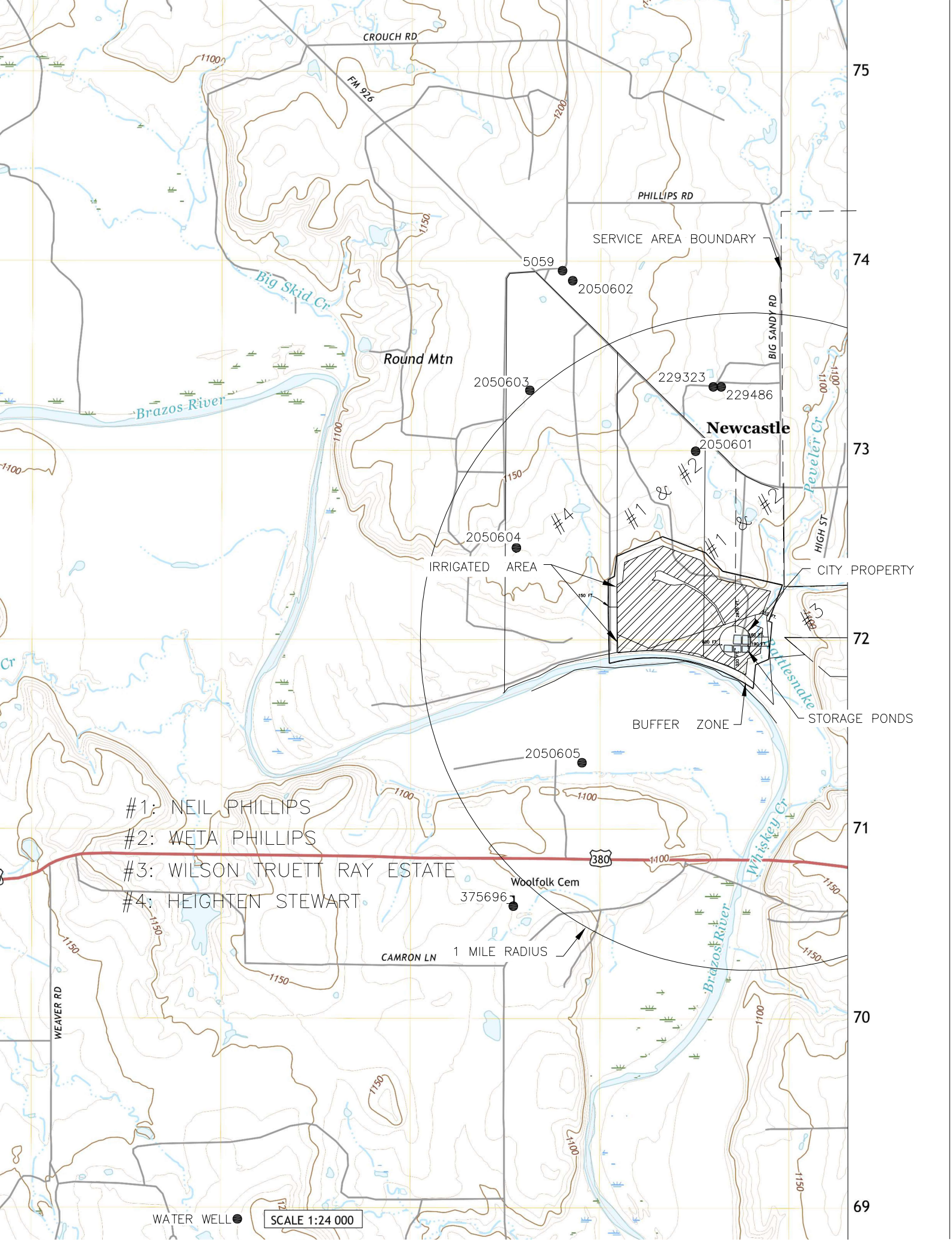
8. Supplemental watering requirements
   None

9. Crop salt tolerances
   Native grass: 8-12 millimhos/cm

10. Harvesting method/number of harvests
    No harvests

11. Justification for not removing existing vegetation to be harvested
    Based on the on the average influent organic strength at 200 mg/L and the permitted flow rate of at .06 MGD, calculations in the water balance and nitrogen balance show that nutrient quantities are insufficient to cause buildup.


Newcastle
Newcastle Cem
251
Rattlesnake Cr
ORTH RD
TAACK RD
LUBBOCK ST
ARTHUR AVE
SERVICE AREA BOUNDARY
GRAHAM ST
ELGIN ST
COMMERCE ST
NEWCASTLE CITY PARK
FM 926
PO
F
BROADWAY AVE
380
MARLIN ST
LUBBOCK ST
KEMP ST
MADISON AVE
JEFFERSON AVE
WASHINGTON AVE
BELKNAP ST
AUSTIN ST
NEWCASTLE HIGH SCHOOL
WATER PLANT RD
508802
HOUSTON ST
BULLOCK RD
WATER TREATMENT PLANT
1382146
Whiskey Cr
Newcastle Lake
Whiskey Creek Reservoir
1200
1150
1100
74
73
72
71
70
69
WATER WELL
SCALE 1:24 000
PECAN LN
SLOAN RD


CROUCH RD
FM 926
PHILLIPS RD
SERVICE AREA BOUNDARY
5059
2050602
Big Skid Cr
Round Mtn
2050603
229323
229486
BIG SANDY RD
Brazos River
Newcastle
2050601
Reveler Cr
HIGH ST
#1 & #2
#4
2050604
IRRIGATED AREA
CITY PROPERTY
BUFFER ZONE
STORAGE PONDS
Rattlesnake
2050605
#1: NEIL PHILLIPS
#2: WETA PHILLIPS
#3: WILSON TRUETT RAY ESTATE
#4: HEIGHTEN STEWART
380
Woolfolk Cem
375696
Whiskey Cr
Brazos River
CAMRON LN
1 MILE RADIUS
WEAVER RD
WATER WELL
SCALE 1:24 000
75
74
73
72
71
70
69

Attachment K

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
2050605	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
2050604	Stock	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
2050603	Unused	N	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
2050601	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
2050602	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
5059	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
229323	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
229486	Irrigation	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
375696	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
508802	Domestic	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and
382146	Stock	Y	open	Maintain a buffer distance of at least 150 feet from irrigation fields and

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 20-50-601

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2050601
County	Young
River Basin	Brazos
Groundwater Management Area	6
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	33.195834
Latitude (degrees minutes seconds)	33° 11' 45" N
Longitude (decimal degrees)	-98.759723
Longitude (degrees minutes seconds)	098° 45' 35" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	319PUBL - Pueblo Formation
Aquifer	Cross Timbers
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1128
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	112
Well Depth Source	Memory of Owner
Drilling Start Date	
Drilling End Date	0/0/1940
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Lola Remington
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	8/27/1962
Last Update Date	3/4/2020

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Other Metal			0	112

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

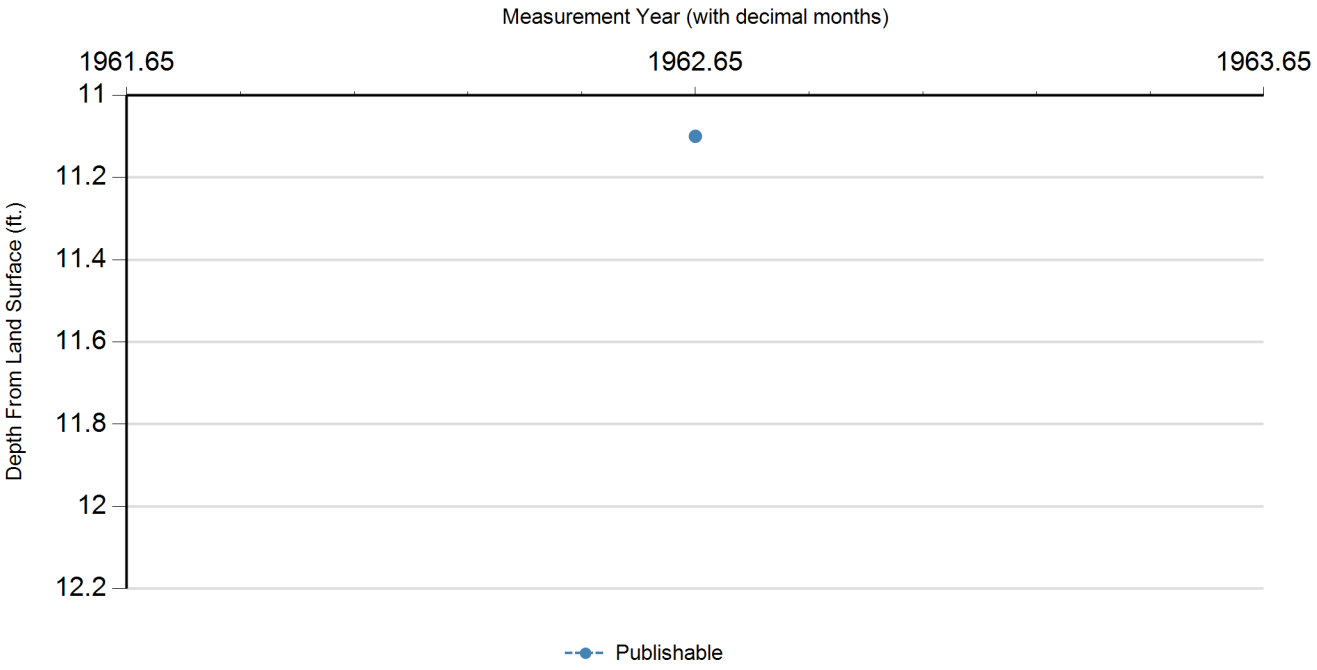
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



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	8/27/1962		11.1		1116.9	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 8/27/1962 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Pueblo Formation

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; not filtered or preserved

Collection Remarks: pressure tank

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		792	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		966.51	mg/L	
00910	CALCIUM (MG/L)		21	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		60	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		4.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		278	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		55	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.8	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		10.27		
00955	SILICA, DISSOLVED (MG/L AS SI02)		29	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		8.21		
00932	SODIUM, CALCULATED, PERCENT		71	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		315	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1800	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		95	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1060	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 20-50-602

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2050602
County	Young
River Basin	Brazos
Groundwater Management Area	6
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	33.203334
Latitude (degrees minutes seconds)	33° 12' 12" N
Longitude (decimal degrees)	-98.765556
Longitude (degrees minutes seconds)	098° 45' 56" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	319PUBL - Pueblo Formation
Aquifer	Cross Timbers
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1174
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	52
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	0/0/1900
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Jet
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Mrs. Jeff Barnett
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	8/27/1962
Last Update Date	3/4/2020

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Other Metal			0	52

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

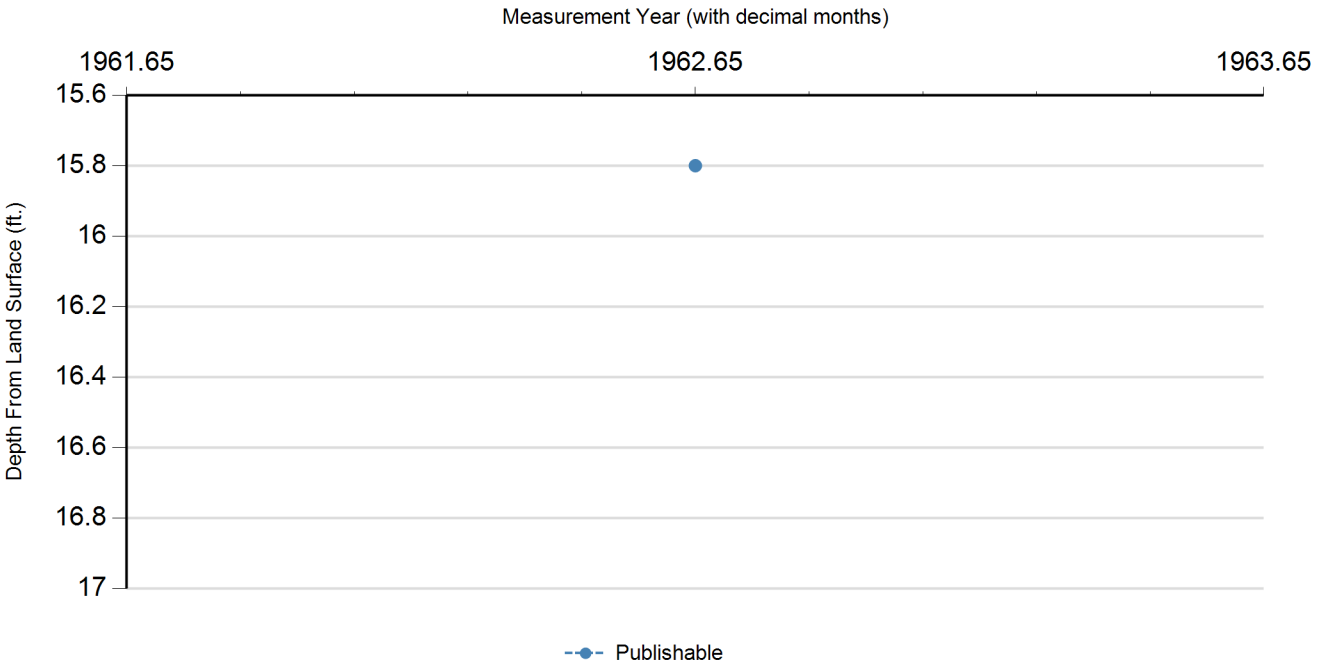
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



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	8/27/1962		15.8		1158.2	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 8/27/1962 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Pueblo 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)		433	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		528.41	mg/L	
00910	CALCIUM (MG/L)		72	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		50	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		348	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		41	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		40	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.6	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		1.69		
00955	SILICA, DISSOLVED (MG/L AS SI02)		27	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.73		
00932	SODIUM, CALCULATED, PERCENT		42	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		117	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1188	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		61	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		669	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 20-50-603

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2050603
County	Young
River Basin	Brazos
Groundwater Management Area	6
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	33.197222
Latitude (degrees minutes seconds)	33° 11' 50" N
Longitude (decimal degrees)	-98.769722
Longitude (degrees minutes seconds)	098° 46' 11" W
Coordinate Source	+/- 1 Second
Aquifer Code	319PUBL - Pueblo Formation
Aquifer	Cross Timbers
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1171
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	110
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	0/0/1900
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	Mrs. Jeff Barnett
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	3/21/1991
Last Update Date	3/4/2020

Remarks	Unused stock well.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Other Metal			0	110

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

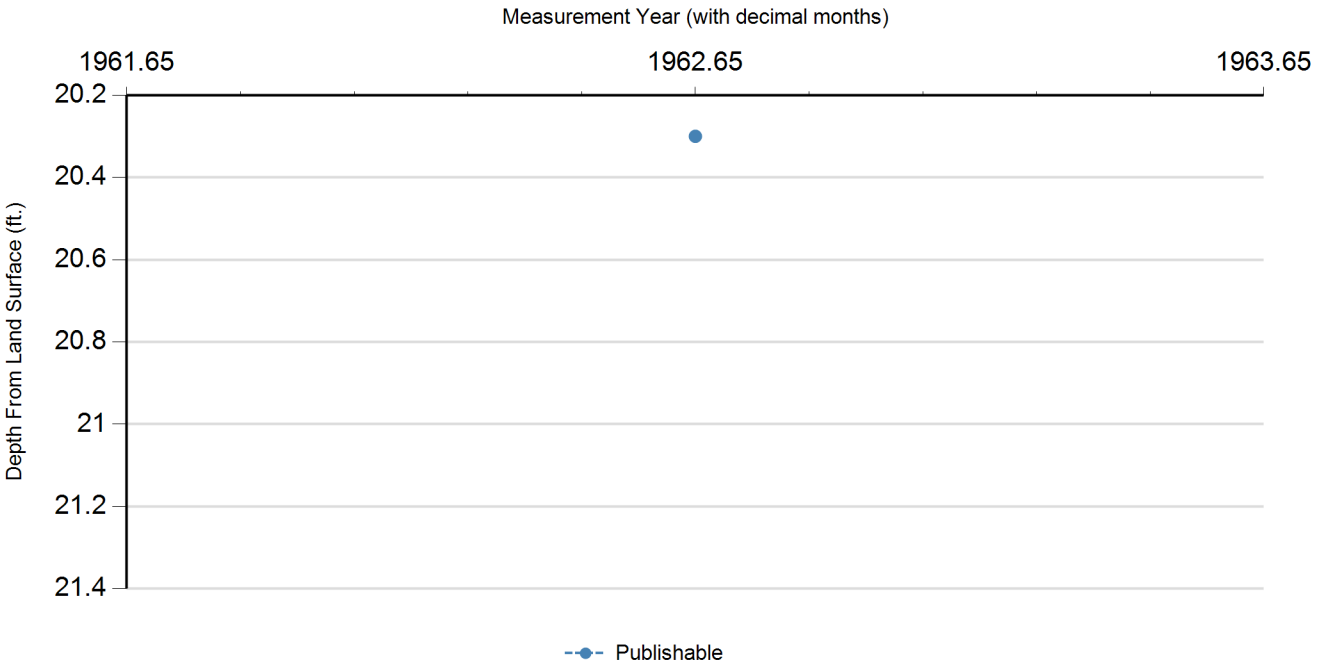
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



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	8/27/1962		20.3		1150.7	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 8/27/1962 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Pueblo 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)		359	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		438.1	mg/L	
00910	CALCIUM (MG/L)		53	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		655	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		259	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		31	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.2	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		1.98		
00955	SILICA, DISSOLVED (MG/L AS SI02)		13	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		16.73		
00932	SODIUM, CALCULATED, PERCENT		83	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		620	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		3630	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		317	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		24	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1909	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 20-50-604

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2050604
County	Young
River Basin	Brazos
Groundwater Management Area	6
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	33.192222
Latitude (degrees minutes seconds)	33° 11' 32" N
Longitude (decimal degrees)	-98.769722
Longitude (degrees minutes seconds)	098° 46' 11" W
Coordinate Source	+/- 1 Second
Aquifer Code	321HPVL - Harpersville Formation
Aquifer	Cross Timbers
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1140
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	120
Well Depth Source	Memory of Owner
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Jet
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	B-7 Ranch Foxworth Est.
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	3/21/1991
Last Update Date	3/4/2020

Remarks	Well drilled to 120 ft. Reported sanded up to 95 ft.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Steel			0	95

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

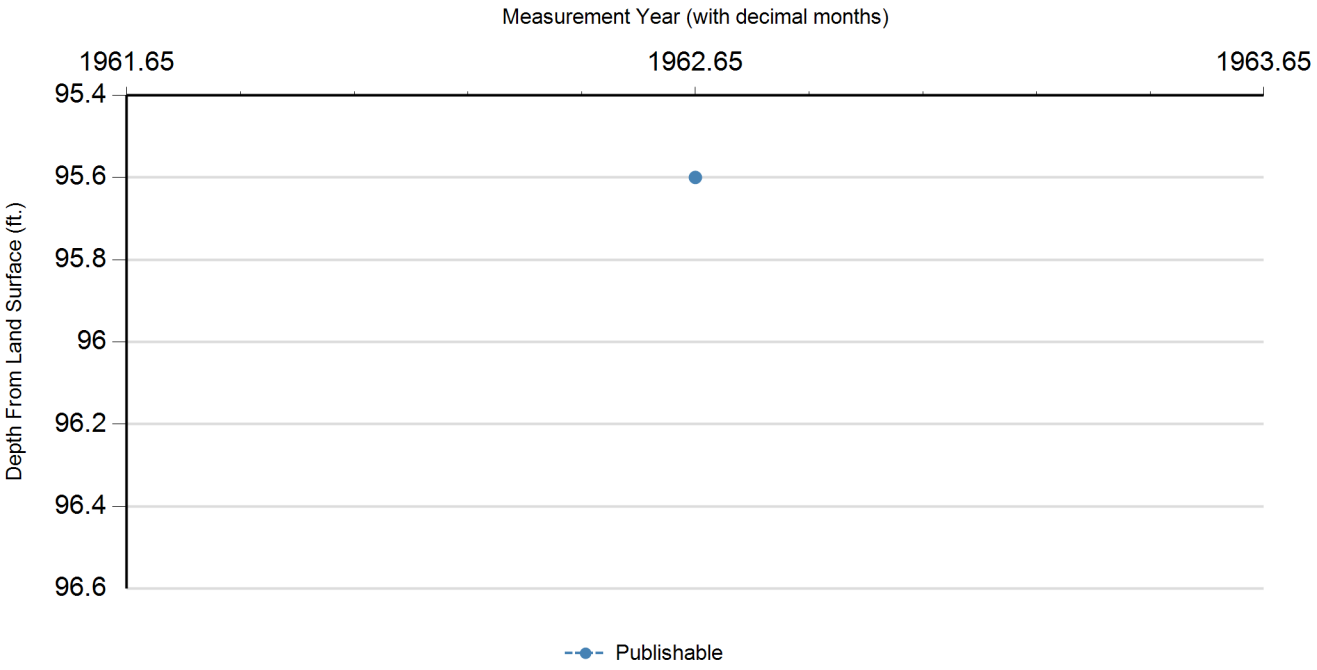
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



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	8/27/1962		95.6		1044.4	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 8/27/1962 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Harpersville 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)		363	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		442.99	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)		64	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.7	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		209	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		23	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		37	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		3.07		
00955	SILICA, DISSOLVED (MG/L AS SI02)		17	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		5.02		
00932	SODIUM, CALCULATED, PERCENT		63	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		167	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1140	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		69	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		642	mg/L	

Water Quality Analysis

Sample Date: 3/21/1991 **Sample Time:** 1002 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Harpersville Formation

Analyzed Lab: Texas Department of Health **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		330	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		336	mg/L as CACO3	
01503	ALPHA, DISSOLVED (PC/L)		7.9	PC/L	1.3
01005	BARIUM, DISSOLVED (UG/L AS BA)		21	ug/L	
03503	BETA, DISSOLVED (PC/L)		11	PC/L	8
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		410.04	mg/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		2.91	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	10	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		56	mg/L	
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		712	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.66	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		236	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)		2710	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		23	mg/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		0.05	mg/L as N	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.22	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.46	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		9.4	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		2.03		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		17.42		
00932	SODIUM, CALCULATED, PERCENT		85	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		613	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2740	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		1610	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		290	mg/L as SO4	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 20-50-604

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1908	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 20-50-605

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	2050605
County	Young
River Basin	Brazos
Groundwater Management Area	6
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	33.179167
Latitude (degrees minutes seconds)	33° 10' 45" N
Longitude (decimal degrees)	-98.765834
Longitude (degrees minutes seconds)	098° 45' 57" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	100ALVM - Alluvium
Aquifer	Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1100
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	35
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	0/0/1900
Drilling Method	Dug
Borehole Completion	Straight Wall

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Historical
Water Quality Available	Yes
Pump	Jet
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	M. J. Phillips
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	10/4/1993
Last Update Date	3/4/2020

Remarks	Historical observation well.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
36	Blank	Rock or Stone				

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

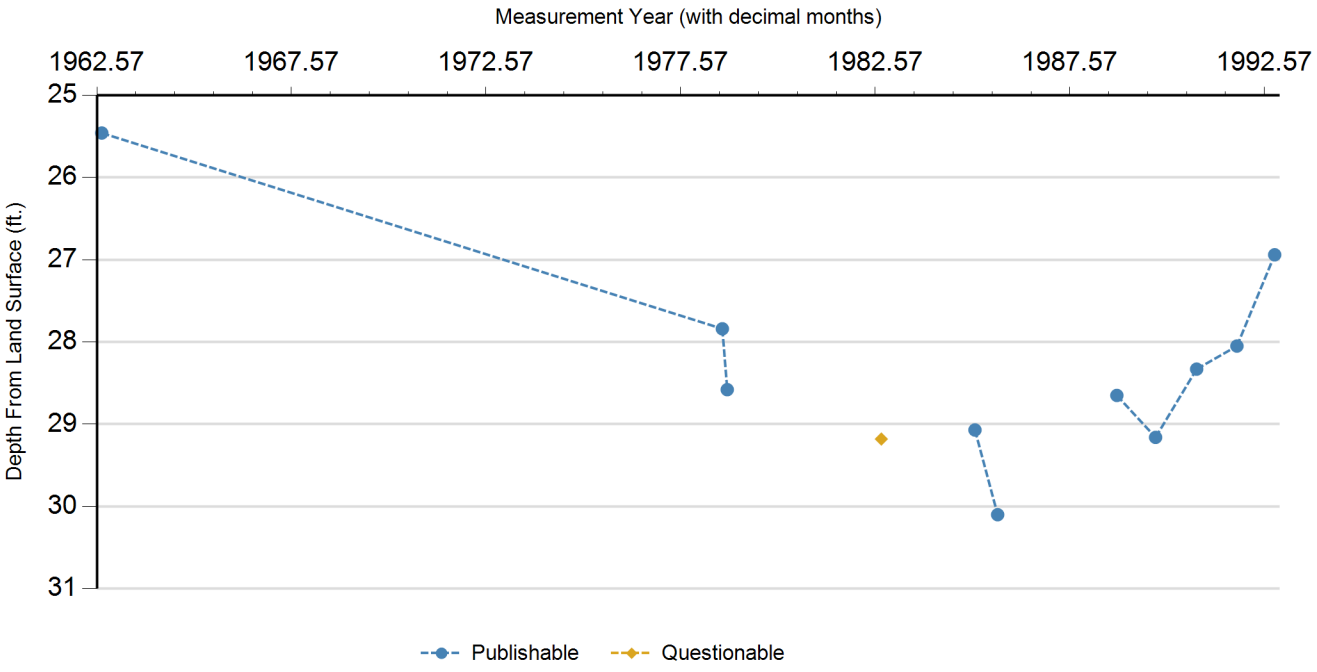
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



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	9/13/1962		25.46		1074.54	1	Texas Water Development Board	Steel Tape		
P	8/23/1978		27.84	2.38	1072.16	1	Texas Water Development Board	Steel Tape		
P	10/9/1978		28.58	0.74	1071.42	1	Texas Water Development Board	Steel Tape		
X	11/18/1981					1	Texas Water Development Board		31	
Q	9/24/1982		29.18		1070.82	1	Texas Water Development Board	Steel Tape	12	
X	10/20/1983					1	Texas Water Development Board		30	
P	2/17/1985		29.07		1070.93	1	Texas Water Development Board	Steel Tape		
P	9/20/1985		30.1	1.03	1069.9	1	Texas Water Development Board	Steel Tape		
X	10/21/1987					1	Texas Water Development Board		37	
P	10/13/1988		28.65		1071.35	1	Texas Water Development Board	Steel Tape		
P	10/11/1989		29.16	0.51	1070.84	1	Texas Water Development Board	Steel Tape		
P	10/31/1990		28.33	(0.83)	1071.67	1	Texas Water Development Board	Steel Tape		
P	11/14/1991		28.05	(0.28)	1071.95	1	Texas Water Development Board	Steel Tape		
P	11/3/1992		26.94	(1.11)	1073.06	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
12	Uncertain of reason for questionable measurement
30	Well temporarily inaccessible due to impassable roads, locked gate, etc.
31	Well temporarily inaccessible due to vicious animals
37	No measurement due to admin decision

Water Quality Analysis

Sample Date: 9/13/1962 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Alluvium

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)		358	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		436.88	mg/L	
00910	CALCIUM (MG/L)		26	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		7	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.7	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		365	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		73	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		33	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.3	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		13	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.73		
00932	SODIUM, CALCULATED, PERCENT		16	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		32	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		808	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		42	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		27	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		442	mg/L	

Water Quality Analysis

Sample Date: 8/23/1978 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Alluvium

Analyzed Lab: Texas Department of Health **Reliability:** From well not sufficiently pumped; 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)		443	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		540.61	mg/L	
00910	CALCIUM (MG/L)		98	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		149	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		586	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		83	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		19	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		14	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.35		
00932	SODIUM, CALCULATED, PERCENT		32	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		131	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1856	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		201	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		961	mg/L	

Water Quality Analysis

Sample Date: 8/10/1982 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Alluvium

Analyzed Lab: Texas Department of Health **Reliability:** Not indicative of aquifer quality.

Collection Remarks: Cooke samples questionable

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		392	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		478.38	mg/L	
00910	CALCIUM (MG/L)		117	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		312	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.9	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		744	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		110	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		50.8	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		13	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		3.51		
00932	SODIUM, CALCULATED, PERCENT		39	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		220	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2688	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		330	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		24	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		1388	mg/L	

** Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..*

STATE OF TEXAS WELL REPORT for Tracking #5059

Owner:	**Foxworth B7 Ranch**	Owner Well #:	**1**
Address:	**P.O. Box 460 Newcastle, TX 76372**	Grid #:	**20-50-6**
Well Location:	**Weston FM 926 Newcastle, TX 76372**	Latitude:	**33° 12' 14" N**
		Longitude:	**098° 45' 58" W**
Well County:	**Young**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **12/12/2001** Drilling End Date: **12/12/2001**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
7.875	**0**	**100**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
15	**100**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**15**	**4**

Seal Method: **Grouted**

Sealed By: **Erwin**

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

Distance to Septic Field or other concentrated contamination (ft.): **n/a**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **n/a**

Surface Completion: **Surface Sleeve Installed**

Water Level: **20 ft.** below land surface on **2001-12-12** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 50 GPM with 25 ft. drawdown after 1 hours**

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: **Erwin Water Well Drilling**

6991 FM 4
Jacksboro, TX 76458

Driller Name: **Henry Erwin** License Number: **2555**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**Topsoil**
5	**15**	**Gravel**
15	**18**	**Sand & gravel**
18	**30**	**Gray clay**
30	**33**	**Red clay**
33	**42**	**Sandy gray clay**
42	**50**	**Sand**
50	**53**	**Coal**
53	**100**	**Gray clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	**New**	**Sch 40 PVC**	**0-100**
4 1/2	**New**	**Slotted 40-60 .020**	

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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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 #229323

Owner:	**Bill Duckworth**	Owner Well #:	**1**
Address:	**197 Big Sandy Rd Newcastle, TX 76372**	Grid #:	**20-50-6**
Well Location:	**197 Big Sandy Rd Newcastle, TX 76372**	Latitude:	**33° 11' 59" N**
		Longitude:	**098° 45' 30" W**
Well County:	**Young**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **6/25/2007** Drilling End Date: **6/25/2007**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7**	**0**	**180**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Plug Information:

Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Dry Hole		

Water Quality:

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

Chemical Analysis Made: **Unknown**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Thorp Springs Well Svc Inc**

P.O. Box 786
Mineral Wells, TX 76068

Driller Name: **Diego Chavira** License Number: **54510**

Apprentice Name: **Daniel Ewing** Apprentice Number: **55084**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Top Soil**
20	**60**	**Top Soil / Shale [Shell]**
60	**70**	**Sandstone**
70	**75**	**Gray Shale**
75	**80**	**Lignite**
80	**110**	**Gray Shale**
110	**115**	**Sandstone**
115	**120**	**Lignite**
120	**180**	**Gray Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
None			

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

STATE OF TEXAS WELL REPORT for Tracking #229486

Owner:	**W.L. Duckworth**	Owner Well #:	**2**
Address:	**197 Big Sandy Rd Newcastle, TX 76372**	Grid #:	**20-50-6**
Well Location:	**197 Big Sandy Rd Newcastle, TX 76372**	Latitude:	**33° 11' 59" N**
		Longitude:	**098° 45' 29" W**
Well County:	**Young**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **7/11/2007** Drilling End Date: **7/11/2007**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**100**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**10**	**100**	**Gravel**	**1/4**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**5**

Seal Method: **Conv**

Sealed By: **Company**

Distance to Property Line (ft.): **150**

Distance to Septic Field or other concentrated contamination (ft.): **300**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Land owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **60 ft.** below land surface on **No Data** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 142 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
60	**Fresh**

Chemical Analysis Made: **No**

Did the driller knowingly penetrate any strata which contained injurious constituents?: **Unknown**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **Thorp Springs Well Svc Inc**

P.O. Box 786
Mineral Wells, TX 76068

Driller Name: **Diego Chavira** License Number: **54510**

Apprentice Name: **Daniel Ewing** Apprentice Number: **55084**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Top Soil**
20	**60**	**Yellow Clay**
60	**70**	**Sandstone**
70	**100**	**Gray Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
4 New PVC Screen 100 - 80 0.20
4 New PVC 80 - 0

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

STATE OF TEXAS WELL REPORT for Tracking #375696

Owner:	**Gary Chilcult**	Owner Well #:	**No Data**
Address:	**P.O. Box 215 Newcastle, TX 76372**	Grid #:	**20-50-6**
Well Location:	**Highway 380 Newcastle, TX 76372**	Latitude:	**33° 10' 26" N**
		Longitude:	**098° 46' 09" W**
Well County:	**Young**	Elevation:	**No Data**

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

Drilling Start Date: **8/22/2014** Drilling End Date: **8/22/2014**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.875**	**0**	**100**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**10**	**100**	**Gravel**	**.25**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**2 Portland**

Seal Method: **Grout**

Sealed By: **Lyons**

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

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: **Submersible** Pump Depth (ft.): **80**

Well Tests: **Estimated** **Yield: 1.5 GPM after 1 hours, no drawdown 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: **Erwin Water Well Drilling**

6991 FM 4
Jacksboro, TX 76458

Driller Name: **Burke Lyons** License Number: **55001**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**8**	**Sandy topsoil**
8	**34**	**Brown clay**
34	**39**	**Moist sand**
39	**76**	**Gray clay**
76	**87**	**Sand**
87	**100**	**Gray clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	**N**	**SCH 40 PVC**	**0-80**
4	**N**	**SLOTTED**	**80-100 .020**

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

STATE OF TEXAS WELL REPORT for Tracking #382146

Owner:	**Randy Saylor**	Owner Well #:	**#1**
Address:	**Po Box 2169** **Graham, TX 76450**	Grid #:	**20-51-4**
		Latitude:	**33° 10' 55" N**
Well Location:	**US 380** **Newcastle, TX 76372**	Longitude:	**098° 44' 13" W**
Well County:	**Young**	Elevation:	**No Data**

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

Drilling Start Date: **11/24/2014** Drilling End Date: **11/24/2014**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7.875**	**0**	**70**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**12**	**70**	**Gravel**	**3/8**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**12**	**8 bag cement**

Seal Method: **Unknown**

Sealed By: **Driller**

Distance to Property Line (ft.): **100+**

Distance to Septic Field or other concentrated contamination (ft.): **50+**

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: **Estimated** **Yield: 17 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
28	**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: **Water Well Drilling & Service**

Po box 40
Graham, TX 76450

Driller Name: **Jeffery L. Lowery** License Number: **59357**

Apprentice Name: **Chris Jennings**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**topsoil**
2	**27**	**clay**
27	**64**	**sand**
64	**70**	**shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
4.5 in. New Pvc Screen 70-50
4.5 in. New Pvc Blank 50-0

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

STATE OF TEXAS WELL REPORT for Tracking #508802

Owner:	**Jesse & Lana Edwards**	Owner Well #:	**No Data**
Address:	**6850 Hwy.380 W Newcastle, TX 76372**	Grid #:	**20-51-4**
Well Location:	**Hwy. 380 across from Newcastle Schools Newcastle, TX**	Latitude:	**33° 11' 08.88" N**
		Longitude:	**098° 44' 30.48" W**
Well County:	**Young**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **3/29/2019** Drilling End Date: **3/29/2019**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
7.875	**0**	**80**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
10	**80**	**Gravel**	**3/8**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 1 Bags/Sacks**
2	**10**	**Bentonite 2 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 6 GPM**

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: **Erwin Drilling**

6991 FM 4
Jacksboro, TX 76458

Driller Name: **Brandon Erwin** License Number: **59667**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**Top Soil**
2	**13**	**Sand Rock**
13	**18**	**Yellow Clay**
18	**26**	**Gray Clay**
26	**32**	**Sand**
32	**34**	**Sandy Gray Clay**
34	**44**	**Conglomerate**
44	**46**	**Gray Clay**
46	**51**	**Sand & Shale**
51	**73**	**Sand**
73	**80**	**Gray Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**40**	**0**	**60**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**	**40 0.020**	**60**	**80**

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

GROUNDWATER QUALITY TECHNICAL REPORT

IN PARTIAL FULFILLMENT OF

2024 TCEQ DOMESTIC WASTEWATER PERMIT RENEWAL APPLICATION

FOR

THE CITY OF NEWCASTLE, TEXAS

PREPARED BY

CORLETT, PROBST & BOYD PLLC

ENGINEERS AND SURVEYORS

Table of Contents

Impact of Waste Disposal Operation on the Uses of Local Groundwater Resources

All wells within a 1 mile radius of the disposal site boundaries have been located and mapped. There are currently no known wells within a .5 mile boundary and six wells within a mile radius. There are no known local groundwater resources below the wastewater disposal site, and thus monitoring is not required. Impact to local groundwater resource use is minimal to absent.

Description of Local Groundwater

The outfall of the water treatment plant is located at 33d 11' 09" N and 98d 45' 29" W in the Cross Timbers Aquifer. According to Texas Water Database, the most current depth measurement of water in wells within a mile radius measured at:

Well 20-50-603 was 20.3 ft below land surface level on 1962-8-27

Well 20-50-601 was 11.1 ft below land surface level on 1962-8-27

Well 20-50-605 was 26.94 ft below the surface level in 1992-11-3

Well 20-50-604 was 95.6 ft below the surface level on 1962-8-27

Well 20-50-602 was 15.8 ft below land surface on 1962-8-27

Well 5059 was 20 ft below land surface on 2001-12-12

Well 229323 water depth is not available

Well 229486 water depth was 60 ft below land surface level, date is unavailable

Well 375696 water depth is not available

Well 508802 water depth is not available

Well 382146 water depth is not available

Well information Reports are attached with this Report

Groundwater Protection

Currently, the City of Newcastle disposes of treated effluent via surface application (sprinkler) on 83 acres of private grassland. Effluent received for application or storage is expected to be .80 inches over the entire irrigation area per month, and the amount of effluent will be distributed across a greater area. This greater distribution of wastewater will reduce the depth of effluent infiltration into the soil, further protecting groundwater from pollution.

Wastewater application rates are determined in order to prevent inundation and uncontrolled effluent distribution. According to the previous permit, effluent application shall not exceed .06 MGD, and no more than 3.36 acre-feet per year per acre.

The pond liners were constructed with a highly plastic lean clay. See attachment G for liner certification.

Groundwater Monitoring Wells and/or Lysimeters

There are no current or planned monitoring wells or lysimeters in the system. Therefore, no further information regarding these can be provided.

Design of Wastewater Disposal System

The wastewater disposal system is existing, therefore preliminary design calculations for the system have been completed and approved. A diagram of the current flow diagram and proposed irrigation area is included in the permit application.

Water Quality Monitoring

Water quality monitoring requirements for this permit are flow at a rate of five/week, BOD at a rate of once per month, and pH at a rate of once per month. pH must be greater than 6 and less than 9. Five-day Biochemical Oxygen Demand must not exceed 100 mg/L per single grab.

Water quality testing was conducted in July 2024 of the effluent applied to the grassland. All pollutant levels were below the permitted concentration. Pollutant Analysis of Treated Effluent from July 2024 is contained on page 10 of document 10054. Monthly effluent testing data is contained on page 35 of TCEQ for document 10054.

References

Water Data Interactive. Texas Water Development Board, www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer.

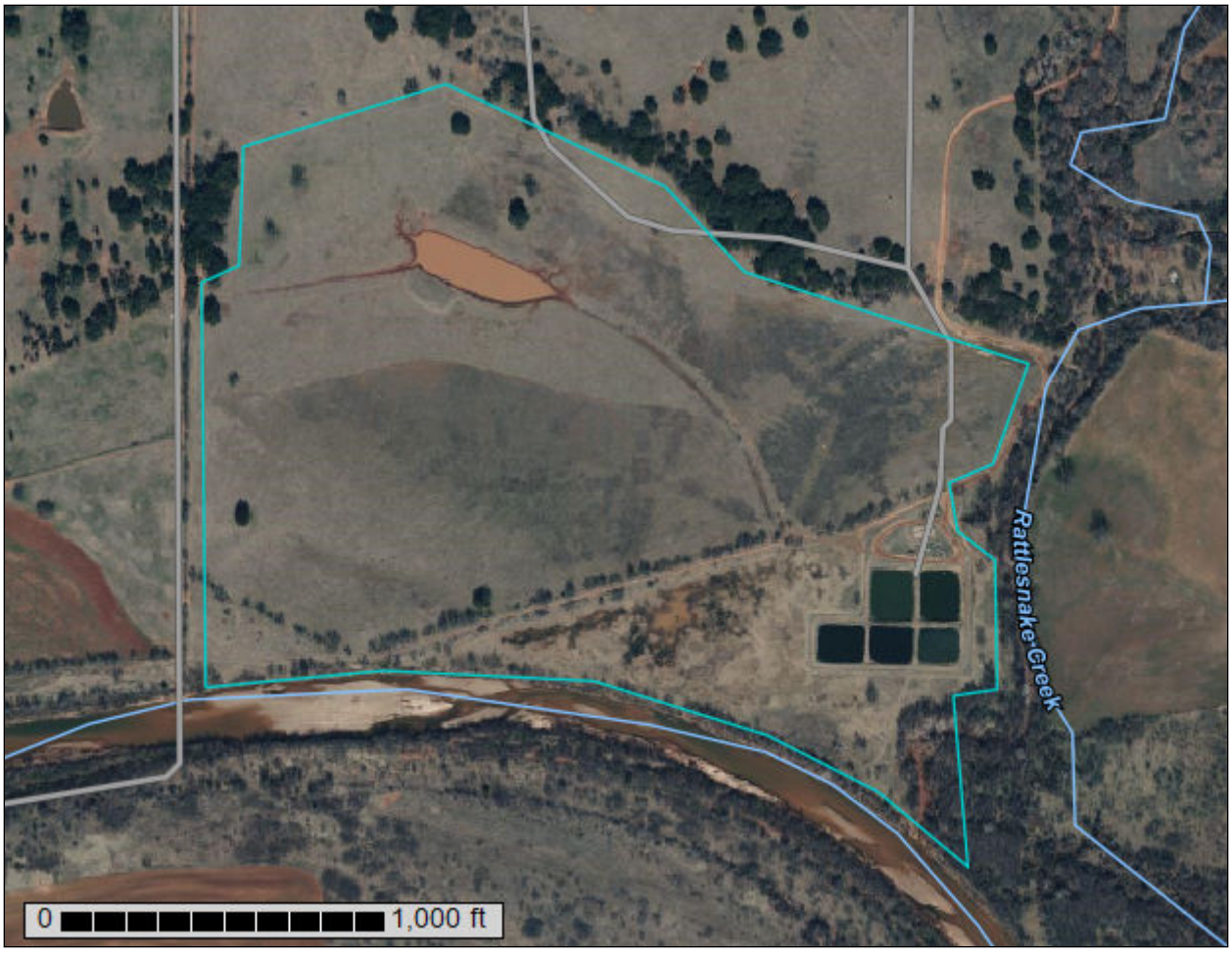
United States Department of Agriculture

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 Young County, Texas



July 16, 2024

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.

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Contents

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.

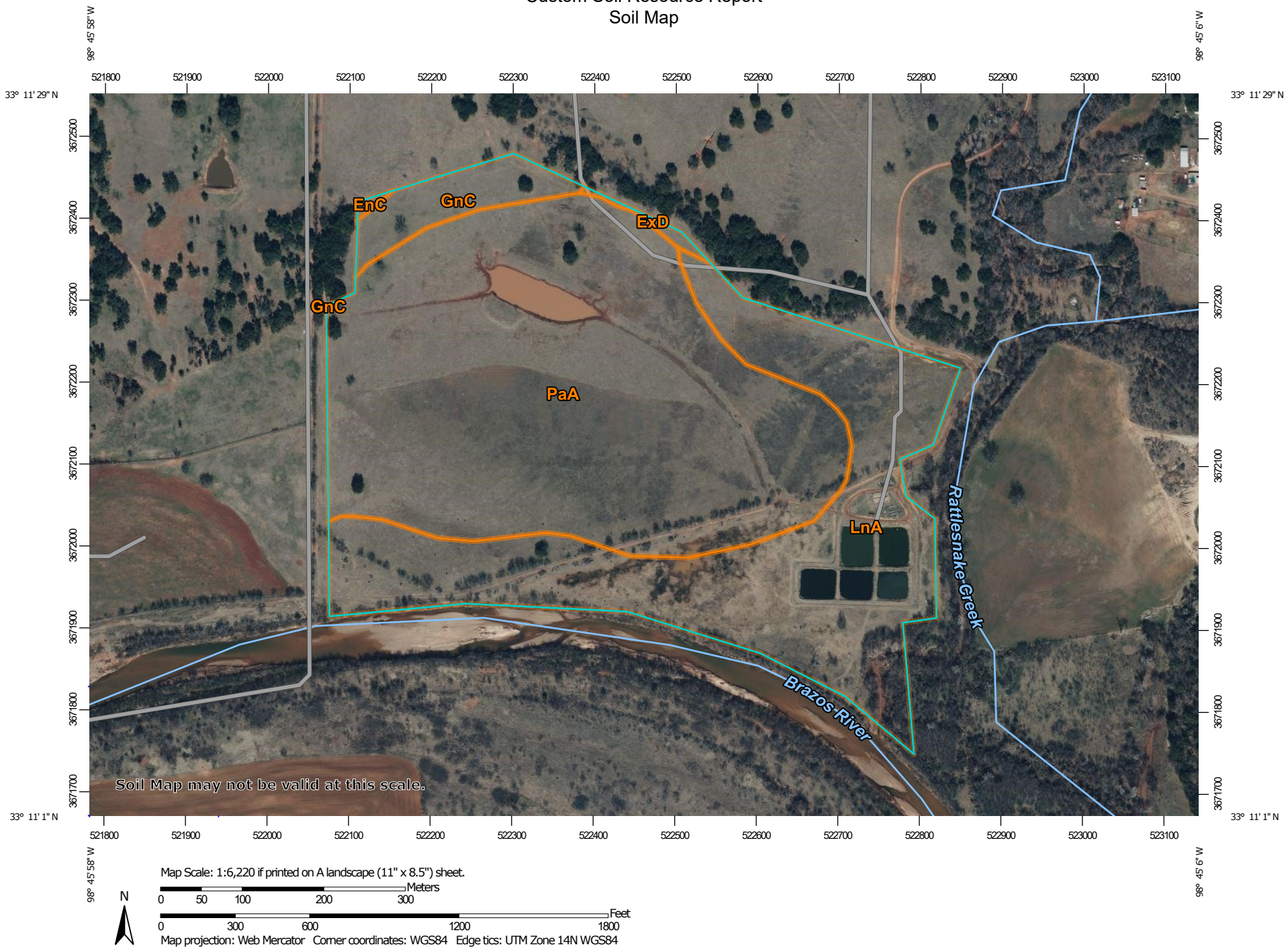
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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.

Custom Soil Resource Report
Soil Map



Map Scale: 1:6,220 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 300 600 1200 1800

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- 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: Young County, Texas
Survey Area Data: Version 20, 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 26, 2021—Jan 29, 2021

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
EnC	Enterprise very fine sandy loam, 3 to 5 percent slopes	0.1	0.1%
ExD	Exray-Loving complex, 1 to 8 percent slopes, extremely stony	0.4	0.4%
GnC	Grandfield fine sandy loam, 3 to 5 percent slopes	3.6	4.1%
LnA	Lincoln sandy loam, 0 to 1 percent slopes, occasionally flooded	32.2	36.6%
PaA	Padgett clay, 0 to 1 percent slopes, occasionally flooded	51.6	58.7%
Totals for Area of Interest		**88.0**	**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.

Young County, Texas

EnC—Enterprise very fine sandy loam, 3 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2t6qv
Elevation: 1,000 to 2,100 feet
Mean annual precipitation: 20 to 28 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 180 to 230 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Enterprise and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Enterprise

Setting

Landform: Terraces
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loamy eolian deposits

Typical profile

Ap - 0 to 8 inches: very fine sandy loam
Bk - 8 to 30 inches: very fine sandy loam
BC - 30 to 80 inches: very fine sandy loam

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.67 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 20 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 9.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: A
Ecological site: R078CY110TX - Sandy Loam 23-31" PZ
Forage suitability group: Unnamed (G078CY020OK)
Other vegetative classification: Unnamed (G078CY020OK)
Hydric soil rating: No

Minor Components

Eda

Percent of map unit: 5 percent
Landform: Dunes
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R078CY014OK - Rolling Sands
Other vegetative classification: Unnamed (G078CY028OK)
Hydric soil rating: No

Tivoli

Percent of map unit: 3 percent
Landform: Dunes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R078CY107TX - Sand Hills 23-31" PZ
Other vegetative classification: Unnamed (G078CY013OK)
Hydric soil rating: No

Springer

Percent of map unit: 2 percent
Landform: Sand sheets
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R078BY088TX - Sandy Loam 19-26" PZ
Hydric soil rating: No

ExD—Exray-Loving complex, 1 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: djxg
Elevation: 1,000 to 1,600 feet
Mean annual precipitation: 26 to 32 inches
Mean annual air temperature: 63 to 66 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Exray and similar soils: 43 percent
Loving and similar soils: 33 percent
Minor components: 24 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Exray

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum

Typical profile

A - 0 to 5 inches: very stony fine sandy loam
B - 5 to 12 inches: clay loam
Cr - 12 to 60 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 1.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: R080BY157TX - Sandstone Hill 26-33" PZ
Hydric soil rating: No

Description of Loving

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy residuum

Typical profile

A - 0 to 6 inches: very stony fine sandy loam
B - 6 to 16 inches: fine sandy loam
Cr - 16 to 60 inches: bedrock

Properties and qualities

Slope: 1 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches

Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R080BY157TX - Sandstone Hill 26-33" PZ
Hydric soil rating: No

Minor Components

Truce

Percent of map unit: 6 percent
Landform: Hills
Landform position (two-dimensional): Footslope
Ecological site: R080BY164TX - Tight Sandy Loam 26-33" PZ
Hydric soil rating: No

Bluegrove

Percent of map unit: 6 percent
Landform: Hills
Landform position (two-dimensional): Summit
Ecological site: R080BY164TX - Tight Sandy Loam 26-33" PZ
Hydric soil rating: No

Gowen

Percent of map unit: 3 percent
Landform: Flood plains
Ecological site: R080BY151TX - Loamy Bottomland 26-33" PZ
Hydric soil rating: No

Rock outcrop

Percent of map unit: 3 percent
Landform: Hills
Landform position (two-dimensional): Shoulder
Hydric soil rating: No

Callahan

Percent of map unit: 3 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Ecological site: R080BY147TX - Claypan 26-33" PZ
Hydric soil rating: No

Unnamed

Percent of map unit: 3 percent
Hydric soil rating: No

GnC—Grandfield fine sandy loam, 3 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2txyb
Elevation: 1,000 to 2,200 feet
Mean annual precipitation: 21 to 28 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 180 to 230 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Grandfield and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Grandfield

Setting

Landform: Sand sheets on paleoterraces
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loamy alluvium and/or eolian deposits

Typical profile

Ap - 0 to 6 inches: fine sandy loam
Bt1 - 6 to 22 inches: fine sandy loam
Bt2 - 22 to 43 inches: sandy clay loam
BC - 43 to 80 inches: fine sandy loam

Properties and qualities

Slope: 3 to 5 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 (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R078CY110TX - Sandy Loam 23-31" PZ
Hydric soil rating: No

Minor Components

Delwin

Percent of map unit: 2 percent
Landform: Sand sheets
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R078CY017OK - Deep Sand Shrubland
Hydric soil rating: No

Grandmore

Percent of map unit: 1 percent
Landform: Sand sheets on paleoterraces
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R078CY110TX - Sandy Loam 23-31" PZ
Hydric soil rating: No

Devol

Percent of map unit: 1 percent
Landform: Dunes on sand sheets on stream terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R078CY110TX - Sandy Loam 23-31" PZ
Hydric soil rating: No

Carwile

Percent of map unit: 1 percent
Landform: Depressions
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R078CY025OK - Depressional Upland
Hydric soil rating: Yes

LnA—Lincoln sandy loam, 0 to 1 percent slopes, occasionally flooded

Map Unit Setting

National map unit symbol: djxw
Elevation: 900 to 2,000 feet
Mean annual precipitation: 22 to 28 inches
Mean annual air temperature: 57 to 64 degrees F
Frost-free period: 185 to 225 days
Farmland classification: Not prime farmland

Map Unit Composition

Lincoln and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lincoln

Setting

Landform: Natural levees
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Sandy alluvium

Typical profile

A - 0 to 6 inches: sandy loam
C - 6 to 80 inches: fine sand

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 60 to 96 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: A
Ecological site: R078CY068OK - Sandy Bottomland
Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 9 percent
Landform: Flood plains
Hydric soil rating: No

Unnamed, hydric

Percent of map unit: 1 percent
Landform: Depressions
Hydric soil rating: Yes

PaA—Padgett clay, 0 to 1 percent slopes, occasionally flooded

Map Unit Setting

National map unit symbol: djxy
Elevation: 850 to 1,150 feet
Mean annual precipitation: 27 to 30 inches
Mean annual air temperature: 60 to 65 degrees F
Frost-free period: 210 to 230 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Padgett and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Padgett

Setting

Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Concave
Parent material: Clayey alluvium

Typical profile

A - 0 to 9 inches: clay
B - 9 to 66 inches: clay
BC - 66 to 80 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 3w
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: R080BY144TX - Clayey Bottomland 26-33" PZ
Hydric soil rating: No

Minor Components

Unnamed

Percent of map unit: 9 percent
Landform: Flood plains
Hydric soil rating: No

Unnamed, hydric

Percent of map unit: 1 percent
Landform: Depressions
Hydric soil rating: Yes

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TEXAS A&M AGRILIFE EXTENSION

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College Station, Texas 77843-2478

Phone: (979) 845-4816
Email: soiltesting@tamu.edu
Web: soiltesting.tamu.edu

STATEMENT #411123

Account #: 21571
Statement Date: 5/6/2024
Statement By: TP
PO #:

City of Newcastle

PO Box 66
NEWCASTLE, TX 76372

Lab(s) submitted for: City of Newcastle

Samples collected in Young County

Quantity:	Test Code:	Lab Numbers:	Test Performed:	Test Price:	Total Price:
3	S1	660356 - 660358	Routine	$12.00	$36.00
3	M10	660356 - 660358	Total Nitrogen	$20.00	$60.00
3	M11	660356 - 660358	TKN	$30.00	$90.00
1	M221	660356	Mail Hard Copy Fee	$2.00	$2.00
				TOTAL	**$188.00**

Payment Date:	Payment Details:	Amount:
5/6/2024	Check - Reference #14240	$188.00
	TOTAL	**$188.00**

PAID IN FULL

Statement Total:	**$188.00**
- Payments:	**$188.00**
+ Refunds:	
Balance Due:	**$0.00**

If you need to update your address or phone number, please send a note including the new information with your next sample.

Thank you for allowing us to serve your needs.

Zimbra **cityofnewcastle@brazosnet.com**

Soil reports

From : Jeffery S. Waskom <Jeffery.Waskom@ag.tamu.edu> Thu, May 16, 2024 08:29 AM
Subject : Soil reports 5 attachments
To : city of <newcastle@brazosnet.com>

Howdy,

Your results are attached.

Soil Report terminology

The results, which is the amount of each nutrient we found in your soil.

Fertilizer recommendation: The way our reports are set up is that the fertilizer recommendation to the right of the results is the current need. The current need will include the first nitrogen application and all the phosphorus, potassium and other nutrients you may need.
Then, if needed, addition nitrogen recommendation at the bottom is for future applications of nitrogen. This is to be applied in four to six weeks and repeated as long as you need continued growth. In other words, if you are not growing anything in your garden there will not be a need for additional nitrogen. Or for hay crops the additional nitrogen is to be applied for each hay cutting or grazing.

All our fertilizer recommendations are in pounds of actual nutrient. So, when we call for one pound of nitrogen this is not one pound of fertilizer. The fertilizer you apply will contain a certain percent nitrogen, usually 20 or 30 percent. Based on this percentage you will need to calculate how much fertilizer you need. If you know what sources are available, you can use our fertilizer calculator on our website:
https://soiltesting.tamu.edu/ag-calculator/
Or https://soiltesting.tamu.edu/calculators/

It is not always possible to use a single fertilizer to meet all of your nutrient requirements. Applying a mixed fertilizer and a supplement fertilizer of nitrogen, phosphorus and/or potassium is common. In some cases, applying each nutrient as a standalone fertilizer may be best to meet your needs. In the end choose a fertilizer plan that best meets your needs and has the best cost to you in money, time and effort.

CL value is the critical limit for the indicated crop grown. The critical limit is the minimum desired value for that crop. If the reported value is lower than the critical limit, application of additional nutrient will be recommended under the fertilizer recommended section of the report. The critical limit is a minimum desired value for the nutrient; it is not a target level and says nothing about nutrient levels above the critical limit.
Soil pH is on a scale of 0 to 14, with values less than seven being acidic, above seven being alkaline and seven being neutral. Typical soil values range from 5.5 to 8.3. If the soil pH is below the indicated critical limit, the application of limestone will be recommended. Refer to: https://soiltesting.tamu.edu/soiltesting/wp-content/uploads/sites/13/2023/05/SCS-2001-06.pdf
Conductivity is a measure of total soluble salts. Typical values will be less than 1000 umhos/cm. Levels approaching and above 2000 umhos/cm may adversely affect plant growth. Low conductivity is desirable, so no

critical limit is set. Refer to: https://soiltesting.tamu.edu/soiltesting/wp-content/uploads/sites/13/2023/05/E-60.pdf

Nitrate-N indicates the amount of available nitrogen in the soil. Since nitrogen will usually be applied multiple times in a given season, there is no critical limit set for this value. Nitrogen values are often low due to the multiple loss mechanisms for nitrogen. Thus fertilizer recommendations for nitrogen are common.

Phosphorus – This element is often thought of as important for root development and/or flower development. In truth phosphorus is used throughout the plant, in cell wall structure and plays an important role in photosynthesis. Low Phosphorus as a thinning of the grasses, delayed fruiting, slow growth, limited rooting development and more susceptible to drought and stress conditions.

Excessive phosphorus may contribute to the environmental problem of nutrient runoff into waterways. Excessive phosphorus has also been shown to induce iron deficiencies in some plants, refer to: https://soiltesting.tamu.edu/soiltesting/wp-content/uploads/sites/13/2023/05/E-465.pdf

Potassium – This element is used to facilitate enzyme transformations and water usage in plants. Available potassium levels may be well above the critical limit without any concern, especially in clay soils.

Calcium – This element is used for plant structure and nutrient movement. Available calcium levels may be well above the critical limit without any concern, especially in calcareous soils.

Magnesium – This element is important in photosynthesis in addition to other functions in the plant. Available magnesium levels may be well above the critical limit without any concern, especially in clay soils.

Sulfur – This element is used throughout the plant in chemical and enzyme reactions. Available sulfur levels may be well above the critical limit without any concern.

Sodium – Low sodium is desirable, so no critical limit is set for this element. Sodium in the plant serves many of the same functions as potassium, however excessive sodium in soils will inhibit water uptake by plants. Refer to: https://soiltesting.tamu.edu/soiltesting/wp-content/uploads/sites/13/2023/05/E-60.pdf

Micronutrients – Zinc, Iron, Copper and Manganese –These elements have important roles in photosynthesis and enzyme reactions. Micronutrients are required by plants; however excessive levels of copper or zinc can inhibit plant growth.

Boron – This element is required for germination and maturity of plants; however excessive levels of boron can inhibit plant growth.

Limestone Requirement – Applications of limestone will be recommended to raise the soil pH to a level above the indicated critical limit. More information can be found in our Soil Acidity and Liming publication: https://soiltesting.tamu.edu/soiltesting/wp-content/uploads/sites/13/2023/05/SCS-2001-06.pdf

Other Soil tests:

Texture - Gives the percent sand, silt and clay of your soil. This will also give a textural class name based on the USDA soil texture triangle.

Organic Matter –Will measure the percent organic carbon in the soil and give a percent organic matter level of the soil. Organic matter helps with water and nutrient holding capacity of the soil.

Detailed Salinity Test - Will include a deferent set of values based on a saturated paste water extract. pH, conductivity, sodium, potassium, calcium, and magnesium. Along with calculated values:

SAR - Sodium Adsorption Ratio

SSP - Sodium Saturation Percentage

This test is used to evaluate sodium salts and how much it will dominate the soil chemistry. Soil SAR values of less than 2.0 should not have any sodium issues.

Alternate fertilizer recommendations: You can view our entire crop list and obtain new recommendations from fertilizer calculator section of our website: https://ssccust1.spreadsheethosting.com/1/04/5f7e723c5f4ea9/recscalc2023a/recscalc2023a.htm

TEXAS A&M AGRILIFE EXTENSION

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478

Visit our website: http://soiltesting.tamu.edu

Report generated for:
City of Newcastle
PO Box 66
NEWCASTLE, TX 76372

Sample received on: 5/2/2024
Printed on: 5/15/2024
Area Represented: 20 acres

Young County
Laboratory Number: 660357
Customer Sample ID: 2 of 3 6-18"
Crop Grown: IMPROVED AND HYBRID BERMUDA GRASS, GRAZING

Analysis	Results	CL*	Units	ExLow VLow Low Mod High VHigh	Excess.
pH	7.9	(5.8)	-	Mod. Alkaline	
Conductivity	282	(-)	umho/cm	None CL*	Fertilizer Recommended
Nitrate-N	1	(-)	ppm**		55 lbs N/acre
Phosphorus	8	(50)	ppm		55 lbs P2O5/acre
Potassium	478	(125)	ppm		0 lbs K20/acre
Calcium	5,476	(180)	ppm		0 lbs Ca/acre
Magnesium	453	(50)	ppm		0 lbs Mg/acre
Sulfur	63	(13)	ppm		0 lbs S/acre
Sodium	174	(-)	ppm		
Iron					
Zinc					
Manganese					
Copper					
Boron					
Limestone Requirement					0.00 tons 100ECCE/acre
TKN	1004		ppm		
TN	1698		ppm		

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

Nitrogen: Apply an additional 70 lbs/A of nitrogen for each subsequent heavy graze down.

Online fertilizer calculators to determine appropriate fertilizers and application rates.
http://soiltesting.tamu.edu

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

ProAnalysisVer. 2.19i

Methods: pH and conductivity/ 2:1; nitrate-N/Cd-red.; P, K, Ca, Mg, Na, and S/Mehlich 3 by ICP; Fe, Zn, Mn, and Cu/DTPA by ICP; and B/hot water by ICP.

ProAnalysisVer. 2.19i

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

Project
1117041

CONE-W

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Printed 09/19/2024
14:43

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This report consists of this Table of Contents and the following pages:

Email: Kilgore.ProjectManagement@spllabs.com

2600 Dudley Rd. Kilgore, Texas 75662
24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
Office: 903-984-0551 * Fax: 903-984-5914

SAMPLE CROSS REFERENCE

Project
1117041

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Sample	Sample ID	Taken	Time	Received
2331920	*EFFLUENT WW Permit*	09/05/2024	08:40:00	09/06/2024

Bottle 01 Polyethylene 1/2 gal (White)
Bottle 02 Bottle, QEC, 32oz/1000ml Water Quality Bottle
Bottle 03 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 04 H2SO4 to pH <2 Glass Qt w/Teflon lined lid
Bottle 05 16 oz HNO3 Metals Plastic
Bottle 06 8 oz Plastic H2SO4 pH < 2
Bottle 07 Prepared Bottle: NH3N TRAACS Autosampler Vial (Batch 1137032) Volume: 6.00000 mL <== Derived from 06 (6 ml)
Bottle 08 BOD Titration Beaker A (Batch 1137100) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 09 BOD Analytical Beaker B (Batch 1137100) Volume: 100.00000 mL <== Derived from 01 (100 ml)
Bottle 10 Prepared Bottle: ICP Preparation for Metals (Batch 1137261) Volume: 50.00000 mL <== Derived from 05 (50 ml)
Bottle 11 Prepared Bottle: TKN TRAACS Autosampler Vial (Batch 1137329) Volume: 20.00000 mL <== Derived from 06 (20 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 300.0 2.1	01	1137252	09/06/2024	1137252	09/06/2024
EPA 200.7 4.4	10	1137261	09/09/2024	1137375	09/10/2024
SM 2320 B-2011	02	1137293	09/09/2024	1137293	09/09/2024
SM 5210 B-2016 (TCMP Inhibitor)	01	1137100	09/12/2024	1137100	09/12/2024
SM 2510 B-2011	01	1137425	09/10/2024	1137425	09/10/2024
SM 4500-Cl G-2011		1136983	09/05/2024	1136983	09/05/2024
SM 4500-O G-2016		1136924	09/05/2024	1136924	09/05/2024
Subcontract			09/05/2024		09/05/2024
EPA 1664B (HEM)	04	1137803	09/11/2024	1137803	09/11/2024
EPA 350.1 2	07	1137032	09/06/2024	1137691	09/10/2024
SM 2540 C-2015	02	1137776	09/10/2024	1137776	09/10/2024
EPA 351.2 2	11	1137329	09/10/2024	1137747	09/10/2024
SM 2540 D-2015	01	1137617	09/10/2024	1137617	09/10/2024
SM 4500-H+ B-2011		1136928	09/05/2024	1136928	09/05/2024

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CONE-W

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Project
1117041

Printed: 09/19/2024

RESULTS

Sample Results

2331920 **EFFLUENT WW Permit** Received: 09/06/2024

Non-Potable Water Collected by: Client City of Newcastle PO:
Taken: 09/05/2024 08:40:00

EPA 1664B (HEM) Prepared: 1137803 09/11/2024 13:35:00 Analyzed 1137803 09/11/2024 13:35:00 MAX

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Oil and Grease (HEM)	<4.40	mg/L	4.40			04

EPA 200.7 4.4 Prepared: 1137261 09/09/2024 13:00:00 Analyzed 1137375 09/10/2024 09:20:00 CAS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Phosphorus	1.89	mg/L	0.040		7723-14-0	10

EPA 300.0 2.1 Prepared: 1137252 09/06/2024 15:33:00 Analyzed 1137252 09/06/2024 15:33:00 TTC

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chloride	205	mg/L	3.00			01
NELAC	Nitrate-Nitrogen Total	<0.1	mg/L	0.1		14797-55-8	01
NELAC	Sulfate	37.3	mg/L	3.00			01

EPA 350.1 2 Prepared: 1137032 09/06/2024 11:54:46 Analyzed 1137691 09/10/2024 16:12:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Ammonia Nitrogen	0.499	mg/L	0.020			07

EPA 351.2 2 Prepared: 1137329 09/10/2024 07:46:46 Analyzed 1137747 09/10/2024 12:25:00 AMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Kjeldahl Nitrogen	5.54	mg/L	0.050		7727-37-9	11

SM 2320 B-2011 Prepared: 1137293 09/09/2024 08:54:00 Analyzed 1137293 09/09/2024 08:54:00 KN1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Alkalinity (as CaCO3)	221	mg/L	1.00			02

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Newcastle, TX 76372

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Printed: 09/19/2024

2331920 **EFFLUENT WW Permit** Received: 09/06/2024

Non-Potable Water Collected by: Client City of Newcastle PO:
Taken: 09/05/2024 08:40:00

SM 2510 B-2011 Prepared: 1137425 09/10/2024 12:24:00 Analyzed 1137425 09/10/2024 12:24:00 AMS

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Lab Spec. Conductance at 25 C	1130	umhos/cm				01

SM 2540 C-2015 Prepared: 1137776 09/10/2024 08:40:00 Analyzed 1137776 09/10/2024 08:40:00 JMB

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Dissolved Solids	600	mg/L	50.0			02

SM 2540 D-2015 Prepared: 1137617 09/10/2024 09:15:00 Analyzed 1137617 09/10/2024 09:15:00 ADR

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Total Suspended Solids	108	mg/L	40.0			01

SM 4500-Cl G-2011 Prepared: 1136983 09/05/2024 08:46:00 Analyzed 1136983 09/05/2024 08:46:00 BAD

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Cl2 Res.,Total(Onsite)Spec Mid	0.0	mg/L	0.05			

SM 4500-H+ B-2011 Prepared: 1136928 09/05/2024 08:55:00 Analyzed 1136928 09/05/2024 08:55:00 CLI

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	pH (Onsite)	9.4	SU				

SM 4500-O G-2016 Prepared: 1136924 09/05/2024 08:50:00 Analyzed 1136924 09/05/2024 08:50:00 ABW

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Dissolved Oxygen Onsite	7.0	mg/L	1.0			

SM 5210 B-2016 (TCMP Inhibitor) Prepared: 1137100 09/07/2024 Analyzed 1137100 09/12/2024 10:43:23 JW1

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	BOD Carbonaceous	9.76	mg/L	3.00			01

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2

CONE-W

Project 1117041

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Printed: 09/19/2024

2331920 **EFFLUENT WW Permit** Received: 09/06/2024

Non-Potable Water Collected by: Client City of Newcastle PO:
Taken: 09/05/2024 08:40:00

Subcontract Prepared: 09/05/2024 16:01:00 Analyzed 09/05/2024 16:01:00 SUB

Parameter	Results	Units	RL	Flags	CAS	Bottle
MPN, E.coli Abilene	See Attached				ABI1	

Sample Preparation

2331918 **Sampling/Transport** Received: 09/06/2024

09/05/2024

Prepared: 09/06/2024 10:07:35 Calculated 09/06/2024 10:07:35 CAL

Sampling/Transport	Verified	

2331920 **EFFLUENT WW Permit** Received: 09/06/2024

09/05/2024

Prepared: 09/06/2024 10:07:36 Calculated 09/06/2024 10:07:36 CAL

z Environmental Fee (per Project)	Verified	
z SUB Shipped	Verified	

EPA 1664B (HEM) Prepared: 1137702 09/11/2024 13:35:00 Analyzed 1137702 09/11/2024 13:35:00 MAX

NELAC O&G HEM Started	Started	

EPA 200.2 2.8 Prepared: 1137261 09/09/2024 13:00:00 Analyzed 1137261 09/09/2024 13:00:00 JDK

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Project
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2331920 **EFFLUENT WW Permit** Received: 09/06/2024

09/05/2024

	EPA 200.2 2.8	*Prepared:*	*1137261*	*09/09/2024*	*13:00:00*	*Analyzed*	*1137261*	*09/09/2024*	*13:00:00*	*JDK*
z	**Liquid Metals Digestion**	**50/50**	**ml**							05
	EPA 350.2, Rev. 2.0	*Prepared:*	*1137032*	*09/06/2024*	*11:54:46*	*Analyzed*	*1137032*	*09/06/2024*	*11:54:46*	*AMB*
NELAC	**Ammonia Distillation**	**6/6**	**ml**							06
	EPA 351.2, Rev 2.0	*Prepared:*	*1137329*	*09/10/2024*	*07:46:46*	*Analyzed*	*1137329*	*09/10/2024*	*07:46:46*	*AMB*
NELAC	**TKN Block Digestion**	**20/20**	**ml**							06
	SM 2540 C-2015	*Prepared:*	*1137362*	*09/10/2024*	*08:40:00*	*Analyzed*	*1137362*	*09/10/2024*	*08:40:00*	*JMB*
NELAC	**Total Dissolved Solids Started**	**Started**								
	SM 2540 D-2011	*Prepared:*	*1137240*	*09/10/2024*	*09:15:00*	*Analyzed*	*1137240*	*09/10/2024*	*09:15:00*	*ADR*
NELAC	**TSS Set Started**	**Started**								
	SM 5210 B-2016 (TCMP Inhibitor)	*Prepared:*	*1137100*	*09/07/2024*		*Analyzed*	*1137100*	*09/07/2024*	*06:50:44*	*JW1*
NELAC	**BODc Set Started**	**Started**								

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City of Newcastle
Alice Winder
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Newcastle, TX 76372

Project
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Printed: 09/19/2024

Qualifiers:

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

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

CONE-W

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Project
1117041

Printed 09/19/2024

Analytical Set 1137100 — SM 5210 B-2016 (TCMP Inhibitor)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1137100	0.2	0.200	0.500	mg/L	126742441

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
BOD Carbonaceous	2331912	21.6	22.5	mg/L	4.08	30.0
BOD Carbonaceous	2332117	2.75	2.75	mg/L	0	30.0

Seed Drop

Parameter	PrepSet	Reading	MDL	MQL	Units	File
BOD Carbonaceous	1137100	1.23	0.200	0.500	mg/L	126742443

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
BOD Carbonaceous		225	198	mg/L	114	83.7 - 116	126742444

Analytical Set 1137691 — EPA 350.1 2

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Ammonia Nitrogen	1137032	ND	0.00336	0.020	mg/L	126757952

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	126757951
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126757960
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126757968
Ammonia Nitrogen	2.15	2.00	mg/L	108	90.0 - 110	126757976
Ammonia Nitrogen	2.20	2.00	mg/L	110	90.0 - 110	126757987
Ammonia Nitrogen	2.18	2.00	mg/L	109	90.0 - 110	126757997
Ammonia Nitrogen	2.17	2.00	mg/L	108	90.0 - 110	126758006
Ammonia Nitrogen	2.14	2.00	mg/L	107	90.0 - 110	126758015
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	126758023
Ammonia Nitrogen	2.11	2.00	mg/L	106	90.0 - 110	126758032
Ammonia Nitrogen	2.08	2.00	mg/L	104	90.0 - 110	126758040
Ammonia Nitrogen	2.09	2.00	mg/L	104	90.0 - 110	126758051
Ammonia Nitrogen	2.06	2.00	mg/L	103	90.0 - 110	126758061
Ammonia Nitrogen	2.05	2.00	mg/L	102	90.0 - 110	126758069
Ammonia Nitrogen	2.02	2.00	mg/L	101	90.0 - 110	126758079
Ammonia Nitrogen	2.01	2.00	mg/L	100	90.0 - 110	126758081
Ammonia Nitrogen	2.01	2.00	mg/L	100	90.0 - 110	126758082
Ammonia Nitrogen	2.00	2.00	mg/L	100	90.0 - 110	126758091

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Ammonia Nitrogen	2331915	ND	ND	mg/L		20.0
Ammonia Nitrogen	2331937	ND	ND	mg/L		20.0

Email: Kilgore.ProjectManagement@spllabs.com

CONE-W

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Project
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Printed 09/19/2024

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Ammonia Nitrogen	2.16	2.00	mg/L	108	90.0 - 110	126757950

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Ammonia Nitrogen	1137032	2.10	2.14	2.00	90.0 - 110	105	107	mg/L	1.89	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Ammonia Nitrogen	2331915	2.18	ND	2.00	mg/L	109	80.0 - 120	126757957
Ammonia Nitrogen	2331937	2.20	ND	2.00	mg/L	110	80.0 - 120	126757961

Analytical Set 1137747 — EPA 351.2 2

AWRL/LOQ C

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	0.054	0.050	mg/L	108	75.0 - 125	126759510

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Kjeldahl Nitrogen	1137329	ND	0.00712	0.050	mg/L	126759507

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.40	5.00	mg/L	108	90.0 - 110	126759506
Total Kjeldahl Nitrogen	5.35	5.00	mg/L	107	90.0 - 110	126759515
Total Kjeldahl Nitrogen	5.40	5.00	mg/L	108	90.0 - 110	126759524
Total Kjeldahl Nitrogen	5.41	5.00	mg/L	108	90.0 - 110	126759534

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Kjeldahl Nitrogen	2332029	1.25	1.30	mg/L	3.92	20.0
Total Kjeldahl Nitrogen	2332433	0.150	0.162	mg/L	7.69	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Kjeldahl Nitrogen	5.43	5.00	mg/L	109	90.0 - 110	126759505

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Total Kjeldahl Nitrogen	1137329	5.12	5.15	5.00	90.0 - 110	102	103	mg/L	0.584	20.0

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Kjeldahl Nitrogen	2332029	6.22	1.30	5.00	mg/L	98.4	80.0 - 120	126759513
Total Kjeldahl Nitrogen	2332433	5.36	0.162	5.00	mg/L	104	80.0 - 120	126759517

Analytical Set 1136924 — SM 4500-O G-2016

QUALITY CONTROL

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1117041

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Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Dissolved Oxygen Onsite	2331840	7.2	7.2	mg/L		20
Dissolved Oxygen Onsite	2331920	7.0	7.0	mg/L		20

Analytical Set 1136928 — SM 4500-H+ B-2011

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
pH (Onsite)	6.1	6.0	SU	100	90 - 110	
pH (Onsite)	6.0	6.0	SU	100	90 - 110	

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
pH (Onsite)	2331920	9.4	9.4	SU		20

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
pH (Onsite)	1136928	8.0	8.0	SU	100	90 - 110	
pH (Onsite)	1136928	8.0	8.0	SU	100	90 - 110	

Analytical Set 1136983 — SM 4500-Cl G-2011

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Cl2 Res.,Total(Onsite)Spec Mid	2331920	0.0	0.0	mg/L		20

Standard

Parameter	*Sample*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Cl2 Res.,Total(Onsite)Spec Mid	1136983	0.250	0.230	mg/L	108.7	90 - 110	
Cl2 Res.,Total(Onsite)Spec Mid	1136983	0.860	0.860	mg/L	100	90 - 110	
Cl2 Res.,Total(Onsite)Spec Mid	1136983	1.61	1.61	mg/L	100	90 - 110	

Analytical Set 1137617 — SM 2540 D-2015

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Suspended Solids	1137617	ND	2	2	mg/L	126756578

ControlBlk

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Total Suspended Solids	1137617	0.0002			grams	126756577

Duplicate

Parameter	*Sample*	*Result*	*Unknown*	*Unit*	*RPD*	*Limit%*
Total Suspended Solids	2331700	33.7	33.7	mg/L	0	20.0
Total Suspended Solids	2331738	9000	9100	mg/L	1.10	20.0
Total Suspended Solids	2331921	7060	7160	mg/L	1.41	20.0

LCS

Parameter	*PrepSet*	*Reading*	*Known*	*Units*	*Recover%*	*Limits*	*File*

CONE-W

City of Newcastle
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PO Box 66
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LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Suspended Solids	1137617	47.0	50.0	mg/L	94.0	90.0 - 110	126756611

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Suspended Solids		96.0	100	mg/L	96.0	90.0 - 110	126756610

Analytical Set 1137776 — SM 2540 C-2015

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1137776	ND	5.00	5.00	mg/L	126759872

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Dissolved Solids	1137776	-0.0002			grams	126759859

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Dissolved Solids	2331525	720	760	mg/L	5.41	20.0

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Total Dissolved Solids	1137776	196	200	mg/L	98.0	85.0 - 115	126759873

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Total Dissolved Solids		106	100	mg/L	106	90.0 - 110	126759860

Analytical Set 1137803 — EPA 1664B (HEM)

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1137803	ND	0.804	4.00	mg/L	126761067

ControlBlk

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Oil and Grease (HEM)	1137803	0.0002			grams	126761066
Oil and Grease (HEM)	1137803	0.0002			grams	126761091

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File
Oil and Grease (HEM)	1137803	34.3	40.0	mg/L	85.8	78.0 - 114	126761068

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Oil and Grease (HEM)	2331545	38.6	0	4.16	40.0	78.0 - 114	86.1		mg/L		20.0

Analytical Set 1137252 — EPA 300.0 2.1

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AWRL/LOQ C

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Nitrate-Nitrogen Total	0.0288	0.0226	mg/L	127	70.0 - 130	126746704

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Chloride	1137252	0.0433	0.0298	0.300	mg/L	126746705
Nitrate-Nitrogen Total	1137252	ND	0.00464	0.0226	mg/L	126746705
Sulfate	1137252	ND	0.160	0.300	mg/L	126746705

CCB

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Chloride	1137252	0.0439	0.0298	0.300	mg/L	126746702
Chloride	1137252	0.0801	0.0298	0.300	mg/L	126746721
Chloride	1137252	0.0509	0.0298	0.300	mg/L	126746733
Nitrate-Nitrogen Total	1137252	0	0.00464	0.0226	mg/L	126746702
Nitrate-Nitrogen Total	1137252	0	0.00464	0.0226	mg/L	126746721
Nitrate-Nitrogen Total	1137252	0	0.00464	0.0226	mg/L	126746733
Sulfate	1137252	0	0.160	0.300	mg/L	126746702
Sulfate	1137252	0	0.160	0.300	mg/L	126746721
Sulfate	1137252	0	0.160	0.300	mg/L	126746733

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Chloride	10.2	10.0	mg/L	102	90.0 - 110	126746701
Chloride	10.4	10.0	mg/L	104	90.0 - 110	126746720
Chloride	10.3	10.0	mg/L	103	90.0 - 110	126746732
Fluoride	10.2	10.0	mg/L	102	90.0 - 110	126746732
Nitrate-Nitrogen Total	2.28	2.26	mg/L	101	90.0 - 110	126746701
Nitrate-Nitrogen Total	2.28	2.26	mg/L	101	90.0 - 110	126746720
Nitrate-Nitrogen Total	2.28	2.26	mg/L	101	90.0 - 110	126746732
Sulfate	9.44	10.0	mg/L	94.4	90.0 - 110	126746701
Sulfate	9.42	10.0	mg/L	94.2	90.0 - 110	126746720
Sulfate	9.48	10.0	mg/L	94.8	90.0 - 110	126746732

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Chloride	1137252	4.99	5.11	5.00	85.0 - 115	99.8	102	mg/L	2.38	20.0
Nitrate-Nitrogen Total	1137252	1.16	1.16	1.13	88.0 - 116	103	103	mg/L	0	20.0
Sulfate	1137252	4.37	4.39	5.00	85.0 - 115	87.4	87.8	mg/L	0.457	20.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Chloride	2330860	1490	1470	1310	200	80.0 - 120	90.0	80.0	mg/L	11.8	20.0
Nitrate-Nitrogen Total	2330860	43.1	43.3	ND	45.2	80.0 - 120	95.4	95.8	mg/L	0.463	20.0
Sulfate	2330860	1460	1430	1270	200	80.0 - 120	95.0	80.0	mg/L	17.1	20.0
Chloride	2330993	107	106	88.1	20.0	80.0 - 120	94.5	89.5	mg/L	5.43	20.0
Nitrate-Nitrogen Total	2330993	12.3	12.2	8.11	4.52	80.0 - 120	92.7	90.5	mg/L	2.42	20.0
Sulfate	2330993	114	114	95.3	20.0	80.0 - 120	93.5	93.5	mg/L	0	20.0

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

CONE-W

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

Project
1117041

Printed 09/19/2024

Analytical Set 1137375 — EPA 200.7 4.4

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Phosphorus	1137261	ND	0.0353	0.040	mg/L	126751154

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.03	1.00	mg/L	103	90.0 - 110	126751153
Phosphorus	1.03	1.00	mg/L	103	90.0 - 110	126751162

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	24.9	25.0	mg/L	99.6	95.0 - 105	126751151

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Phosphorus	1.03	1.00	mg/L	103	90.0 - 110	126751152

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	1137261	3.70	3.62	4.00	85.0 - 115	92.5	90.5	mg/L	2.19	25.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	2331471	3.72	3.79	ND	4.00	75.0 - 125	93.0	94.8	mg/L	1.86	25.0

Analytical Set 1137293 — SM 2320 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Total Alkalinity (as CaCO3)	1137293	ND	1.00	1.00	mg/L	126747344

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	26.9	25.0	mg/L	108	90.0 - 110	126747343
Total Alkalinity (as CaCO3)	26.9	25.0	mg/L	108	90.0 - 110	126747357
Total Alkalinity (as CaCO3)	26.9	25.0	mg/L	108	90.0 - 110	126747370

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Total Alkalinity (as CaCO3)	2331400	292	296	mg/L	1.36	20.0
Total Alkalinity (as CaCO3)	2331901	693	695	mg/L	0.288	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Total Alkalinity (as CaCO3)	24.9	25.0	mg/L	99.6	90.0 - 110	126747342

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Alkalinity (as CaCO3)	2331400	316	296	25.0	mg/L	80.0	70.0 - 130	126747347

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

CONE-W

City of Newcastle
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PO Box 66
Newcastle, TX 76372

Project
1117041

Printed 09/19/2024

Mat. Spike

Parameter	Sample	Spike	Unknown	Known	Units	Recovery %	Limits %	File
Total Alkalinity (as CaCO3)	2331901	718	695	25.0	mg/L	92.0	70.0 - 130	126747360

Analytical Set 1137425 — SM 2510 B-2011

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File
Lab Spec. Conductance at 25 C	1137425	0.438			umhos/cm	126751815

Duplicate

Parameter	Sample	Result	Unknown	Unit	RPD	Limit%
Lab Spec. Conductance at 25 C	2331920	1130	1130	umhos/cm	0	20.0
Lab Spec. Conductance at 25 C	2332671	0.764	0.763	umhos/cm	0.131	20.0

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	12900	12900	umhos/cm	100	90.0 - 110	126751818

Standard

Parameter	Sample	Reading	Known	Units	Recover%	Limits%	File
Lab Spec. Conductance at 25 C	1137425	1410	1410	umhos/cm	100	90.0 - 110	126751816
Lab Spec. Conductance at 25 C	1137425	96.4	100	umhos/cm	96.4	90.0 - 110	126751817
Lab Spec. Conductance at 25 C	1137425	1400	1410	umhos/cm	99.3	90.0 - 110	126752923
Lab Spec. Conductance at 25 C	1137425	1390	1410	umhos/cm	98.6	90.0 - 110	126754804

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCB - Continuing Calibration Blank; MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); AWRL/LOQ C - Ambient Water Reporting Limit/LOQ Check Std; ICV - Initial Calibration Verification; LCS - Laboratory Control Sample (reagent water or other blank matrices that is spiked with a known quantity of target analyte(s) and carried through preparation and analytical procedures exactly like a sample; typically a mid-range concentration; verifies that bias and precision of the analytical process are within control limits; determines usability of the data.); MS - Matrix Spike (same solution and amount of target analyte added to the LCS is added to a second aliquot of sample; quantifies matrix bias.)

CHAIN OF CUSTODY

2331918

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

CONE-W
102

Sampling/Transport

Sample Collection Start

Date: 9/5/24 Time: 0840

Sampler Printed Name: Brie Wallace

Sampler Affiliation: SPL

Sampler Signature: BWallace

0 Z -- No bottle required

PU85 Sampling/Transport

9/5/24 1800 Brie Wallace SPL XPS
BWallace

CHAIN OF CUSTODY

City of Newcastle
Alice Winder
PO Box 66
Newcastle, TX 76372

CONE-W
101

WW Permit

Sampler Printed Name Brie Wallace

Sampler Affiliation SPL

Sampler Signature BWallace

	Effluent WW Permit	6	9/5/24	0840

0 **On Site Testing**

Cl2O Cl2 Res.,Total(Onsite)Spec Mid SM 4500-Cl G-2011

Cl2 Res.,Total(Onsite)Spec Mid

Collected By BMD Date 9/5/24 Time 845 Analyzed By BMD Date 9/5/24 Time 846

Chlorine Residual: R1 0.00 R2 0.00 Results 0.00 Units _____ Duplicate _____ Units _____

Chlorine Residual QC: R1 0.00 R2 0.00 Results 0.00 Units _____ Duplicate _____ Units _____

Short Hold pH pH (Onsite) SM 4500-H+ B-2011 (0.0104 days)

CHAIN OF CUSTODY

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CONE-W
101

WW Permit

pH (Onsite)

Collected By 9/5/24 Date 9/5/24 Time 855 Analyzed By BRD Date 9/5/24 Time 855

Results 9.43 Units - Temp. 24.9 C Duplicate 9.45 Units - Temp. 25.0 C
Short Hold DO Dissolved Oxygen Onsite SM 4500-O G-2016 (0.0104 days)

Dissolved Oxygen Onsite

Collected By BRD Date 9/5/24 Time 850 Analyzed By BRD Date 9/5/24 Time 850

Results 7.03 Units _____ Temp. 24.9 C Duplicate 6.96 Units _____ Temp. 25.0 C

1 **Na2S2O3 (0.008%) Polystyrene-100 mL Sterilized**

Subbed to Abilene lab

Short HoldSubcont BCNT MPN, E.coli NT Subcontract CAS:ABI1 (0.330 days)
Short HoldSubcont ENTC Enterococci Subcontract Subcontract CAS:ABL2 (0.347 days)

2 **H2SO4 to pH <2 GlQt w/Tef-lined lid**

HEM Oil and Grease (HEM) EPA 1664B (HEM) (28.(days)

1 **Polyethylene 1/2 gal (White)**

TSS Total Suspended Solids SM 2540 D-2015 (7.00 days)
Short Hold BODc BOD Carbonaceous SM 5210 B-2016 (TCMI Inhibitor) (2.04 days)

0 **Z – No bottle required**

SKL Sub Hold: PM Attn
Subcontract 100S SUB Shipped

1 **HNO3 to pH <2 Polyethylene 500 mL for Metals**

301L Liquid Metals Digestion EPA 200.2 2.8 (180 days
*PI Phosphorus EPA 200.7 4.4 CAS:7723-14-0 (180 days)

1 **H2SO4 to pH <2 250 ml Polyethylene**

NHaN Ammonia Nitrogen EPA 350.1 2 (28.0 days)
TKN Total Kjeldahl Nitrogen EPA 351.2 2 CAS:7727-37-9 (28.0 days)

1 **Polyethylene Quart**

ICIL Chloride EPA 300.0 2.1 (28.0 days)

CHAIN OF CUSTODY

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CONE-W
101

WW Permit

	IS4L	Sulfate	EPA 300.0 2.1 (28.0 days)
Short Hold	IN3L	Nitrate-Nitrogen Total	EPA 300.0 2.1 CAS:14797-55-8 (2.00 days)
	AlkT	Total Alkalinity (as CaCO3)	SM 2320 B-2011 (14.0 days)
	CONL	Lab Spec. Conductance at 25 C	SM 2510 B-2011 (28.0 days)
	TDS	Total Dissolved Solids	SM 2540 C-2015 (7.00 days)

9/5/24 1800	Brie Wallace BWallace	SPL	KPS
9/6/24 0745	KPS		Ashley Vasquez - SPL, Inc.

CITY OF ABILENE ENVIRONMENTAL

4209 East Lake Road
(325) 676-6041

LABORATORY CHAIN OF CUSTODY

Abilene, TX 79601
Fax: (325) 676-6044

PROJECT

- Weekly Monitoring ☐
- Monthly Monitoring ☐
- Monthly TOC ☐
- Well ☐
- NAP ☐
- _____ ☐

Client Name: _____
Address: _____
_____

Phone: _____
Email: _____

☐Invoice
☐Paid

Invoice # _____

Sampler Signature / Name: _____ / _____

Sample ID	Collection Date	Collection Time	Matrix Type	Grab/ Comp	Container Type (P/G)	CBOD	BOD	DO	TSS	pH	Ammonia	Turbidity	SS	TOC	T. Coliform	F. Coliform	E. Coli	Surv-1	Alkalinity	Hardness	NOx	Gen. Chem.	Metals**	*	*
																	X								

Relinquished By: _____ Date: 10-4 Time: 1408
Received By: _____ Date: 10-4 Time: 1408
Relinquished By: _____ Date: _____ Time: _____
Received By: _____ Date: _____ Time: _____

Comments

Password: _____
pH paper lot: _____
Thermometer number: IR-6
Correction Factor: 0.0

Temperatures circled do not conform to federal regulations.
* On Ice, but inadequate time to reach ≤6° C (10°C for bacteria samples).
** Circle the metals to be analyzed Ag Al As Ba Be Ca Cd Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Si Sr Zn __ __ __(__Total __Dissolved)
Revised 3/21/2023

COOLER CHECKIN

Region/Driver/Client	Abilene
Date / Time:	SEP 0 6 2024 / 0745
Cooler:	of
Shipping Company:	XPS

Temp Label:

9/6 0800 AnV
Date Time Tech
Temp: 0.3 0.1 C
Therm#: 6443 Corr Fact: -0.2 C

City of Abilene
Environmental Laboratory Report

4209 East Lake Road
Phone: (325) 676-6043

Abilene, TX 79601
Fax: (325) 676-6044

Report To

Attn: Tayna Chitwood
SPL
P.O. Box 3275
Kilgore, TX 75663-3275

Sample Information

Project: CONE
Project Number: [none]
Collector:
Collector Phone: (903) 984-0551
Date Received: 09/05/24 14:08
Received By:
Report Date: 09/09/2024

Effluent WW Permit **C4I0511-01** **Date Sample: 05-Sep-2024 8:40**

Sample Type:

Analyte	Result	Units	Minimum Reporting Limit	Method	Batch	Analyst	Analysis Date	Notes
E. coli	65.7	MPN/100 ml	1.1	SM 9223	CI40611	KLG	9/5/24 16:01	

Microbiological Parameters by Standard Methods - Quality Control

City of Abilene

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch CI40611 - Gen Prep-Bacteria									
Blank (CI40611-BLK1)				Prepared & Analyzed: 09/05/24					
E. coli	ND	1.1	MPN/100 ml						

ND=not detected; <= less than; ug/L = ppb; mg/L = ppm; mg/kg = ppm

Notes and Definitions

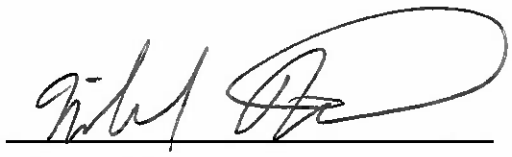
<	Less than stated value
ND	Analyte NOT DETECTED at or below the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

We are an Approved Public Water System Laboratory (AL2210001) for: Alkalinity, Chlorine Dioxide (2 methods), Free and Total Chlorine (2 methods), pH, POE Chlorite, Temperature, Turbidity (2 methods).

We are an Approved Drinking Water Laboratory (T104704320) for: Alkalinity, Calcium, Chlorine Dioxide (2 methods), Chlorite, Conductivity, Hardness, pH, Phosphate, Silica, Temperature, TOC, Total Chlorine, Turbidity, UV254.

We are not NELAP accredited in the DW matrix for: Alkalinity, Ammonia, Beryllium, Bromide, Chlorine Dioxide, COD, Customer Defined Methods, Color, DOC, Free Chlorine, Legionella, Molybdenum, pH, Phosphate, Silver, TTHM, TOC, UV25, TKN EPA 200.5 Cu, EPA200.7 Sb, As.

We are not NELAP accredited in the NPW matrix for: Customer Defined Methods, Color, COD, DOC, Free Chlorine, Legionella, TKN, EPA 2005 Ag, Mg, Mo, Se, EPA 200.7 Ag, Mn, MO, Se, Tl.. We are not a certified calibration laboratory.



Michael Michaud
Laboratory Manager

CITY OF ABILENE ENVIRONMENTAL

4209 East Lake Road
(325) 676-6041

STL

LABORATORY CHAIN OF CUSTODY

Abilene, TX 79601
Fax: (325) 676-6044

Client Name: CONE
Address: _____

Phone: _____
Email: _____

PROJECT

- Weekly Monitoring ☐
- Monthly Monitoring ☐
- Monthly TOC ☐
- Well ☐
- NAP ☐
- _____ ☐

Invoice Paid

Invoice # _____

Sampler Signature / Name: BWallace / Blue Wallace

Lab Use Only Laboratory ID	Sample ID	Collection Date	Collection Time	Lab Use Only - Preservative (Write check mark for each appropriately preserved bottle. Note improper preservation in comments box.) Bottle	T obs	T cor	pH	Ice?	preserv.	Matrix Type	Grab/ Comp	Container Type (P/G)	CBOD	BOD	DO	TSS	pH	Ammonia	Turbidity	SS	TOC	T. Coliform	F. Coliform	E. Coli	Suva-1	Alkalinity	Hardness	NOx	Gen. Chem.	Metals**		
CHI0511 -01	Effluent WW Permit	9/5/24	840	A	23	1.3		✓																X							

Relinquished By: BWallace Date: 9.5.24 Time: 14:08
Received By: _____ Date: 9.5.24 Time: 14:08
Relinquished By: _____ Date: _____ Time: _____
Received By: _____ Date: _____ Time: _____

Comments

Password: _____
pH paper lot: _____
Thermometer number: IR-6
Correction Factor: 0.00

Temperatures circled do not conform to federal regulations.
* On ice, but inadequate time to reach ≤6° C (10°C for bacteria samples).
** Circle the metals to be analyzed Ag Al As Ba Be Ca Cd Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Si Sr Zn __ __ __ (__ Total __ Dissolved)
Revised 3/21/2023

CITY OF ABILENE ENVIRONMENTAL

SPL

4209 East Lake Road
(325) 676-6041

LABORATORY CHAIN OF CUSTODY

Abilene, TX 79601
Fax: (325) 676-6044

Client Name: CONE

Address: _____

Phone: _____

Email: _____

PROJECT

- Weekly Monitoring ☐
- Monthly Monitoring ☐
- Monthly TOC ☐
- Well ☐
- NAP ☐
- _____ ☐

Invoice Paid

Invoice # _____

Sampler Signature / Name: BWallace / Brie Wallace

Lab Use Only Laboratory ID	Sample ID	Collection Date	Collection Time	Lab Use Only - Preservative: Write check mark for each appropriately preserved bottle. Note improper preservation in comments box. Bottle	T obs	T cor	pH	Ice?	preserv.	Matrix Type	Grab/ Comp	Container Type (P/G)	CBOD	BOD	DO	TSS	pH	Ammonia	Turbidity	SS	TOC	T. Coliform	F. Coliform	E. Coli	Suva-1	Alkalinity	Hardness	NOx	Gen. Chem.	Metals**		
C45051 1 -01	Effluent WW Permit	9/5/24	840	A	7.3	C.3		✓																X								

Comments

Password: _____
pH paper lot: _____
Thermometer number: IR-6
Correction Factor: 0.00

Relinquished By: BWallace Date: 9.5.24 Time: 14:08

Received By: _____ Date: 9.5.24 Time: 14:08

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Temperatures circled do not conform to federal regulations.

* On ice, but inadequate time to reach ≤6° C (10°C for bacteria samples).

** Circle the metals to be analyzed Ag Al As Ba Be Ca Cd Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Si Sr Zn __ __ __ (__ Total __ Dissolved)

Revised 3/21/2023

Candice Calhoun

From: Jessica Parks <jessica@cpbwf.com>
Sent: Monday, October 7, 2024 11:32 AM
To: Candice Calhoun
Cc: cityofnewcastle@brazosnet.com
Subject: RE: Application to Renew Permit No. WQ0010647003 - Notice of Deficiency
Attachments: Resonse to TCEQ Administrative Review 09_24_24.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Candice,

Attached is a response to your comments from 09/24/24.

Regards,

Jessica Parks, P.E.
Corlett, Probst & Boyd, PLLC
4605 Jacksboro Highway
Wichita Falls, Texas 76302
(940) 723-1455

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, September 24, 2024 3:58 PM
To: Jessica Parks <jessica@cpbwf.com>
Cc: cityofnewcastle@brazosnet.com
Subject: RE: Application to Renew Permit No. WQ0010647003 - Notice of Deficiency

Jessica,

That works, thank you! For 2, I think I just originally overlooked the information I said was missing. It seems like the area labeled “city property” is for the treatment facility and applicant property boundary, is this correct?

Thanks,

Candice Calhoun
Texas Commission on Environmental Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Jessica Parks <jessica@cpbwf.com>
Sent: Tuesday, September 24, 2024 1:16 PM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: cityofnewcastle@brazosnet.com
Subject: RE: Application to Renew Permit No. WQ0010647003 - Notice of Deficiency

Candice,

So it looks like for 1 I will remove the information in box 23 because there is not physical address for the wastewater plant and resubmit the core data form with just the description in box 25. For 2, do you need more zoomed in maps? The maps on pages 52 and 53 show the treatment ponds, city property, buffer zone, and irrigated area. There are two additional USGS maps on pdf pages 61 and 62 that also contain property owner boundaries and are zoomed in. Does this satisfy the issue or are we needing to provide more in-depth property boundary information?

Thanks,

Jessica Parks, P.E.
Corlett, Probst & Boyd, PLLC
4605 Jacksboro Highway
Wichita Falls, Texas 76302
(940) 723-1455

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, September 24, 2024 12:00 PM
To: Jessica Parks <jessica@cpbwf.com>
Cc: cityofnewcastle@brazosnet.com
Subject: RE: Application to Renew Permit No. WQ0010647003 - Notice of Deficiency

Jessica,

Please see my response below:

1. So, item 25 is a description to the physical address and item 23 is a physical address. If the physical address listed does not match semi-closely to the location of the site or is not the 911 address assigned to the facility, the physical address cannot be used and therefor we would need a different physical address or to use the description.
2. I do see the map provided, however I cannot clearly tell if the applicant property boundary or treatment facility boundaries were shown and labeled.

Candice Calhoun
Texas Commission on Environmental Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

---

From: Jessica Parks <jessica@cpbwf.com>
Sent: Tuesday, September 24, 2024 11:48 AM
To: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Cc: cityofnewcastle@brazosnet.com
Subject: RE: Application to Renew Permit No. WQ0010647003 - Notice of Deficiency

Candice,

After reviewing the comments I have a few questions I was hoping you could answer before making our official response.

1. In reference to item 1, the core data form, there is some confusion about the addresses. The regulated entity for the WWTP is the City of Newcastle and their city office is at 608 Broadway Ave (Boxes 23 &24), but the actual physical location of the wastewater plant is what is listed in boxes 25- 27 (box 25 contains the description used in the previous permit and on TCEQs central registry). Since the description listed in item 25 is for the actual wastewater plant location I think that's what needs to be used for the NORI. Please let me know if I am not understanding this correctly and I will make sure this is corrected in our response if need be.
2. In reference to item 3, USGS Maps, two 8.5x11USGS maps were provided on pdf pages 52 and 53 of the electronic submission and were electronically book marked as Attachment D. I just wanted to clarify whether these weren't received or are you not accepting the 8.5x11 size for this permit application?

Thanks for your help.

Regards,

Jessica Parks, P.E.
Corlett, Probst & Boyd, PLLC
4605 Jacksboro Highway
Wichita Falls, Texas 76302
(940) 723-1455

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Tuesday, September 24, 2024 9:21 AM
To: cityofnewcastle@brazosnet.com
Cc: Jessica Parks <jessica@cpbwf.com>
Subject: Application to Renew Permit No. WQ0010647003 - Notice of Deficiency
Importance: High

Dear Mr. Bennett,

The attached Notice of Deficiency (NOD) letter dated **September 24, 2024,** requests additional information needed to declare the application administratively complete. Please send complete response by **October 8, 2024.**

Please let me know if you have any questions.

Regards,

Candice Calhoun
Texas Commission on Environmental Quality
Water Quality Division
512-239-4312
candice.calhoun@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

CORLETT, PROBST & BOYD

Devin G. Smith, P. E., R.P.L.S.
President

Texas Registered Engineering Firm F-279
Texas Licensed Surveying Firm 100541-00

October 7, 2024

Texas Commission on Environmental Quality
Applications Review and Processing Team MC148
Candice Calhoun
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

RE: Application to Renew Permit No.: WQ0010647003
Applicant Name: City of Newcastle (CN600335020)
Site Name: City of Newcastle WWTP (RN101611770)
Type of Application: Renewal

Ms.Calhoun:

Below are the responses to your comments from September 24, 2024.

1. Core Data Form (CDF)
   The core data form has been revised to remove the information in box 23 since there is no street address for the wastewater treatment plant. The information listed in boxes 25-28 is the correct description of the physical location. See the attached revised core data form.

2. Administrative Report 1.0
   Section 9.0 has been revised to move the information that was inadvertently placed in section F to section E, which is the correct location. See the attached revised sheet (page 8 of 17).

3. USGS Topographic Map
   The correct topographic maps were provided in the original submission and were inadvertently overlooked. However, a technical review from Hannah Zellner on 9/24/24 has highlighted an issue with these maps that needed addressed. I have included the revised USGS that were submitted with the response to this technical review in this email for your reference. The USGS Maps on PDF page 62 has been revised to accurately show the irrigation and buffer zone. The USGS maps provided on pages 52 and 55 have also been revised for continuity. See the attached USGS Map.

4. Plain Language Summary (PLS)
   The plain language summary was revised to include the correct flow. See the attached revised plain language summary.

5. NORI Review
   - The PENDING APPLICANT RESPONSE portion should read “approximately 1.5 miles west of the intersection of SH 251 and FM 926”
   - Also, City needs to be capitalized in “City of Newcastle” six lines down from the top.

If you have any questions, please feel free to contact me by telephone at (940) 723-1455, or by email at jessica@cpbwf.com.

Respectfully,
Corlett, Probst & Boyd, PLLC

Jessica L. Parks P.E.

Jessica L. Parks, P.E.

Encl.

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number *(if issued)*
CN 600335020		RN 101611770

SECTION II: Customer Information

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

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

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

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

City of Newcastle

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
N/A	17560006235	756000623	134921613

11. Type of Customer:

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

12. Number of Employees

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

13. Independently Owned and Operated?

☐ **Yes** ☒ **No**

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

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

15. Mailing Address:

PO Box 66

City	Newcastle	State	TX	ZIP	76372	ZIP + 4	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
N/A	cityofnewcastle@brazosnet.com

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

(940) 846-3547	0	(940) 846-3200

SECTION III: Regulated Entity Information

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

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

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

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

City of Newcastle

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

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

25. Description to Physical Location:	Plant Location: Approximately 1.5 miles west of the intersection of SH 251 and FM 926 in Young County.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Newcastle			TX	76372	

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

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
33	11	11	98	45	22

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

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

Municipal Operations

34. Mailing Address:								
	PO Box 66							
	City	**Newcastle**	**State**	**TX**	**ZIP**	**76372**	**ZIP + 4**	
35. E-Mail Address:	**cityofnewcastle@brazosnet.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(940) 846-3547		**(940) 846-3200**

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

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

SECTION IV: Preparer Information

40. Name:	Corlett, Probst & Boyd, PLLC	**41. Title:**	Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(940 **)** 723-1455		**( )** -	jessica@cpbwf.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:	Corlett, Probst & Boyd, PLLC	**Job Title:**	Professional Engineer
Name *(In Print):*	Jessica L. Parks	**Phone:**	**(** 940 **)** 723- **1455**
Signature:	Jessica L. Parks P.E.	**Date:**	09/26/24

E. Owner of effluent disposal site:

Prefix: Click to enter text. Last Name, First Name: Phillips, Neal and Weta

Title: Click to enter text. Credential: N/A

Organization Name: N/A

Mailing Address: PO Box 276 and 1311 Roanoke Dr, respectively City, State, Zip Code: TX and TX, 76372 and 76450, respectively

Phone No.: N/A E-mail Address: N/A

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

Attachment: C: 20 Acre Tract, 63 Acre Tract

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

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

Title: Click to enter text. Credential:

Organization Name:

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

Phone No.: E-mail Address:

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

N/A

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

☒ Yes ☐ No

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

N/A

City nearest the outfall(s): N/A

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

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

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 14S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2018
Names.....GNIS, 1979 - 2021
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021

UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

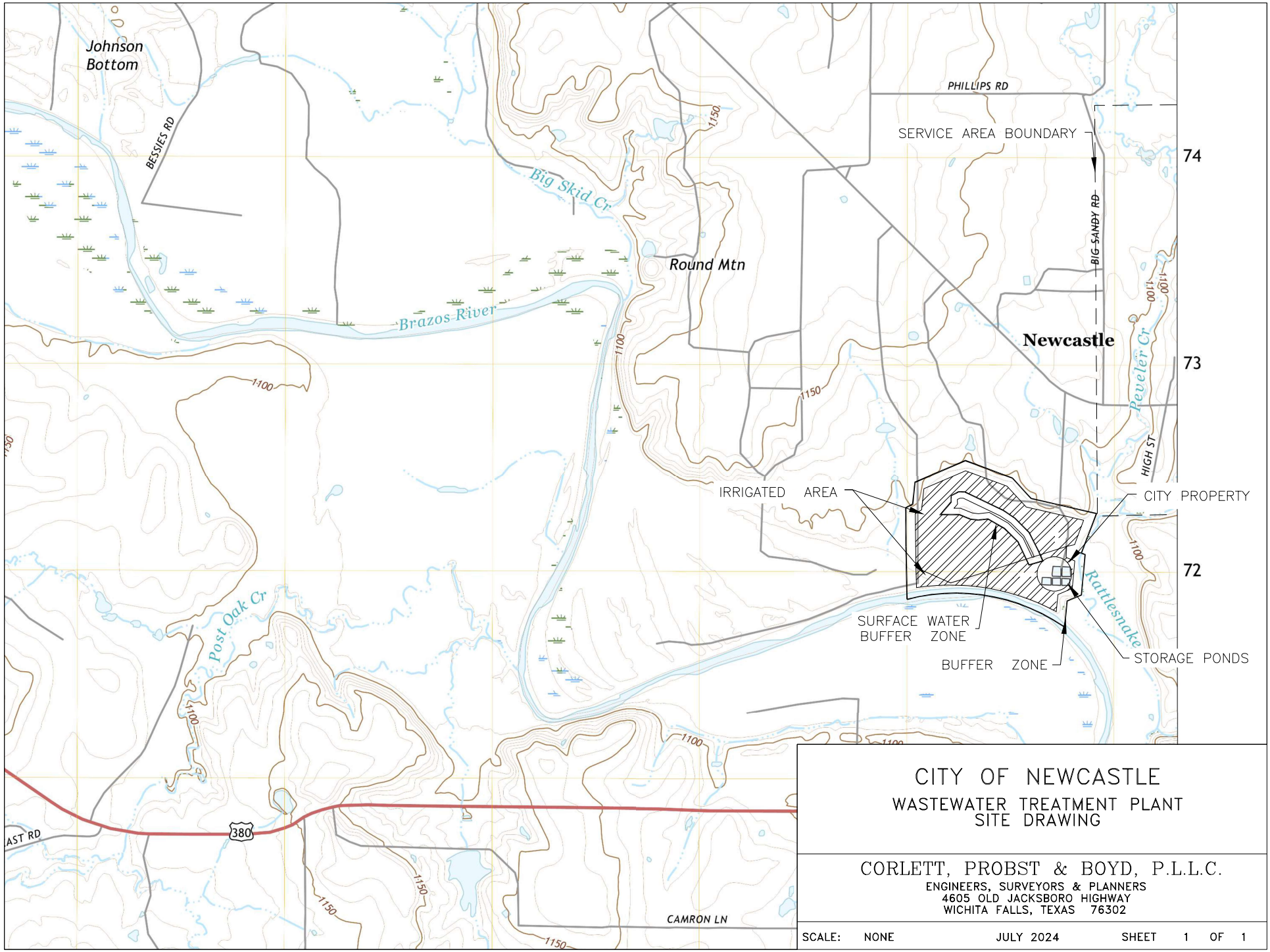
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

TEXAS
QUADRANGLE LOCATION

1 Padgett
2 Olney
3 True
4 Proffitt Crossing

ROAD CLASSIFICATION
WATER WELL
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

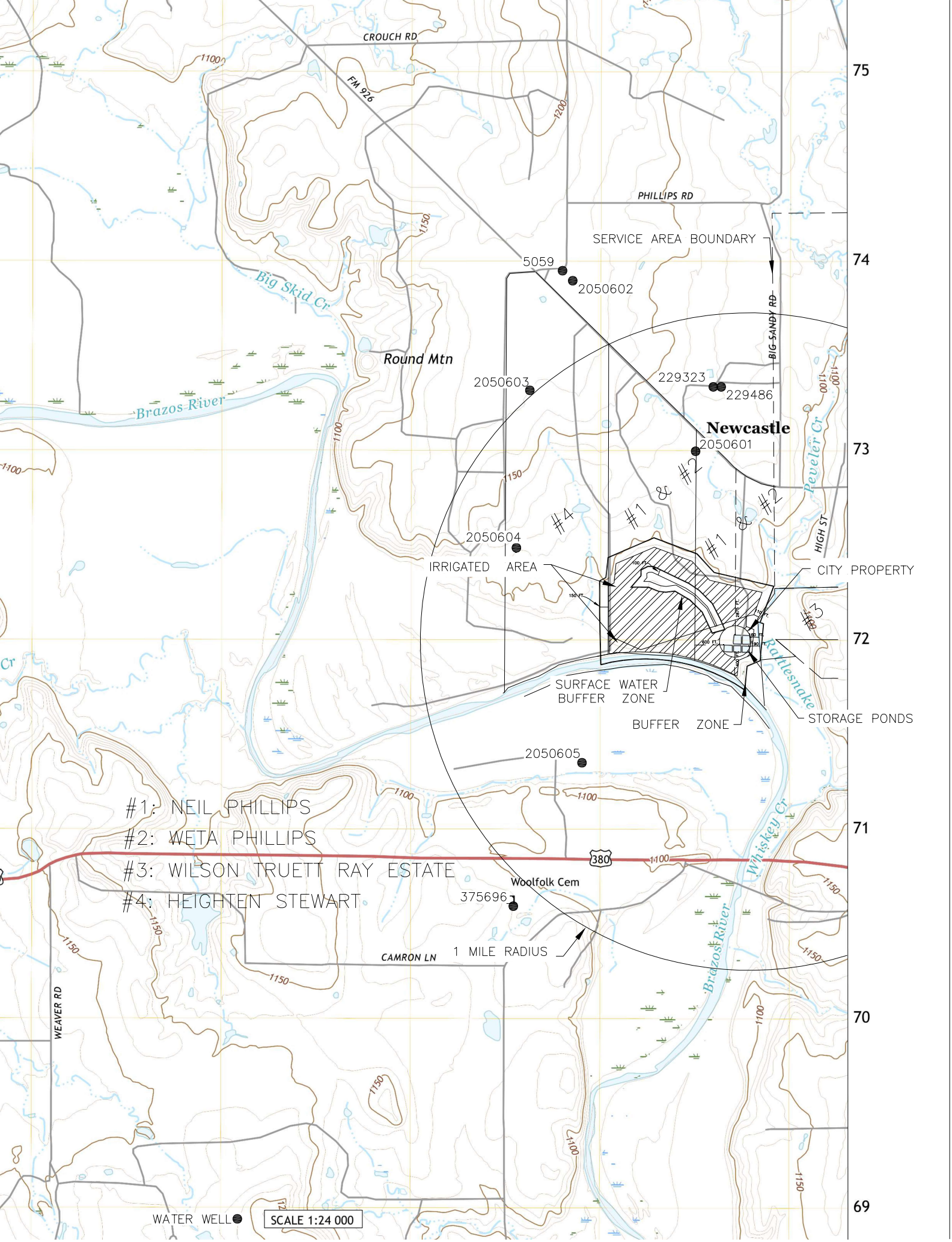


CITY OF NEWCASTLE

WASTEWATER TREATMENT PLANT SITE DRAWING

CORLETT, PROBST & BOYD, P.L.L.C.
ENGINEERS, SURVEYORS & PLANNERS
4605 OLD JACKSBORO HIGHWAY
WICHITA FALLS, TEXAS 76302

SCALE: NONE JULY 2024 SHEET 1 OF 1


CROUCH RD
FM 926
PHILLIPS RD
SERVICE AREA BOUNDARY
BIG SANDY RD
5059
2050602
Big Skid Cr
Round Mtn
2050603
229323
229486
Brazos River
Newcastle
2050601
Reveler Cr
HIGH ST
#1 & #2
#4
#1 & #2
#3
2050604
IRRIGATED AREA
CITY PROPERTY
SURFACE WATER BUFFER ZONE
BUFFER ZONE
STORAGE PONDS
Rattlesnake Cr
2050605
#1: NEIL PHILLIPS
#2: WETA PHILLIPS
#3: WILSON TRUETT RAY ESTATE
#4: HEIGHTEN STEWART
380
Woolfolk Cem
375696
Whiskey Cr
CAMRON LN
1 MILE RADIUS
Brazos River
WEAVER RD
WATER WELL
SCALE 1:24 000
75
74
73
72
71
70
69

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS DOMESTIC WASTEWATER/STORMWATER

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

The City of Newcastle (CN 600335020) operates Wastewater Treatment Plant (RN 101611770), a pond system with an Imhoff tank, one stabilization pond, four storage ponds, and sludge drying beds. The facility is located at Approximately 1.5 miles west of the intersection of State HWY 251 and FM 926 , in Newcastle, Young County, Texas 76372. This application is for the renewal to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.06 million gallons per day (MGD) via surface irrigation of 20 acres of non-public access range land in the Interim phase and 83 acres of non-public access range land in the final phase. .This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package.

Domestic wastewater is treated by pond system with an Imhoff tank, one stabilization pond, four storage ponds, and sludge drying beds.