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 *

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

1. Resumen de la solicitud (en lenguaje sencillo)
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, Aviso de Recepción de Solicitud e Intención de Obtener un Permiso)
   - Inglés
   - Idioma alternativo (español)
3. Segundo aviso (NAPD, Aviso de Decisión Preliminar)
   - Inglés
   - Idioma alternativo (español)
4. Materiales de la solicitud **
5. Proyecto de permiso **
6. Resumen técnico u hoja de datos **

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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

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

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

City of Perryton (CN600243869) operates the City of Perryton Wastewater Treatment Plant (RN102096674), a waste water treatment facility. The facility is located at 0.50 mile south of Perryton city limits on U.S. Highway 83 and thence east 1.25 miles to the plant, in Perryton, Ochiltree County, Texas 79070. Renewal to discharge 1,400,00 gallons per day of treated domestic wastewater via surface irrigation.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 ($CBOD_5$) Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a primary clarifier, a trickling filter, an aerobic digestor, two clarifiers, and two holding ponds.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Ciudad de Perryton (CN600243869) opera la planta de tratamiento de aguas residuales (RN102096674), una planta de tratamiento de aguas residuales. La instalación está ubicada en 0.5 milla sur de la ciudad de Perryton, y 1.25 millas al oeste, en Perryton, Condado de Ochiltree, Texas 79070. Para renovar el permisso de disposicion de aguas residuales en un volume que no sobrepasa un flujo diario de 1,400,00 galones por dia por medio de Riego de tierras.Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquimica de oxigeno (BOD5) de cinco dias. Se incluyen contaminantes potenciales adicionales en el Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent en el paquete de solicitud de permiso. Agua residuales domesticas. está tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluyen una rejilla de barras, un clarificador primario, un filtro percolador, un digestor aeróbico, dos clarificadores y dos estanques de retención..

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010248001

APPLICATION. City of Perryton, 110 South Ash Street, Perryton, Texas 79070, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0010248001 to authorize disposal of treated wastewater at a volume not to exceed a daily average flow of 1,400,000 gallons per day via irrigation of 570 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1.0 mile south and 1.25 miles east of the intersection of Loop 143 and U.S. Highway 83, near the city of Perryton, in Ochiltree County, Texas 79070. TCEQ received this application on April 7, 2025. The permit application will be available for viewing and copying at Perryton City Hall, Office of the City Secretary, 110 South Ash Street, Perryton, in Ochiltree 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=-100.7794,36.3628&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

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 Perryton at the address stated above or by calling Mr. Brandan Knapp, Director of Public Works, at 806-435-4014.

Issuance Date: May 6, 2025

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECIBO DE LA SOLICITUD E
INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA
RENOVACION

PERMISO NO. WQ0010248001

SOLICITUD. Ciudad de Perryton, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el Permiso No. WQ00010248001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 1,400,000 galones por día mediante riego de tierras. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 1 millas al sur y 1.25 millas al este de la intersección de la circunvalación 143 y la autopista US 83, cerca de la ciudad de Perryton en el Condado de Ochiltree, Texas 79070. La TCEQ recibió esta solicitud el Abril 7, 2025. La solicitud para el permiso estará disponible para leerla y copiarla en la oficina del secretario de la Ciudad de Perryton, 110 South Ash Street, Perryton, en el Condado de Ochiltree antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.
Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés

público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la

solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía http://www14.tceq.texas.gov/epic/eComment/ o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del Ciudad de Perryton a la dirección indicada arriba o llamando a Brandan Knapp al (806) 435-4014.

Fecha de emisión: 6 de mayo de 2025

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

RENEWAL

PERMIT NO. WQ0010248001

APPLICATION AND PRELIMINARY DECISION. City of Perryton, 110 South Ash Street, Perryton, Texas 79070, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0010248001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 1,400,000 gallons per day via surface irrigation of 570 acres of non-public access agricultural land. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on April 7, 2025.

The wastewater treatment facility and disposal site are located one mile south and 1.25 miles east of the southern intersection of U.S. Highway 83 and Loop 143, in Ochiltree County, Texas 79070. The wastewater treatment facility and disposal site are located in the drainage basin of Wolf Creek in Segment No. 0104 of the Canadian 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=-100.7794,36.3628&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 Perryton City Hall, Office of the City Secretary, 110 South Ash Street, Perryton, in Ochiltree 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.

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notices.

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 Perryton at the address stated above or by calling Mr. Brandan Knapp, City of Perryton, at 806-435-4014.

Issuance Date: July 16, 2025

Comisión De Calidad Ambiental Del Estado De Texas

AVISO DE SOLICITUD Y DECISIÓN PRELIMINAR PARA PERMISO PARA APLICACIÓN DE LA CALIDAD DEL AGUA EN TERRENOS PARA AGUAS RESIDUALES MUNICIPALES

RENOVACIÓN

PERMISO NO. WQ0010248001

SOLICITUD Y DECISIÓN PRELIMINAR. Ciudad de Perryton, 110 Sur Ash Street, Perryton, Texas 79070, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por una renovación para autorizar la disposición de aguas residuales domésticas tratadas con un caudal promedio diario que no exceda 1,400,000 galones por día mediante el riego por superficie de 570 acres de tierras agrícolas de acceso no público. Este permiso no autorizará una descarga de contaminantes a las aguas del estado. La TCEQ recibió esta solicitud el 7 de abril de 2025.

La planta y el sitio de disposición están ubicadas en una milla al sur y 1.25 millas al este de la intersección sur de la Ruta 83 de EE. UU. y el Bucle 143 en el Condado de Ochiltree, Texas. La planta y el sitio de disposición están ubicados en la cuenca de drenaje de Wolf Creek en el Segmento No. 0104 de la Cuenca del Río Canadian River Basin. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.7794,36.3628&level=18

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Salón de la Ciudad de Perryton, Oficina del Secretario de la Ciudad, 110 South Ash Street, Perryton, en el Condado de Ochiltree, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir una aprobación final de la solicitud a menos que exista un pedido antes del plazo de vencimiento de una audiencia administrativa de lo contencioso o se ha presentado un pedido de reconsideración. Si un pedido ha llegado antes del plazo de vencimiento de la audiencia o el pedido de reconsideración ha sido presentado, el Director Ejecutivo no emitirá una aprobación final sobre el permiso y enviará la solicitud y el pedido a los Comisionados de la TECQ para consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

Todos los comentarios escritos del público y los pedidos una reunión deben ser presentados durante los 30 días después de la publicación del aviso a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or por el internet a www.tceq.texas.gov/about/comments.html. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia.

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a https://www14.tceq.texas.gov/epic/eComment/, o por escrito a Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Cualquier información personal que envíe a al TCEQ pasará a formar parte del registro de la agencia; esto incluye las direcciones de correo electrónico. Para obtener más información sobre esta solicitud de permiso o el proceso de permisos, llame al Programa de Educación Pública de la TCEQ, sin cargo, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional de la Ciudad de Perryton a la dirección indicada arriba o llamando al Sr. Brandan Knapp, Ciudad de Perryton, al 806-435-4014.

Fecha de emission: 16 de julio de 2025

PERMIT NO. WQ0010248001

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

This is a renewal of Permit No. WQ0010248001 issued on November 2, 2015.

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

City of Perryton

whose mailing address is

110 South Ash Street
Perryton, Texas 79070

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

General Description and Location of Waste Disposal System:

Description: The City of Perryton Wastewater Treatment Facility consists of a fixed-film biological treatment process plant. Treatment units include a vortex-type grit removal unit, a primary clarifier, a trickling filter, two final clarifiers, an aerobic sludge digester, and four sludge drying beds. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 1.4 million gallons per day (MGD) via surface irrigation of 570 acres of non-public access agricultural land. The facility includes two storage ponds with a total surface area of 25.4 acres and total capacity of 152.6 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 2.75 acre-feet per year per acre irrigated for up to 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.0 acre-feet per year per acre irrigated for up to 392 acres of non-public access agricultural land. The irrigated crops include sorghum, wheat, corn, and cotton.

Location: The wastewater treatment facility and disposal site are located one mile south and 1.25 miile east of the southern intersection of U.S. Highway 83 and Loop 143, in Ochiltree County, Texas 79070. See Attachment A.

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Wolf Creek in Segment No. 0104 of the Canadian 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 – 1.4 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	Continuous	Totalizing Meter
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 annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 1) 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 1) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC § 312.82(a)(3)(A) for specific information;

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

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

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

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

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

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

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

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

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

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

Alternative 1

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain 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	- annually
PCBs	- annually

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

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

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

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

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

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

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, 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 1) 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 annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 1) 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 1) 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 1) 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 1) 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 C facility must be operated by a chief operator or an operator holding a Class C license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift 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 has submitted sufficient evidence of legal restrictions (on file) prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). See Attachment B.

5. The irrigated crops include sorghum, wheat, corn, and cotton. Application rates to the irrigated land shall not exceed 2.75 acre-feet per year per acre irrigated for up to 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.0 acre-feet per year per acre irrigated for up to 392 acres of non-public access agricultural land. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.

6. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent

pathways for effluent surfacing, the sorghum, wheat, corn, and cotton crops 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.

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

8. 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.

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

10. The permittee shall obtain representative soil samples from the root zones of the land application area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 80 acres, with no less than 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 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)
Nitrate-nitrogen	From a 1 N KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)

Total Nitrogen	= TKN + nitrate-nitrogen (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 Calcium Magnesium Sodium Sulfur	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			Report in *short tons/acre* in the year effected

The permittee shall provide a copy of this plan to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 1) and the Enforcement Division (MC 224) no later than end of September following the sampling date of each year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater and/or sludge has not been applied on the approved land disposal sites during that year.

11. 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 § 217, Design Criteria for Domestic Wastewater Systems.

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

13. **For the existing wastewater ponds**: The applicant shall maintain certification by a professional engineer, registered in the State of Texas, that each wastewater storage pond meets or exceeds the liner requirements found in 30 TAC 317.4 (j)(2) applying to imperviousness:

    (A) In-situ or placed clay soils having the following qualities may be utilized for pond lining:

        (i) more than 30% passing a 200-mesh sieve;

        (ii) liquid limit greater than 30%;

        (iii) plasticity index greater than 15; and

        (iv) a minimum thickness of 2 feet.

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

(C) Other methods with commission approval.

Certifications shall be maintained onsite and, if requested, submitted to the Water Quality Assessment Team (MC 150), TCEQ Regional Office (MC Region 1), and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division.

14. Any new or modified wastewater pond shall be adequately lined to control seepage in accordance with 30 TAC §217.203 **and** 30 TAC 309.13(d) since the facility overlies the recharge zone of an aquifer. 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 1), and the TCEQ Enforcement Division (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) since the facility is located on the recharge zone of an aquifer.

15. The existing wastewater ponds shall be maintained and operated in a manner that prevents unauthorized discharge to water in the state and contamination of groundwater.

16. 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 all 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. A record of the monthly inspections shall be maintained in a field log and kept onsite for TCEQ inspection.

17. 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.

18. The permittee shall maintain buffers from wastewater application for all wells in accordance with 30 TAC 309.13(c).

19. Land application of wastewater shall have a minimum buffer of 100 feet from the unnamed tributary bisecting the southwestern portion of the property and flowing to an off-site playa lake.

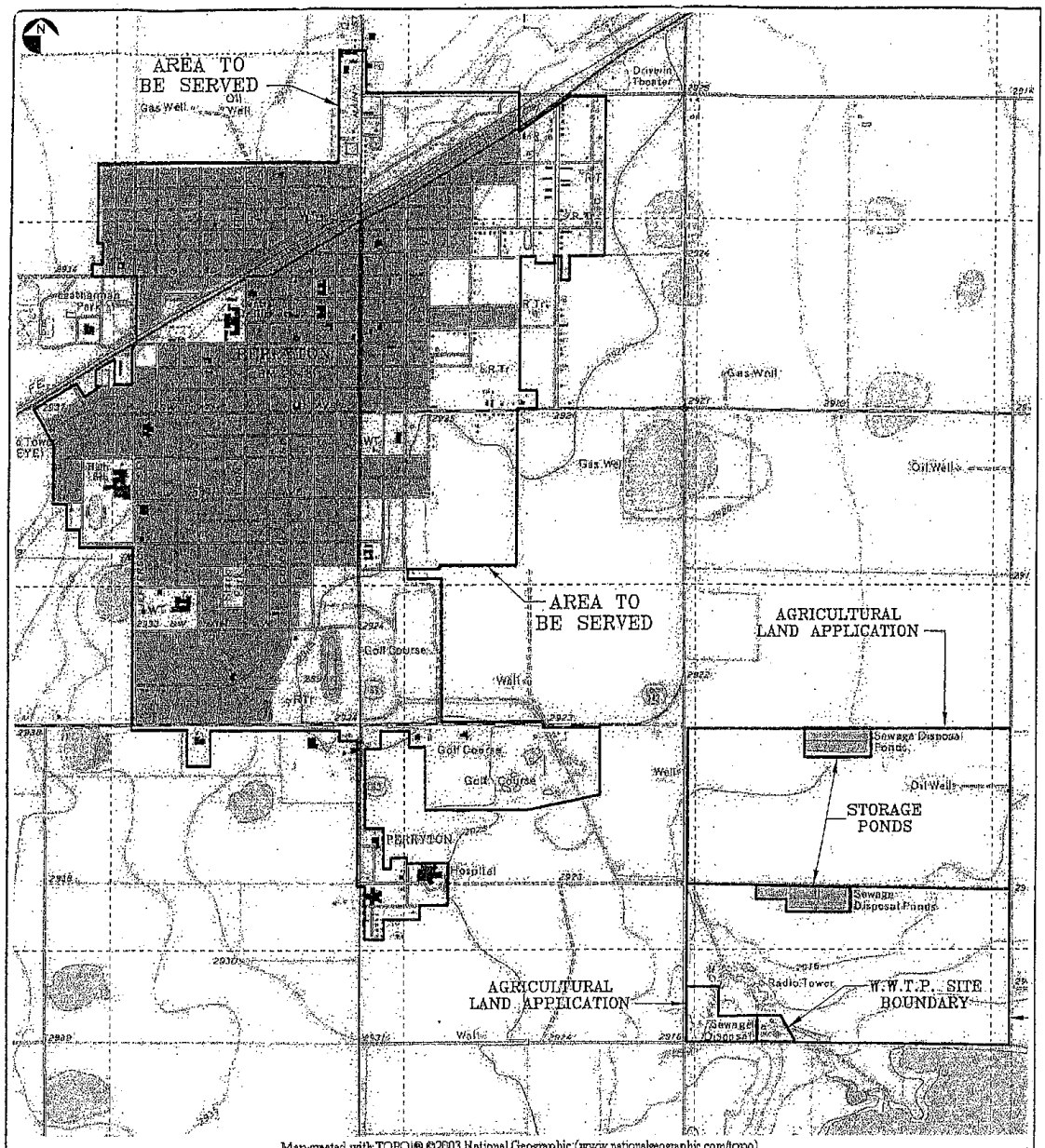
20. The permittee shall use cultural practices to promote and maintain the health and propagation of the sorghum, wheat, corn, and cotton crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.

21. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.

Attachment A
Permit No. WQ0010248001, City of Perryton
Site Map

City of Perryton Permit No. WQ0010248001

ATTACHMENT A



Perryton,

GA Engineering Inc.
CIVIL · STRUCTURAL
ENVIRONMENTAL

P.O. BOX 977	P.O. BOX 944	3131 BELL ST.
DUMAS, TX 79029	GUYMON, OK 73942	AMARILLO, TX 79106
(806) 935-6421	(580) 338-1975	(806) 467-1061

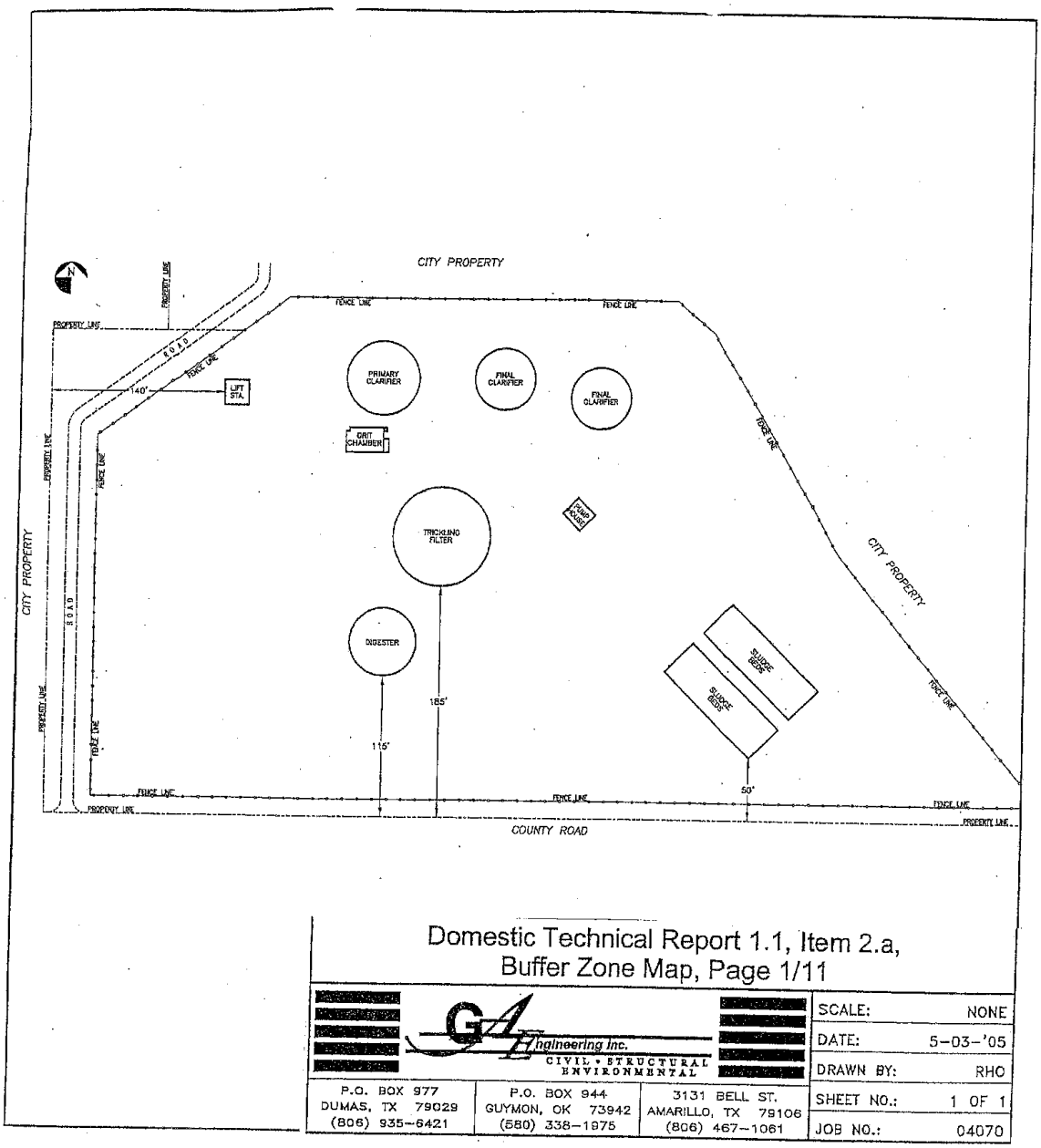
SCALE:	1"=2000'
DATE:	5-03-'05
DRAWN BY:	RHO
SHEET NO.:	1 OF 1
JOB NO.:	04070

Attachment B
Permit No. WQ0010248001, City of Perryton
Buffer Zone Map

City of Perryton

Permit No. WQ0010248001

ATTACHMENT B



Domestic Technical Report 1.1, Item 2.a,
Buffer Zone Map, Page 1/11

GA Engineering Inc.
CIVIL • STRUCTURAL
ENVIRONMENTAL

P.O. BOX 977
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(806) 935-6421

P.O. BOX 944
GUYMON, OK 73942
(580) 338-1975

3131 BELL ST.
AMARILLO, TX 79106
(806) 467-1061

SCALE:	NONE
DATE:	5-03-'05
DRAWN BY:	RHO
SHEET NO.:	1 OF 1
JOB NO.:	04070

TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	City of Perryton TCEQ Permit No. WQ0010248001
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 Perryton has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0010248001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 1.4 million gallons per day (MGD) via surface irrigation of 570 acres of non-public access agricultural land. The facility includes two storage ponds with a total surface area of 25.4 acres and total capacity of 152.6 acre-feet for storage of treated effluent prior to irrigation. The existing wastewater treatment facility serves the City of Perryton.

PROJECT DESCRIPTION AND LOCATION

The City of Perryton Wastewater Treatment Facility consists of a fixed-film biological treatment process plant. Treatment units include a vortex-type grit removal unit, a primary clarifier, a trickling filter, two final clarifiers, an aerobic sludge digester, and four 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, Perryton Municipal Solid Waste Landfill, MSW No. 876A, in Ochiltree 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 one mile south and 1.25 miile east of the southern intersection of U.S. Highway 83 and Loop 143 in Ochiltree County, Texas 79070.

The wastewater treatment facility and disposal site are located in the drainage basin of Wolf Creek in Segment No. 0104 of the Canadian 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 January 2023 through December 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	0.73
BOD_5, mg/l	35

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 1.4 MGD via surface irrigation of 570 acres of non-public access agricultural land. The facility includes two storage ponds with a total surface area of 25.4 acres and total capacity of 152.6 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 2.75 acre-feet per year per acre irrigated for up to 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.0 acre-feet per year per acre irrigated for up to 392 acres of non-public access agricultural land. The irrigated crops include sorghum, wheat, corn, and cotton.

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

The permittee submitted evidence of legal restrictions (on file) prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d).

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, Perryton Municipal Solid Waste Landfill, MSW No. 876A, in Ochiltree 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.

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.

Based on Agronomic and Geology compliance review, Special Provision Nos. 6, 8, and 13 in the existing permit were updated in the draft permit; and Special Provision Nos. 14 through 17, 20, and 21 were added to the draft permit.

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 April 7, 2025, and additional information received on April 30, 2025 and May 21, 2025.

2. Existing TCEQ permit: Permit No. WQ0010248001 issued on November 2, 2015.

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

Kimberly Kendall

Kimberly Kendall, P.E.
Municipal Permits Team
Wastewater Permitting Section (MC 148)

June 20, 2025

Date

MUNICIPAL WASTEWATER TREATMENT PLANT (WWTP) PERMIT RENEWAL

CITY OF PERRYTON, TEXAS

City of Perryton Municipal Wastewater Treatment Plant
Ochiltree County
WWTP Permit No. WQ0010248001
April 2025

HI-PLAINS
CIVIL ENGINEERS
4537 CANYON DRIVE AMARILLO, TEXAS 79110

ATTACHMENTS

Attachment 1 – Core Data Form (Administrative Report 1.0 – Item 3C)

Attachment 2 – Plain language Summary (Administrative Report 1.0 – Item 8F)

Attachment 3 – Original USGS Map (Domestic Administrative Report 1.0 – Item 13)

Attachment 4 – Treatment Units and Dimensions (Technical Report 1.0 – Item 2B)

Attachment 5 – Process Flow Diagram (Technical Report 1.0 – Item 2C)

Attachment 6 – Site Drawing (Technical Report 1.0 – Item 3)

Attachment 7 – Pollutant Analysis of Treated Effluent (Technical Report 1.0 – Item 7)

Attachment 8 – Storage Pond Liner Certification (Domestic Worksheet 3.0 – Item 3)

Attachment 9 – Cropping Plan (Domestic Worksheet 3.0 – Item 5)

Attachment 10 – Well and Map Information (Domestic Worksheet 3.0 – Item 6)

Attachment 11 – Groundwater Quality Assessment (Domestic Worksheet 3.0 – Item 7)

Attachment 12 – Soil Map (Domestic Worksheet 3.0 – Item 8)

Attachment 13 –Soil Analyses (Domestic Worksheet 3.0 – Item 8)

Attachment 14 – Effluent Monitoring Data (Domestic Worksheet 3.0 – Item 9)

Attachment 15 – Copy of Application Fee Check

DOMESTIC ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Perryton

PERMIT NUMBER (If new, leave blank): WQ0010248001

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	☐	☐
Summary of Application (PLS)	☒	☐	Flow Diagram	☒	☐
Public Involvement Plan Form	☐	☒	Site Drawing	☒	☐
Technical Report 1.0	☒	☐	Original Photographs	☐	☐
Technical Report 1.1	☐	☒	Design Calculations	☐	☐
Worksheet 2.0	☐	☒	Solids Management Plan	☐	☐
Worksheet 2.1	☐	☒	Water Balance	☐	☐
Worksheet 3.0	☒	☐			
Worksheet 3.1	☐	☒			
Worksheet 3.2	☐	☒			
Worksheet 3.3	☐	☒			
Worksheet 4.0	☐	☒			
Worksheet 5.0	☐	☒			
Worksheet 6.0	☒	☐			
Worksheet 7.0	☐	☒			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

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

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: Click to enter text.

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 Water 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 10248001

EPA I.D. (TPDES only): TX Click to enter text.

Expiration Date: 10/01/2025

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

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

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

City of Perryton

(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: 600243869

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

Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

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

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

N/A

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Garcia, Adolfo

Title: Civil Engineer Credential: P.E.

Organization Name: Hi plains Civil Engineers

Mailing Address: 4537 Canyon Dr City, State, Zip Code: Amarillo,TX-79110

Phone No.: 806 353 7233 E-mail Address: adolfog@hpcetx.com

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

B. Prefix: Mr. Last Name, First Name: Comiskey, Patrick

Title: City Manager Credential:

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: pcomiskey @perryton.net

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

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

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

Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

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

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

☐ E-mail Address

☐ Fax

☒ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: Knapp, Brandan

Title: Director of Public Works Credential: Click to enter text.

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

D. Public Viewing Information

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

Public building name: City Hall

Location within the building: Office of the City Secretary

Physical Address of Building: 110 South Ash Street, Perryton, TX 79070-0849

City: Perryton County: Ochiltree

Contact (Last Name, First Name): Knapp, Brandan

Phone No.: 806 435 4014 Ext.: 212

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? Spanish

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: 2

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** 102096674

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

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

City of Perryton Wastewater Treatment Facility

C. Owner of treatment facility: City of Perryton

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 Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

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: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

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

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

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

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

Organization Name: City of Perryton

Mailing Address: 110 South Ash Street City, State, Zip Code: Perryton, TX-79070

Phone No.: 806 435 4014 E-mail Address: bknapp@perryton.net

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

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Click to enter text.

County in which the outfalls(s) is/are located: Click to enter text.

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Click to enter text.

B. City nearest the disposal site: City of Perryton

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

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

The effluent is pumped from the final clarifier to a series of oxidation ponds for subsequent treatment and storage prior to land application

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Drainage area of Wolf Creek in Segment No 0104 of the Canadian River Basin

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: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: Core Data Form(attachment 1), Plain language summery (attachment 2), Original USGS Map (attachment 3), copy of application Fee check (attachment 14)

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010248001

Applicant: City of Perryton

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): Kerry Symons

Signatory title: Mayor

Signature: Kerry Symons Date: 04-03-2025

(Use blue ink)

Subscribed and Sworn to before me by the said Kerry Symons

on this Thursday day of April 3, 20 25.

My commission expires on the November day of 17, 20 25.

Tanisha Anderson

Notary Public

[SEAL]

TANISHA ANDERSON
My Notary ID # 131355950
Expires November 17, 2025

Ochiltree

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:

- ☐ The applicant's property boundaries
- ☐ The facility site boundaries within the applicant's property boundaries
- ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
- ☐ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
- ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
- ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
- ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
- ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
- ☐ The property boundaries of all landowners surrounding the effluent disposal site
- ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
- ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located

B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.

C. ☐ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).

D. Provide the source of the landowners' names and mailing addresses: Click to enter text.

E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?

☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: Click to enter text.

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** 0010248001

1. Check or Money Order Number: Click to enter text.
2. Check or Money Order Amount: Click to enter text.
3. Date of Check or Money Order: Click to enter text.
4. Name on Check or Money Order: Click to enter text.
5. APPLICATION INFORMATION

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

   Physical Address of Project or Site: The City of Perryton Wastewater Treatment Facility and disposal site is located 1.0 mile south and 1.25 miles east of the intersection of US Highway 83 and Loop 143 in in Ochiltree County, Texas.

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

For Commission Use Only:
Customer Number:
Regulated Entity Number:
Permit Number:

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Electronic Application Submittal ☒ Yes
(See application submittal requirements on page 23 of the instructions.)

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

Summary of Application (in Plain Language) ☒ Yes

DOMESTIC TECHNICAL REPORT

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 42)

A. Existing/Interim I Phase

Design Flow (MGD): 1.4

2-Hr Peak Flow (MGD): 4.2

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): 1.4

2-Hr Peak Flow (MGD): 4.2

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

D. Current Operating Phase

Provide the startup date of the facility: Final

Section 2. Treatment Process (Instructions Page 42)

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 Treatment system is a trickling filter system. Raw effluent enters the treatment system through a vortex type grit removal unit, thence to one primary clarifier, one trickling filter,one aerobic digester, and two final clarifiers. Treated effluent goes to two holding ponds prior to irrigation, and sludge goes to one of four sludge drying beds prior to disposal.

B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) **of each treatment unit, accounting for *all* phases of operation.**

Table 1.0(1) - Treatment Units

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment No. 4		

C. Process Flow Diagram

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

Attachment: 5

Section 3. Site Information and Drawing (Instructions Page 43)

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: 36° 22' 47"
- Longitude: 100° 45' 42"

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: 6
Provide the name **and** a description of the area served by the treatment facility.

City of Perryton, Texas - Municipality, Ochiltree County

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 44)

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 44)

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 44)

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: October 1999

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**.

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Click to enter text.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

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

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

☒ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

N/A

4. Existing coverage in individual permit

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

☐ Yes ☒ No

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

N/A

5. Zero stormwater discharge

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

☐ Yes ☒ No

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

N/A

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

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

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

N/A

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the 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 49)

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.

See Attachment 7

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					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l	N/A	N/A	N/A	N/A	N/A

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: Richard Colins

Facility Operator's License Classification and Level: Class C

Facility Operator's License Number: #509-60-4217

Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 50)

A. WWTP's Sewage Sludge or 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 Sewage Sludge or 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. Sewage Sludge or Biosolids Management

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

permit will authorize all sewage sludge or 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: City Of Perryton Municipal Landfill

TCEQ permit or registration number: MSW # 0876

County where disposal site is located: Ochiltree County

E. Transportation method

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

Name of the hauler: City of Perryton

Hauler registration number: 22478

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 52)

A. Beneficial use authorization

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

☐ Yes ☒ No

If yes, are you requesting to continue this authorization to land apply biosolids 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 Biosolids	☐ Yes	☒ No
Sludge Surface Disposal or Sludge Monofill	☐ Yes	☒ No
Temporary storage in sludge lagoons	☐ Yes	☒ No

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 54)

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: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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:

Title:

Signature: _____

Date: 4/3/25

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

Click to enter text.

B. Regionalization of facilities

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

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

1. Municipally incorporated areas

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

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

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: Click to enter text.

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. Utility CCN areas

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

☐ Yes ☐ No

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

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

Attachment: Click to enter text.

3. ***Nearby WWTPs or collection systems***

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

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

Average Influent Organic Strength or BOD_5 Concentration in mg/l: Click to enter text.

Average Influent Loading (lbs/day = total average flow X average BOD_5 conc. X 8.34): Click to enter text.

Provide the source of the average organic strength or BOD_5 concentration.

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD_5 from all sources		

Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 58)

A. Existing/Interim I Phase Design Effluent Quality

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

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

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

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

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

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

Ammonia Nitrogen, mg/l: Click to enter text.

Total Phosphorus, mg/l: Click to enter text.

Dissolved Oxygen, mg/l: Click to enter text.

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: Click to enter text. mg/l after Click to enter text. minutes detention time at peak flow

Dechlorination process: Click to enter text.

☐ Ultraviolet Light: Click to enter text. seconds contact time at peak flow

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If yes, provide the permit number: Click to enter text.

If no, provide the approximate date you anticipate submitting your application to the Corps: Click to enter text.

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 59)

A. Beneficial use authorization

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

☐ Yes ☐ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 60)

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☐ No

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

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

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☐ No

If yes, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 63)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

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

B. Waterbody uses

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

- ☐ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☐ Other(s), specify: Click to enter text.

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 65)

Date of study: Click to enter text. Time of study: Click to enter text.

Stream name: Click to enter text.

Location: Click to enter text.

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 65)

Number of stream bends that are well defined: Click to enter text.

Number of stream bends that are moderately defined: Click to enter text.

Number of stream bends that are poorly defined: Click to enter text.

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

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

Section 3. Summarize Measurements (Instructions Page 65)

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

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

Section 1. Type of Disposal System (Instructions Page 67)

Identify the method of land disposal:

- ☐ Surface application
- ☒ Irrigation
- ☐ Drip irrigation system
- ☐ Evaporation
- ☐ Other (describe in detail): Click to enter text.
- ☐ 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 67)

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
Agriculture-wheat,corn,sorghum, cotton	570	1,400,000	No

Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 67)

Table 3.0(2) – Storage and Evaporation Ponds

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

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	7.5	45.0	970’ x 337’ x 6’	Clay
2	17.9	107.6	1479’ x 528’ x 6’	Caly

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

Attachment: 8

Section 4. Flood and Runoff Protection (Instructions Page 67)

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

☐ Yes ☒ No

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

Click to enter text.

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

USGS map & Historical Observation; No flood map is available for this area.

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

A tailwater control berm 2' in height is installed and maintained on the south, east, and west edges of the property.

Section 5. Annual Cropping Plan (Instructions Page 67)

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**: 9

- 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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: 10

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

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

Table 3.0(3) – Water Well Data

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

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

Attachment: N/A

Section 7. Groundwater Quality (Instructions Page 68)

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: 11

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 69)

A. Soil map

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

Attachment: 12

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: 13

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
PuA - Sherm clay loam	0 to 80inch	Saturated 0.06-0.2	High (about 9.7 inches)	84
RcA Darrouzett clay loam(0-1%)	0 to 72inch	Saturated 0.2-0.57	High (about 9.8 inches)	84
RcB-Darrouzett clay loam(1-3%)	0 to 72inch	Saturated 0.2-0.57	High (about 9.8 inches)	84
Re- Lazbuddie caly	0 to 80inch	Saturated 0.0-0.06	High(about 9.6 inches	88

Section 9. Effluent Monitoring Data (Instructions Page 70)

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
attachment 14						

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

Click to enter text.

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

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

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

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

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

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

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

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

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

Attachment: Click to enter text.

D. Overland flow

Area used for application, in acres: Click to enter text.

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

Design application rate, in gpm/foot of slope width: Click to enter text.

Slope length, in feet: Click to enter text.

Design BOD_5 loading rate, in lbs BOD_5/acre/day: Click to enter text.

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 72)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 73)

Identify the type of system:

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

Application area, in acres: Click to enter text.

Area of drainfield, in square feet: Click to enter text.

Application rate, in gal/square foot/day: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

Area of trench, in square feet: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

Number of beds: Click to enter text.

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

Infiltration rate, in inches/hour: Click to enter text.

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

Section 1. Administrative Information (Instructions Page 74)

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

B. Click to enter text. Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

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

Click to enter text.

C. Owner of the subsurface area drip dispersal system: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

E. Owner of the land where the subsurface area drip dispersal system is located: Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 74)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

Infiltration Rate, in inches/hour: Click to enter text.

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

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

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

Depth to groundwater, in feet: Click to enter text.

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: Click to enter text.

Nitrogen application rate, in lbs/gal/day: Click to enter text.

D. Dosing information

Number of doses per day: Click to enter text.

Dosing duration per area, in hours: Click to enter text.

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

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

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 74)

A. Recharge feature plan

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

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

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

Attachment: Click to enter text.

D. Soil sampling/testing

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

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 75)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 75)

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 75)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 76)

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

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

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

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

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Epichlorohydrin				---
Ethylbenzene				10
Ethylene Glycol				---
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
4,4'-Isopropylidenediphenol				1
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Methyl tert-butyl ether				---
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10
Polychlorinated Biphenyls (PCB's) **(*3)**				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a “<”.

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See Page 86 of the instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests

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

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 87)

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: 1

Average Daily Flows, in MGD: 0.003

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 87)

A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 88)

A. General information

Company Name: B J Services Company

SIC Code: 4952

Contact name: Click to enter text.

Address: P.O. Box 1262

City, State, and Zip Code: Perryton, TX 79070

Telephone number: (806) 435-9601

Email address: Click to enter text.

B. Process information

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

Oil separation, rising of pH with caustic addition

C. Product and service information

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

Water with various additives, i.e. Acid

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: 3300

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. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☒ No

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

N/A

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

For TCEQ Use Only
Reg. No._____
Date Received_____
Date Authorized_____

Section 1. General Information (Instructions Page 90)

1. TCEQ Program Area

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

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: Click to enter text.

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Click to enter text.

2. Receiving Formation Name of Injection Zone: Click to enter text.

3. Well/Trench Total Depth: Click to enter text.

4. Surface Elevation: Click to enter text.

5. Depth to Ground Water: Click to enter text.

6. Injection Zone Depth: Click to enter text.

7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No

Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:

Name: Click to enter text.

Thickness: Click to enter text.

8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: Click to enter text.

13. Maximum injection Rate/Volume/Pressure: Click to enter text.

14. Water wells within 1/4 mile radius (attach map as Attachment I): Click to enter text.

15. Injection wells within 1/4 mile radius (attach map as Attachment J): Click to enter text.

16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): Click to enter text.

17. Sampling frequency: Click to enter text.

18. Known hazardous components in injection fluid: Click to enter text.

Section 5. Site History

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

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

Class V Injection Well Designations

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

ATTACHMENT 1

Administrative Report 1.0
Item 3C
Core Data Form

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600243869		**RN 102096674**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	04/02/2025

☐ 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 Perryton

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
	75-6000635		

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 ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:

110 South Ash Street

City	Perryton	**State**	TX	**ZIP**	79070	**ZIP + 4**	

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

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(806) 435-4014		( ) -

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 Perryton Wastewater Treatment Facility

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

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

25. Description to Physical Location:	1.0 mile south and 1.25 miles east of the intersection of US Highway 83 and Loop 143 in in Ochiltree County, Texas.

26. Nearest City	State	Nearest ZIP Code
City of Perryton	Tx	79070

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:	36.3797°		28. Longitude (W) In Decimal:	100.7617°	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
36	22	47	100	45	42

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		22132	

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

Municiplaity

34. Mailing Address:	
	110 South Ash Street

	City	Perryton	State	TX	ZIP	79070	ZIP + 4	
35. E-Mail Address:								
36. Telephone Number			**37. Extension or Code**		**38. Fax Number** *(if applicable)*			
(806) 435-4014					( ) -			

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:	Adolfo Garcia		**41. Title:**	Professional Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**		**45. E-Mail Address**
(806) 353-7233		( ) -		adolfog@hpcetx.com

SECTION V: Authorized Signature

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

Company:	City of Perryton	**Job Title:**	Public Works Director
Name *(In Print):*	Brandan Knapp	**Phone:**	(806) 435- **4014**
Signature:		**Date:**	4/3/25

ATTACHMENT 2

Administrative Report 1.0
Item 8F
Plain Language Summary

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) 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 of your facility and application as required by Title 30, Texas Administrative Code (30 TAC), Chapter 39, Subchapter H. You may modify the template as necessary to accurately describe your 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 you 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. After filling in the information for your facility delete these instructions.

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

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

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

City of Perryton (CN600243869) operates the City of Perryton Wastewater Treatment Plant (RN102096674), a waste water treatment facility. The facility is located at 0.50 mile south of Perryton city limits on U.S. Highway 83 and thence east 1.25 miles to the plant, in Perryton, Ochiltree County, Texas 79070. Renewal to discharge 1,400,00 gallons per day of treated domestic wastewater via surface irrigation.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 ($CBOD_5$) Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a primary clarifier, a trickling filter, an aerobic digestor, two clarifiers, and two holding ponds.

PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE TPDES o TLAP

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.

Ciudad de Perryton (CN600243869) opera la planta de tratamiento de aguas residuales (RN102096674), una planta de tratamiento de aguas residuales. La instalación está ubicada en 0.5 milla sur de la ciudad de Perryton, y 1.25 millas al oeste, en Perryton, Condado de Ochiltree, Texas 79070. Para renovar el permisso de disposicion de aguas residuales en un volume que no sobrepasa un flujo diario de 1,400,00 galones por dia por medio de Riego de tierras.Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda bioquimica de oxigeno (BOD5) de cinco dias. Se incluyen contaminantes potenciales adicionales en el Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent en el paquete de solicitud de permiso. Agua residuales domesticas. está tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluyen una rejilla de barras, un clarificador primario, un filtro percolador, un digestor aeróbico, dos clarificadores y dos estanques de retención..

INSTRUCTIONS

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

Questions or comments concerning this form may be directed to the Water Quality Division’s Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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 are not federal enforceable representations of the permit application.

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Example 2: Domestic Wastewater TPDES Renewal application

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

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

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

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

Example 3: Domestic Wastewater TPDES New Application

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

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

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

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

Example 4: Domestic Wastewater TLAP Renewal application

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

of the permit application.

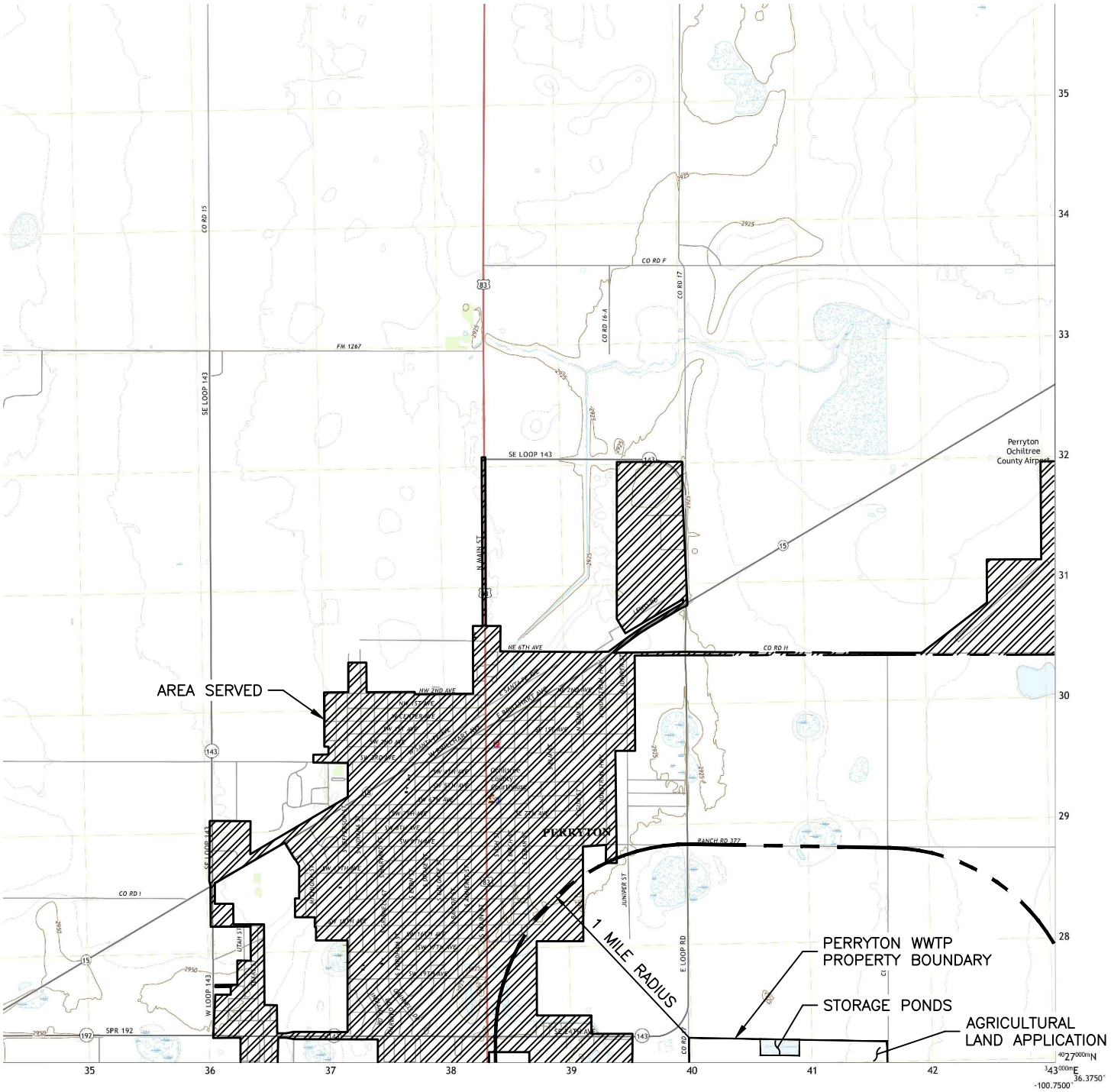
The City of Texas (CN000000000) operates the City of Texas wastewater treatment plant (RN000000000), an activated sludge process plant operated in the complete mix mode. The facility is located at 123 Texas Street, near the City of More Texas, Texas County, Texas 71234.

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

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

ATTACHMENT 3

Domestic Administrative Report 1.0
Item 13
Original USGS Map



MN
GN
5°35'
100 MILS
1°5'
19 MILS

UTM GRID AND 2019 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
LF
Grid Zone Designation
14S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the
National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Bryans Corner SW
2 Bryans Corner
3 Balko SW
4 Perryton NW
5 Huntoon
6 Farnsworth
7 Perryton SE
8 Booker SW
ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
State Route	

PERRYTON, TX, OK
2022

N

(FOR PERMIT PURPOSES ONLY)

HI-PLAINS
CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC ADMINISTRATIVE REPORT 1.0

USGS TOPOGRAPHIC MAP
PERRYTON, TX-OK

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

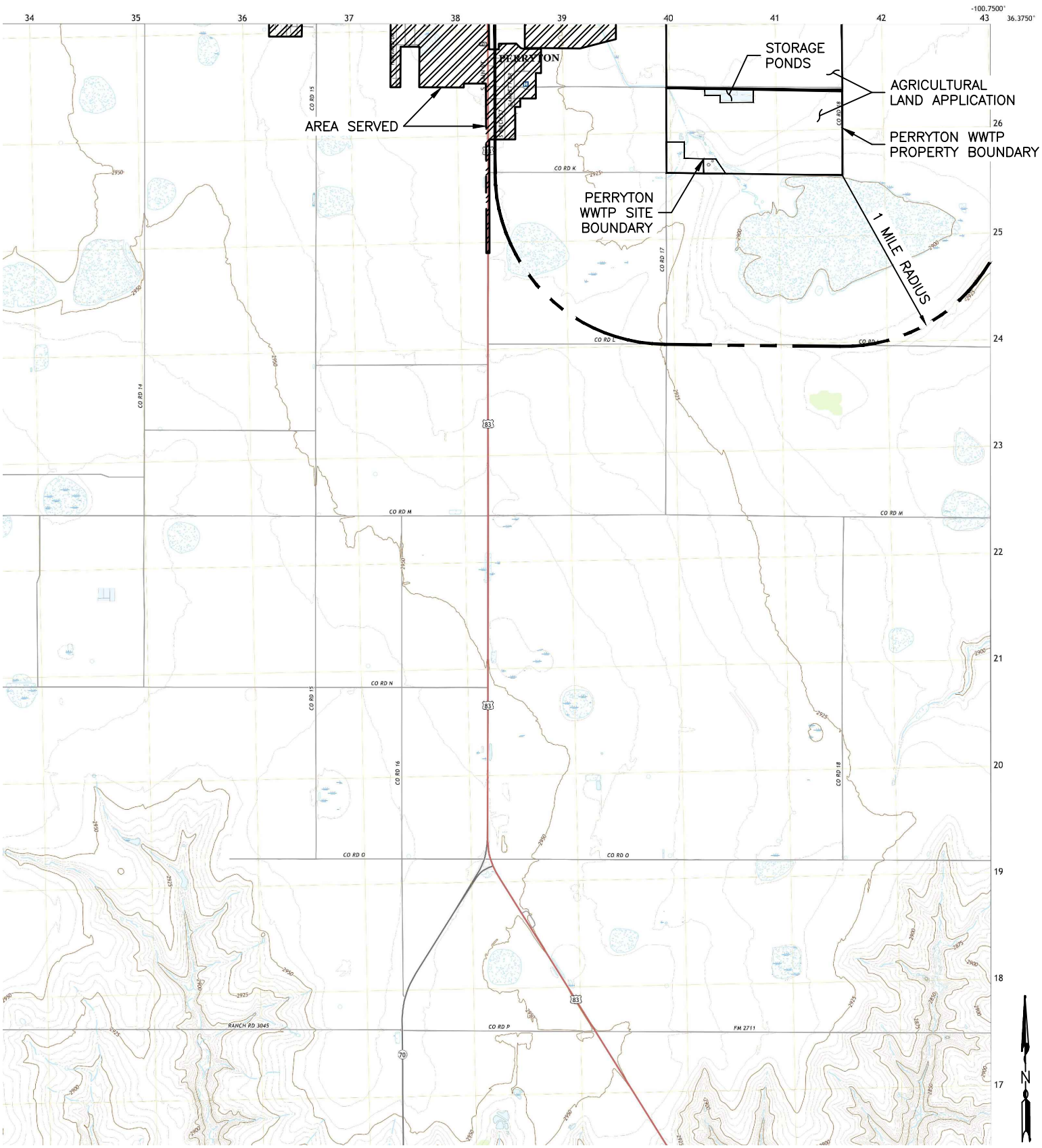
FIGURE:

#1

IT OF THE INTERIOR
OGICAL SURVEY

The National Map
US Topo

PERRYTON SE QUADRANGLE
TEXAS - OCHILTREE COUNTY
7.5-MINUTE SERIES



(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

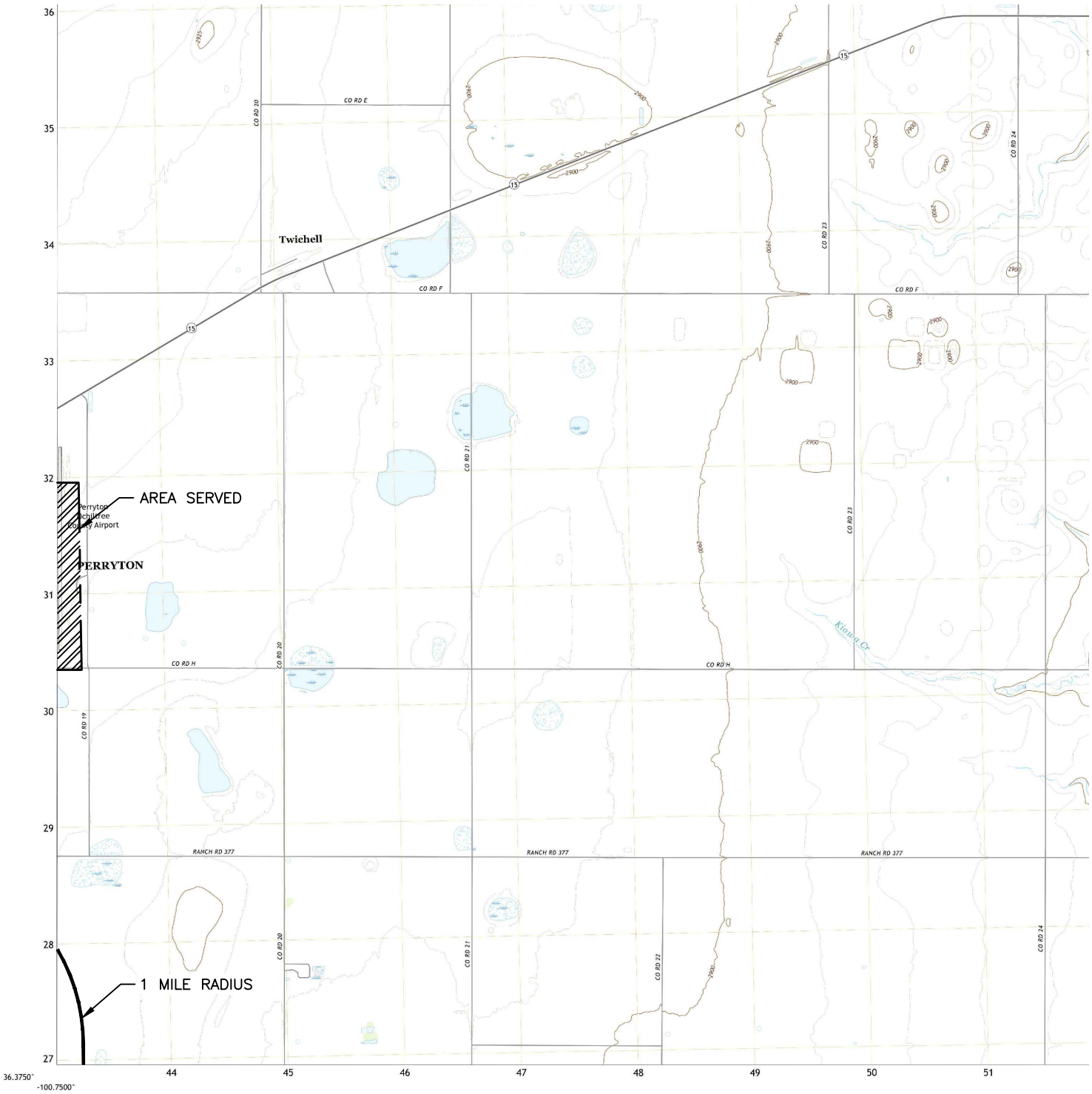
CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC ADMINISTRATIVE REPORT 1.0

USGS TOPOGRAPHIC MAP
PERRYTON SE, TX

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

FIGURE:

#2



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 - July 2017
Roads	U.S. Census Bureau, 2015 - 2018
Names	GNIS, 1979 - 2021
Hydrography	National Hydrography Dataset, 2005 - 2018
Contours	National Elevation Dataset, 2019
Boundaries	Multiple sources; see metadata file 2019 - 2021
Public Land Survey System	BLM, 2021
Wetlands	FWS National Wetlands Inventory 2003 - 2005

MN
GN
5°32'
98 MILS
1°0'
18 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
LF
Grid Zone Designation
14S

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

TEXAS
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Bryans Corner
2 Balko SW
3 Elmwood
4 Perryton
5 Booker
6 Perryton SE
7 Booker SW
8 Booker SE
ADJOINING QUADRANGLES

N

(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC ADMINISTRATIVE REPORT 1.0

USGS TOPOGRAPHIC MAP
HUNTOON, TX-OK

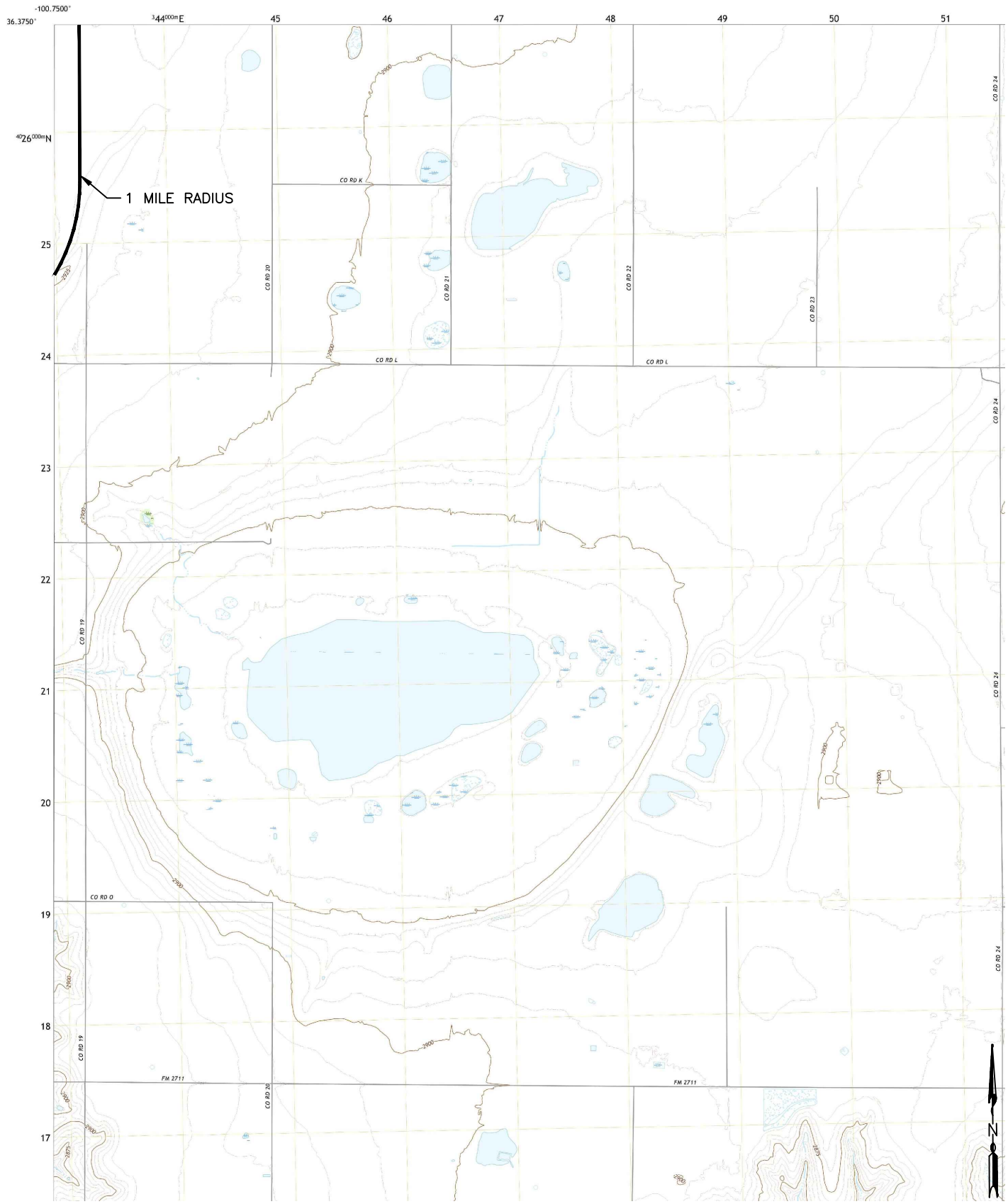
PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

FIGURE:
#3

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

USGS science for a changing world

The National Map US Topo



(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC ADMINISTRATIVE REPORT 1.0

USGS TOPOGRAPHIC MAP
BOOKER SW, TX

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

FIGURE:

#4

ATTACHMENT 4

Technical Report 1.0
Item 2B
Treatment Units and Dimensions

Domestic Technical Report 1.0

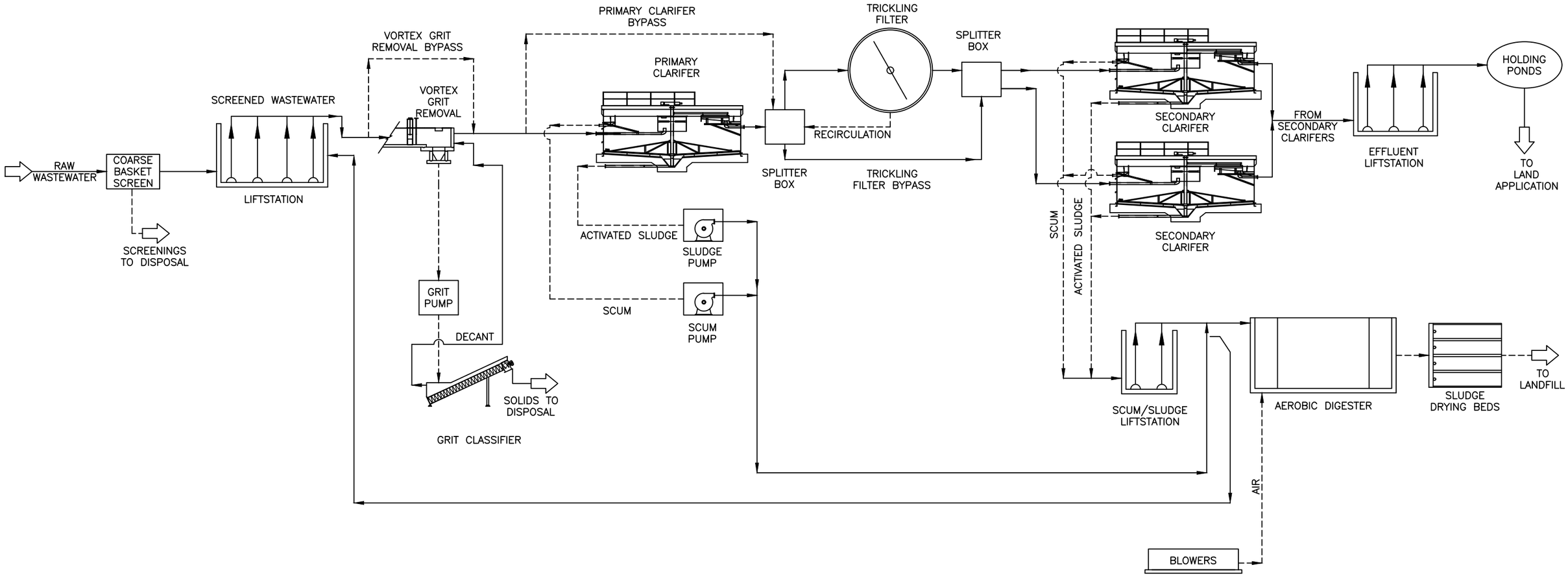
2. Treatment Process

B. provide the treatment unit type, the number of units, and dimensions (length, width, depth) of each treatment unit, accounting for *all* phases of operation.

TREATMENT UNITS	DIMENSIONS (L x W x D)
1- Grit Removal	4 MGD "Vortex Type"
1- Primary Clarifier	10' x 60' Diameter
1- Trickling Filter	8' x 85' Diameter.
1- Aerobic Digester	23' x 50' Diameter.
2- Final Clarifiers	10' x 50' Diameter
4- Sludge Drying Beds	32.5' x 24.3' x 2'
2- Holding Ponds	#1 - 337' x 970' x 6' #2 - 528' x 1,479' x 6'

ATTACHMENT 5

Technical Report 1.0
Item 2C
Process Flow Diagram



(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL REPORT 1.0

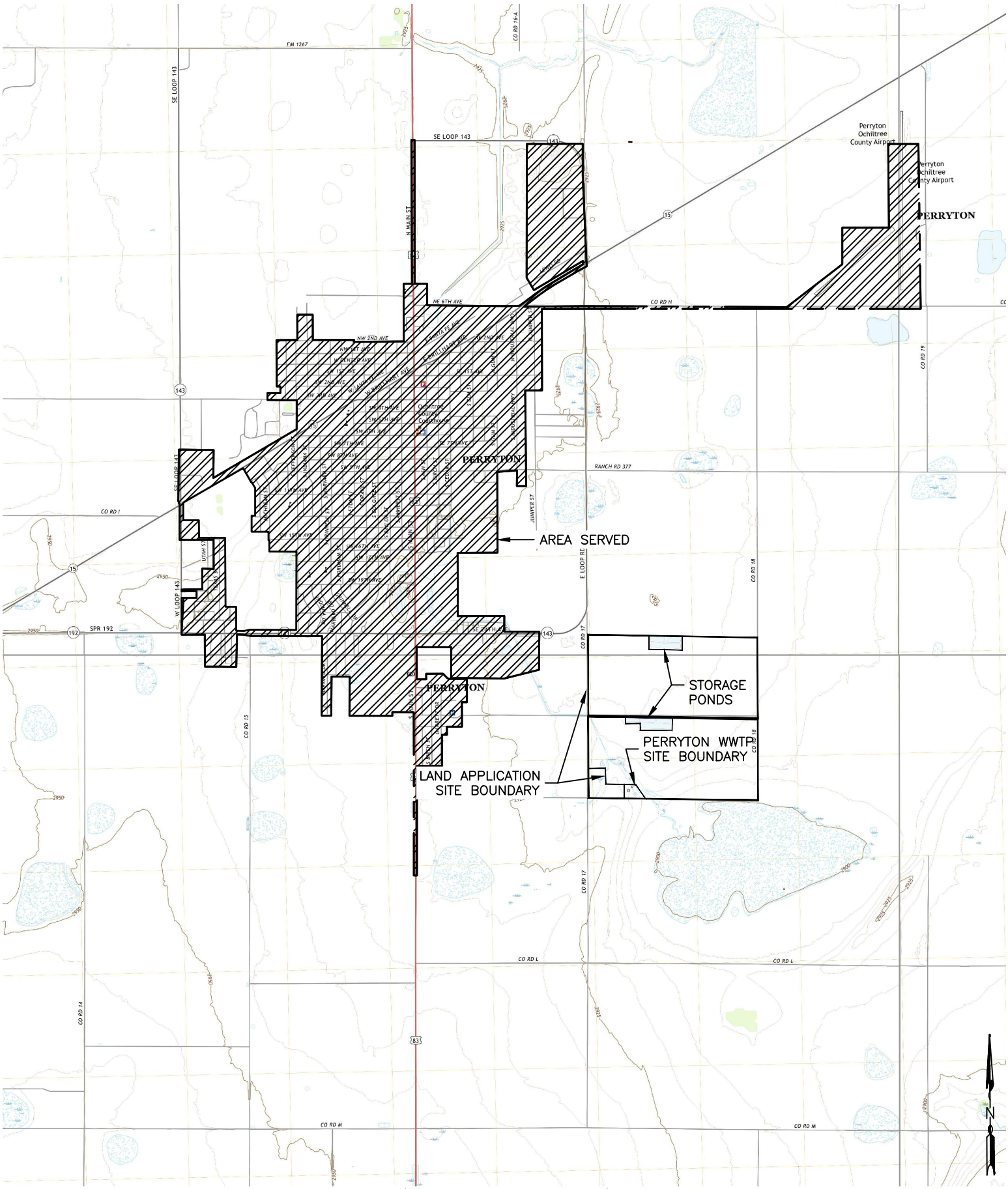
FLOW DIAGRAM

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: N.T.S.

FIGURE: #5

ATTACHMENT 6

Technical Report 1.0
Item 3
Site Drawing



(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL REPORT 1.0

SITE MAP

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

FIGURE:

#6

ATTACHMENT 7

Technical Report 1.0
Item 7
Pollutant Analysis of Treated Effluent

This will be sent at a later time.

ATTACHMENT 8

Domestic Worksheet 3.0
Item 3
Storage Pond Liner Certification

GAE Engineering Inc.
CIVIL • STRUCTURAL
ENVIRONMENTAL

September 21, 2005

TCEQ – Water Quality Assessment Team
ATTN: Christine Peters – MC 150
P.O. Box 13087
Austin, TX 78711-3087

Re: City of Perryton Permit No. WQ0010248001
RN102096674; CN600243869
GAE #04070

Dear Ms. Peters:

This letter is being written in response to your letter of June 14, 2005, and in accordance with the special provisions of permit item 14 (c). On September 19th, the City of Perryton excavated trenches at each corner of the two lagoon areas in order to check for seepage. These trenches were observed for 24 hours and no seepage occurred. We hereby certify that upon observations made at the site, we found that no seepage is occurring from the liners.

In addition, in compliance with the special provisions of permit item 4, enclosed you will find a copy of the Public Sanitary Easement, which has been filed at the Ochiltree County courthouse.

Thank you for your attention in this matter. If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

Kevin L. Glovier PE

Kevin R. Glovier, P.E.



ad/encl

Cc: City of Perryton
TCEQ, Region 1
Water Quality Compliance Monitoring Team (MC 224)

AMARILLO | **DUMAS** | GUYMON
P.O. Box 977
Dumas, TX 79029
Tel (806) 935-6421
Fax (806) 935-3758

Texas Commission on Environmental Quality

Interoffice Memorandum

To: Ron Riggins, Permit Coordinator
Municipal Team

DATE: September 28, 2005

Thru: April Hoh, Peer Reviewer 9/28/05
Water Quality Assessment Team

From: Christine Peters, Geologist 09-28-05
Water Quality Assessment Team

Subject: Response to Additional Information, City of Perryton, Permit No. 10248-001, Major Amendment, Ochiltree County

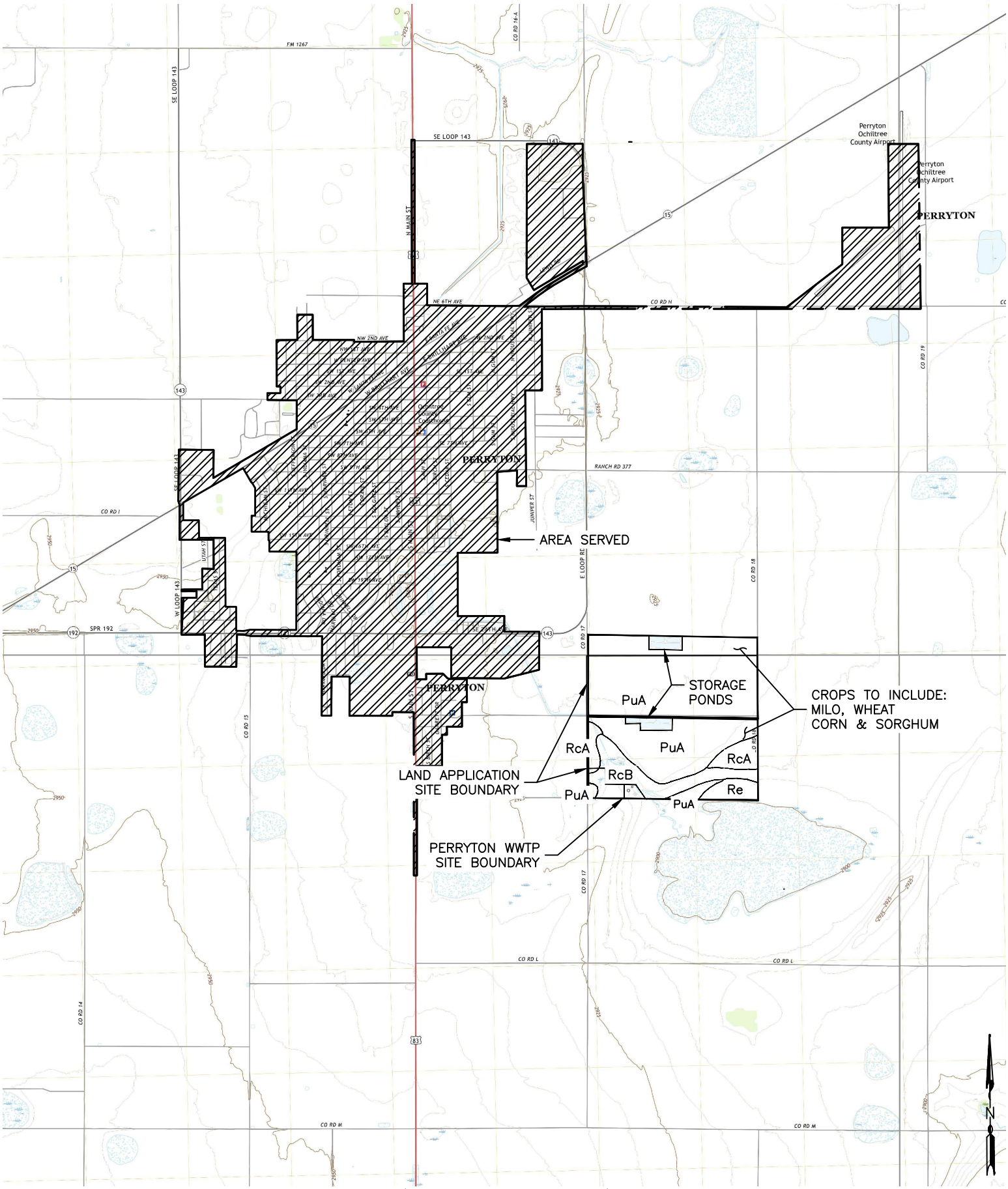
The Water Quality Assessment (WQA) Team sent a letter dated June 14, 2005 regarding the pond liners for the City of Perryton Wastewater Treatment Plant. Within 90 days of permit issuance the permittee was recommended to comply with Special Provision No. 7 of the permit. The letter provided the permittee with the option to "Excavate 4 trenches at each corner of the two lagoon areas which will achieve a depth of 2 feet below the bottom of the liner and observe for 24 hours. If no seepage occurs in the trenches, then a PE shall sign a certification that no seepage is occurring from the liner(s)."

The WQA Team received a letter on September 28, 2005 which is certified by Kevin R. Glovier, P.E., and states that no seepage is occurring from the liners. The WQA Team concludes that this letter satisfies the requirements of Special Provision No. 7 for the existing wastewater lagoons.

If you have any further questions, please contact Christine Peters at (512) 239-1007.

ATTACHMENT 9

Domestic Worksheet 3.0
Item 5
Cropping Plan



(FOR PERMIT PURPOSES ONLY)

HI-PLAINS
CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL WORKSHEET 3.0

CROPPING PLAN SOIL MAP

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

FIGURE:

#7

DOMESTIC WORKSHEET 3.0 – LAND DISPOSAL OF EFFLUENT

5. ANNUAL CROPPING PLAN

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1. Crop Type & Soil Map,

Currently approximately 570 acres of land owned by the City of Perryton is permitted for irrigation. The majority of the soil is Pullman clay loam. Along the southern side of the irrigation area is Darrouzett clay loam and Lazbuddie clay.

The crops are planted on a rotational basis. Both cool season (wheat) and warm season (sorghum, corn and/or cotton) are crops that are considered each season.

2. Crop Growing Season & Nutrient Requirements

Crop	Growing Season	Nitrogen Req. #/acre	Phosphorus Req. #/acre	Potassium Req. #/acre	Water Req. ac-ft/ac	Harvests
Corn	Apr.-Aug.	240	100	240	2.25	1/year
Sorghum	Jun.-Oct.	185	80	285	1.76	1/year
Wheat	Sept.-June	105	46	76	2.64	1/year
Cotton	May-Oct.	134	61	120	1.88	1/year

From Texas Agriculture Extension Service, B-6053

3. Designated Areas

To facilitate agricultural practices of crop rotation and fallow areas, there are no designated areas for each crop. The soil types are conducive for all the crops.

4. Supplemental Watering & Fertilization

The cropping plan is developed each year such that the wastewater plant will provide adequate water for the crop selected and at the same time the cropping plan will provide adequate area to dispose of the wastewater. This is an annual determination based on the climatic conditions occurring.

The soil can be tested to determine the nutrient requirements for each crop. The nutrient levels necessary to produce the crop are added as needed. This plan is developed each year based on the nutrient uptake of the crop as it changes based on the yields in the previous years.

5. Salt Tolerances

Sorghum: Moderately salt tolerant
Electrical Conductivity (millimhos/cm at 25 C) in the range of 4.0-6.0.

Wheat: Moderately salt tolerant
Electrical Conductivity (millimhos/cm at 25 C) in the range of 4.0-6.0.

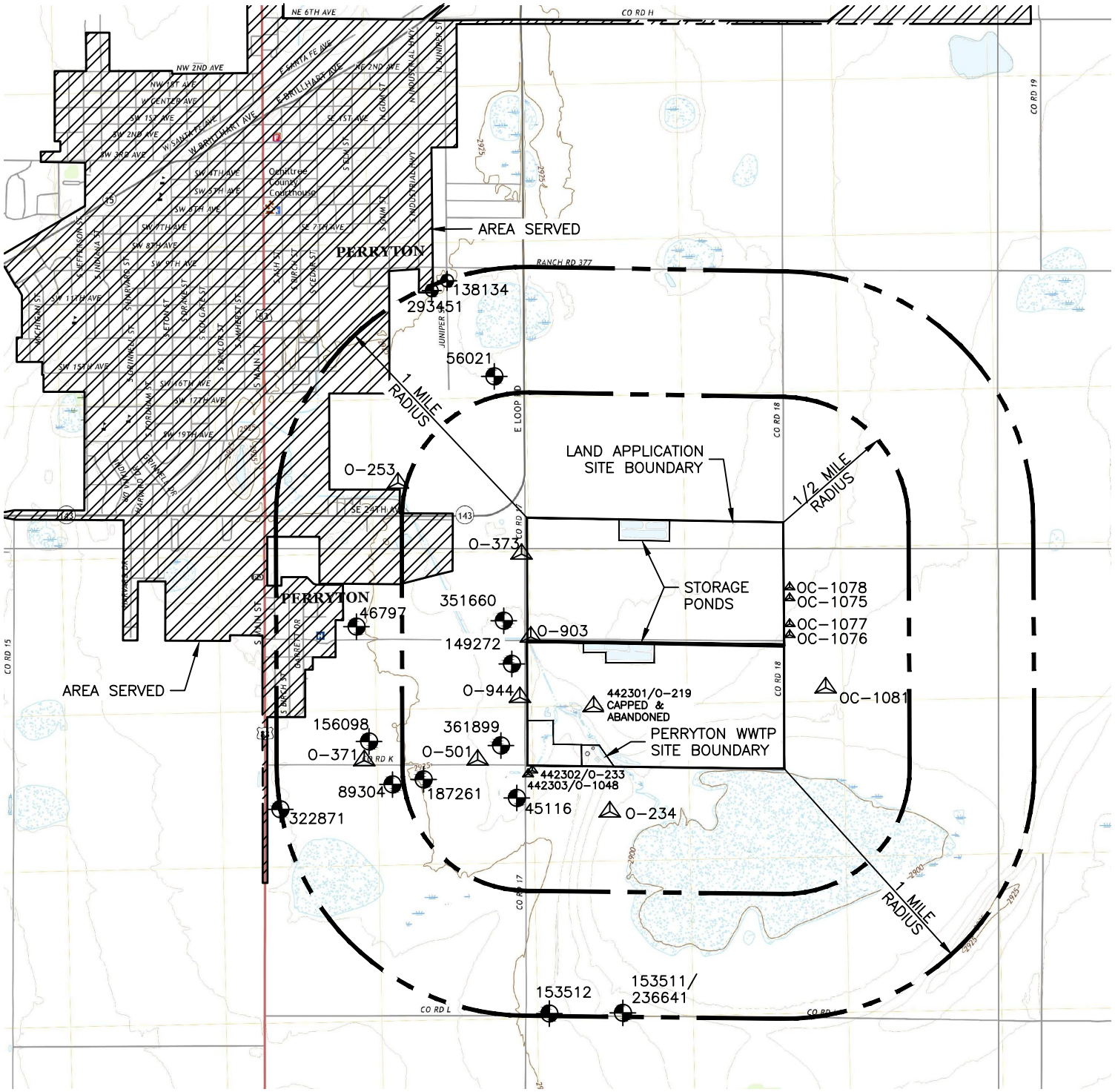
Cotton: Moderately salt tolerant
Electrical Conductivity (millimhos/cm at 25 C) in the range of 4.0-6.0.

Corn: Relatively nontolerant
Electrical Conductivity (millimhos/cm at 25 C) in the range of 2.0-4.0.

Data from 31 TAC 309.20 Subchapter C. Land Disposal of Sewage Effluent, Table 3: Salt Tolerance of Various Crop Plants, and from extensive experience.

ATTACHMENT 10

Domestic Worksheet 3.0
Item 6
Well and Map Information



0-234 WELL NUMBER

WELL LOCATIONS TAKEN FROM GPS COORDINATES OR PHYSICAL DESCRIPTIONS PROVIDED IN ONE OF THE FOLLOWING REPORTS.

△ NORTH PLAINS WATER CONSERVATION DISTRICT NO. 2

⊕ STATE OF TEXAS WELL REPORT

(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL WORKSHEET 3.0

WELL LOCATIONS - ½ MILE & 1 MILE RADIUS

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=3,000'

FIGURE: #8

ATTACHMENT 11

Domestic Worksheet 3.0
Item 7
Groundwater Quality Assessment

DOMESTIC WORKSHEET 3.0 –
GROUNDWATER QUALITY ASSESSMENT

6. WELL AND MAP INFORMATION

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1. **Evaluation of the Water Wells**
   See to attachment No. 8 – Well and Map Information

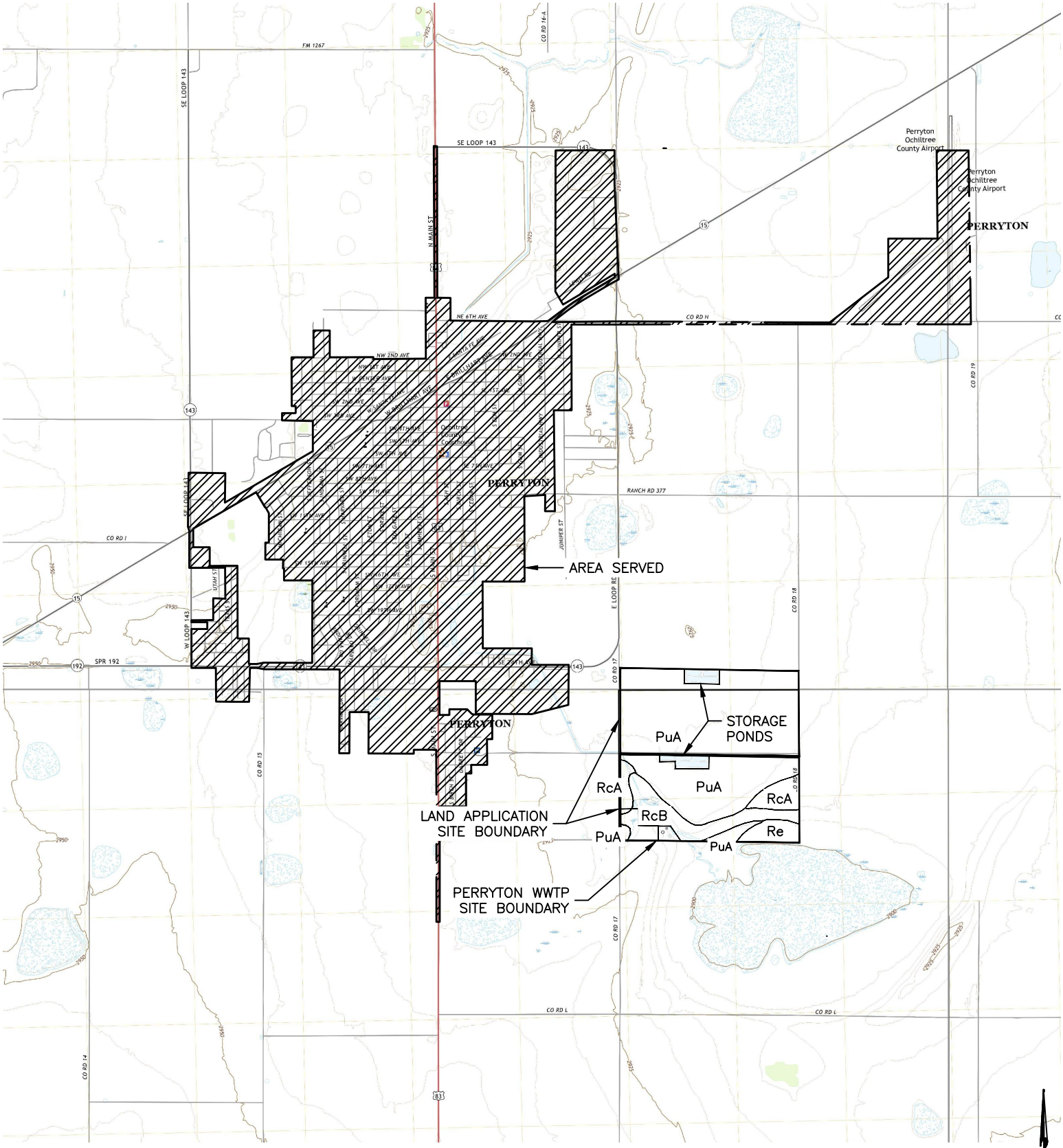
2. **Wastewater Application Rate**
   The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 1.4 million gallons per day (MGD) via surface irrigation of 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 2.75 acre-feet per year per acre irrigated for up to 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.0 acre-feet per year per acre irrigated for up to 392 acres of non-public access agricultural land.

   See to attachment No. 10 – Soil Map and Soil Analysis

3. **Pond Liners**
   See to attachment No. 6 – Storage Pond Liner Certification

ATTACHMENT 12

Domestic Worksheet 3.0
Item 8
Soil Map



MAP UNIT SYMBOL	MAP UNIT NAME
PuA	SHERM CLAY LOAM, 0 TO 1 PERCENT SLOPES
RcA	DARROUZETT CLAY LOAM, 0 TO 1 PERCENT SLOPES
RcB	DARROUZETT CLAY LOAM, 1 TO 3 PERCENT SLOPES
Re	LAZBUDDIE CLAY

(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL WORKSHEET 3.0

SOIL MAP

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=4,000'

FIGURE:

#9

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 Ochiltree County, Texas

City of Perryton WWTP



February 12, 2015

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 (http://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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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: 1:13,700 if printed on A landscape (11" x 8.5") sheet.

N

0 200 400 800 1200 Meters

0 500 1000 2000 3000 Feet

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 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
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: Ochiltree County, Texas
Survey Area Data: Version 9, Sep 30, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 1, 2008—Jul 19, 2010

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

Ochiltree County, Texas (TX357)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
PuA	Sherm clay loam, 0 to 1 percent slopes	502.1	76.6%
RcA	Darrouzett clay loam, 0 to 1 percent slopes	37.8	5.8%
RcB	Darrouzett clay loam, 1 to 3 percent slopes	91.0	13.9%
Re	Lazbuddie clay	24.6	3.7%
Totals for Area of Interest		**655.6**	**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.

Ochiltree County, Texas

PuA—Sherm clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dg4r
Elevation: 2,600 to 4,000 feet
Mean annual precipitation: 16 to 22 inches
Mean annual air temperature: 54 to 57 degrees F
Frost-free period: 175 to 200 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Sherm and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sherm

Setting

Landform: Plains
Landform position (two-dimensional): Summit
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and clayey loess

Typical profile

H1 - 0 to 5 inches: clay loam
H2 - 5 to 72 inches: clay
H3 - 72 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
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
Calcium carbonate, maximum in profile: 45 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: Deep hardland 16-22" pz (R077AY001TX)

RcA—Darrouzett clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: dg4v
Elevation: 2,200 to 3,270 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 190 to 205 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Darrouzett and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Darrouzett

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and clayey loess

Typical profile

H1 - 0 to 8 inches: clay loam
H2 - 8 to 48 inches: silty clay loam
H3 - 48 to 72 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
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
Calcium carbonate, maximum in profile: 60 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: Clay loam 16-24" pz (R077EY051TX)

RcB—Darrouzett clay loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: dg4w
Elevation: 2,200 to 3,270 feet
Mean annual precipitation: 20 to 24 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 190 to 205 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Darrouzett and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Darrouzett

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Silty and clayey loess

Typical profile

H1 - 0 to 6 inches: clay loam
H2 - 6 to 48 inches: silty clay loam
H3 - 48 to 72 inches: silty clay loam

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
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
Calcium carbonate, maximum in profile: 60 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 9.8 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: Clay loam 16-24" pz (R077EY051TX)

Re—Lazbuddie clay

Map Unit Setting

National map unit symbol: dg4y
Elevation: 2,500 to 4,500 feet
Mean annual precipitation: 16 to 26 inches
Mean annual air temperature: 55 to 64 degrees F
Frost-free period: 180 to 220 days
Farmland classification: All areas are prime farmland

Map Unit Composition

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

Description of Lazbuddie

Setting

Landform: Playas on plains
Landform position (two-dimensional): Shoulder
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Calcareous, clayey lacustrine deposits of quaternary age

Typical profile

H1 - 0 to 15 inches: clay
H2 - 15 to 60 inches: clay
H3 - 60 to 80 inches: clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
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: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 40 percent
Gypsum, maximum in profile: 2 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 3s
Hydrologic Soil Group: D
Ecological site: Deep hardland 16-21" pz (R077CY022TX)

Minor Components

Unnamed, hydric

Percent of map unit: 5 percent
Landform: Depressions

Unnamed

Percent of map unit: 5 percent

References

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United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

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ATTACHMENT 13

Domestic Worksheet 3.0
Item 8
Soil Analysis

This will be sent at a later time.

ATTACHMENT 14

Domestic Worksheet 3.0
Item 8
Effluent Monitoring Data

This will be sent at a later time.

ATTACHMENT 15

Copy of Application Fee Check

This will be sent at a later time.

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECIBO DE LA SOLICITUD E
INTENCION DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA
RENOVACION

PERMISO NO. WQ00

SOLICITUD. *Ciudad de Perryton*, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el Permiso No. WQ00010248001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de *1,400,000* galones por día mediante *riego de tierras*. La planta de *tratamiento de aguas domésticos residuales* y el área de disposición están ubicados en *1 millas al sur y 1.25 millas al este de la intersección de la circunvalación 143 y la autopista US 83, cerca de la ciudad de Perryton* en el Condado de *Ochiltree*, Texas *79070*. La TCEQ recibió esta solicitud el *Abril 7, 2025*. La solicitud para el permiso estará disponible para leerla y copiarla en *la oficina del secretario de la Ciudad de Perryton, 110 South Ash Street, Perryton, en el Condado de Ochiltree* antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.
Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.
https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications.

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es

una audiencia administrativa de lo contencioso.

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos los comentarios apropiados y preparará una respuesta a todo los comentarios públicos esenciales, pertinentes, o significativos. **A menos que la solicitud haya sido referida directamente a una audiencia administrativa de lo contencioso, la respuesta a los comentarios y la decisión del Director Ejecutivo sobre la solicitud serán enviados por correo a todos los que presentaron un comentario público y a las personas que están en la lista para recibir avisos sobre esta solicitud. Si se reciben comentarios, el aviso también proveerá instrucciones para pedir una reconsideración de la decisión del Director Ejecutivo y para pedir una audiencia administrativa de lo contencioso.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión.

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante

indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

INFORMACIÓN DISPONIBLE EN LÍNEA. Para detalles sobre el estado de la solicitud, favor de visitar la Base de Datos Integrada de los Comisionados en www.tceq.texas.gov/goto/cid. Para buscar en la base de datos, utilizar el número de permiso para esta solicitud que aparece en la parte superior de este aviso.

CONTACTOS E INFORMACIÓN A LA AGENCIA. Todos los comentarios públicos y solicitudes deben ser presentadas electrónicamente vía http://www14.tceq.texas.gov/epic/eComment/ o por escrito dirigidos a la Comisión de Texas de Calidad Ambiental, Oficial de la Secretaría (Office of Chief Clerk), MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Para obtener más información acerca de esta solicitud de permiso o el proceso de permisos, llame al programa de educación pública de la TCEQ, gratis, al 1-800-687-4040. Si desea información en Español, puede llamar al 1-800-687-4040.

También se puede obtener información adicional del *Ciudad de Perryton* a la dirección indicada arriba o llamando a *Brandan Knapp* al *(806) 435-4014*.

Fecha de emisión *[Date notice issued]*

Brandon Maldonado

From: Brandon Maldonado
Sent: Wednesday, April 30, 2025 3:07 PM
To: TD Peiris
Subject: RE: Application to Renew Permit No. WQ0010248001 - Notice of Deficiency Letter

Thank you, your answer is sufficient for all items of the NOD. I will now work to admin complete your application.

Please let me know if you have any questions.

Regards,

Brandon Maldonado
Texas Commission on Environmental Quality
Water Quality Division
512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

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From: TD Peiris <tdpeiris@hpcetx.com>
Sent: Wednesday, April 30, 2025 3:01 PM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Subject: Re: Application to Renew Permit No. WQ0010248001 - Notice of Deficiency Letter

I apologize for missing item 1.

I have read the section. The only omission I found is that treated wastewater is "disposed via irrigation in an area of 392 acres of non-public access agricultural land".
All other information is correct.

Please let me know if you have any questions or further requirements.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

On Wed, Apr 30, 2025 at 8:42 AM Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov> wrote:

> Good morning
>
> Your response to item 2 of the NOD is sufficient, however I still need more information for item 1. Please confirm that you have read over the section of the NORI that was included in the NOD and that it contains no errors or omissions. Once you have confirmed this, I can work to admin complete your application.
>
> Please let me know if you have any questions.
>
> Regards,
>
> **Brandon Maldonado**
>
> Texas Commission on Environmental Quality
>
> Water Quality Division
>
> 512-239-4331
> Brandon.Maldonado@tceq.texas.gov
>
> How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

From: TD Peiris <tdpeiris@hpcetx.com>
Sent: Tuesday, April 29, 2025 2:03 PM
To: Brandon Maldonado <Brandon.Maldonado@tceq.texas.gov>
Subject: Fwd: Application to Renew Permit No. WQ0010248001 - Notice of Deficiency Letter

Mr. Brandon,

Please find the complete response attached herewith.

Please let me know if you have any questions or concerns.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

---------- Forwarded message ---------
From: **Adolfo Garcia** <adolfog@hpcetx.com>
Date: Fri, Apr 18, 2025 at 11:26 AM
Subject: Fwd: Application to Renew Permit No. WQ0010248001 - Notice of Deficiency Letter
To: TD Peiris <tdpeiris@hpcetx.com>

Adolfo Garcia, P.E.

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | Mobile 806.584.8707 | adolfog@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

---------- Forwarded message ---------
From: **Brandon Maldonado** <Brandon.Maldonado@tceq.texas.gov>
Date: Fri, Apr 18, 2025, 11:13 AM
Subject: Application to Renew Permit No. WQ0010248001 - Notice of Deficiency Letter
To: bknapp@perryton.net <bknapp@perryton.net>
Cc: adolfog@hpcetx.com <adolfog@hpcetx.com>

Dear Mr. Brandan

The attached Notice of Deficiency (NOD) letter sent on **April 18, 2025,** requests additional information needed to declare the application administratively complete. Please send complete response to my attention by **May 2, 2025.**

Please let me know if you have any questions.

Regards,

Brandon Maldonado

Texas Commission on Environmental Quality

Water Quality Division

512-239-4331
Brandon.Maldonado@tceq.texas.gov

How is our customer service? Fill out our online customer satisfaction survey at www.tceq.texas.gov/customersurvey

The TCEQ is committed to accessibility.
To request a more accessible version of this report, please contact the TCEQ Help Desk at (512) 239-4357.

Compliance History Report

Compliance History Report for CN600243869, RN102096674, Rating Year 2024 which includes Compliance History (CH) components from September 1, 2019, through August 31, 2024.

Customer, Respondent, or Owner/Operator: CN600243869, City of Perryton **Classification:** HIGH **Rating:** 0.00

Regulated Entity: RN102096674, CITY OF PERRYTON **Classification:** HIGH **Rating:** 0.00

Complexity Points: 8 **Repeat Violator:** NO

CH Group: 08 - Sewage Treatment Facilities

Location: LOCATED APPROXIMATELY .5 MILES S OF PERRYTON CITY LIMITS ON US HIGHWAY 83 AND THENCE E 1.25 MILES TO THE PLANT SITE IN OCHILTREE COUNTY TEXAS OCHILTREE, TX, OCHILTREE COUNTY

TCEQ Region: REGION 01 - AMARILLO

ID Number(s):
STORMWATER PERMIT TXR05FC04 **WASTEWATER** PERMIT WQ0010248001

Compliance History Period: September 01, 2019 to August 31, 2024 **Rating Year:** 2024 **Rating Date:** 09/01/2024

Date Compliance History Report Prepared: May 14, 2025

Agency Decision Requiring Compliance History: Permit - Issuance, renewal, amendment, modification, denial, suspension, or revocation of a permit.

Component Period Selected: April 07, 2020 to May 14, 2025

TCEQ Staff Member to Contact for Additional Information Regarding This Compliance History.

Name: PT **Phone:** (512) 239-3581

Site and Owner/Operator History:

1) Has the site been in existence and/or operation for the full five year compliance period? YES
2) Has there been a (known) change in ownership/operator of the site during the compliance period? NO

Components (Multimedia) for the Site Are Listed in Sections A - J

A. Final Orders, court judgments, and consent decrees:
N/A

B. Criminal convictions:
N/A

C. Chronic excessive emissions events:
N/A

D. The approval dates of investigations (CCEDS Inv. Track. No.):
Item 1 February 07, 2025 (2041502)

E. Written notices of violations (NOV) (CCEDS Inv. Track. No.):
A notice of violation represents a written allegation of a violation of a specific regulatory requirement from the commission to a regulated entity. A notice of violation is not a final enforcement action, nor proof that a violation has actually occurred.

N/A

F. Environmental audits:
N/A

G. Type of environmental management systems (EMSs):
N/A

H. Voluntary on-site compliance assessment dates:
N/A

I. Participation in a voluntary pollution reduction program:
N/A

J. Early compliance:
N/A

Sites Outside of Texas:
N/A

Senate Bill 709 (84th Legislative Session, 2015) amended the Texas Water Code by adding new Section 5.5553, which requires the Texas Commission on Environmental Quality (TCEQ) to provide written notice to you at least thirty (30) days prior to the TCEQ's issuance of draft permits for applications that are located in your district.

City of Perryton, 110 South Ash Street, Perryton, Texas 79070, has applied to the TCEQ to renew Texas Land Application Permit No. WQ0010248001 to authorize disposal of treated wastewater at a volume not to exceed a daily average flow of 1,400,000 gallons per day via irrigation of 570 acres of non-public access agricultural land. The domestic wastewater treatment facility and disposal area are located approximately 1.0 mile south and 1.25 miles east of the intersection of Loop 143 and U.S. Highway 83, near the city of Perryton, in Ochiltree County, Texas 79070. TCEQ received this application on April 7, 2025. The permit application will be available for viewing and copying at Perryton City Hall, Office of the City Secretary, 110 South Ash Street, Perryton, in Ochiltree County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-100.7794,36.3628&level=18

TCEQ is preparing the initial draft permit. At the time the draft permit is issued, the applicant will be required to publish notice in a newspaper of general circulation, and the TCEQ will provide a copy of the notice of draft permit to persons who have requested to be on a mailing list.

Questions regarding this application may be directed to Mr. Deba Dutta, P.E., by calling 512-239-4608.

Issuance Date: _____

TCEQ Interoffice Memorandum

To: Deba Dutta, P.E., Leader, Municipal Permits Team

From: Andrew Gorton, P.G., Geologist, Water Quality Assessment Team

Date: May 9, 2025

Subject: Geology Compliance Review of Groundwater-Related Special Provisions, City of Perryton, Renewal, Permit No. WQ0010248001, Ochlitree County

Based upon review of the existing permit language and an evaluation of the permit application, the WQA Team reviewing geologist recommends the following to the renewed permit:

Revise Special Provision 13 with the following changes (changes in bold):

13. **For the existing wastewater ponds**: The applicant shall maintain certification by a professional engineer, registered in the State of Texas, that each wastewater storage pond meets or exceeds the liner requirements found in 30 TAC 317.4(j)(2) applying to imperviousness:

(A) In-situ or placed clay soils having the following qualities may be used for pond lining:

(i) more than 30% passing a No. 200 mesh sieve;

(ii) liquid limit greater than 30%;

(iii) plasticity index greater than 15; and

(iv) a minimum thickness of 2 feet.

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

(C) Other methods with commission approval.

Certifications shall be maintained onsite and, if requested, submitted to the Water Quality Assessment Team (MC-150), TCEQ Regional Office (MC Region 1), and the TCEQ Enforcement Division (MC 224).

Regarding wastewater pond liners, include the following as new Special Provisions (following the current Special Provision 13 and before current Special Provision 14):

1. 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 1), and the TCEQ Enforcement Division (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) since the facility is located on the recharge zone of an aquifer.

2. The existing wastewater ponds shall be maintained and operated in a manner that prevents unauthorized discharge to water in the state and contamination of groundwater.

3. 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 all 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. A record of the monthly inspections shall be maintained in a field log and kept onsite for TCEQ inspection.

4. 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.

Outlook

Fwd: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

From TD Peiris <tdpeiris@hpcetx.com>
Date Fri 4/18/2025 2:52 PM
To Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>

1 attachment (33 KB)
10248-001.Pretech.Apr2025.docx;

Mr. Gorton,

Please provide an example report for "Domestic Worksheet 3.0 – Groundwater Quality Assessment" so that we can provide all necessary information for the renewal application.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

---------- Forwarded message ---------
From: **Adolfo Garcia** <adolfog@hpcetx.com>
Date: Wed, Apr 16, 2025 at 9:03 AM
Subject: Fwd: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
To: TD Peiris <tdpeiris@hpcetx.com>

We have 14 days to respond to TCEQ about the permit renewal.

Adolfo Garcia, P.E.

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | Mobile 806.584.8707 | adolfog@hpcetx.com | www.hpcetx.com

---------- Forwarded message ---------
From: **Andrew Gorton** <Andrew.Gorton@tceq.texas.gov>
Date: Wed, Apr 16, 2025 at 8:56 AM
Subject: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
To: Address: <adolfog@hpcetx.com>
Cc: Sara Holmes <Sara.Holmes@tceq.texas.gov>

Good morning Mr. Garcia,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Therefore, you must send updated technically complete and accurate information within **14 days** (April 30, 2025) of the date of this email.

Any revisions can be sent electronically to me (WQA Team Geologist) or to Ms. Sara Holmes (WQA Team Agronomist). If you have any questions, please feel free to contact me or Sara (email is preferred).

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585
Andrew.Gorton@tceq.texas.gov

Outlook

Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

From TD Peiris <tdpeiris@hpcetx.com>
Date Tue 4/29/2025 1:58 PM
To Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>

Andrew,

Please find the following items in the dropbox link below:

https://www.dropbox.com/scl/fo/lksdv9tvzqw6cef3mvg61/ADkBzsPGiPHucVXUSgbIsj8?rlkey=raiow6rs4k7dpv1b9jwznqk3i&st=qy080c6m&dl=0

- Attachment 10- Well map and well information
- Attachment 11- Groundwater Quality Assessment
- Attachment 13 - Soil analysis
- Attachment 14- Effluent monitoring data
- pages 33-35 of the technical report with the updated attachments references

We are still waiting on the lab to get the test results from the pollutant analysis. The samples were collected on April 23rd 2025. We should receive the results shortly and will submit them promptly upon receipt.

Please let me know if you have any questions.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

On Tue, Apr 22, 2025 at 11:02 AM Andrew Gorton <Andrew.Gorton@tceq.texas.gov> wrote:

👍 **Andrew Gorton** reacted to your message:

From: TD Peiris <tdpeiris@hpcetx.com>
Sent: Tuesday, April 22, 2025 2:10:35 PM
To: Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
Subject: Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

Thank you for the information. I will email you if I have any questions.

On Tue, Apr 22, 2025 at 9:09 AM Andrew Gorton <Andrew.Gorton@tceq.texas.gov> wrote:

> Good morning TD, I was out of the office on Friday and Monday, so am just seeing your message. I have attached 3 examples of a Groundwater Tech Report. They can be done in a page or less, but as long as it touches on the requirements I included in the comment memo last week, it should meet what we are looking for.
>
> Please contact me via email if you have any other questions.
>
> Thank you,
>
> -Andy
>
> Andrew Gorton, P.G.
> Texas Commission on Environmental Quality
> MC-150
> PO Box 13087
> Austin, TX 78711-3087
> 512.239.4585
> Andrew.Gorton@tceq.texas.gov
>
> ---
>
> **From:** TD Peiris <tdpeiris@hpcetx.com>
> **Sent:** Friday, April 18, 2025 2:51 PM
> **To:** Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
> **Subject:** Fwd: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
>
> Mr. Gorton,
>
> Please provide an example report for "Domestic Worksheet 3.0 – Groundwater Quality Assessment" so that we can provide all necessary information for the renewal application.
>
> Regards,
>
> **T.D.Peiris**
>
> 4537 Canyon Drive Amarillo, Texas 79110
>
> Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

---------- Forwarded message ---------
From: **Adolfo Garcia** <adolfog@hpcetx.com>
Date: Wed, Apr 16, 2025 at 9:03 AM
Subject: Fwd: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
To: TD Peiris <tdpeiris@hpcetx.com>

We have 14 days to respond to TCEQ about the permit renewal.

Adolfo Garcia, P.E.

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | Mobile 806.584.8707 | adolfog@hpcetx.com | www.hpcetx.com

---------- Forwarded message ---------
From: **Andrew Gorton** <Andrew.Gorton@tceq.texas.gov>
Date: Wed, Apr 16, 2025 at 8:56 AM
Subject: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
To: Address: <adolfog@hpcetx.com>
Cc: Sara Holmes <Sara.Holmes@tceq.texas.gov>

Good morning Mr. Garcia,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Therefore, you must send updated technically complete and accurate information within **14 days** (April 30, 2025) of the date of this email.

Any revisions can be sent electronically to me (WQA Team Geologist) or to Ms. Sara Holmes (WQA Team Agronomist). If you have any questions, please feel free to contact me or Sara (email is preferred).

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585
Andrew.Gorton@tceq.texas.gov

Outlook

Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

From TD Peiris <tdpeiris@hpcetx.com>
Date Wed 4/30/2025 8:31 AM
To Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>

Andrew,

The dropbox folder has been updated with the pollutant analysis of treated effluent (Attachment 7) and page 9 of the technical report, referring to attachment 7.

At this point all information requested by TCEQ has been submitted.

Please let me know if you have any questions or concerns.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

On Tue, Apr 29, 2025 at 2:16 PM Andrew Gorton <Andrew.Gorton@tceq.texas.gov> wrote:

> Thank you TD, Sara and I will take a look at what you sent and let you know if we need any additional information.
>
> Thank you,
>
> -Andy
>
> Andrew Gorton, P.G.
> Texas Commission on Environmental Quality
> MC-150
> PO Box 13087
> Austin, TX 78711-3087
> 512.239.4585
> Andrew.Gorton@tceq.texas.gov

From: TD Peiris <tdpeiris@hpcetx.com>
Sent: Tuesday, April 29, 2025 1:57 PM
To: Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
Subject: Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

Andrew,

Please find the following items in the dropbox link below:

https://www.dropbox.com/scl/fo/lksdv9tvzqw6cef3mvg61/ADkBzsPGiPHucVXUSgbIsj8?rlkey=raiow6rs4k7dpv1b9jwznqk3i&st=qy080c6m&dl=0

- Attachment 10- Well map and well information
- Attachment 11- Groundwater Quality Assessment
- Attachment 13 - Soil analysis
- Attachment 14- Effluent monitoring data
- pages 33-35 of the technical report with the updated attachments references

We are still waiting on the lab to get the test results from the pollutant analysis. The samples were collected on April 23rd 2025. We should receive the results shortly and will submit them promptly upon receipt.

Please let me know if you have any questions.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

On Tue, Apr 22, 2025 at 11:02 AM Andrew Gorton <Andrew.Gorton@tceq.texas.gov> wrote:

> 👍 **Andrew Gorton** reacted to your message:
>
> **From:** TD Peiris <tdpeiris@hpcetx.com>
> **Sent:** Tuesday, April 22, 2025 2:10:35 PM

To: Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
Subject: Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

Thank you for the information. I will email you if I have any questions.

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> Andrew Gorton, P.G.
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> Austin, TX 78711-3087
> 512.239.4585
> Andrew.Gorton@tceq.texas.gov

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Mr. Gorton,

Please provide an example report for "Domestic Worksheet 3.0 – Groundwater Quality Assessment" so that we can provide all necessary information for the renewal application.

Regards,

T.D.Peiris

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

HI-PLAINS
CIVIL ENGINEERS

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Date: Wed, Apr 16, 2025 at 9:03 AM
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Adolfo Garcia, P.E.

4537 Canyon Drive Amarillo, Texas 79110

Office: 806.353.7233 | Mobile 806.584.8707 | adolfog@hpcetx.com | www.hpcetx.com

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To: Address: <adolfog@hpcetx.com>
Cc: Sara Holmes <Sara.Holmes@tceq.texas.gov>

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Any revisions can be sent electronically to me (WQA Team Geologist) or to Ms. Sara Holmes (WQA Team Agronomist). If you have any questions, please feel free to contact me or Sara (email is preferred).

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585

Andrew.Gorton@tceq.texas.gov

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 49)

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 See Attachment 7

Pollutant	Average	Max	No. of	Sample	Sample

- 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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: 10

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

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

Table 3.0(3) – Water Well Data

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

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

Attachment: 10

Section 7. Groundwater Quality (Instructions Page 68)

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: 11

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: 11

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: 12

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: 13

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
PuA - Sherm clay loam	0 to 80inch	Saturated 0.06-0.2	High (about 9.7 inches)	84
RcA Darrouzett clay loam(0-1%)	0 to 72inch	Saturated 0.2-0.57	High (about 9.8 inches)	84
RcB-Darrouzett clay loam(1-3%)	0 to 72inch	Saturated 0.2-0.57	High (about 9.8 inches)	84
Re- Lazbuddie caly	0 to 80inch	Saturated 0.0-0.06	High(about 9.6 inches	88

Section 9. Effluent Monitoring Data (Instructions Page 70)

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
attachment 14						

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

Click to enter text.

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

Is the facility in operation?

☐ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	57	-	1	GRAB	4/23/25 8:20
Total Suspended Solids, mg/l	83	-	1	GRAB	4/23/25 8:20
Ammonia Nitrogen, mg/l	40.3	-	1	GRAB	4/23/25 8:20
Nitrate Nitrogen, mg/l	<0.40	-	1	GRAB	4/23/25 8:20

Total Kjeldahl Nitrogen, mg/l	52.6	-	1	GRAB	4/23/25 8:20
Sulfate, mg/l	76.1	-	1	GRAB	4/23/25 8:20
Chloride, mg/l	252	-	1	GRAB	4/23/25 8:20
Total Phosphorus, mg/l	6.19	-	1	GRAB	4/23/25 8:20
pH, standard units	7.8	-	1	GRAB	4/23/25 8:20
Dissolved Oxygen*, mg/l	6.1	-	1	GRAB	4/23/25 8:20
Chlorine Residual, mg/l	0.47	-	1	GRAB	4/23/25 8:20
E.coli (CFU/100ml) freshwater	1120	-	1	GRAB	4/23/25 8:20
Entercocci (CFU/100ml) saltwater	-	-	-	-	-
Total Dissolved Solids, mg/l	722	-	1	GRAB	4/23/25 8:20
Electrical Conductivity, µmohs/cm, †	1600	-	1	GRAB	4/23/25 8:20
Oil & Grease, mg/l	<7	-	1	GRAB	4/23/25 8:20
Alkalinity ($CaCO_3$)*, mg/l	344	-	1	GRAB	4/23/25 8:20

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Click to enter text.

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

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

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

☐ Design flow>= 1 MGD

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: Serissa Beck, EML

Title: General Manager

Signature: _____

Date: 4/30/25

ENVIRONMENTAL
MONITORING
LABORATORY , L.L.C

P.O. Box 477
6145 State Highway 171
Hillsboro, Texas 76645
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL REPORT 25042401

For:

City of Perryton

PO BOX 849
Perryton, Texas 79070

Sample Site: Renewal Analysis

Collected Date: 04/23/25

Lab Number: TX01547

Authorized for release by:
30-APR-25

Lisa Soward, Data Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory

ENVIRONMENTAL MONITORING LABORATORY , L.L.C

P.O. Box 477
6145 State Highway 171
Hillsboro, Texas 76645
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL RESULTS

Analytical Report: 25042401

Lab ID:	25042401-001	Collected Date:	04/23/25 08:20	Matrix:	Waste Water
Client:	City of Perryton	Received Date:	04/23/25 20:40	Temp at Receipt:	4 °C
Sample Site:	Renewal Analysis	Report Date:	04/29/25	Sample Collector:	SR

Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	NP	04/28/25 08:30	40.3	mg/L
Carbonaceous BOD	CBOD	SM 5210/B	NP	04/24/25 08:18	57	mg/L
Total Suspended Solids	TSS	SM 2540/D	NP/P	04/24/25 10:35	83	mg/L
pH	SM4500-H	SM4500/H	N	04/23/25 08:20	7.8	SU
Nitrate as N	E300.0	E 300.0	NP/P	04/24/25 07:25	<0.400	mg/L
Dissolved Oxygen	DO	SM 4500-O	N	04/23/25 08:20	6.1	mg/L
Total Phosphorus (as P)	T.PHOS.	SM 4500-P/E	NP	04/28/25 10:19	6.19	mg/L
Nitrogen, Total Kjeldahl	TKN	SM 4500-NH3/D	NP	04/28/25 13:43	52.6	mg/L
Total dissolved solids	SM2540C	SM 2540/C	NP/P	04/28/25 15:20	722.0	mg/L
Sulfate	E300.0	E 300.0	NP/P	04/24/25 07:48	76.1	mg/L
Chloride	Cl-	SM 4500-Cl-/B	NP	04/24/25 12:20	252	mg/L
Chlorine	SM4500-CL	SM4500-CL	NP	04/23/25 08:20	.47	mg/L
n-Hexane Extractable Material (HEM)	O&G	SM 5520/B	NP	04/28/25 11:52	<7.00	mg/L
Alkalinity, Total (CaCO3)	ALK	SM 2320/B	NP	04/24/25 11:35	344	mg/L
Conductivity @ 25C	Cond	SM 2510/B	NP	04/24/25 15:30	1600	umhos/cm

P: Potable water NP: Non Potable water N: Not Certified

Version 1.000 was revised to correct data entry error. 4/29/25 LS Version 1.001 was revised to correct data entry error in phosphorus batch. 4/30/25 LS

This report may not be reproduced, except in full and with written approval from Environmental Monitoring Laboratory, LLC.

Control #: 25042401

QUALITY ASSURANCE & QUALITY CONTROL

ANALYTE	ABBR./ ALT.NAME	STANDARD METHOD	UNITS	Quality Control S.D.	CV%	REC.1%	REC.2%	MDL/PQL	Q
Nitrate as N	E300.0	E 300.0	mg/L					0.400 / 0.400	
Sulfate	E300.0	E 300.0	mg/L					1.00 / 1.80	
Alkalinity, Total (CaCO3)	ALK	SM 2320/B	mg/L					1.50 / 5.00	
Chloride	Cl-	SM 4500-Cl-/B	mg/L	1.41	0.28	102	102	1.00 / 3.00	
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	mg/L	0.03	2.70	101.4	97	0.0300 / 0.100	
Nitrogen, Total Kjeldahl	TKN	SM 4500-NH3/D	mg/L	0.13	0.81	103.3	101.5	0.0200 / 0.120	
Total Phosphorus (as P)	T.PHOS.	SM 4500-P/E	mg/L	0.02	0.48	93.9	93.3	.02 / .05	
n-Hexane Extractable Material (HEM)	O&G	SM 5520/B	mg/L	.21	.21	100.2	100.0	7.00 / 7.00	
Chemical Oxygen Demand	COD	SM 5220/D	mg/L						
Turbidity	TURB.	SM 2130/B	NTUs						
Total Percent Solids	%d.w	SM 2540/G	%						N

Biochemical Oxygen Demand(BOD)
Carbonaceous Biochemical Oxygen Demand(CBOD)
Method: SM 5210/B

Results	Units	Description
0.12	mg/L	Blank 1 - CBOD
0.14	mg/L	Blank 2 - CBOD
0.18	mg/L	Blank 3 - CBOD
172	mg/L	G/GA Std 1 - CBOD
171	mg/L	G/GA Std 2 - CBOD
171	mg/L	G/GA Std 3 - CBOD
171	mg/L	**G/GA Average - CBOD**
0.73	mg/L	Seed Corr/mL - CBOD
0.72	mg/L	Seed Corr/mL - CBOD
0.71	mg/L	Seed Corr/mL - CBOD
0.72	mg/L	**Seed Corr Average - CBOD**

Dissolved Oxygen
Method: SM 4500-O*/G

Results	Units	Description
8.88	mg/L	Set Up Calibration
8.88	mg/L	Read Off Calibration
20	°C	Set Up Temperature
20	°C	Read Off Temperature
759	mm Hg	Set Up Barometer
759	mm Hg	Read Off Barometer

Fecal Coliform
Method: SM9222 /D MF

Results	Units	Description
	CFU/100ml	Pre Blank
	CFU/100ml	Post Blank

TDS by SM2540/C

Results	Units	Description
0	mg/L	Blank

E. coli By IDEXX Colilert (enumeration)

MPN/100 mL

Total Suspended Solids (TSS, MLSS)
Method: 2540/D

Results	Units	Description
0	mg/L	Blank 1
0.3	mg/L	Blank 2
0.1	mg/L	Blank 3
0	mg/L	Blank 4
0	%	Relative % Difference
2.6	%	Relative % Difference
3.61	%	Relative % Difference
3.33	%	Relative % Difference
3.64	%	Relative % Difference
0	%	Relative % Difference
0	%	Relative % Difference
0	%	Relative % Difference
2.05	%	Relative % Difference

Conductivity @ 25° C
Method: SM2510/B
Standards ran for each analytical batch.

Results	Units	Description
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard

Report Out Date: 04/30/2025

Lisa Soward
Data Manager

Final 1.002

QUALITY ASSURANCE & QUALITY CONTROL

Standard Method E 300.0

Matrix Waste Water

Batch Number 80942

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80942-1-LCS	Nitrate as N	8.02 mg/L		8.00 mg/L	100%	90-110%		0-20%	
80942-1-LCSD	Nitrate as N	8.02 mg/L		8.00 mg/L	100%	90-110%	0%	0-20%	
80942-1-UNS	Nitrate as N	0.150 mg/L			0%	90-110%		0-20%	
25042252-001 S	Nitrate as N	8.07 mg/L	0.150 mg/L	8.00 mg/L	99 %	80-120%		0-20%	
25042252-001 SD	Nitrate as N	8.08 mg/L	0.150 mg/L	8.00 mg/L	99 %	80-120%	0%	0-20%	

Standard Method E 300.0

Matrix Waste Water

Batch Number 80944

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80944-1-LCS	Sulfate	15.2 mg/L		15.0 mg/L	101%	90-110%		0-20%	
80944-1-LCSD	Sulfate	15.1 mg/L		15.0 mg/L	101%	90-110%	1%	0-20%	
80944-1-UNS	Sulfate	7.28 mg/L			0%	90-110%		0-20%	
25042294-001 S	Sulfate	22.0 mg/L	7.28 mg/L	15.0 mg/L	98 %	80-120%		0-20%	
25042294-001 SD	Sulfate	22.0 mg/L	7.28 mg/L	15.0 mg/L	98 %	80-120%	0%	0-20%	

Standard Method SM 2540/D

Matrix Waste Water

Batch Number 80958

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80958-1-MB	Total Suspended Solids	<1.000 mg/L				80-120%		0-10%	
80958-2-MB	Total Suspended Solids	0.3000 mg/L			0%	80-120%		0-10%	
80958-3-MB	Total Suspended Solids	0.1000 mg/L			0%	80-120%		0-10%	
80958-4-MB	Total Suspended Solids	<1.000 mg/L			0%	80-120%		0-10%	

QUALITY ASSURANCE & QUALITY CONTROL

Standard Method SM 5210/B

Matrix Waste Water

Batch Number 80959

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80959-1-BKS01	Carbonaceous BOD	172 mg/L		198 mg/L	87%	85-115%		0-25%	
80959-2-BKS02	Carbonaceous BOD	171 mg/L		198 mg/L	86%	85-115%		0-25%	
80959-3-BKS03	Carbonaceous BOD	171 mg/L		198 mg/L	86%	85-115%		0-25%	
80959-4-BKS04	Carbonaceous BOD	171 mg/L		198 mg/L	86%	85-115%		0-25%	
80959-1-BLK01	Carbonaceous BOD	0.120 mg/L			0%	85-115%		0-25%	
80959-2-BLK02	Carbonaceous BOD	0.140 mg/L			0%	85-115%		0-25%	
80959-3-BLK03	Carbonaceous BOD	0.180 mg/L			0%	85-115%		0-25%	

Standard Method SM 2540/C

Matrix Waste Water

Batch Number 81006

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
81006-1-MB	Total dissolved solids	< mg/L			0%	80-120%		0-10%	

Environmental Monitoring Laboratory ◆ P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 ◆ Phone: (254) 582-2622

TCEQ Lab ID: T104704247 EPA Lab ID: TX01547

Panhandle Division 13260 South US Hwy 287 Amarillo, Texas 79118 Office: 806-335-9393 Emergency: 806-786-0612

Southwest Division 811 E. Young Street Llano, Texas 78643 Office: 325-247-3295 Emergency: 254-582-2622

East Texas Division 14295 S.H. 155 North Winona, Texas 75792 Office: 903-877-9222 Emergency: 817-357-6535

Coastal Division 34 East Ave., Schulenburg, Texas 78956 Office: 979-743-7010 Emergency: 254-221-3201

Purchase Order / Chain of Custody

CL2

0.47

Report To: City of Perryton	Report To: (Buyer)
Company: City of Perryton	Purchase Order #:
City of Perryton P.O. Box 849 Perryton, TX 79070	Address:
Phone: Fax:	Phone: Fax:
Project Name:	Quote #:
Project Location: WWTP	City, State:
Date Due: Rush: 0% 25% 50% 100%	Sampler: (Please Print) Gregory Willis

2504240

Lab#	Client Sample ID	Matrix	Date	Time	*Pres. Code	‡ Bottle Code	(CBOD) / BOD	TSS, TDS	pH 7.81	DO 6.11	NH3N (pH<2.0, H_2SO_4) SM4500-NH3 D or G unless specified TKN, TOT PHOS	FECAL COLIFORM / E.COLI (Sterile)	MLSS	ALKALINITY, CHLORIDE, CONDUCTI	OIL & GREASE	NITRATE, SULFATE		Sample Remarks
250424 01	1.Renewal Analysis	WW	4-23-25	0820	1	1	X	X	X	X								
	2.				2	1					X							
	3.				1	1								X				
	4.				2	2									X			
	5.				1	1										X		
	6.																	
	7.																	
	8.																	
	9.																	
	10.																	

Relinquished By:	Date	Time	Received By:	Date	Time
1.	4-23-25	1200	1.	4/23/25	1200
2.	4/23/25	2040	2.	4/23/25	2040
3.			3.		
4.			4.		

COOLER ID: FR467
ICE: YES NO
Temperature: 4

* Preservation Codes: 1. None 2. Sulfuric 3. Nitric 4. NaOH + ZnAc 5. NaOH 6. Sterile + Thosulfate

‡ Bottle Codes: 1. Plastic 2. Glass + Tef. 3. 40 ml VOA

Complete sample information is vital for proper login and reporting. EML may need to subcontract some analyses due to equipment or procedural limitations.

Check us out on the web: http://www.yourwaterlab.com **Email us at: homeoffice@yourwaterlab.com**

Revised 06/2024

ENVIRONMENTAL
MONITORING
LABORATORY , L.L.C

Panhandle Division
13260 South Highway 287
Amarillo, TX 79118-7005
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL REPORT 25042414

For:

City of Perryton

PO BOX 849
Perryton, Texas 79070

Sample Site: Renewal Analysis

Collected Date: 04/23/25

Lab Number: TX01547

Authorized for release by:
28-APR-25

Lisa Soward, Data Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory

ENVIRONMENTAL MONITORING LABORATORY , L.L.C

Panhandle Division
13260 South Highway 287
Amarillo, TX 79118-7005
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL RESULTS

Analytical Report: 25042414

Lab ID: 25042414-001
Client: City of Perryton
Sample Site: Renewal Analysis

Collected Date: 04/23/25 08:20
Received Date: 04/23/25 10:20
Report Date: 04/28/25

Matrix: Waste Water
Temp at Receipt: 6 °C
Sample Collector: GW

Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
E. coli	*E. coli*	IDEXX Colilert	NP	04/23/25 10:21	1120	MPN/100 mL

P: Potable water NP: Non Potable water N: Not Certified

This report may not be reproduced, except in full and with written approval from Environmental Monitoring Laboratory, LLC.

Control #: 25042414

QUALITY ASSURANCE & QUALITY CONTROL

ANALYTE	ABBR./ ALT.NAME	STANDARD METHOD	UNITS	Quality Control S.D.	CV%	REC.1%	REC.2%	MDL/PQL	Q
Chloride	Cl-	SM 4500-Cl-/B	mg/L						
Alkalinity	ALK	SM 2320/B	mg/L						
Total Phosphorus	T.PHOS.	SM 4500-P/E	mg/L						
Total Kjeldahl Nitrogen	TKN	SM 4500-NH3/D	mg/L						
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	mg/L						
Oil & Grease	O&G	SM 5520/B	mg/L						
Chemical Oxygen Demand	COD	SM 5220/D	mg/L						
Turbidity	TURB.	SM 2130/B	NTUs						
Total Percent Solids	%d.w	SM 2540/G	%						N

Biochemical Oxygen Demand(BOD)
Carbonaceous Biochemical Oxygen Demand(CBOD)
Method: SM 5210/B

Results	Units	Description

Dissolved Oxygen
Method: SM 4500-O*/G

Results	Units	Description
	mg/L	Set Up Calibration
	mg/L	Read Off Calibration
	°C	Set Up Temperature
	°C	Read Off Temperature
	mm Hg	Set Up Barometer
	mm Hg	Read Off Barometer

Fecal Coliform
Method: SM9222 /D MF

Results	Units	Description
	CFU/100ml	Pre Blank
	CFU/100ml	Post Blank

TDS by SM2540/C

Results	Units	Description
	mg/L	Blank

E. coli By IDEXX Colilert (enumeration)

MPN/100 mL

Total Suspended Solids (TSS, MLSS)
Method: 2540/D

Results	Units	Description

Conductivity @ 25° C
Method: SM2510/B
Standards ran for each analytical batch.

Results	Units	Description
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard

Report Out Date: 04/28/2025

Lisa Soward
Data Manager

Final 1.000

Environmental Monitoring Laboratory ◆ P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 ◆ Phone: (254) 582-2622

Purchase Order / Chain of Custody

TCEQ Lab ID: T104704247

Panhandle Division
13260 South US Hwy 287 Amarillo, Texas 79118
Office: 806-335-9393 Emergency: 806-786-0612

Southwest Division
811 E. Young Street Llano, Texas 78643
Office: 325-247-3295 Emergency: 254-582-2622

East Texas Division
14295 S.H. 155 North Winona, Texas 75792
Office: 903-877-9222 Emergency: 817-357-6535

EPA Lab ID: TX01547

Coastal Division
34 East Ave., Schulenburg, Texas 78956
Office: 979-743-7010 Emergency: 254-221-3201

Report To: City of Perryton	Report To: (Buyer)
Company: City of Perryton	Purchase Order #:
City of Perryton P.O. Box 849 Perryton, TX 79070	Address:
Phone: Fax:	Phone: Fax:
Project Name:	Quote #:
Project Location: WWTP	City, State:
Date Due: Rush: 0% 25% 50% 100%	Sampler: (Please Print) Gregory Willis

25042414

Lab#	Client Sample ID	Matrix	Date	Time	*Pres. Code	†Bottle Code	CBOD / BOD	TSS, TDS	pH	DO	NH3N (pH<2.0, H_2SO_4) SM4500-NH3 D or G unless specified TKN, TOT PHOS	FECAL COLIFORM / E.COLI (Sterile)	MLSS	ALKALINITY, CHLORIDE, CONDUCTI	OIL & GREASE	NITRATE, SULFATE		Sample Remarks
2504214	1.Renewal Analysis	WW	4-23-25	0820	6	1						X						
	2.																	
	3.																	
	4.																	
	5.																	
	6.																	
	7.																	
	8.																	
	9.																	
	10.																	

ANALYSES REQUESTED

NOTES:

Analyzed in Amarillo Location of
Environmental Monitoring Laboratory, LLC
13260 South US Highway 287
Amarillo TX 79118-7005

Relinquished By:	Date	Time	Received By:	Date	Time
1.	4-23-25	1020	1 Audrey Craig	04/23/25	1020
2.			2.		
3.			3.		
4.			4.		

COOLER ID: IR #004
Ice: YES NO
Temperature: 2.0

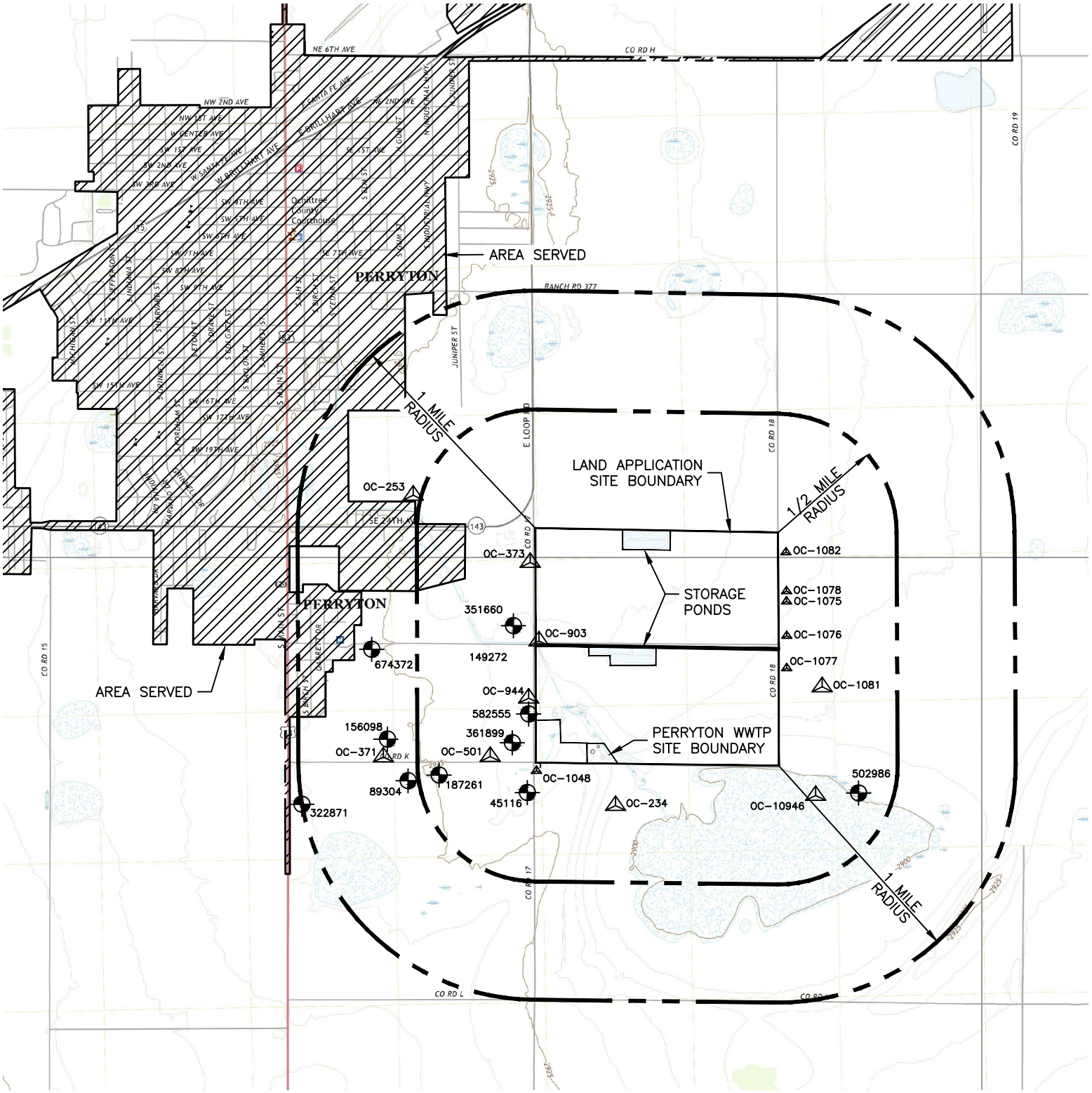
* Preservation Codes:
1. None
2. Sulfuric
3. Nitric
4. NaOH + ZnAc
5. NaOH
6. Sterile + Thosulfate

† Bottle Codes:
1. Plastic
2. Glass + Tef.
3. 40 ml VOA

Complete sample information is vital for proper login and reporting. EML may need to subcontract some analyses due to equipment or procedural limitations.

Check us out on the web: http://www.yourwaterlab.com **Email us at: homeoffice@yourwaterlab.com**

Revised 06/2024



LEGEND

OC–234 WELL NUMBER

WELL LOCATIONS TAKEN FROM GPS COORDINATES OR PHYSICAL DESCRIPTIONS PROVIDED IN ONE OF THE FOLLOWING REPORTS.

△ NORTH PLAINS WATER CONSERVATION DISTRICT NO. 2

⊕ STATE OF TEXAS WELL REPORT

N

(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL WORKSHEET 3.0

WELL LOCATIONS - ½ MILE & 1 MILE RADIUS

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=3,000'

FIGURE: #8

Table 3.03

Well ID	Well Use	Producing ?Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
OC-0253	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-0373	livestock	Y	Open & Cased	Private maintenance
351660	Domestic	Y	Open & Cased	Private maintenance
OC-0903	Municipal	Y	Open & Cased	Maintain as public water well
674372	Domestic	Y	Open & Cased	Private maintenance
156098	Domestic	Y	Open & Cased	Private maintenance
OC-0371	irrigation	N	Open, cased, & Capped	Maintain for possible future use
149272	Domestic	Y	Open & Cased	Private maintenance
582555	Municipal	Y	Open & Cased	Maintain as public water well
OC-0944	Municipal	N	Plugged and abandoned	None
361899	Domestic	Y	Open & Cased	Private maintenance
OC-1048	Municipal	Y	Open & Cased	Maintain as public water well
OC-0501	Municipal	Y	Open & Cased	Maintain as public water well
45116	Stock	Y	Open & Cased	Private maintenance
OC-0234	Municipal	Y	Open & Cased	Maintain as public water well
OC-1353	Domestic	Y	Open & Cased	Private maintenance
89304	Domestic	Y	Open & Cased	Private maintenance
OC-10946	Irrigation	Y	Open & Cased	Private maintenance
OC-1081	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-1077	Domestic	Y	Open & Cased	Private maintenance
OC-1076	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-1075	Irrigation	N	Open, cased, & Capped	Maintain for possible future use

Well ID	Well Use	Producing ?Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
OC-1078	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-1082	Industrial	N	Open, cased, & Capped	Maintain for possible future use
502986	Test well	N	Plugged and abandoned	None

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) D

Requested new classification UNUSED

I WRED Wright Trust do hereby certify that Well No. OC-0253 located in Schlitree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1013, Block 45 43, Survey SPRR H&TC will not be operated to exceed the actual pumping capacity of 0 GPM, and meets the spacing requirements of 0 yards from the nearest existing well or authorized well site and other rules of the District for a UNUSED Classification Well.

James T Wright, Trustee
Signature (Owner/Agent)

Mar 20 2006
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 1094

FOR USE OF COMMITTEEMEN

Field Well No. O-253

Date Received 3/12/62

Size of Well 8 in. Maximum Yield 1000 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner W. R. (Ray) Wright Address Box 266 Perryton, Texas

2. Well located _____ miles N, ½ miles S, ½ miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ (SW¼) SE¼ (CIRCLE ONE) Section 1013 Block 43 Survey H & T C

5. ACTUAL LOCATION OF THIS WELL IS { 233 measured yards from N or S section line. / 870 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Roatry

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	240	surface			
240	314	coarse sand & gravel			
314	347	clay			
347	364	clay, streaks coarse sand			
364	378	solid clay			
378	394	fine sand, streaks solid clay			
394	440	medium to coarse sand, thin streaks clay			
440	465	clean & loose coarse sand			
465	478	clay, streaks coarse sand			
478	522	coarse sand, clean & loose			
522	540	red clay, coarse sand mixed with hard rock			
540		hard rock			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller W. D. Jones Drilling Co., Inc Address Dumas, Texas Date Drilled 7-14-62 195__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter 16" in. Total length 538.35 ft.

7. Casing perforations: from 260 ft to 540 ft. Size 5/32. Number per foot 16.

8. Pump Column: Size ~~10~~ 8 in. Total length 400 ft. Suction pipe: Size 8 in. Length 3 ft.

9. Pump bowls: Size 10". Number of stages 7. Pump discharge pipe: Size 8 in.

10. Depth to water level 232.47 ft. Pump discharge 900 GPM. Pumping level: 315 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower _____.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

Ckt 528

RECEIVED AUG 8 1962

2 FORM NO. 255

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

Original—District Office Copy

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

FIELD WELL NO. O-253
DATE APPLICATION FILLED OUT 3/12/62
DATE APPROVED BY COUNTY COMMITTEE _____
SIZE OF WELL 8" MAXIMUM YIELD 1000 GPM

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committeeman for approval. (PLEASE TYPE or PRINT.)

I, W. R. Ray Wright, Box 266, Perryton, Texas
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. ~~NW¼, NE¼~~, SW¼, ~~SE¼~~ of Section 1013 Block 43
Survey H. & T. C.

3. Labor _____ League _____

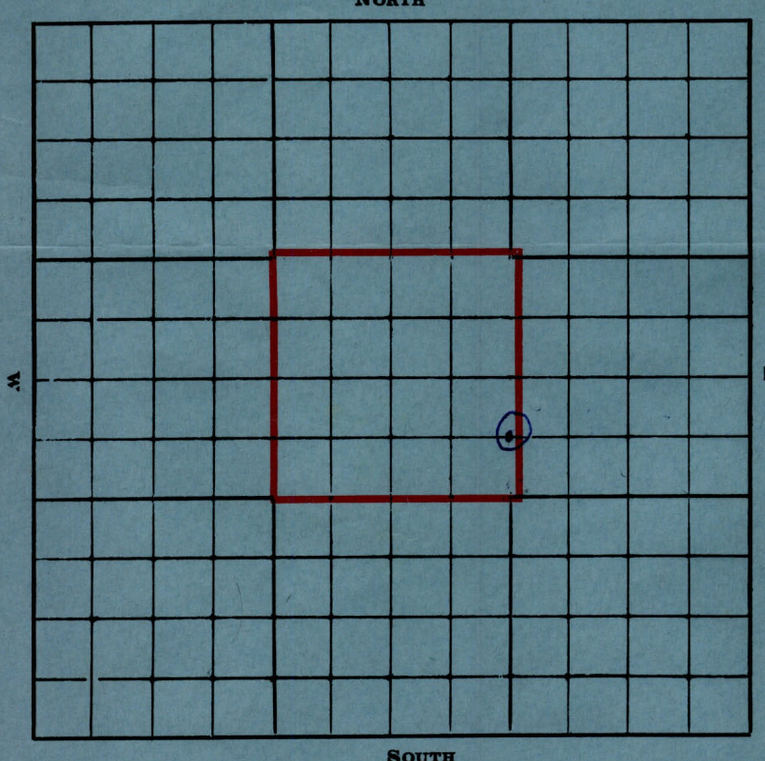
4. Proposed Use (Municipal-Industrial-Irrigation)
MARK OUT ONES THAT DO NOT APPLY

5. Drilling to start about April 15, , 19 62

This well will be 1/2 miles ~~N~~ or S and 1/2
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of Perryton, Texas
MARK OUT ONE THAT DOES NOT APPLY

This Permit Good for 120 Days Only from Date of Approval

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section or 1 labor.
MARK X, showing 3 closest wells, and or applications.



Please Make Sure Your Measurements are Corerct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

233 measured yards from (~~N~~ S) ~~property~~ Section line and
MARK OUT ONE THAT DOES NOT APPLY

870 measured yards from (E ~~W~~) ~~property~~ Section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells, and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: W. R. Wright
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Roger Pearson 2. Roy Stallings 3. Bill Pletcher

SMITH PRINTING CO - DIAL PO5-9619 LUBBOCK

Dist. 2 Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. D-373
Date Received 7-15-64
Size of Well 8" in. Maximum Yield _____ GPM

1. Well Owner George Swingle Address Delbert Trew - Route 2 20 N. Highland - Mt. Vernon, Ill
2. Well located _____ miles N, 3/4 miles S, 2 1/4 miles E, _____ miles W of the town of Perryton
3. County Ochiltree League _____
4. NW¼ (NE¼) SW¼ SE¼ (CIRCLE ONE) Section 1012 Block 43 Survey H+TC
5. ACTUAL LOCATION OF THIS WELL IS { 233 measured yards from N or S section line. / 26 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	229	Over burden			
229	280	Medium To Coarse			
280	290	solid yellow Clay			
290	312	COARSE Sand			
312	325	Brown Clay			
325	350	Fine Sand			
350	440	COARSE Sand (Fairly tight)			
440	450	Sand & Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Ballew Address Perryton Date Drilled 8-18 1964

DESCRIPTION OF WELL

6. Casing: (new) used, or shop made. Diameter 16 in. Total length 450 ft.
7. Casing perforations: from 288 ft to 450 ft. Size 1/8 x 3. Number per foot 16.
8. Pump Column: Size 6 in. Total length 419 ft. Suction pipe: Size 6 in. Length 6 ft.
9. Pump bowls: Size _____. Number of stages 7. Pump discharge pipe: Size 6" in.
10. Depth to water level 265 ft. Pump discharge _____ GPM. Pumping level: _____ ft.
11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 145.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

k 2266

6-21-66

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-373
TIME: 9:45 AM.
DATE APPLICATION FILLED OUT 7/15/64
DATE APPROVED BY COUNTY COMMITTEE
SIZE OF WELL 8" MAXIMUM YIELD GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

DELBERT TREW - ROUTE 2

I, GEORGE SWINGLE
NAME OF LANDOWNER

20 N HIGHLAND - MOUNT VERNON ILL
LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County OCHILTREE

2. ~~NW¼~~, NE¼, SW¼, SE¼ of Section 1012 Block 43
Survey H+TC

3. League _____

Permit good for 120 days only from date of approval.

4. Proposed Use (Municipal-Industrial-~~Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

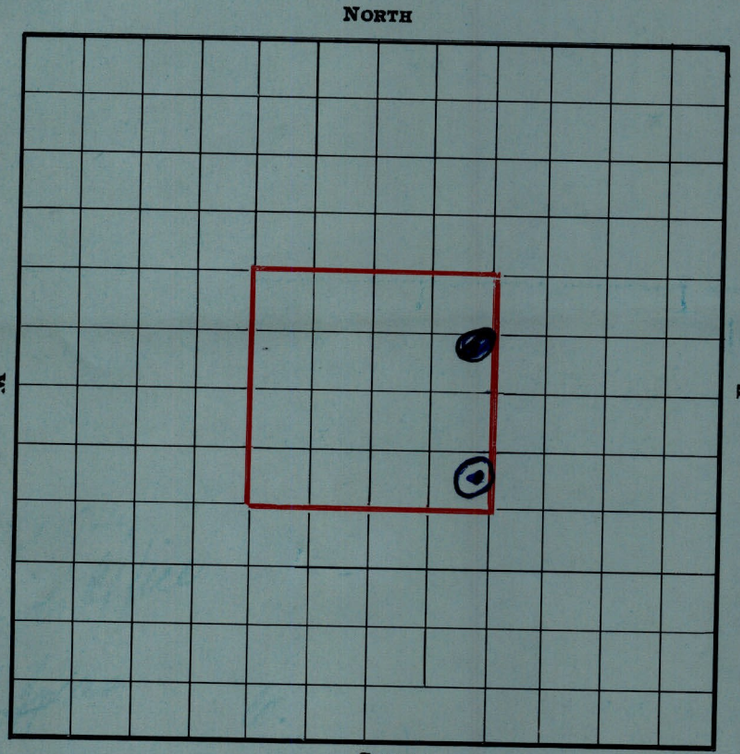
5. Drilling to start about JULY 15, 1964

6. Drillers name JEAN BALLEW

This well will be 3/4 miles N or ~~S~~ and 1/4 miles ~~E~~ or W of the town of PERRYTON
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
~~333~~ measured yards from ~~N~~ S section line and
MARK OUT ONE THAT DOES NOT APPLY
~~N~~ 26 measured yards from ~~E~~ W section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 550 measured yards from proposed well.
Owned by RAY WRIGHT
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 _____ measured yards from proposed well.
Owned by _____
Address _____

COMMENT Recognizing City water right 600 yards away

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: George Swingle
SIGNATURE (OWNER OR AGENT) TITLE ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Dean Slaughter 2. Ray Stallings 3. Bill Fletcher

SMITH PRINTING CO · DIAL PO5-9819 LUBBOCK

STATE OF TEXAS WELL REPORT for Tracking #351660

Owner:	**Cole Stanley Builders**	Owner Well #:	**No Data**
Address:	**6666 Amarillo Blvd West Amarillo, TX 79106**	Grid #:	**04-42-3**
Well Location:	**14247 Co Rd 17 Perryton, TX 79070**	Latitude:	**36° 22' 15" N**
		Longitude:	**100° 47' 08" W**
Well County:	**Ochiltree**	Elevation:	**No Data**

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

Drilling Start Date: **11/10/2013** Drilling End Date: **11/10/2013**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**495**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**22**	**495**	**Gravel**	**8/16**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**2**	**22**	**5 cement**

Seal Method: **mixed**

Sealed By: **Mark**

Distance to Property Line (ft.): **50+**

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

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

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **286 ft.** below land surface on **2013-11-10** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 18 GPM with 0 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: **K- Ran Drilling**

5230 Hester
Amarillo, TX 79124

Driller Name: **Mark Randall** License Number: **2848**

Apprentice Name: **Lupe Limas** Apprentice Number: **57597**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**top soil**
5	**11**	**calliche**
11	**26**	**brown clay**
26	**87**	**light brown clay**
87	**129**	**white sandy clay**
129	**197**	**brown sandy clay**
197	**354**	**light brown sand with small gravel**
354	**389**	**light brown sand with small gravel**
389	**424**	**light brown sandy clay with s/s**
424	**482**	**light brown sand & gravel**
482	**495**	**red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 new pvc 0-285 200 cl
5 new pvc 285-425 250 cl
5 new perf .035 425-485 200 cl
10' blank on bottom

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 6141

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. O-903
Date Received
Size of Well 6 in. Maximum Yield GPM

1. Well Owner City of Perryton Address Box 849 Perryton
2. Well located ___ miles N, 2 miles S, 1 miles E, ___ miles W of the town of Perryton
3. County Ochiltree League
4. (NW¼) NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1011 Block 43 Survey H T&C
5. ACTUAL LOCATION OF THIS WELL IS { 840 measured yards from N or [redacted] section line. / 25 measured yards from [redacted] W section line.

DRILLER'S LOG OF WELL

Method of Drilling:

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
+2	3	Top Soil	520	537	Sand and Red Bed
3	30	Caliche and Clay			
30	170	Clay			
170	200	Clay and Some Rock			
200	230	Clay and Some Sand			
230	260	Slay and Sand, Sandy Clay			
260	320	Clay, Sand, and Gravel			
320	410	Sand and Clay			
410	440	Sand, Clay, and Gravel			
440	520	Sand and Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Water Industries, Inc. Address 212 E. New York St. Date Drilled 6-28- 1974

DESCRIPTION OF WELL

6. Casing: new, ~~used, or shop made~~ Diameter 16 in. Total length 537 ft.
7. Casing perforations: from 277 ft to 535 ft. Size 1/8. Number per foot 33.
8. Pump Column: Size 6 in. Total length 480 ft. Suction pipe: Size 6 in. Length 5 ft.
9. Pump bowls: Size 10. Number of stages 11. Pump discharge pipe: Size 6 in.
10. Depth to water level 304 ft. Pump discharge 500 GPM. Pumping level: 415 ft.
11. Power Unit: Electrical, ~~Natural Gas, Butane, Other~~ . Horsepower 75.

Signature CITY OF PERRYTON By Bud Stone (OWNER OR AGENT) City Engineer (TITLE) Box 849 Perryton, Tex. (ADDRESS)

Final Completion of Well — Date Sept 6, 1974.

Dpst Rpt Ck# 4214 9/13/74

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-903
TIME: 2:30
DATE APPLICATION FILLED OUT 10-12-73
SIZE OF WELL 8 MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton (NAME OF LANDOWNER) Box 841 Perryton, Texas (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. (NW¼), NE¼, SW¼, SE¼ of Section 101 Block 43

Survey H T + C

3. League _____

Permit good for 120 days only

4. Proposed Use (Municipal-~~Industrial-Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

5. Drilling to start about _____, 19____

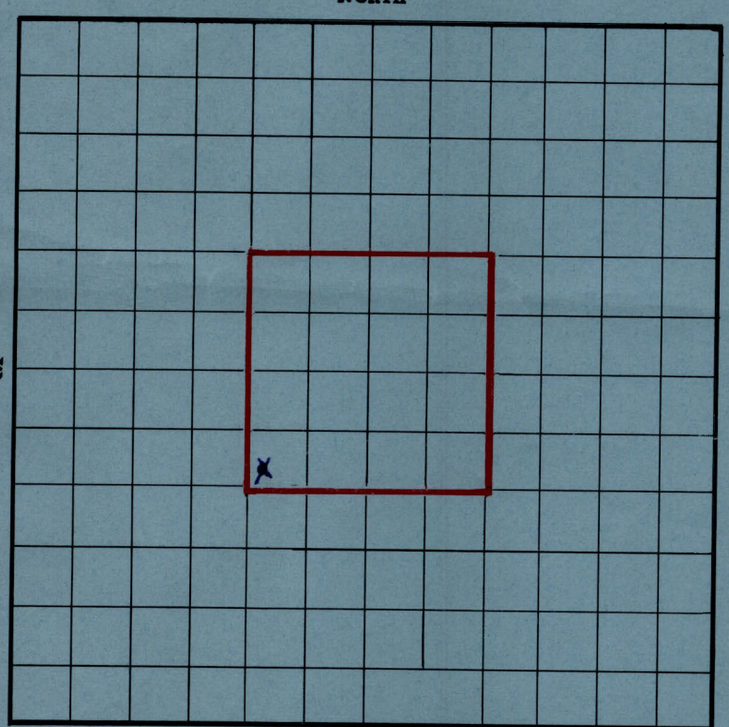
6. Drillers name _____

This well will be 2 miles ~~N~~ S ~~or S~~ and 1
MARK OUT ONE THAT DOES NOT APPLY
miles ~~E~~ W of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ◎ within Red Square for proposed well location. (Red square indicates 1 quarter section)

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct—They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

~~845~~ 840 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
~~29~~ 25 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: CITY OF PERRYTON By Ben D Stone (SIGNATURE (OWNER OR AGENT)) CITY ENGINEER (TITLE) Box 849 PERRYTON (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. Bill Blitchey 2. Edgar W Cook 3. John Daniel

SMITH PRINTING CO · DIAL PO5-9619 LUBBOCK

4

NORTHPLAINS GROUNDWATER

METER INSPECTIONS

OC-0903

WELL NUMBER: Perry #9

QUARTER: NW

SECTION: 1011

BLOCK: 43

SURVEY: H+TC

LAT: 36.36987

LONG: 100.78376

METER NUMBER: 942595-6

METER SIZE: 6"

METER READING: 804710

READING MULTIPLIER: x100

METER LOCATION: At well

STATE OF TEXAS WELL REPORT for Tracking #674372

Owner:	**TRENT MCKINLEY**	Owner Well #:	**1**
Address:	**PO BOX 4 PERRYTON, TX 79070**	Grid #:	**04-42-2**
Well Location:	**1012-43-H & TC SURVEY OCHILTREE COUNTY,TX PERRYTON, TX**	Latitude:	**36° 22' 09.8" N**
		Longitude:	**100° 47' 47.52" W**
	PERRYTON,TX: INT OF ROAD K AND HWY 83: EAST 1 MILE TO CO RD 17, NORTH .5 MILE, WEST .65 MILE TO CURVE,SOUTHWEST .05 MILE	Elevation:	**2930 ft. above sea level**
Well County:	**Ochiltree**		

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

Drilling Start Date: **7/8/2024** Drilling End Date: **7/8/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9.75	**0**	**380**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
150	**380**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement**

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: **350 ft.** below land surface on **2024-07-12**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 10 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
350	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRILLING COMPANY**

PO BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**TOPSOIL**
3	**35**	**BROWN CLAY**
35	**120**	**SANDY CLAY**
120	**185**	**FINE SAND**
185	**285**	**RED SAND**
285	**295**	**FINE SAND**
295	**310**	**TAN CLAY**
310	**330**	**SANDY CLAY**
330	**340**	**RED SAND**
340	**380**	**RED CLAY**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**Blank**	**New Plastic (PVC)**		**-2**	**300**
5	**Screen**	**New Plastic (PVC)**		**300**	**340**
5	**Blank**	**New Plastic (PVC)**		**340**	**360**
5	**Screen**	**New Plastic (PVC)**		**360**	**380**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #156098

Owner:	**DAVID POND**	Owner Well #:	**100808**
Address:	**402 S. COLGATE PERRYTON, TX 79070**	Grid #:	**04-42-2**
Well Location:	**SEC 1012 BLK 43 SURVEY H&TC PERRYTON, TX 79070**	Latitude:	**36° 21' 50" N**
		Longitude:	**100° 47' 43" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/8/2008** Drilling End Date: **10/8/2008**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**435**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
20	**435**	**Gravel**	**#1 fine**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
20	**20**	**5**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **296 ft.** below land surface on **2008-10-08** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 17 GPM after 1.5 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: **LES TAYLOR DRILLING**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**300**	**surface caliche clay & sand**
300	**340**	**med sand w/clay strips**
340	**380**	**med sand w/clay strips**
380	**420**	**med sand w/small clay strips**
420	**435**	**sand clay & red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 N STEEL +2 -3
5 N PVC -3 345
5 N PERFS 345 425 .050
5 N PVC 425 435

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

8

Well Reclassification

Current size or classification (as per permit or log) D

Requested new classification Unused

I City of Perry for do hereby certify that Well No. DC-0371 located in Ochiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1012, Block H3, Survey H+TC will not be operated to exceed the actual pumping capacity of ~~0~~ GPM, and meets the spacing requirements of ~~0~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Richard Collins
Signature (Owner/Agent)

11-21-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 3218

FOR USE OF COMMITTEEMEN	
Field Well No.	O-371
Date Received	
Size of Well	8¼ in.
Maximum Yield	GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner Addison Cutter Address 6405 Royal Lane Dallas 30

2. Well located ____ miles N, 1 miles S, ½ miles E, ____ miles W of the town of Perryton

3. County Ochiltree League ____

4. NW¼ NE¼ (SW¼) SE¼ (CIRCLE ONE) Section 1012 Block 43 Survey H&TC Ry Co

5. ACTUAL LOCATION OF THIS WELL IS { 32 measured yards from N or (S) section line. / 658 measured yards from (W) or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	206	Caliche & Clay			
206	229	Tight sand			
229	290	Good water sand			
290	321	Water sand w/ clay streaks			
321	410	Course water sands			
410	436	Brown clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Jim Ballew Address Box 538 Perryton, Tx Date Drilled July 15, 1954

DESCRIPTION OF WELL

6. Casing: new, ~~used, or shop made~~. Diameter 16 x 250" in. Total length 417 ft.

7. Casing perforations: from 297 ft to 417 ft. Size 1/8". Number per foot @ 16.

8. Pump Column: Size 8 in. Total length 407 ft. Suction pipe: Size 8" in. Length 10' ft.

9. Pump bowls: Size 10. Number of stages 9. Pump discharge pipe: Size 8 in.

10. Depth to water level 262 ft. Pump discharge 800 GPM. Pumping level: 386 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other Natural Gas. Horsepower 148.

Signature Delbert Dew (OWNER OR AGENT) Assistant (TITLE) Rt 1 Box 103 (ADDRESS)

Final Completion of Well — Date 7/20/64, 19____.

CR 1558

RECEIVED OCT 13 1964

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-371
TIME: 8:45
DATE APPLICATION FILLED OUT 7-13-64
DATE APPROVED BY COUNTY COMMITTEE _____
SIZE OF WELL 8" MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, Addison Cutter _____ 6405 Royal Lane Dallas 30, Tex
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. NW¼, NE¼, SW¼, SE¼ of Section 1012 Block 43
Survey H+TC Ry Co

3. League _____

Permit good for 120 days only from date of approval.

4. Proposed Use (~~Municipal~~ ~~Industrial~~-Irrigation)
MARK OUT ONES THAT DO NOT APPLY

5. Drilling to start about 7-30, 19 64

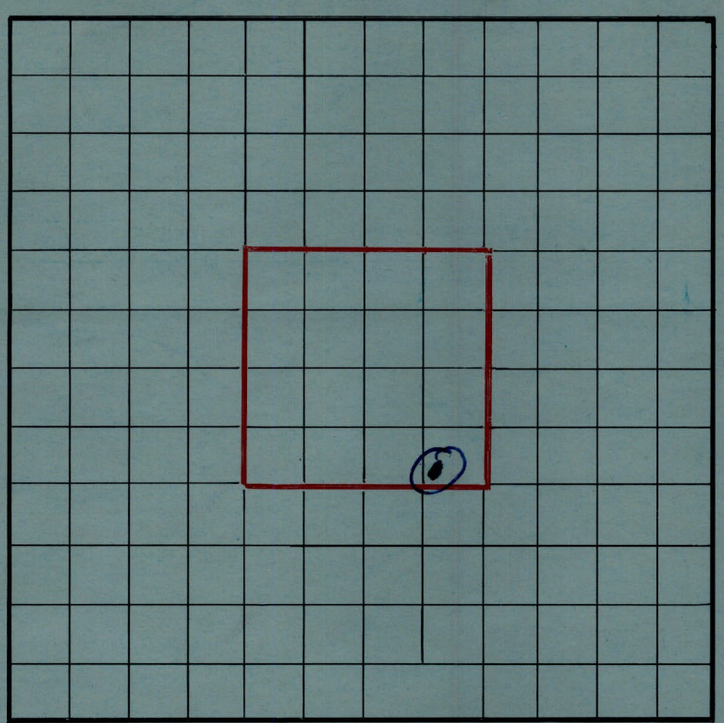
6. Drillers name Sean Ballew

This well will be 1 miles ~~N~~ or S and ½
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

32 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY

698 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT 1700 ft from 319 permit for city of Perryton

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Addison Cutter — 6405 Royal Lane, Dallas 75230
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Sean Slaughter 2. Roy Stallings 3. Bill Pluteher

SMITH PRINTING CO · DIAL PO5-9819 LUBBOCK

ASCO
Associated Supply Company, Inc.
ESTABLISHED 1960

Well # 7

old Meter # 94-6-3455 Reading 10348

New Meter # 94-6-3454 Reading 00000

New Meter installed 9-1-06

Well # 4 54448

old Meter # 93-4-2743 Reading

New Meter # 98-3022-4 Reading 00000

New Meter installed 8-10-06

where ~~Well~~ is well # 4?

Exceeding Your Expectations

Lubbock 806.745.2000 Amarillo 806.372.8386 Odessa 432.337.2823 Midland 432.685.9999 Perryton 806.435.7773 Clovis 505.742.2726

STATE OF TEXAS WELL REPORT for Tracking #149272

Owner:	**SILVANO RAMERO**	Owner Well #:	**OC-1296**
Address:	**1929 ETON PERRYTON, TX 79072**	Grid #:	**04-42-3**
Well Location:	**SEC 1012 BLK 43 PERRYTON, TX 79072**	Latitude:	**36° 22' 06" N**
		Longitude:	**100° 47' 06" W**
Well County:	**Ochiltree**	Elevation:	**2908 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **8/6/2008** Drilling End Date: **8/6/2008**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**460**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
20	**460**	**Gravel**	**#1 fine**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**7**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **290 ft.** below land surface on **2008-08-06** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 20+ GPM with 0 ft. drawdown after 1.5 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: **LES TAYLOR DRILLING**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**300**	**surface caliche clay & sand**
300	**350**	**med to coarse sand & gravel w/clay**
350	**400**	**clay, sandy clay & fine sand**
400	**450**	**fairly loose fine to med sand**
450	**460**	**red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**N**	**STEEL**	**+2 -3**
5	**N**	**PVC**	**-3 390**
5	**N**	**PERFS**	**390 450 .050**
5	**N**	**PVC**	**450 460**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #582555

Owner:	**City of Perryton**	Owner Well #:	**Municipal #7A**
Address:	**PO Box 849 Perryton, TX 79070**	Grid #:	**04-42-3**
Well Location:	**Sec 1012, 43, H & TC Southeast Corner of Perryton Perryton, TX**	Latitude:	**36° 21' 56.49" N**
		Longitude:	**100° 47' 04.96" W**
Well County:	**Ochiltree**	Elevation:	**No Data**

Type of Work: **New Well** Proposed Use: **Public Supply**

Drilling Start Date: **7/12/2021** Drilling End Date: **7/13/2021** **Plans Approved by TCEQ - YES**
PWS# 1790001

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
24	**0**	**570**

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
280	**285**	**Sand**	**Fine**
285	**570**	**Gravel**	**Silica Sand**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**280**	**Cement 490 Cubic Feet**

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **1227' S 204' E**

Distance to Septic Field or other concentrated contamination (ft.): **no visible**

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

Method of Verification: **Permit OC12322**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
308 - 570	**No Data**

Chemical Analysis Made: **Yes**

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: **Hydro Resources Mid Continent Inc.**

PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Report Amended on 6/26/2024 by Request #42686

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**80**	**surface top soil brown clay w/gray clay strips**
80	**100**	**caliche clay strips**
100	**240**	**fine sand fairly loose /clay strips**
240	**300**	**med to coarse fairly loose sand some gravel strips**
300	**420**	**fine fairly loose sand brown clay mix**
420	**440**	**fine to med fairly loose sand**
440	**500**	**fine to med to coarse loose sand**
500	**520**	**med size fairly loose sand some coarse strips**
520	**560**	**med to coarse fairly loose sand some brown clay**
560	**570**	**brown and red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16	**Blank**	**New Steel**	**312**	**-2**	**476**
16	**Dielectric Coupling 2"**	**New Steel**		**476**	**478**
16	**Screen**	**New Stainless Steel**	**0.312**	**478**	**560**
16	**Blank**	**New Stainless Steel**	**0**	**560**	**570**

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

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 6142

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. O-944
Date Received
Size of Well 6 in. Maximum Yield GPM

1. Well Owner City of Lamyton Address Box 849 Lamyton
2. Well located ____ miles N, 2 miles S, 1 miles E, ____ miles W of the town of Lamyton
3. County Ochiltree League
4. NW¼ NE¼ SW¼ (SE¼) (CIRCLE ONE) Section 1012 Block 43 Survey H T & C
5. ACTUAL LOCATION OF THIS WELL IS { 400 measured yards from [redacted] S section line. / 20 measured yards from E [redacted] section line.

DRILLER'S LOG OF WELL

Method of Drilling: ____

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
+2	3	Top Soil	380	440	Clay and Sand
3	30	Caliche and Clay	440	500	Coarse sand and Some Clay
30	170	Clay	500	540	Sand and Clay
170	200	Clay and Some Sand	540	567	Red Bed
200	230	Clay and Sand			
230	260	Sandy Clay			
260	290	Sand and Clay			
290	320	Sand, Clay, and Gravel			
320	350	Sand, Clay, and Coarse Sand			
350	380	Clay and Some Sand			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Water Industries, Inc. Address 212 E. New York St. Date Drilled 6-21- 1974

DESCRIPTION OF WELL

6. Casing: new, ~~used, or shop~~ made. Diameter 16 in. Total length 567 ft.
7. Casing perforations: from 285 ft to 562 ft. Size 1/8". Number per foot 33.
8. Pump Column: Size 6 in. Total length 480 ft. Suction pipe: Size 6 in. Length 5 ft.
9. Pump bowls: Size 10. Number of stages 11. Pump discharge pipe: Size 6 in.
10. Depth to water level 289 ft. Pump discharge 550 GPM. Pumping level: 458 ft.
11. Power Unit: Electrical, ~~Natural Gas, Butane, Other~~ ____. Horsepower 75.

Signature CITY OF PERRYTON by [redacted] (OWNER OR AGENT) City Engineer (TITLE) Box 849 Perryton, Tex. (ADDRESS)

Final Completion of Well — Date Sept 6, 1974.

Dpst Rfd 9-13-74 CK# 4214

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-944
TIME: _____
DATE APPLICATION FILLED OUT 8-21-74
SIZE OF WELL 6 MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton (NAME OF LANDOWNER) Box 849 Perryton (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County _____

2. NW¼, NE¼, SW¼, (SE¼) of Section 1012 Block 43
Survey H T + C

3. League _____

Permit good for 120 days only

4. Proposed Use (Municipal ~~Industrial Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

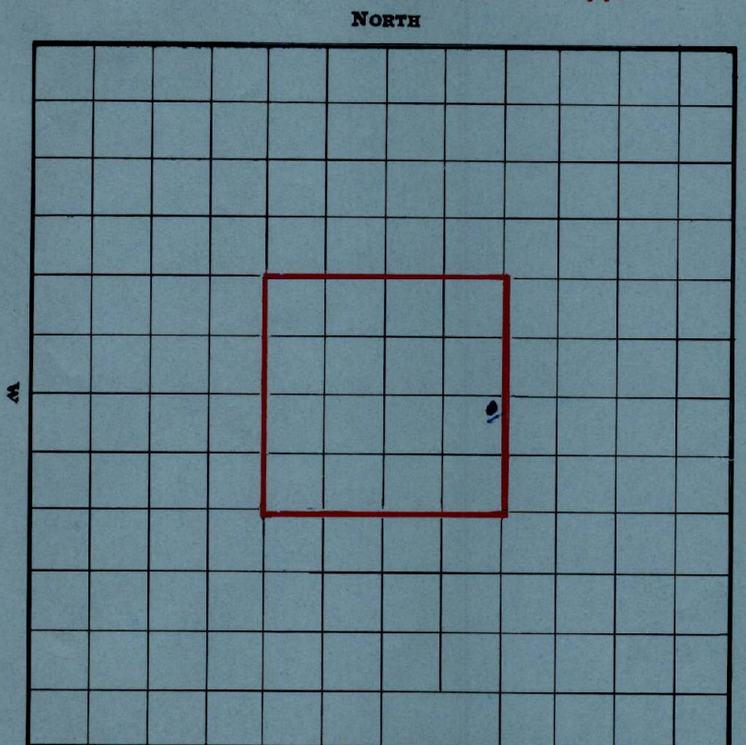
5. Drilling to start about _____, 19__

6. Drillers name Waters Industries

This well will be 2 miles ~~N~~ or S and 1
MARK OUT ONE THAT DOES NOT APPLY
miles E ~~W~~ of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.



Please Make Sure
Your Measurements are Correct—
They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

400 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY

20 measured yards from (E ~~W~~) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: CITY OF PERRYTON By [signature] (SIGNATURE (OWNER OR AGENT)) City Engineer (TITLE) Box 849 Perryton, Tex. (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. Don Manning 2. Bill Pletcher 3. Edgar Cook

SMITH PRINTING CO · DIAL PO5-9619 LUBBOCK

Ck rpsd 9-3-74

NORTHPLAINS GROUNDWATER

SE

METER INSPECTIONS

OC-0944

WELL NUMBER: Perry #7

QUARTER: SE

SECTION: 1012

BLOCK: 43

SURVEY: H+TC

LAT: 36.36580

LONG: 100.78420

METER NUMBER: 94-63455

METER SIZE: 6"

METER READING: 001640

READING MULTIPLIER: x100

METER LOCATION:

NORTH PLAINS GROUNDWATER Conservation District

DISTRICT USE ONLY

GPU # 8979

Disposition of a Replaced Well

Owner Name or Authorized Agent Name: BRANDAN KNAPP

I BRANDAN KNAPP (Owner or Authorized Agent) am replacing District Well OC-0944

and

will comply with District Rule 3.5 which states: Immediately upon completion of a replacement Well, the Well being replaced shall be:

SIGN ONE

1. **Plugged** – Complete and absolute sealing of the entire well borehole in accordance with the requirements of the District and any statewide law, agency or political subdivision having jurisdiction including, but not limited to, Chapter 1901 of the Texas Occupations Code, and the Texas Commission on Environmental Quality.

x _____
Owner or Authorized Agent Signature

2. Properly equipped and constructed as a Domestic Well or Livestock Well in such a manner that it cannot produce more than 25,000 gallons of groundwater per day.

_____
Owner or Authorized Agent Signature

3. Reclassified as a Livestock or Domestic Well but remaining Capped if the Well Casing is in good condition and all production, piping, engine and surface works are removed. I understand a capped Well must remain capped until I notify the District that the Well will be equipped as a Livestock or Domestic Well not to exceed 17.5 GPM and will count against my Well density until it is equipped as such.

_____
Owner or Authorized Agent Signature

A copy of a map showing the location of the well being replaced and the new well being drilled is attached.

STATE OF TEXAS WELL REPORT for Tracking #361899

Owner:	**CASTANON,MIKE**	Owner Well #:	**No Data**
Address:	**P.O. BOX 951 PERRYTON, TX 79070**	Grid #:	**04-42-3**
Well Location:	**MIKE CASTANON 1012-43-H&TC TX**	Latitude:	**36° 21' 49" N**
		Longitude:	**100° 47' 09" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **4/23/2014** Drilling End Date: **4/23/2014**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9.75	**0**	**540**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
300	**540**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
1	**20**	**5**

Seal Method: **CEMENT GROUT**

Sealed By: **HOWARD DRILLING COMPANY**

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: **307 ft.** below land surface on **2014-04-23** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **378**

Well Tests: **Pump** **Yield: 120 GPM with 43 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
307	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRLLING COMPANY**

P.O. BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**SURFACE**
4	**8**	**CALICHE**
8	**73**	**CLAY**
73	**76**	**CALICHE ROCK**
76	**104**	**CLAY**
104	**106**	**CALICHE ROCK**
106	**120**	**SANDY CLAY**
120	**273**	**SAND**
273	**310**	**SAND/CLAY STREAKS**
310	**530**	**SAND**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 NEW PVC PLAIN +2 TO 440
5 NEW PVC PERF 440 TO 540 .032

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

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 7225

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN

Field Well No. O-1048

Date Received 3-23-90

Size of Well 6 in. Maximum Yield 750 GPM

1. Well Owner City of Perryton Address 110 S. Ash, Perryton, Texas 79070

2. Well located _____ miles N, 2 miles S, 1 miles E, _____ miles W of the town of Perryton, Texas

3. County Ochiltree League _____

4. NW¼ ~~NE¼ SW¼ SE¼~~ (CIRCLE ONE) Section 926 Block 43 Survey H & T C

5. ACTUAL LOCATION OF THIS WELL IS { 35 measured yards from N ~~S~~ section line. / 20 measured yards from ~~E~~ W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Top Soil	240	270	Sand, Some Sandrock Layers
3	30	Caliche	270	300	Sand, Sandrock Layers, Some Clay Laye
30	60	Caliche	300	330	Coarse Sand
60	90	Sand, Sandrock, Clay	330	360	Coarse Sand, Fine Gravel
90	120	Sand, Sandrock	360	390	Coarse Sand, Fine Gravel
120	150	Sand, Sandrock Layers	390	420	Coarse Sand, Fine Gravel
150	180	Sand, Some Sandrock Layers	420	450	Coarse Sand, Fine Gravel
180	190	Sand, Some Sandrock Layers	450	480	Coarse Sand, Some Clay Layers
190	205	Sand, Gravel	480	510	Coarse Sand, Some Clay Layers
205	240	Sand, Sandy Clay, Some Sandrock	510	540	Clay, Sand

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Wall & Son's Drilling Inc. Address Box 1815 Hereford TX 79045 Date Drilled 2-7 19 90

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter 12 3/4 in. Total length 643 ft.

7. Casing perforations: from _____ ft to _____ ft. Size _____. Number per foot _____.

8. Pump Column: Size 6 in. Total length 550 ft. Suction pipe: Size 6 in. Length 5 ft.

9. Pump bowls: Size 10" . Number of stages 10 . Pump discharge pipe: Size 6 in.

10. Depth to water level 289 ft. Pump discharge 550 GPM. Pumping level: 351 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 100 .

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

Rfd. Ck. #5272
3-28-90

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. 0-1048
TIME: N/A
DATE APPLICATION FILLED OUT 2/2/90
SIZE OF WELL 6 MAXIMUM YIELD 750 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton, 110 S. Ash, Perryton, Texas 79070
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree
2. NW¼, ~~XXXXXXXXXXXXXXXX~~ Section 926 Block 43
   Survey H & TC
3. League _____

Permit good for 120 days only

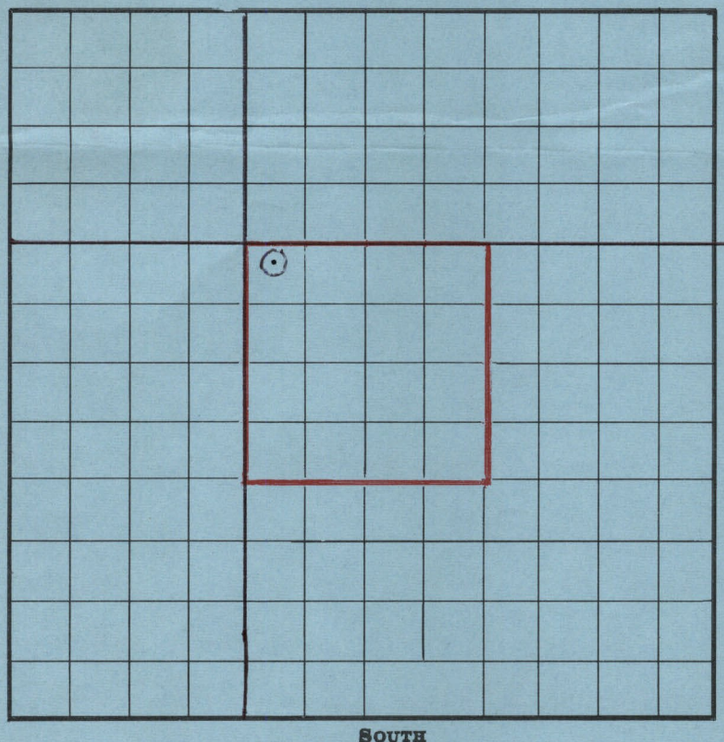
4. Proposed Use (Municipal/~~XXXXXXXXXXXXXXXX~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about 1-30, 1990
6. Drillers name Wall & Sons, Box 1815, Hereford, T

This well will be 2 miles ~~XX~~ or S and 1 miles E or ~~W~~ of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

35 measured yards from (N ~~S~~) section line and
MARK OUT ONE THAT DOES NOT APPLY

20 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 840 measured yards from proposed well.
Owned by City of Perryton
Address 110 S. Ash

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT This is to replace existing well, your number 0-233

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: [signature] Director of Public Works, 110 S. Ash, Perryton, Tx.
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Bob Wilson 2. Dean Slaughter 3. Dean Leighton

log sent Dft. 3-7-90

Continue Page 2

540	570	Coarse Sand, Fine Gravel
570	600	Coarse Sand, Some Clay Layers
600	636	Sand, Clay
636	643	Red Bed

7. Casing Perforations:

643'	to 622'	Blank
622'	to 540'	.050 Mill Slot
540'	to 498'	.050 Screen
498'	to 457'	.050 Mill Slot
457'	to 414'	.050 Screen
414'	to 332'	.050 Mill Slot

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 4591

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN

Field Well No. O-501

Date Received 4-7-66

Size of Well ~~26~~ 16 in. Maximum Yield _____ GPM

1. Well Owner City of Perryton Address Perryton, Texas 79070

2. Well located _____ miles N, _____ miles S, _____ miles E, _____ miles W of the town of _____

3. County Ochiltree League _____

4. ~~NW¼~~ ~~NE¼~~ ~~SW¼~~ SE¼ Section 1012 Block 43 Survey H&TC
(CIRCLE ONE)

5. ACTUAL LOCATION OF THIS WELL IS { 26 measured yards from ~~N~~ or S section line. / 350 measured yards from E or ~~W~~ section line.

DRILLER'S LOG OF WELL

Method of Drilling: _____

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top soil	170	180	Med. sand
4	20	Red clay - sandy	180	250	Med. sand, clay, caliche
20	60	Clay, caliche	250	270	Coarse sand and clay streaks
60	76	Clay, caliche & sand	270	330	Fine to med. coarse sand, clay strks
76	81	Hard sandrock	330	350	Med. sand, brown clay streaks
81	120	Soft sand and sandrock	350	391	Fine sand soft, hard clay
120	130	Soft clay, caliche - little sand	391	400	Red clay
130	140	Caliche - fine sand	400	439	Fine red sand, red clay stringers
140	160	Fine sand, a little caliche	439	458	Red clay
160	170	Fine to Med. sand			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller _____ Address _____ Date Drilled _____ 195__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter 16 in. Total length 458 ft.

7. Casing perforations: from _____ ft to _____ ft. Size _____. Number per foot _____.

8. Pump Column: Size 6 in. Total length 400 ft. Suction pipe: Size 6 in. Length ~~40~~ 7 ft.

9. Pump bowls: Size 10. Number of stages 9. Pump discharge pipe: Size 6 in.

10. Depth to water level 267 ft. Pump discharge 350 GPM. Pumping level: 335 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 60.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19__.

Cbh 2706

8-21-67

4591

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-501
TIME: 9:45
DATE APPLICATION FILLED OUT 4-7-66
SIZE OF WELL 8" MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton, Perryton, Tex
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree
2. NW¼, NE¼, SW¼, (SE¼) of Section 102 Block 43
   Survey H&TC
3. League _____

Permit good for 120 days only

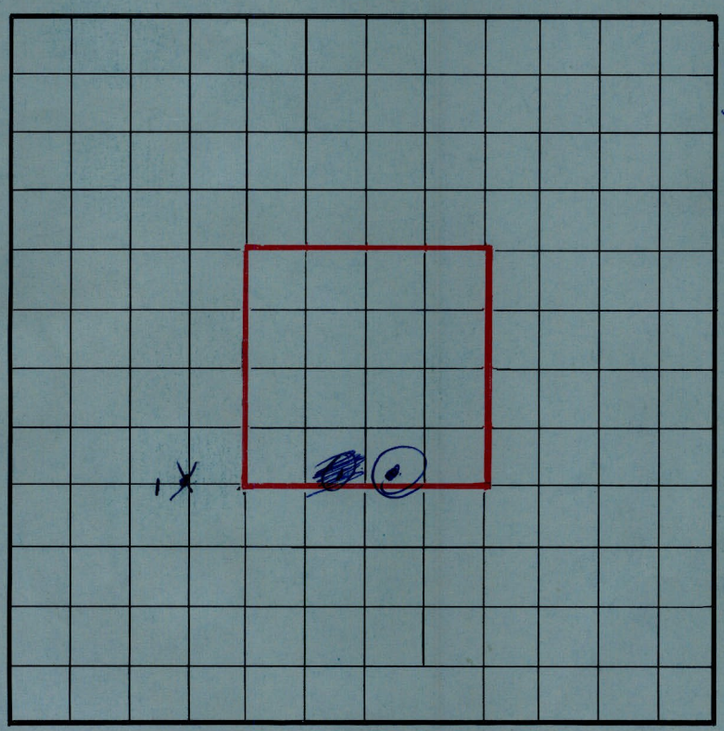
4. Proposed Use (Municipal-~~Industrial-Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about _____, 19____
6. Drillers name _____

This well will be _____ miles N or S and _____
MARK OUT ONE THAT DOES NOT APPLY
miles E or W of the town of _____
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
~~2330~~ ~~1552~~ 26 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
350 ~~500~~ measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 Over 400 yards measured yards from proposed well.
Owned by Addison Cutter
Address Operated by Delbert Trew Perryton, Tex

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT There is over 400 yards between wells

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Ben D. Street — City of Perryton Director Public Wks. — P.O. Box 849 Perryton
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Bill Pletcher 2. Roger Pearson 3. Dean Slaughter

SMITH PRINTING CO - DIAL PO5-9619 LUBBOCK

McMORRIES AND ASSOCIATES
BSCE LLB MCE

MUNICIPAL ENGINEERS FLEETWOOD 6-2796

6300 CANYON DRIVE
ROUTE 1 - BOX 826
AMARILLO, TEXAS 79106

June 29, 1967

Mr. Buchanan
North Plains Water District
P. O. Box 935
Dumas, Texas 79029

Re: City of Perryton, Texas

Dear Mr. Buchanan:

The City of Perryton has asked us to forward a copy of the log on the recently completed water well #13 located 1,050 feet west and 72 feet north of the southeast corner of Section 1012, Block 43, H&TC Railway Company Survey. We are enclosing one copy of the formation log and casing record.

If you need additional information, please let us know.

Very truly yours,

Bill R. McMorries (ahd)

Bill R. McMorries, P.E.

cc: Ben Street
City Engineer
Perryton

Enc.

CITY OF PERRYTON
WATER SUPPLY WELL NO.8.

LOG

Top Soil	
Red clay - sandy	0'- 4'
Clay, caliche	4'- 20'
Clay, caliche and sand	20'- 60'
Hard sandrock	60'- 76'
Soft sand and sandrock	76'- 81'
Soft clay, caliche - a little sand	81'- 120'
Caliche - fine sand	120'- 130'
Fine sand - a little caliche	130'- 140'
Fine to medium sand	140'- 160'
Medium sand	160'- 170'
Medium sand - a little clay and caliche	170'- 180'
Fine to medium sand - more caliche	180'- 190'
Medium to coarse sand - hard streaks of caliche	190'- 200'
Medium to coarse sand	200'- 210'
Medium sand	210'- 220'
Medium to coarse sand	220'- 230'
Coarse sand - a little clay (Clay at 256')	230'- 250'
Coarse sand and clay streaks	250'- 260'
Fine to coarse sand-clay streaks-softer at 276'	260'- 270'
Sand and clay streaks	270'- 280'
Fine sand, clay streaks, softer at 292'	280'- 290'
Fine to medium sand - softer at 305'	290'- 300'
Fine to medium sand	300'- 310'
Medium sand, brown clay streaks	310'- 330'
Fine sand - soft	330'- 350'
Fine sand - harder - clay at 372'	350'- 370'
Fine sand - brown and red clay stringers	370'- 380'
Red clay	380'- 391'
Fine red sand, red clay stringers	391'- 400'
Fine red sand - a little clay	400'- 410'
Red clay	410'- 439'
	439'- 458'

(All measurements are from RKB which is seven feet above ground)

Static water level ---------- 267' (ground level)

Casing:

16" O.D., 0.375" wall	0' - 269'
16" Perforated pipe	269' - 434'
16" O.D. pipe	434' - 439'

Well No. O-501
Section: 1012, Block 43, Survey H&TC
Casing perforations: Number per foot 1/8"X10"slots-16 rows
Pump Column: Size 6" in. Total length 400 ft.
Suction pipe: Size 10' X 6". Number of Stages 9.
Pump Bowls: Size 10". Length 7'-6" ft.
Pump Discharge pipe: Size 6" in.
Depth to water level 265 ft. Pump Discharge 350 GPM
Pumping level: 335 ft.
Power Unit: (Electrical), Natural Gas, Butane
Other _____. Horsepower 60.

Thank you.
North Plains Water District, Dumas, Texas 79029

NORTHPLAINS GROUNDWATER

METER INSPECTIONS

WELL NUMBER: OC-0501

QUARTER: SE

SECTION: 1012

BLOCK: 43

SURVEY: H+TC

LAT: 36, 36251

LONG: 100.78750

METER NUMBER: 94-4595-4

METER SIZE: 4"

METER READING: 786970

READING MULTIPLIER: x 100

METER LOCATION: At well

Perryton Wells

Water Well #1 N 36.40641 OC-1015
W 100.80393
Elevation 2930ft

Water Well #2 N 36.40038 OC-1109
W 100.80492
Elevation 2920ft.

Water Well #3 N 36.39015 OC-0889
W 100.80205
Elevation 2917
? ~~No Permit~~ : 1013, 43, H+TC

Water Well #4 N 36.38550
W 100.80068
Elevation 2930ft
? no permit

Water Well #5 N 36.36212 OC-1048
W 100.78375
Elevation 2898ft

Water Well #6 N. 36.35893 OC-0334
W 100.77666
Elevation 2903ft

Water Well #7 N 36.36580
W 100.78420 -OC-0944
Elevation 2909ft

Water Well #8 N 36.36251 OC-0501
W. 100.78750
Elevation 2901ft

Water Well #9 N 36.36987 OC-0903
W 100.78376
Elevation 2911ft

Water Well #10 N 36.33316 ?, OC-1042
W 100.78370
Elevation 2913ft

Water Well #11 N 36.32176
W. 100.78378 ? ?. OC-1043
Elevation 2895ft

Reserve Wells

#23 N 36.26226 -462, 43, H+TC
W 100.77756
Elevation 2771ft

#15 N. 36.23580 -575, 43, H+TC
W 100.76075
Elevation 2845ft

#14 N. 36.24276 -574, 43, H+TC
W 100.77971
Elevation 2868ft

#3 N. 36.22138 570, 43, H+TC
W 100.76010
Elevation 2850ft.

#8 N 36.25723 OC-0889
W 100.73370 657, 43, H+TC
Elevation 2859ft.

Blassingame N. 36.30463 15, 13, T+WD
W 100.82091
Elevation 2948ft.

#12 N. 36.36270 OC-0371
W. 100.79544
Elevation 2925ft.

STATE OF TEXAS WELL REPORT for Tracking #45116

Owner:	**DAVE McCOY**	Owner Well #:	**No Data**
Address:	**P.O. BOX 570 PERRYTON, TX 79070**	Grid #:	**04-42-3**
Well Location:	**STOCKWELL 925-43-H&TC SURVEY TX**	Latitude:	**36° 21' 38" N**
		Longitude:	**100° 47' 05" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Stock**

Drilling Start Date: **8/25/2004** Drilling End Date: **8/25/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
11.5	**0**	**420**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
300	**420**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
4	**25**	**7**

Seal Method: **CEMENT GROUT**

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: **Pitless Adapter Used**

Water Level: **250 ft.** below land surface on **2004-08-25** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **400**

Well Tests: **Pump** **Yield: 65 GPM with 84 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
250	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRILLING CO.**

P.O. BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**2**	**TOP CLAY**
2	**11**	**CLAY**
11	**40**	**CALICHE CLAY/CLAY**
40	**80**	**CALICHE CLAY**
80	**90**	**CALICHE CLAY/ROCK**
90	**110**	**CALICHE CLAY/SANDY CLAY**
110	**140**	**CALICHE CLAY/CLAY**
140	**160**	**CALICHE CLAY/SANDY CLAY**
160	**173**	**SANDY CLAY/SAND**
173	**205**	**SAND**
205	**220**	**SANDY CLAY**
220	**237**	**SAND**
237	**266**	**CLAY**
266	**280**	**SANY CLAY/SAND**
280	**296**	**SAND**
296	**313**	**CLAY**
313	**326**	**SANDY CLAY**
326	**340**	**SAND W/CLAY STREAKS**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	**NEW**	**PVC**	**PLAIN +2-360**
5"	**NEW**	**PVC**	**PERF 360-420 .032**

340-418 SAND
418-420 PINK CLAY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

DIST. 2 FORM NO. 355-RLW

Original—District Office Copy

District File No. 859

FOR USE OF COMMITTEEMEN

Field Well No. O-234

Date Received 5/27/57

Size of Well 16 in. Maximum Yield _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner City of Perryton Address Perryton, Texas

2. Well located _____ miles N, 2 miles S, 1½ miles E, _____ miles W of the town of Perryton

3. County Ochiltree Labor _____ League _____ Homestead _____

4. NW¼ ~~NE¼ SW¼ SE¼~~ (CIRCLE ONE) Section 926 Block 43 Survey H & TC RR

5. ACTUAL LOCATION OF THIS WELL IS { 325 measured yards from N or ~~S~~ line of this tract of land. / 637 measured yards from ~~E~~ or W line of this tract of land.

DRILLER'S LOG OF WELL

Method of Drilling: _____

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	7	Top soil	317	350	Med. to fine red snad
7	78	Brown clay & caliche	350	390	Coarse and loose red sand
78	180	Fine sand	390	413	Soft clay
180	213	Coarse clean sand	413	419	Coarse sand
213	222	Hard red clay	419	428	Soft clay
222	234	Soft sand clay, sand rock, fine sand	428	438	Coarse sand
234	240	Str/clay & fine sand	438	494	Brown shale
240	270	Clay	494	499	Loose coarse sand
270	278	Coarse red sand	499	515	Coarse sand & hard lime shell
278	292	Soft clay	515	550	Coarse snad
292	317	Coarse red sand	550	586	Very coarse sand
			586	596	Red bed

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller W. D. Jones Drlg. Address _____ Date Drilled 7-8-57 195__

DESCRIPTION OF WELL

6. Casing: new, used, gas line, or shop made. Diameter 16 in. Total length _____ ft.

7. Casing perforations: from _____ ft to _____ ft. Size _____. Number per foot _____.

8. Pump Column: Size 6 in. Total length _____ ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 252 ft. Pump discharge 600 GPM. Pumping level: 287 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 75.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

Ck #329

RECEIVED JAN 16 1958

DIST. 2 FORM NO. 255

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-234
DATE APPLICATION FILLED OUT May 27, 1957
DATE APPROVED BY COUNTY COMMITTEE _____
SIZE OF WELL 8 MAXIMUM YIELD 1000 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committeeman for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton #6 Perryton, Texas
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. NW¼, NE¼, SW¼, SE¼ of Section 926 Block 43
Survey Houston & Texas Central RR

3. Labor _____ League _____

4. Proposed Use (Municipal-~~Industrial-Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

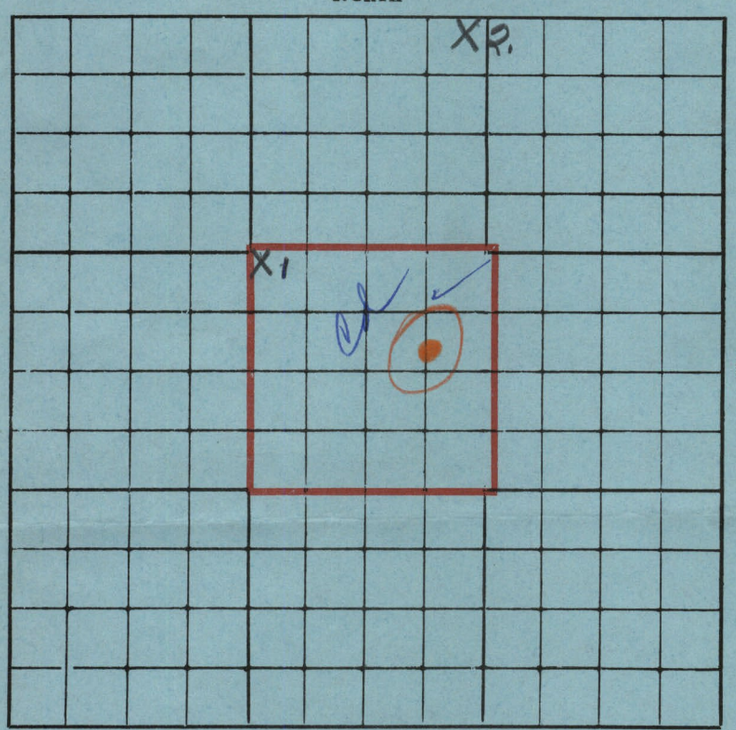
5. Drilling to start about May 31, 1957, 19__

This well will be 3 miles ~~N~~ or S and 1½
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of Perryton, Texas
MARK OUT ONE THAT DOES NOT APPLY

This Permit Good for 120 Days Only from Date of Approval

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section or 1 labor.
MARK X, showing 3 closest wells, and or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Corerct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

325 measured yards from (~~N~~ S) property line and
MARK OUT ONE THAT DOES NOT APPLY

637 measured yards from (~~E~~ W) property line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells, and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 700 measured yards from proposed well.
Owned by City of Perryton
Address Perryton Tex

Well 2 637 measured yards from proposed well.
Owned by O.R. Bruner
Address Perryton, Tex

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: J. W. Mimms Engineer Amarillo, Texas
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Dan Manning 2. Howard Holt 3. Ray Stallings

SMITH PRINTING CO - DIAL PO5-9619 LUBBOCK

W. D. JONES DRILLING CONTRACTOR

WELL RECORD

NAME City of Perryton #6

Address Perryton, Texas

Miles from nearest town Two South and 1½ miles East of Perryton

Location on Place 1900 ft. East & 1200 ft. South of the NW corner of Sec. 926.

Sec. No. 926 Blk. No. 43 Survey H&TC Ry Co County Ochiltree

Date Drilled 7-8-57 Depth of Well 596 ft. Gravel Size Not less than 90% larger than 1/8" and not more than 10% than 3/8". Hole Size

Casing Size 16" Wall Thickness .406

PERFORATIONS See attached Stainless Steel Screen Log.

LOG—

FROM	TO	
0	7	Top soil
7	78	Brown clay and caliche
78	180	Fine sand
180	213	Coarse clean sand
213	222	Hard red clay
222	234	Soft sandy clay , sand rock, fine sand
234	240	Streaks of clay and fine sand
240	270	Clay
270	278	Coarse red sand
278	292	Soft clay
292	317	Coarse red sand
317	350	Medium to fine red sand
350	390	Coarse and loose red sand
390	413	Soft clay
413	419	Coarse sand

G. P. M. 600 At Draw Down 54 ft.

Pump Setting 340 Suction 10

REMARKS:

W. D. JONES DRILLING CONTRACTOR

WELL RECORD

NAME City of Perryton #6 con't

Address

Miles from nearest town

Location on Place

Sec. No. Blk. No. Survey County

Date Drilled Depth of Well Gravel Size Hole Size

Casing Size Wall Thickness

PERFORATIONS

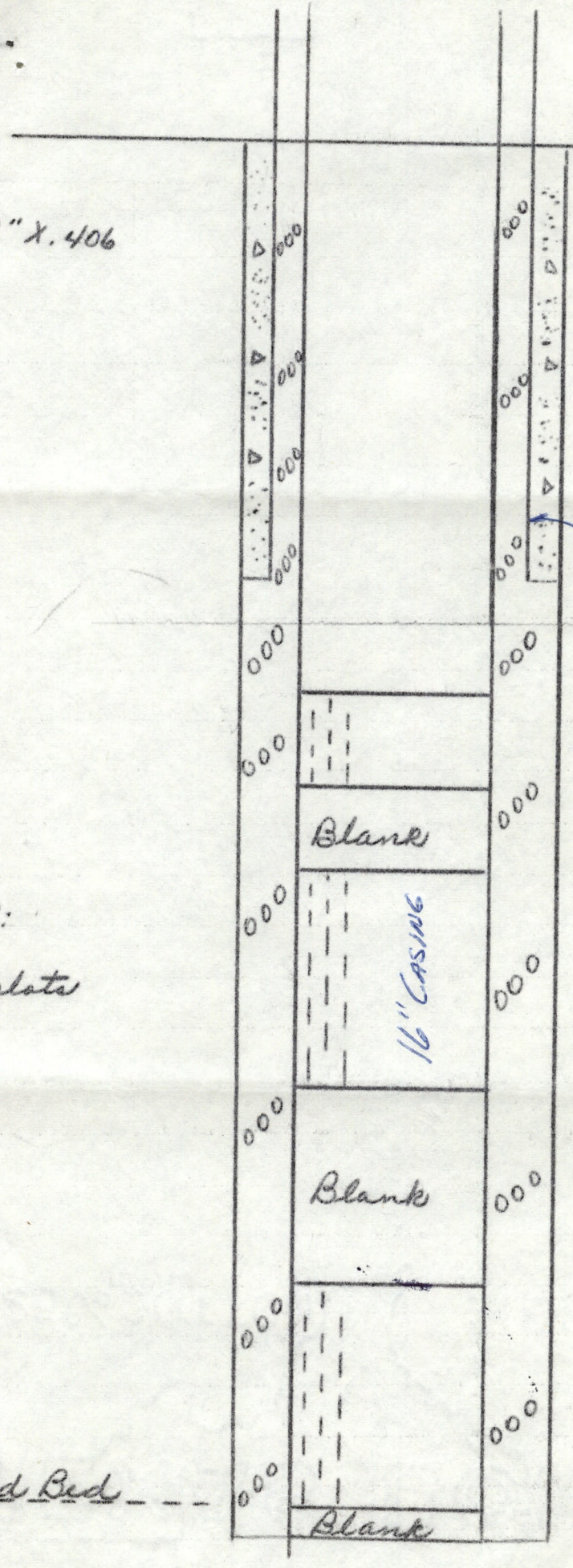
LOG—

FROM	TO	
419	428	Soft clay
428	438	Coarse sand
438	494	Brown shale
494	499	Loose coarse sand
499	511	Coarse sand but not loose
511	512	Hard lime shell
512	513	Coarse sand
513	515	Hard lime shell
515	550	Coarse sand
550	586	Very coarse sand
586	596	Red bed

G. P. M. At Draw Down

Pump Setting Suction

REMARKS:



? 26" to surface

STATE OF TEXAS WELL REPORT for Tracking #187261

Owner:	**GREG CAMPBELL**	Owner Well #:	**OC-1353**
Address:	**310 S. BAYLOR PERRYTON, TX 79070**	Grid #:	**04-42-3**
Well Location:	**SEC 925 BLK 43 SURVEY H&TC PERRYTON, TX 79070**	Latitude:	**36° 21' 42" N**
		Longitude:	**100° 47' 29" W**
Well County:	**Ochiltree**	Elevation:	**2912 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/20/2009** Drilling End Date: **7/20/2009**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**420**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**20**	**420**	**Gravel**	**# 1 FINE**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**2**	**20**	**5**

Seal Method: **Hand Mixed**

Sealed By: **LES TAYLOR DRILLING,LLC**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **302 ft.** below land surface on **2009-07-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 30+ GPM after 1.5 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: **LES TAYLOR DRILLING, LLC**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**300**	**surface caliche clay & sand**
300	**340**	**fairly loose med sand w/clay strips**
340	**380**	**fairly loose med to coarse sand w/clay strips**
380	**420**	**med to coarse sand w/clay strips(red clay)**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**N**	**STEEL**	**-2 +3**
5	**N**	**PVC**	**+3 350**
5	**N**	**PERFS**	**350 410 .050**
5	**N**	**PVC**	**410 420**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #89304

Owner:	**KEVIN WALKER**	Owner Well #:	**No Data**
Address:	**RT 2 BOX 100A BALKO, OK 73931**	Grid #:	**04-42-2**
Well Location:	**924-43-H&TC SURVEY TX**	Latitude:	**36° 21' 41" N**
		Longitude:	**100° 47' 37" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/5/2006** Drilling End Date: **7/5/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
	0	**400**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
240	**400**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
4	**25**	**7**

Seal Method: **CEMENT GROUT**

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: **Pitless Adapter Used**

Water Level: **287 ft.** below land surface on **2006-07-05** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **336**

Well Tests: **Pump** **Yield: 50 GPM with 20 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
287	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRILLING CO**

P.O. BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**6**	**TOPSOIL**
6	**48**	**CLAY**
48	**72**	**SANDY CLAY**
72	**83**	**CLAY**
83	**123**	**SANDSTONE & SANDY CLAY**
123	**155**	**CLAY**
155	**178**	**SANDSTONE & CLAY STREAKS**
178	**252**	**CLAY & SANDY CLAY**
252	**265**	**CLAY**
265	**310**	**SAND & CLAY STREAKS**
310	**352**	**SAND**
352	**400**	**MEDIUM SAND**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5" NEW PVC PLAIN +2-380			
5" NEW PVC PERF 380-400 .032			

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

WL-10446 w/pump

STATE OF TEXAS WELL REPORT for Tracking #505807

Owner:	**Jason C & Amber Schickedanz**	Owner Well #:	**IRR 1-19**
Address:	**PO Box 3** **Perryton, TX 79070**	Grid #:	**04-42-3**
		Latitude:	**36° 21' 37.3" N**
Well Location:	**Sec 927, BLK 43, H & TC** **Perryton, TX**	Longitude:	**100° 45' 47.09" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

7/13/19

Drilling Start Date: **2/27/2019** Drilling End Date: **2/27/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**24.5**	**0**	**561**

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**15**	**561**	**Gravel**	**Huber 90f/10c**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**-1**	**15**	**Cement**

Seal Method: **Gravity**

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 Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	282 - 561	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: **Hydro Resources Mid Continent Inc.**

PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	53	surface topsoil brown clay w/sandy clay strips
53	80	caliche w/rock & clay strips
80	180	sand w/clay strips
180	220	fine tight sand w/little clay mix
220	240	fine tight sand w/clay mix to brown sandy clay
240	320	brown sandy clay & clay
320	420	fine sand w/some clay mix
420	480	fine firty sand w/clay mix & sandy clay strips
480	550	fine red dirty sand w/clay mix
550	561	red clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16	Blank	New Steel	0.25	-2	277
16	Perforated or Slotted	New Steel	0.1	277	552
16	Blank	New Steel	0.25	552	561

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

RETURN TO DISTRICT BY 8/13/19

NORTH PLAINS GROUNDWATER Conservation District

Certified Pump Report

Landowner Name: JASON & AMBER SCHICKEDANZ

District Permit Number: OC-10946
Consists of Two County Letters – Four Numbers (Example DA-1234)

Location of Well:			
OCHILTREE	927	43	H&TC
County	**Section**	**Block**	**Survey**

-100.763050	36.360340
Longitude (decimal degrees)	**Latitude (decimal degrees)**

Pump Column Size: 8 inches

Total Pump Column Length: 430 feet

Pump Bowl Size: 11 CHC

Number of Stages: 7

Discharge Pipe Size: 8

Depth to Static Water Level: 278 feet

Pump Discharge: 800 GPM

Pumping Water Level: 322 feet

Power: _____

Horsepower: 124

I hereby certify that this pump was installed by me (or under my supervision), and that each statement herein is true to the best of my knowledge and belief. I understand that all records of this well must be given to the District within 30 days after expiration of the Well permit. Water shall not be produced from this well until the District receives these records in accordance with Rule 2.16

Pump Installers Signature: Mike Thelander

Pump Installers Name: Mike Thelander

Pump Installers License Number: 4934

CC

NORTH PLAINS GROUNDWATER

P.O. Box 795
603 East First Street
Dumas, Tx 79029
Phone: 806-935-6401
Fax: 806-935-6633

Water Well Construction Permit

VALID FOR 150 DAYS AFTER THE APPROVAL DATE
NO EXPIRATION NOTICE WILL BE PROVIDED

For District Use Only	
Permit Number:	OC-10946
Application Date:	02/08/2019
Expiration Date:	7/13/19
Well Class:	D
Purpose:	Irrigation

Owner/Company

Name:	JASON C & AMBER SCHICKEDANZ
Address:	PO BOX 3
City/State/Zip:	PERRYTON, TX 79070
Phone:	(806) 648-1481

Applicant

Name:	JASON C & AMBER SCHICKEDANZ
Address:	PO BOX 3
City/State/Zip:	PERRYTON, TX 79070
Phone:	(806) 648-1481

Permit Location

Property ID: 8065

Driller: HYDRO RESOURCES (TX) #2366 07/02/19

County:	OCHILTREE	**Longitude:**	-100.763050	**Latitude:**	36.360340
Section:	927	**Block:**	43	**Survey:**	H&TC
Quarter:	NW/4	**Yards N/S:**	224 N	**Yards E/W:**	225 W

Property Line Easement: No

Well Status: Permit

Replacement Well:

Status Of Well Being Replaced:

I do hereby certify that I am the Groundwater Production Unit Owner or authorized by the Groundwater Production Unit Owner to file this Permit application. I affirm that the forgoing information in this application is true and correct. I agree, for the Well constructed hereunder, to provide the District all driller's logs and well reports as required by the District Rules within 30 days after the expiration of the Well Permit. I agree that a water well flow meter must be installed to measure Groundwater water production from the well before the well can be operated. I understand that the well must be operated and maintained in accordance with the District's rules, including District Rule 5.1.4.A. which requires every Well on the Groundwater Production Unit to have a flow meter installed 365 days after the approval of this permit. Provided, however, on Groundwater Production Units of 640 acres or less, under District Rule 5.1.4.B, groundwater production may be metered at the Well, or at a Central Collection Point

Applicant Signature: [signature] **Date:** 2/8/19

Approved By: [signature] **Date:** 2-13-18

Approved By: Kristen L. Blackwell **Date:** 02/13/2019

GROUNDWATER PRODUCTION UNIT REQUIREMENTS BASED ON PERMITTING NEW WELL

OC-10946

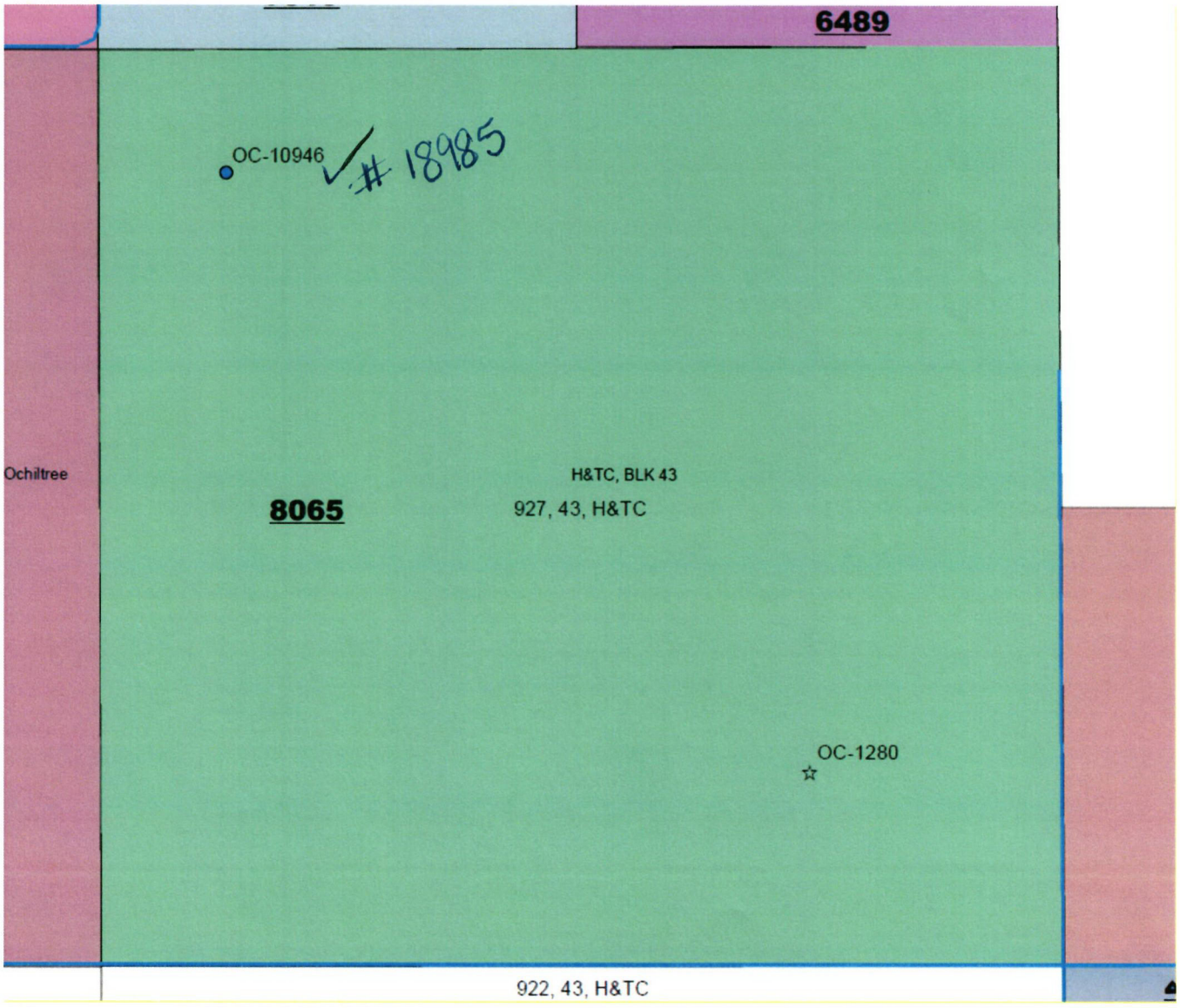
All non-exempt wells in **GPU 8065** must have a District approved flow meter installed at the well and the GPU be in full compliance with District Rules no later than **2/13/2020**

Wells labeled with:

1. a colored dot must have a flow meter installed at the well before any outlets, proper check valve and functioning low pressure drain including Auxiliary wells denoted by a yellow circle with a red cross.
2. a diamond must be properly capped and the district informed prior to being returned to production including exempt wells
3. a star must not exceed 17.5 GPM and be used for domestic or livestock use
4. a shield must be properly plugged in accordance with TDLR regulations

Blue dot represents newly permitted well(s) which must be drilled within 10 yards of the permitted location AND be in compliance with all district rules.

If your GPU is a single unit **and** you do not own or lease any surrounding land, you may contact the District about metering existing wells at the pivot. **It is your responsibility to contact the District to file the appropriate paperwork**.



Board Ready 4/13
5/13/20

Pre-Drilling Well Inspection

USE RANGE FINDER WHEN POSSIBLE

Date: 2.12.2019 Inspected By: Chris

PERMITTED INFORMATION Well #: OC-10946 Longitude: -100.763050

Well Class: D Quarter: NW Latitude: 36.360340

Section: 927 Block: 43 Survey: H&TC

☐ Property Line Easement on File **GPU ID #** 8065

Property Description SEC 927 ALL

Notes RANDY TAYLOR 922-5230

INSPECTION INFORMATION

Longitude: -100.763057 Latitude: 36.360322

Proposed Well Site is 224 **Yards** from the North Fence

Measuring Method: Range Finder

Proposed Well Site is 225 **Yards** from the West Property Line

Measuring Method: Range Finder

Wells Located 550 Yards or Less

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

GPU # 8065

Inspected by: Chris

Date Inspected 2.12.2019

Reason for Inspection PREODRILL OC-10946

Well Number	Well or Meter Longitude	Well or Meter Latitude	Meter Brand	Meter Serial Number	Meter Multiplier Factor	Gallons, Acre-ft, Acre-inch	Meter Totalizer Reading	Notes Comments or Observations	Out of Compliance? Yes/No
OC-10946	-100.763057	36.360322						predrill	no
OC-1280	-100.751752	36.350768						livestock	no

NORTH PLAINS
GROUNDWATER
Conservation District

P.O. Box 795
603 East First Street
Dumas, Tx 79029
Phone: 806-935-6401
Fa: 806-935-6633

Post-Drill Inspection

WELL NUMBER: OC-10946 **WELL CLASS** D **GPU:** 8065

Inspected By: chanes@northplainsgcd.org

Well Construction Complete: Yes

Well Location Matches Permit Location: Yes

Well Has Proper Check Valve: Yes

Meter Installed to OEM Specs: Yes

Meter Has Resettable Totalizer: Yes

Meter Serial Number: GT18083148

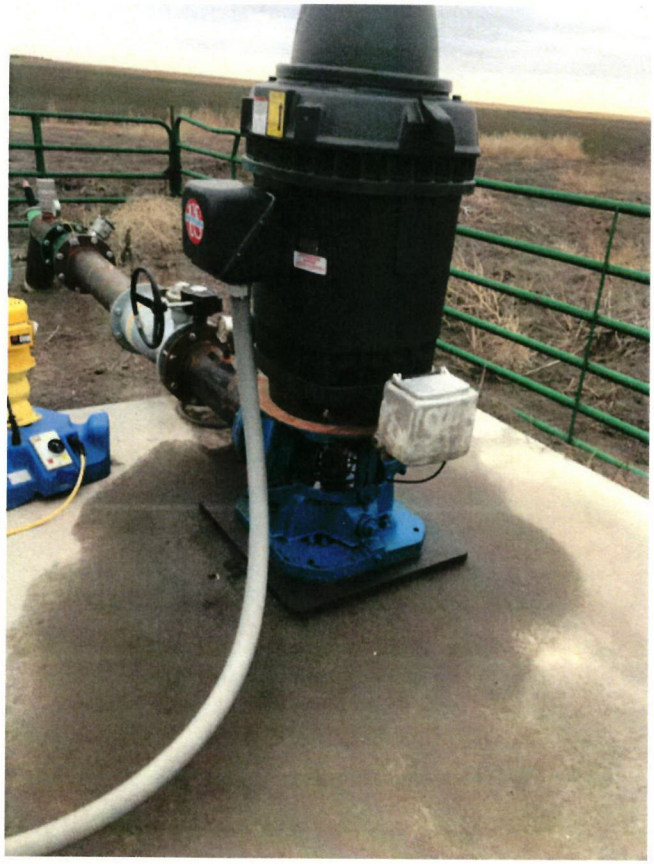
Meter Multiplier: 1000

Totalizer is Sufficient for Year: Yes

Meter Appears Functional: Yes

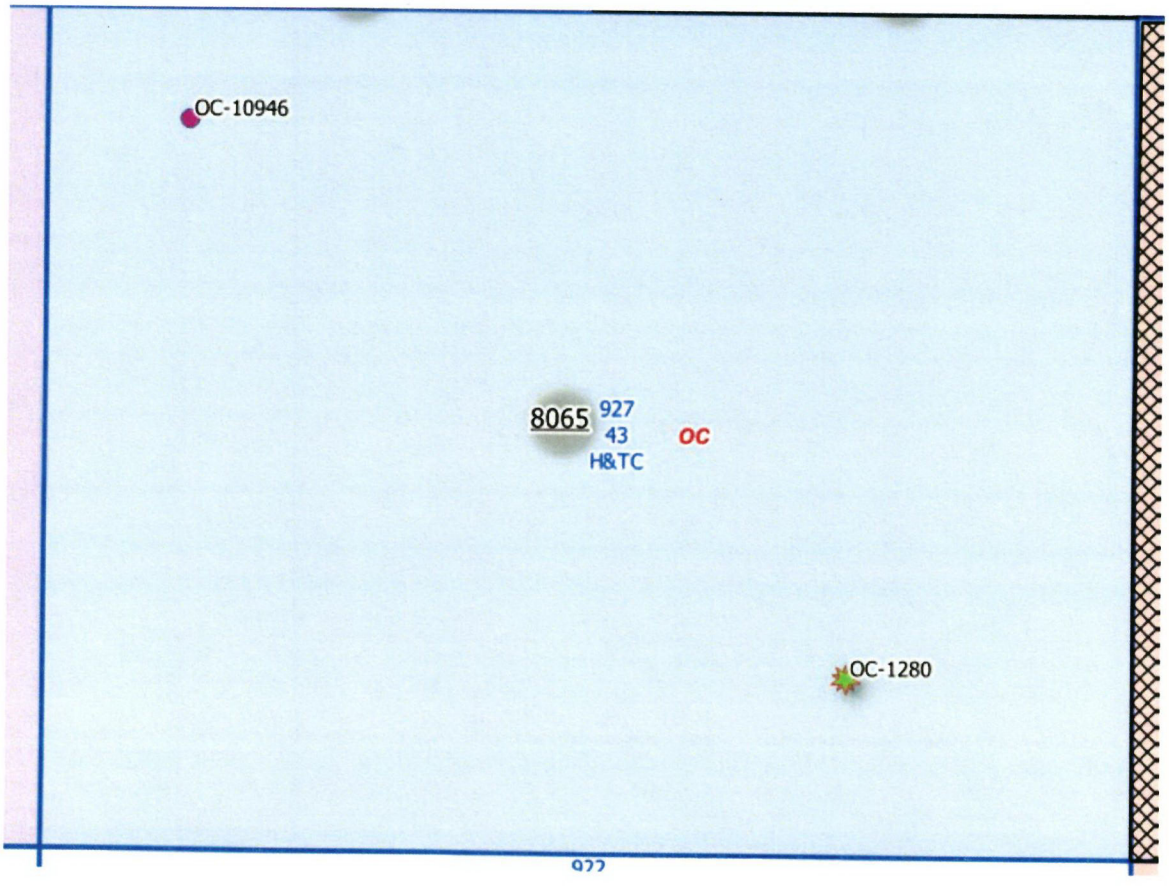
Meter Units: Gallons

Meter Brand: GrowSmart








OC-10946
8065
927
43
H&TC
OC
OC-1280

5

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Dwayne Sager do hereby certify that Well No. _____ located in DeWitt County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of ~~Ø~~ GPM, and meets the spacing requirements of ~~Ø~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

OC-1078, OC-1075, OC-1076, OC-1077, + OC-1081

Dwayne Sager
Signature (Owner/Agent)

6-20-06
Date

(6)

North Plains Ground Water Conservation District No. Two

Well Reclassification

Request for Reclassification of Well No. OC-1081

Current size or classification (as per permit or log) B .
Requested new classification domestic .

I, BlueTex, L.C. does hereby certify that well no. OC-1081, located in Ochiltree County, in the SW. 1/4 of Section 1010, Block 43, H&T.C. Survey, will not be operated to exceed the actual pumping capacity of 25 gallons per minute and meets the spacing requirements of 0 yards from the nearest existing well or authorized well site and other rules of the District for a dom. Classification well.

Date Aug. 14, 1996.

Signature of owner or agent.

08/14/96 04:13 ☎ 806 659 3165 NORTH PLAINS GCD P.02

Domestic

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1081
Date Received 9/9/96
Size of Well DOM in. Maximum Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 582 measured yards from N or S section line. / 280 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top Soil			
4	56	Sandy Clay / Caliche			
56	62	Caliche			
62	85	Sandy Clay			
85	97	Sand			
97	110	Sandy Clay			
110	162	Sandy Clay / Caliche			
162	200	Sand / Caliche			
200	220	Caliche			
220	257	Sand & Gravel			
257	263	Clay			
263	273	Sand			
273	277	Sand / Clay			
277	280	Clay			
280	293	Sand			
293	301	Sand / Clay Streaks			
301	310	Clay			
310	353	Fine Sand			
353	360	Red Clay / Sandy Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver, OK 73932 Date Drilled 8-6 19 96

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 360 ft.

7. Casing perforations: from 240 ft to 360 ft. Size .032 x 2½ Number per foot 230.

8. Pump Column: Size _____ in. Total length _____ ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 200 ft. Pump discharge 50 GPM. Pumping level: 336 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower _____.

Signature Alva Howard (OWNER OR AGENT) Driller & Partner (TITLE) Box 806 Beaver, OK 73932 (ADDRESS)

Final Completion of Well — Date 8-6, 19 96.

(5)

Reclassified

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1081
TIME: 5:30 P.M
DATE APPLICATION FILLED OUT Aug 13, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander Tx. 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

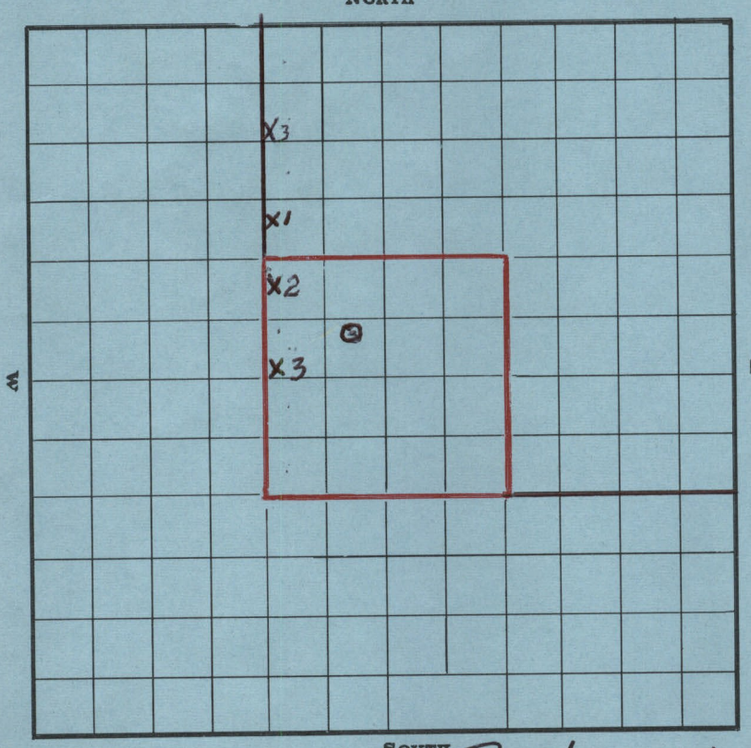
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43
   Survey H.+T.C.
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about _____, 19__
6. Drillers name Howard Drilling

This well will be 1.5 miles ~~E~~ or S and 2 miles ~~E~~ or W of the town of Perryton, Tx
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within **Red Square** for proposed well location. (Red square indicates 1 quarter section
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure
Your Measurements are Correct—
They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
582 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
280 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 472 measured yards from proposed well.
Owned by BlueTex, L.C
Address _____

Well 2 291 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 3 374 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

COMMENT Reclassified to domestic

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Phillip Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 806 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

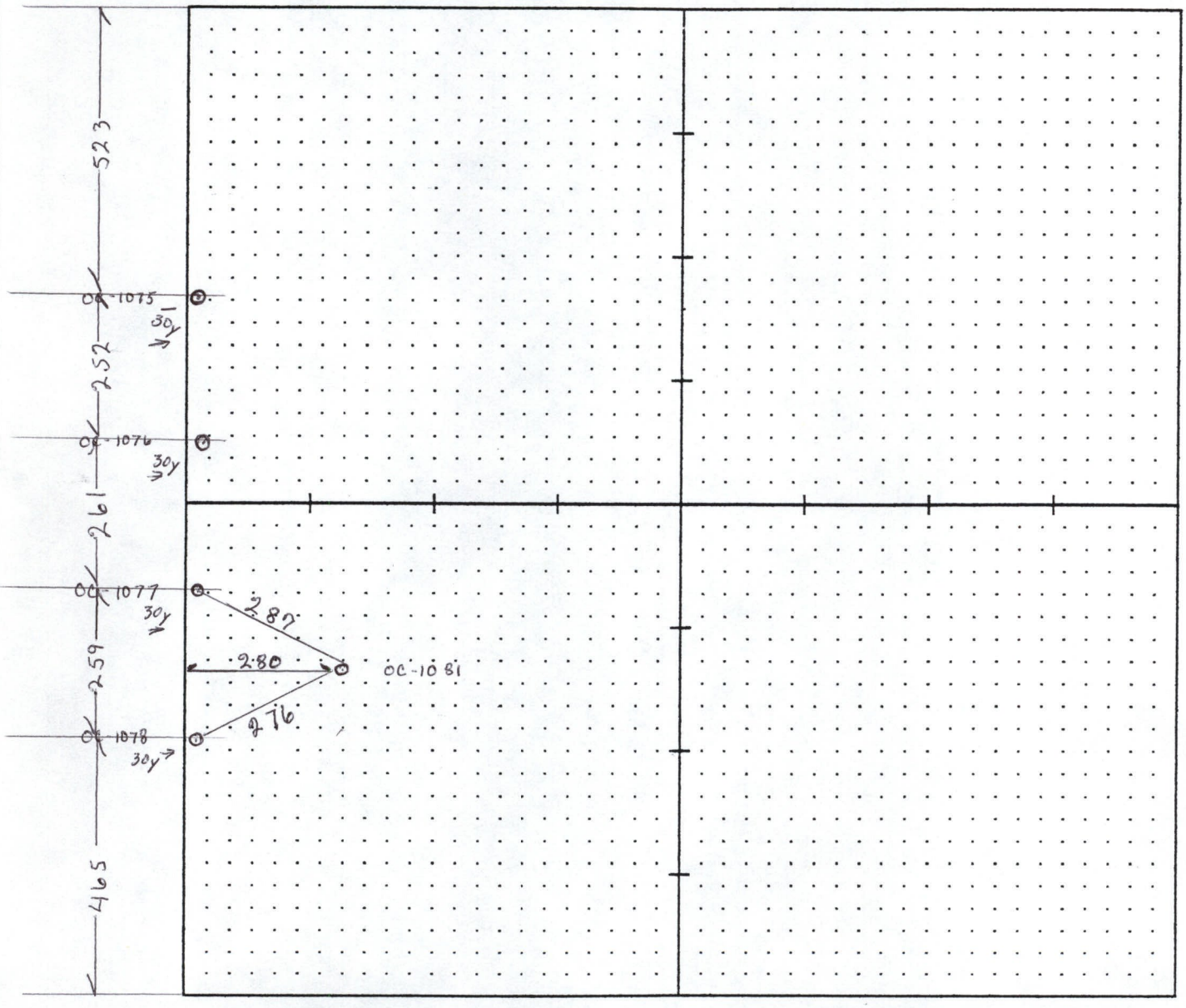
1. _____ 2. Dean Leghorn 3. David Rector

Well Spacing Chart

B-Wells

Blue-Tex
Proposed Wells
Och. Co.

Each Dot = 40 Yds. **Each Tic Mark =220 Yds.**



Each Dot = 40 Yds. **Each Tic Mark =220 Yds.**

Well to be Drilled Classification	Existing Well or Permit Classification	Spacing Distance Between Wells
Domestic	Domestic	None
Domestic	A	75 Yds.
Domestic	B	125 Yds.
Domestic	C	200 Yds.
Domestic	D	250 Yds.
A	A or Smaller	150 Yds.
A	B	200 Yds.
A	C	225 Yds.
A	D	325 Yds.

Well to be Drilled Classification	Existing Well or Permit Classification	Spacing Distance Between Wells
B	B or Smaller	250 Yds.
B	C	325 Yds.
B	D	375 Yds.
C	C or Smaller	400 Yds.
C	D	450 Yds.
D	D or Smaller	500 Yds.

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) b

Requested new classification Unused

I Dwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, + OC-181 located in Dallam County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of Ø GPM, and meets the spacing requirements of Ø yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Dwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

FOR USE OF COMMITTEEMEN
Field Well No. OC-1077
Date Received 9/9/96
Size of Well B in. Maximum Yield _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 724 measured yards from N or S section line. / 30 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Top Soil			
3	63	Sandy Clay / Caliche			
63	82	Sand			
82	125	Sand / Caliche			
125	190	Sandy Clay			
190	240	Fine Sand / Caliche			
240	282	Sand / Clay Streaks			
282	285	Clay / Sand Streaks			
285	297	Sand			
297	304	Clay			
304	321	Fine Sand			
321	340	Clay / Sand Streaks			
340	387	Sand			
387	400	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver, Ok 73932 Date Drilled 7-29 19 96

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 400 ft.

7. Casing perforations: from 280 ft to 400 ft. Size .032 x 2½. Number per foot 230.

8. Pump Column: Size 2½ in. Total length 367 ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 200 ft. Pump discharge 100 GPM. Pumping level: 367 ft.

11. Power Unit: (Electrical); Natural Gas, Butane, Other _____. Horsepower 20

Signature Alva Howard OWNER OR AGENT Driller & Partner TITLE Box 806 Beaver, OK 73932 ADDRESS

Final Completion of Well — Date 7-29, 19 96.

Refunded 3-21-97 ck. #1296

(3)

Dist. 2--Form No. 659 AWWP

District File No. _____
USE OF DISTRICT OFFICE ONLY

Original—District Office Copy

FIELD WELL NO. OC-1077
TIME: 11:15 A.M.
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL 8 MAXIMUM YIELD <400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander TX. 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

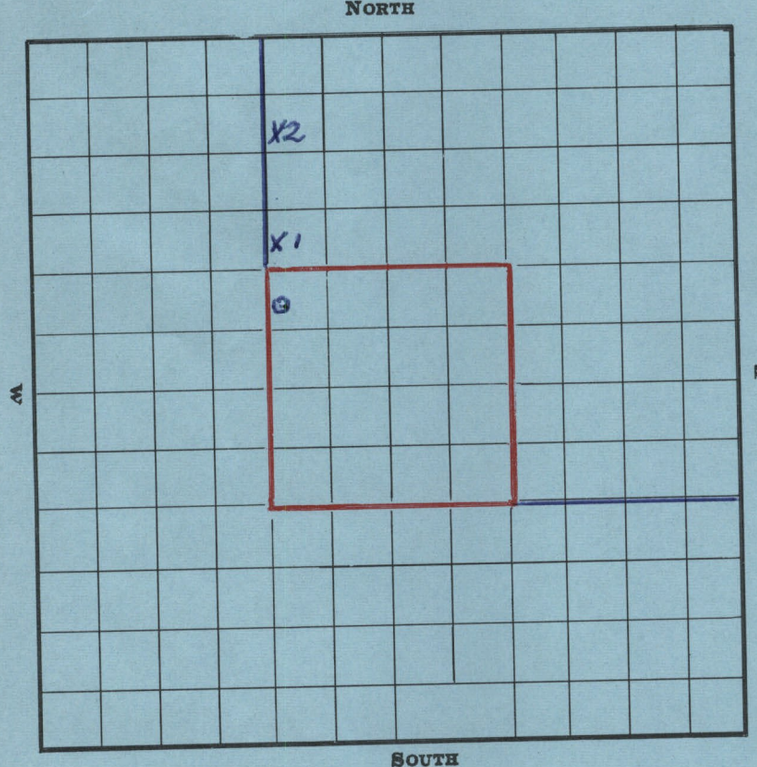
1. County Oldham
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43
   Survey H+T.C.
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 2 miles ~~N~~ or S and 2
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of PERRYTON, TX
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within **Red Square** for proposed well location. (Red square indicates 1 quarter section
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

724 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY

30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 257 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 2 510 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 3 _____ measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Phillip Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 806 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. _____ 2. Dean Leighton 3. Dennis Kruse

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Duwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, + OC-181 located in DeWitt County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of ~~Ø~~ GPM, and meets the spacing requirements of ~~Ø~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Duwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1076
Date Received 9/9/96
Size of Well B in. Maximum Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431
2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton
3. County Ochiltree League _____
4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC
5. ACTUAL LOCATION OF THIS WELL IS { 775 measured yards from N or S section line. / 30 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Topsoil			
3	61	Sandy Clay / Caliche			
61	70	Caliche			
70	80	Sandy Clay / Sand			
80	130	Fine Sand / Sandy Clay			
130	168	Sand			
168	231	Sandy Clay			
231	265	Sand			
265	285	Sandy Clay			
285	292	Clay			
292	300	Sand			
300	308	Clay			
308	345	Sandy Clay			
345	390	Sand / Fine Sand			
390	400	RED Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver, Ok. 73932 Date Drilled 7-28-96 19__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 400 ft.
7. Casing perforations: from 260 ft to 400 ft. Size .032 x 2½. Number per foot 230.
8. Pump Column: Size 2½ in. Total length 367 ft. Suction pipe: Size _____ in. Length _____ ft.
9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.
10. Depth to water level 195 ft. Pump discharge 100 GPM. Pumping level: 367 ft.
11. Power Unit: (Electrical), Natural Gas, Butane, Other _____. Horsepower 15

Signature Alva Howard (OWNER OR AGENT) Driller & Partner (TITLE) Box 806 Beaver, OK 73932 (ADDRESS)

Final Completion of Well — Date 7-28, 19 96.

Refunded 3-21-97 ck. #1296

(2)

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1076
TIME: 11:15 AM
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander TX 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

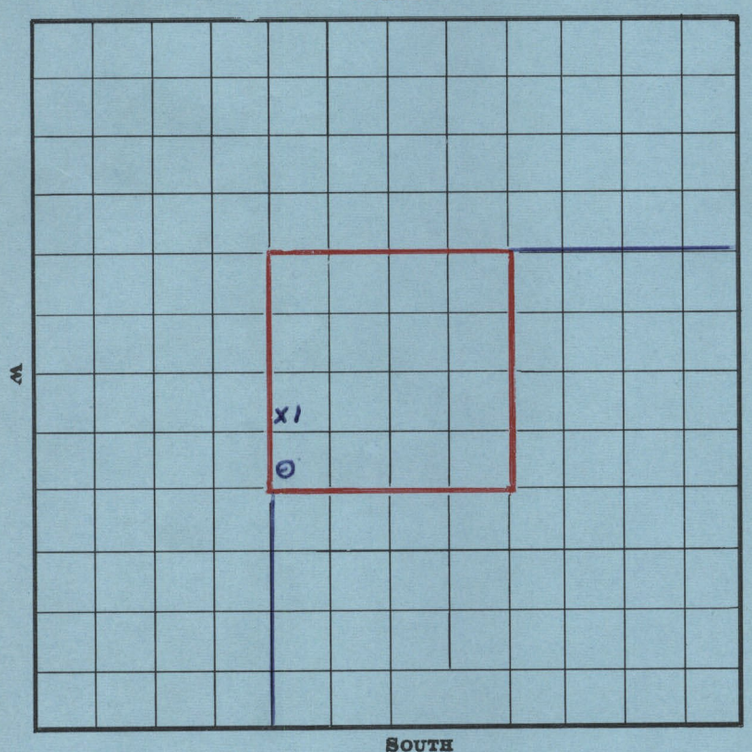
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43 Survey H+TC
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 2 miles ~~N~~ or S and 2 miles E or W of the town of PERRYTON, TX
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
775 measured yards from (N ~~S~~) section line and
MARK OUT ONE THAT DOES NOT APPLY
30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 253 measured yards from proposed well.
Owned by BlueTex L.C
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: R. Shelby Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 806 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. [signature] 2. Dean Leighton 3. [signature]

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Dwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, + OC-181 located in Dekiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of Ø GPM, and meets the spacing requirements of Ø yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Dwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1075
Date Received 9/9/96
Size of Well B Maximum in. Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 523 measured yards from (N) or S section line. / 30 measured yards from E or (W) section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Topsoil	392	403	Fine Sand
3	41	Caliche / Sandy Clay	403	420	Red Clay / Sandy Clay
41	62	Caliche Clay / Sandy Clay			
62	65	Caliche Rock			
65	140	Sand / Clay			
140	158	Clay			
158	179	Sandy Clay			
179	219	Sand			
219	230	Caliche			
230	262	Sand			
262	270	Clay			
270	283	Sand			
283	290	Clay			
290	295	Sand			
295	300	Clay			
300	315	Sand			
315	323	Clay			
323	340	Sandy Clay			
340	385	Sand			
385	392	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806, Beaver, OK. 73932 Date Drilled 07-27-96 19 __

DESCRIPTION OF WELL

6. Casing: (new) used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 420 ft.

7. Casing perforations: from 260 ft to 420 ft. Size .032 x 2½. Number per foot 230.

8. Pump Column: Size 2 in. Total length 378 ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 195 ft. Pump discharge 100 GPM. Pumping level: 388 ft.

11. Power Unit: (Electrical) Natural Gas, Butane, Other _____. Horsepower 10

Signature Alva Howard Driller & Partner Box 806 Beaver 73932
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date 07-27, 19 96.

Refunded 3-21-97 ck. #1296

(1)

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. QC-1075
TIME: 11:A.M.
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL B MAXIMUM YIELD K400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. 16812 F.M. 1431 Leander TX. 78641
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

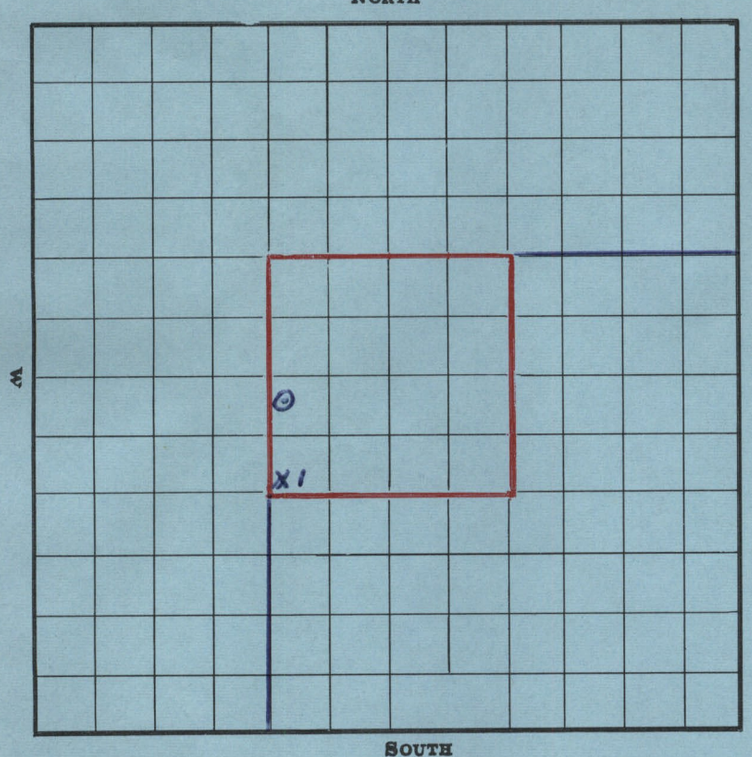
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43
   Survey H+TC
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 1.5 miles ~~N~~ or S and 2
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of PERRYTON, TX
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

523 measured yards from (N ~~S~~) section line and
MARK OUT ONE THAT DOES NOT APPLY

30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 252 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Riggs Howard Agent Box 606
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. [signature] 2. [signature] 3. [signature]

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Duwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, & OC-181 located in Dehiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H&TC will not be operated to exceed the actual pumping capacity of ~~Ø~~ GPM, and meets the spacing requirements of ~~Ø~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Duwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1088
Date Received 9/9/96
Size of Well B in. Maximum Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 465 measured yards from N or S section line. / 30 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top Soil			
4	62	Sandy Clay / Caliche			
62	85	Sandy Clay			
85	90	Sand			
90	105	Sandy Clay			
105	150	Sandy Clay / Caliche			
150	162	Sandy Clay			
162	201	Sand / Caliche			
201	220	Caliche			
220	240	Fine Sand			
240	260	Clay			
260	275	Fine Sand			
275	280	Clay			
280	290	Sand			
290	301	Clay			
301	330	Sandy Clay			
330	360	Fine Sand			
360	370	Red Sandy Clay			
370	380	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver OK 73932 Date Drilled 8-5 19 96

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 380 ft.

7. Casing perforations: from 280 ft to 380 ft. Size .032 x 2½. Number per foot 230.

8. Pump Column: Size 2½ in. Total length 357 ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 200 ft. Pump discharge 100 GPM. Pumping level: 357 ft.

11. Power Unit: (Electrical), Natural Gas, Butane, Other _____. Horsepower 15

Signature Alva Howard Driller & Partner Box 806 Beaver, OK 73932
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date 8-5, 19 96

Refunded 3-21-97 M. #1296

(4)

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1078
TIME: 11:15 A.M
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander Tx. 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

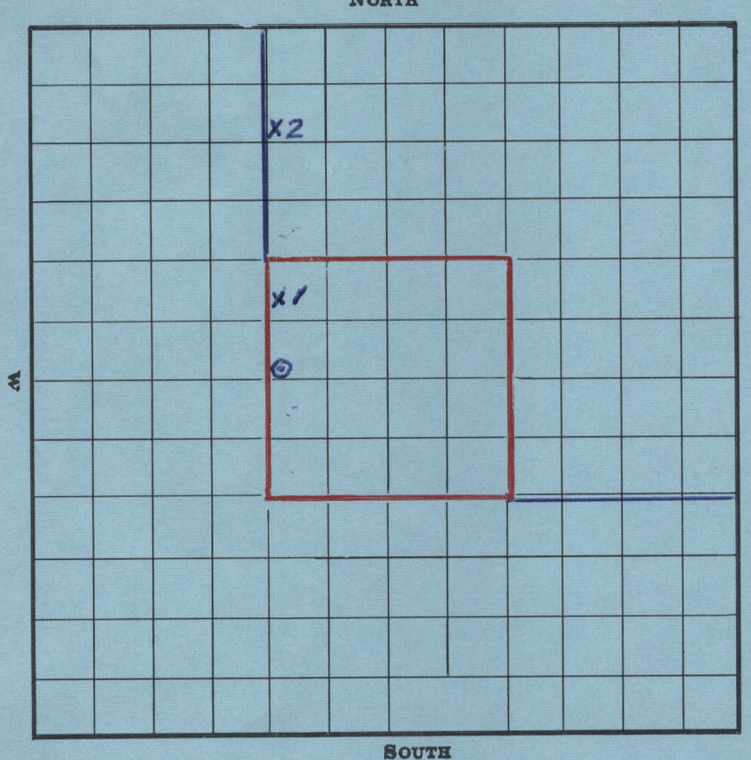
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43 Survey H+TC
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-~~Industrial~~-Irrigation) MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 1.75 miles N or ~~S~~ and 2 miles ~~E~~ or W of the town of Pearyton, Tx
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
465 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 259 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 2 516 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 3 _____ measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: R. Culley Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 406 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. [signature] 2. Dean Leaghnor 3. [signature]

(6)

Residential Well

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____ USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1082
TIME: 9:15 A.M.
DATE APPLICATION FILLED OUT Aug 14, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 FM 1413 Leander TX 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

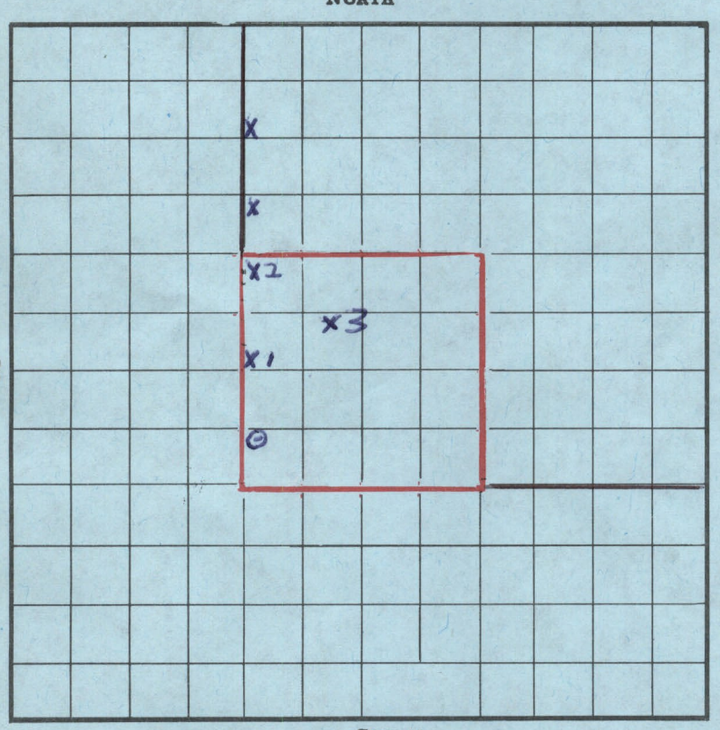
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43 Survey H+T.C.
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~) MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about Aug 14, 1996
6. Drillers name Howard Drilling

This well will be 1.5 miles ~~N~~ or S and 2 miles E or ~~W~~ of the town of Perryton, Tx. MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct—They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
173 measured yards from (~~N~~ S) section line and MARK OUT ONE THAT DOES NOT APPLY
30 measured yards from (~~E~~ W) section line. MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 750 measured yards from proposed well.
Owned by BlueTex, L.C
Address _____

Well 2 541 measured yards from proposed well.
Owned by BlueTex L.C.
Address _____

Well 3 711 measured yards from proposed well.
Owned by BlueTex, LC
Address _____

COMMENT X3(1081) is Reclassified to Domestic

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: _____ SIGNATURE (OWNER OR AGENT) TITLE ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Dean Leighton 2. Rocky Trevilles 3. Donald D. Krueger

STATE OF TEXAS WELL REPORT for Tracking #502986

Owner:	**Jason Schickedanz**	Owner Well #:	**TH 11-19**
Address:	**PO Box 3** **Perryton, TX 79070**	Grid #:	**04-42-3**
		Latitude:	**36° 21' 39.14" N**
Well Location:	**Sec 927, BLK 43, H & TC** **Perryton, TX**	Longitude:	**100° 45' 35.34" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
		****Plugged Within 48 Hours****	

****This well has been plugged**** **Plugging Report Tracking #184222**

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

Drilling Start Date: **1/31/2019** Drilling End Date: **1/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**4.5**	**0**	**700**

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

Borehole Completion: **Plugged**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**5**	**20**	**Cement 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: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Hydro Resources Mid Continent Inc.**

PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**14**	**surface top soil brown clay**
14	**200**	**sand w/sandy caly strips**
200	**220**	**fine fairly loose sand**
220	**240**	**fine fairly loose sand**
240	**260**	**fine fairly loose sand w/clay mix**
260	**280**	**fine fairly loose sand w/clay mix & clay strips**
280	**300**	**fine fairly loose sand w/little clay mix**
300	**320**	**fine fairly loose sand w/little clay mix**
320	**340**	**fine to med fine fairly loose sand**
340	**360**	**med fine fairly loose sand to fine sand w/clay mix**
360	**380**	**fine fairly loose sand w/clay mix to red sandy clay**
380	**400**	**red sandy clay w/fine red sand strips & clay mix**
400	**420**	**red sandy clay to very fine red sand w/clay mix**
420	**440**	**very fine fairly loose red sand w/clay mix**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

440	460	very fine farily loose red san w/clay mix
460	480	fine fairly loose sand to red sandy clay
480	500	red sandy clay & clay
500	520	red sandy caly & clay
520	540	red sandy caly & clay
540	560	red silty clay
560	580	red silty clay
580	600	red silty clay
600	620	red clay w/silt sand strips
620	640	red silt w/clay mix
640	660	red clay
660	680	red clay
680	700	red clay

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

DOMESTIC WORKSHEET 3.0 –
GROUNDWATER QUALITY ASSESSMENT

The City of Perryton and its waste water treatment plant falls in the area of the Ogallala Aquifer. The Ogallala Aquifer is the largest aquifer in the United States and is a major aquifer of Texas underlying much of the High Plains region. The aquifer consists of sand, gravel, clay, and silt and has a maximum thickness of 800 feet. Freshwater saturated thickness averages 95 feet. Water to the north of the Canadian River is generally fresh, with total dissolved solids typically less than 400 milligrams per liter. However, water quality diminishes to the south, where large areas contain total dissolved solids in excess of 1,000 milligrams per liter. Increased salinity may be associated with evaporative concentration of groundwater in saline playa lakes in the southern portion of the aquifer, up flow of more saline groundwater from the underlying Dockum Aquifer and other sources.

The Ogallala Aquifer provides significantly more water for users than any other aquifer in the state. The availability of this water is critical to the economy of the region, as approximately 95 percent of groundwater pumped is used for irrigated agriculture. Throughout much of the aquifer, groundwater withdrawals exceed the amount of recharge, and water levels have declined fairly consistently through time. Although water level declines in excess of 300 feet have occurred in several areas over the last 50 to 60 years, the rate of decline has slowed, and water levels have risen in a few areas.

The City of Perryton currently land applies treated domestic water from their municipal wastewater treatment plan in accordance with their current permit (WQ0010248001). The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 1.4 million gallons per day (MGD) via surface irrigation of 570 acres of non-public access agricultural land (See attachment 8 for storage pond liner certification). Application rates to the irrigated land shall not exceed 2.75 acre-feet per year per acre irrigated for up to 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.0 acre-feet per year per acre irrigated for up to 392 acres of non-public access agricultural land (See attachments 12 and 13 for soil map and soil analysis).

Texas Water Development Board and North Plains Groundwater District were used to gather information about the wells in the surrounding area (see attachment 10 for well map and well information).

SOIL ANALYSIS REPORT

CLIENT: 41493	PKCC PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226

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1816 E. Wyatt Earp
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620.227.7123
Fax 620.227.2047

LAB NO:	87371 - 87373
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 1

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87371	WEST	0 - 6	8.3		0.54	Lo	2.2	5.3	10	31	665	28	50	4690	869	465					
87372	WEST	6 - 18	8.3		0.73	Hi	1.1	4.7	17	6	277	30	108	5950	847	542					
87373	WEST	18 - 30	8.6		0.57	Hi	0.9	2.4	9	14	242	26	94	7330	818	589					

METHOD USED:			TKN
Lab Number	Sample ID	Sample Depth	TKN ppm
87371	WEST	0 - 6	1225
87372	WEST	6 - 18	556
87373	WEST	18 - 30	446

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87371	WEST																
87372	WEST																
87373	WEST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
34	0	5	68	21	6
35	0	2	71	20	7
35	0	2	71	19	7

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 87371
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 87371, 87372, 87373
SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 87372, 87373
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Explanations of soil analysis terms are available upon request

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LAB NO:	87371 - 87373
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 1

Lab Number(s): 87372, 87373

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87374 - 87376
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 2

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87374	EAST	0 - 6	8.2		0.43	No	2.1	3.7	7	44	674	22	40	2610	867	455					
87375	EAST	6 - 18	8.1		0.77	Lo	1.2	5.3	19	7	321	34	122	4510	876	496					
87376	EAST	18 - 30	8.3		0.78	Hi	0.9	1.7	6	18	259	33	119	6360	770	470					

METHOD USED:			TKN
Lab Number	Sample ID	Sample Depth	TKN ppm
87374	EAST	0 - 6	1085
87375	EAST	6 - 18	651
87376	EAST	18 - 30	473

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87374	EAST																
87375	EAST																
87376	EAST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
24	0	7	54	30	8
33	0	3	69	22	7
34	0	2	73	19	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87374
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87374
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	87374 - 87376
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 2

Lab Number(s):87374

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s):87375

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s):87375, 87376

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s):87376

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	87377 - 87379
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 3

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87377	WEST	0 - 6	7.9		0.53	No	2.2	8.4	15	70	616	32	58	2480	813	426					
87378	WEST	6 - 18	8.1		0.79	Lo	1.2	8.4	30	11	297	31	112	4080	869	510					
87379	WEST	18 - 30	8.3		0.68	Hi	1.0	9.9	36	17	254	43	155	6230	834	465					

METHOD USED:			TKN
Lab Number	Sample ID	Sample Depth	TKN ppm
87377	WEST	0 - 6	1255
87378	WEST	6 - 18	646
87379	WEST	18 - 30	518

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87377	WEST																
87378	WEST																
87379	WEST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
23	0	7	55	30	8
31	0	2	67	24	7
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87377
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87377
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87377 - 87379
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 3

Lab Number(s): 87377

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87378

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87378, 87379

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 87379

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87380 - 87382
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON

FIELD IDENTIFICATION: SITE 4

METHOD USED:

Lab Number	Sample ID	Sample Depth	1:2 Soil-Water Soil pH	Buffer pH	1:2 Soil-Water Sol. Salts mmho/cm	XSL(i) Excess Lime	LOI(r) % Organic Matter	Cd Reduction Nitrate-Nitrogen ppm	Cd Reduction Nitrate-Nitrogen lb. N/A	Mehlich 3 ICP Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87380	EAST	0 - 6	8.0		0.60	No	2.4	14.2	26	58	806	33	59	2470	873	429					
87381	EAST	6 - 18	8.1		0.66	Lo	1.1	4.2	15	7	321	27	97	5160	845	381					
87382	EAST	18 - 30	8.3		0.62	Hi	0.9	2.2	8	13	252	31	112	6990	854	465					

METHOD USED:

Lab Number	Sample ID	Sample Depth	TKN ppm
87380	EAST	0 - 6	1310
87381	EAST	6 - 18	626
87382	EAST	18 - 30	469

FERTILIZER RECOMMENDATIONS:

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	POUNDS ACTUAL NUTRIENT PER ACRE N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87380	EAST																
87381	EAST																
87382	EAST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
24	0	9	52	31	8
35	0	2	72	20	5
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87380
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87380
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87380 - 87382
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 4

Lab Number(s): 87380

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87381

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s): 87381, 87382

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	87383 - 87385
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 5

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87383	WEST	0 - 6	7.9		0.43	No	2.1	10.1	18	52	628	25	45	2620	831	396					
87384	WEST	6 - 18	8.1		0.69	Lo	1.2	10.3	37	8	309	28	101	4250	899	522					
87385	WEST	18 - 30	8.4		0.62	Hi	1.0	5.9	21	15	246	26	94	6710	836	499					

METHOD USED:			TKN																		
Lab Number	Sample ID	Sample Depth	TKN ppm																		
87383	WEST	0 - 6	1223																		
87384	WEST	6 - 18	792																		
87385	WEST	18 - 30	693																		

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
				6.0	6.5	7.0											
87383	WEST																
87384	WEST																
87385	WEST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
23	0	7	56	30	7
32	0	2	67	24	7
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87383
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87383
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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SOIL ANALYSIS REPORT

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LAB NO:	87383 - 87385
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 5

Lab Number(s):87384

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s):87384, 87385

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s):87385

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87386 - 87388
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON

FIELD IDENTIFICATION: SITE 6

METHOD USED:

Lab Number	Sample ID	Sample Depth	1:2 Soil-Water Soil pH	Buffer pH	1:2 Soil-Water Sol. Salts mmho/cm	XSL(l) Excess Lime	LOI(r) % Organic Matter	Cd Reduction Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Mehlich 3 ICP Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87386	EAST	0 - 6	7.9		0.44	No	2.3	9.7	17	48	533	28	50	2240	686	360					
87387	EAST	6 - 18	8.1		0.66	Lo	1.2	16.6	60	7	339	28	101	3730	875	513					
87388	EAST	18 - 30	8.4		0.58	Hi	0.9	4.3	15	11	261	32	115	6530	828	447					

METHOD USED:

Lab Number	Sample ID	Sample Depth	TKN TKN ppm
87386	EAST	0 - 6	1584
87387	EAST	6 - 18	911
87388	EAST	18 - 30	629

FERTILIZER RECOMMENDATIONS:

POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87386	EAST																
87387	EAST																
87388	EAST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
20	0	7	56	29	8
29	0	3	64	25	8
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 87386
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 87386
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Explanations of soil analysis terms are available upon request

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LAB NO:	87386 - 87388
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 6

Lab Number(s): 87386

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87387

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87388

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s): 87388

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90854 - 90856
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90854	SITE 1	0 - 6	8.1		0.57	No	2.1	5.4	10	32	690	38	68	3640	1030	462					
90855	SITE 1	6 - 18	8.4		0.48	Lo	1.2	2.6	9	21	358	29	104	6120	965	517					
90856	SITE 1	18 - 30	8.4		0.73	Hi	1.1	1.5	5	25	292	47	169	6840	950	559					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90854	SITE 1	0 - 6	1174	1169
90855	SITE 1	6 - 18	612	609
90856	SITE 1	18 - 30	501	499

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90854	SITE 1																
90855	SITE 1																
90856	SITE 1																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
31	0	6	60	28	7
36	0	3	69	22	6
36	0	2	69	22	7

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90854
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90854, 90855, 90856
SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90854 - 90856
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

Lab Number(s): 90854, 90856

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 90856

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90857 - 90859
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP											
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90857	SITE 2	0 - 6	8.2		0.33	No	2.3	6.6	12	54	693	16	29	2970	946	314					
90858	SITE 2	6 - 18	8.5		0.49	Lo	1.2	2.9	10	17	358	24	86	5750	956	452					
90859	SITE 2	18 - 30	8.5		0.72	Hi	1.0	<1.0	<4	27	266	46	166	7390	889	528					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90857	SITE 2	0 - 6	1312	1305
90858	SITE 2	6 - 18	623	620
90859	SITE 2	18 - 30	487	486

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
				6.0	6.5	7.0											
90857	SITE 2																
90858	SITE 2																
90859	SITE 2																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
26	0	7	57	30	5
36	0	3	70	22	5
35	0	2	71	21	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90857
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90857, 90858, 90859
SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90859
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90860 - 90862
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP											
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90860	SITE 3	0 - 6	8.2		0.38	No	2.4	<1.0	<2	95	722	20	36	2990	847	345					
90861	SITE 3	6 - 18	8.5		0.58	Lo	1.2	1.1	<4	18	386	26	94	5380	1020	468					
90862	SITE 3	18 - 30	8.5		0.59	Hi	1.0	<1.0	<4	20	289	41	148	7260	988	534					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90860	SITE 3	0 - 6	1435	1434
90861	SITE 3	6 - 18	623	622
90862	SITE 3	18 - 30	488	487

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90860	SITE 3																
90861	SITE 3																
90862	SITE 3																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
25	0	7	59	28	6
37	0	3	68	23	6
36	0	2	69	23	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90860
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90860
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90860 - 90862
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

Lab Number(s): 90861, 90862

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90862

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	90863 - 90865
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90863	SITE 4	0 - 6	8.1		0.32	No	2.5	1.8	3	56	704	13	23	2630	845	263					
90864	SITE 4	6 - 18	8.4		0.47	Lo	1.1	3.8	14	7	313	23	83	5490	893	436					
90865	SITE 4	18 - 30	8.5		0.62	Hi	1.1	1.2	4	18	274	44	158	7460	985	514					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90863	SITE 4	0 - 6	1444	1442
90864	SITE 4	6 - 18	625	621
90865	SITE 4	18 - 30	486	485

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90863	SITE 4																
90864	SITE 4																
90865	SITE 4																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
23	0	8	57	30	5
35	0	2	71	21	5
36	0	2	69	23	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90863
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90863
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

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Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90863 - 90865
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

Lab Number(s): 90864, 90865

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90865

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator — Michele Lawson

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LAB NO:	90866 - 90868
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90866	SITE 5	0 - 6	8.2		0.31	No	2.0	1.1	<2	60	578	15	27	3020	845	301					
90867	SITE 5	6 - 18	8.5		0.66	Hi	1.0	13.2	48	16	229	38	137	7920	866	472					
90868	SITE 5	18 - 30	8.4		0.62	Lo	1.2	10.1	36	12	254	24	86	5830	846	385					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90866	SITE 5	0 - 6	1210	1209
90867	SITE 5	6 - 18	544	531
90868	SITE 5	18 - 30	697	687

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90866	SITE 5																
90867	SITE 5																
90868	SITE 5																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
25	0	6	61	28	5
35	0	2	72	21	6
34	0	2	73	21	5

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90866
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90866
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90867
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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SOIL ANALYSIS REPORT

CLIENT: 41493	PKCC PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226

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1816 E. Wyatt Earp
PO Box 1397
Dodge City, KS 67801
800.557.7509
620.227.7123
Fax 620.227.2047

LAB NO:	90866 - 90868
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

Lab Number(s): 90867, 90868

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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SOIL ANALYSIS REPORT

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Dodge City, KS 67801
800.557.7509
620.227.7123
Fax 620.227.2047

LAB NO:	90869 - 90871
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90869	SITE 6	0 - 6	8.2		0.32	No	1.9	5.2	9	59	584	15	27	2640	753	314					
90870	SITE 6	6 - 18	8.4		0.56	Lo	1.3	12.6	45	9	315	28	101	5770	849	487					
90871	SITE 6	18 - 30	8.5		0.63	Hi	0.9	14.8	53	13	258	32	115	6600	808	461					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90869	SITE 6	0 - 6	1232	1227
90870	SITE 6	6 - 18	713	700
90871	SITE 6	18 - 30	522	507

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
				6.0	6.5	7.0											
90869	SITE 6																
90870	SITE 6																
90871	SITE 6																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
22	0	7	59	28	6
35	0	2	71	20	6
34	0	2	73	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90869
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90869
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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SOIL ANALYSIS REPORT

CLIENT: 41493	PKCC PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226

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PO Box 1397
Dodge City, KS 67801
800.557.7509
620.227.7123
Fax 620.227.2047

LAB NO:	90869 - 90871
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

Lab Number(s): 90870, 90871

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90871

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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Lab SampleRange: 90825-90919 | **Dodge City: Soil Data Quality Control Report** | Conductivity Meter

Soil: Soluble Salts Soil-Water EC (1:2) | **Mar 1 2024 12:56PM 817206 Batch: A Instrument: AMA-EC JenWay**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MGB	0.446	0.483	0.405	0.397	0.432	0.446	0.456	0.432	0.434	0.440	0.401	0.462	106	0.409	0.407	0.060	0.055	14.7	13.6	0.296 - 0.518	36	1	1

LAB #	90833	90852	90869	90877	90887	90905
ORIGINAL	0.232	0.928	0.317	3.680	0.163	0.422
DUPLICATE	0.230	0.905	0.312	3.300	0.205	0.437
% RD	0.9	2.5	1.6	10.9	22.8	3.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		11/12 91.7%	(>=33.3%)	
2 SD		12/12 100.0%	(>=66.7%)	(<25%)
3 SD		12/12 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 16/18 88.9%

Order of Analysis: 90825-90832, >90833, MGB-1, 90833-90840, >90852, MGB-2, 90841-90848, >90869, MGB-3, 90849-90856, >90877, MGB-4, 90857-90864, >90887, MGB-5, 90865-90872, >90905, MGB-6, 90873-90881, MGB-7, 90882-90890, MGB-8, 90891-90899, MGB-9, 90900-90908, MGB-10, 90909-90917, MGB-11, 90918-90919, MGB-12

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 10:05 am	MicheleL	Signer	
Y	03/04/2024 9:00 am	GalenS	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 4/11/2024 3:55 pm

Lab SampleRange: 90825-90919 **Soil:** pH Soil-Water (1:2)

Dodge City: Soil Data Quality Control Report

Mar 1 2024 12:56PM 817206 Batch: A Instrument: Auto pH North

pH Electrode

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MGB	5.26	5.27	5.23	5.30	5.33	5.20	5.24	5.20	5.23	5.22	5.31	5.19	106	5.31	5.30	0.09	0.07	1.8	1.3	5.16 -	5.44	25	6	3

LAB #	90833	90852	90869	90877	90887	90905
ORIGINAL	8.30	8.18	8.16	8.48	8.38	8.75
DUPLICATE	8.35	8.19	8.18	8.39	8.20	8.62
% RD	0.6	0.1	0.3	1.0	2.2	1.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		9/12 75.0%	(>=33.3%)	
2 SD		12/12 100.0%	(>=66.7%)	(<25%)
3 SD		12/12 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 18/18 100.0%

Order of Analysis: 90825-90832, >90833, MGB-1, 90833-90840, >90852, MGB-2, 90841-90848, >90869, MGB-3, 90849-90856, >90877, MGB-4, 90857-90864, >90887, MGB-5, 90865-90872, >90905, MGB-6, 90873-90881, MGB-7, 90882-90890, MGB-8, 90891-90899, MGB-9, 90900-90908, MGB-10, 90909-90917, MGB-11, 90918-90919, MGB-12

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 10:05 am	MicheleL	Signer	
Y	03/04/2024 9:00 am	GalenS	Analyst	

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Printed: 4/11/2024 3:55 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Phosphorus (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	2.2	1.7											6,237	0.6		0.9				0.0 - 1.0			
CCV	3.0	3.2	2.8	2.9	2.9	2.8	2.9						17,106	3.0		0.3		10.5		2.7 - 3.3			
FRB	0.6	0.2											0							-			
P	18.4	19.9	17.9	16.1	14.1								1,599	16.0	15.9	2.5	1.7	15.5	10.5	12.5 - 19.2	17	2	1
H	77.0	70.6	75.6	73.2	73.7	72.5							1,575	67.1	67.1	6.2	5.2	9.2	7.7	56.7 - 77.5	28	3	1
O	30.7	32.7	29.3	31.3	32.4								121	27.6	27.5	1.9	1.6	7.0	5.8	24.3 - 30.8	26	3	2
*B	70.5												81	69.8	70.3	6.6	3.9	9.5	5.6	62.5 - 78.2	10	1	1

LAB #	90908	91042	91170	91220
ORIGINAL	65.9	33.0	49.2	58.4
DUPLICATE	68.8	29.5	45.2	50.4
% RD	4.3	11.4	8.4	14.7

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	9/17 52.9%	(>=33.3%)	
2 SD	1/0 100.0%	15/17 88.2%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 28/32 87.5%

Agronomic Relevance 2

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:40 pm	catf	Analyst	

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Printed: 4/19/2024 3:19 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Potassium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	5	0											6,237	3		6				0 -	8			
CCV	21	19	19	18	**17**	19	19						17,106	20		2		8.1		18 -	22			
FRB	4	5											0							-				
P	96	107	**114**	102	83								1,599	93	92	13	10	14.2	10.3	73 -	111	17	2	1
H	**298**	269	255	268	262	259							1,575	256	255	24	18	9.4	7.1	218 -	291	21	2	1
O	**272**	268	258	**277**	258								121	248	247	13	12	5.4	4.8	224 -	271	31	4	0
*B	987												81	960	961	77	57	8.1	5.9	847 -	1,074	19	4	1

LAB #	90908	91042	91170	91220
ORIGINAL	484	570	189	187
DUPLICATE	530	560	222	196
% RD	9.2	1.7	16.3	4.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	11/17 64.7%	(>=33.3%)	
2 SD	1/0 100.0%	16/17 94.1%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 29/32 90.6%

Agronomic Relevance 10

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:40 pm	catf	Analyst	

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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Calcium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	64	53											6,237	38		39				0 -	80			
CCV	197	195	194	185	191	188	188						17,136	199		17		8.7		180 -	220			
FRB	42	30											0							-				
P	2,185	2,312	2,337	2,255	2,033								1,599	2,091	2,084	205	148	9.8	7.1	1,787 -	2,381	20	2	1
H	2,520	2,578	2,633	2,578	2,585	2,435							1,575	2,524	2,517	224	171	8.9	6.8	2,176 -	2,858	22	2	1
O	2,710	2,907	2,754	2,875	2,791								121	2,670	2,686	157	131	5.9	4.9	2,424 -	2,949	32	6	1
*B	1,366												81	1,375	1,363	136	79	9.9	5.8	1,204 -	1,521	9	1	1

LAB #	90908	91042	91170	91220
ORIGINAL	5150	5613	2974	2184
DUPLICATE	5395	5590	3449	2199
% RD	4.6	0.4	14.8	0.7

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	13/17 76.5%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 31/32 96.9%

Agronomic Relevance 25

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:40 pm	catf	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Magnesium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	10	11											6,237	5		5				0 - 10			
CCV	30	28	29	28	27	29	29						17,106	30		3		9.9		27 - 33			
FRB	11	7											0							-			
P	329	329	338	338	297								1,599	301	299	39	23	12.9	7.7	253 - 345	11	1	1
H	1,003	1,027	1,006	1,008	1,021	975							1,575	963	961	81	60	8.4	6.2	841 - 1,081	21	2	1
O	372	381	356	386	369								121	354	354	19	17	5.3	4.9	319 - 389	39	2	0
*B	270												81	268	266	19	15	7.0	5.6	237 - 296	22	1	1

LAB #	90908	91042	91170	91220
ORIGINAL	891	405	472	306
DUPLICATE	1011	416	514	317
% RD	12.6	2.6	8.4	3.4

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	15/17 88.2%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 30/32 93.8%

Agronomic Relevance 10

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:41 pm	catf	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
[X] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Sodium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	0.5	0.3											6,237	0.4		1.5				0.0 - 2.0			
CCV	2.1	2.0	2.0	1.8	1.7	2.0	1.9						17,106	3.4		11.7				1.8 - 2.2			
FRB	5.6	4.0											0							-			
P	112.0	114.3	113.2	120.0	101.6								1,599	101.2	101.1	13.9	11.5	13.8	11.4	78.1 - 124.1	27	3	1
H	28.9	35.9	25.1	28.3	27.5	24.8							1,575	27.6	27.1	4.7	3.4	16.9	12.4	20.4 - 33.9	19	3	1
O	88.6	91.9	83.7	91.3	88.1								121	87.1	87.1	4.9	4.5	5.6	5.2	78.1 - 96.0	33	3	0
*B	9.4												81	8.7	8.3	2.8	1.5	31.9	17.8	5.4 - 11.3	9	4	1

LAB #	90908	91042	91170	91220
ORIGINAL	420.8	23.9	73.0	48.0
DUPLICATE	440.9	23.6	77.3	48.7
% RD	4.7	1.3	5.8	1.4

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	15/17 88.2%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 31/32 96.9%

Agronomic Relevance 5

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:41 pm	catf	Analyst	

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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 **Soil:** Mehlich 3 Extractable Sulfur (ICP)

Dodge City: Soil Data Quality Control Report ICP

Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	-0.4	-0.8											6,237	0.4		1.2				0.0 -	2.0			
CCV	0.9	1.0	1.1	0.9	1.0	1.0	1.1						17,106	2.5		12.0				0.8 -	1.2			
FRB	1.6	2.1											0							-				
P	19.6	23.2	19.6	20.0	20.4								1,599	19.6	19.3	3.5	2.8	17.8	14.6	13.7 -	25.0	26	3	1
H	23.2	25.1	24.7	24.0	21.3	22.8							1,575	25.1	24.7	4.2	3.3	16.6	13.5	18.0 -	31.3	27	5	1
O	14.8	15.6	14.0	16.6	14.5								121	15.1	14.9	1.5	1.1	10.2	7.6	12.7 -	17.2	21	8	1
*B	10.7												81	11.7	11.6	1.5	1.2	13.0	10.4	9.2 -	14.0	22	4	1

LAB #	90908	91042	91170	91220
ORIGINAL	29.1	11.5	11.7	10.0
DUPLICATE	29.5	9.7	6.9	6.6
% RD	1.4	16.4	52.3	41.0

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	16/17 94.1%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 30/32 93.8%

Agronomic Relevance 5

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:41 pm	catf	Analyst	

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Printed: 4/19/2024 3:19 pm

Lab SampleRange: 90852-115445

Soil: TKN (Distillation/Titration)

Dodge City: Soil Data Quality Control Report

Apr 18 2024 4:51PM 823619 Batch: A Mettler XS204 FA4618; Titrino Plus 848

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	0												323	0		0				-10	10			
LCS	1,194												117	854		75		8.7		725	925			
LCS		3,430											116	3,510		151		4.3		3,080	3,580			

LAB #	90858
ORIGINAL	620
DUPLICATE	613
% RD	1.0

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD			(>=33.3%)	
2 SD			(>=66.7%)	(<25%)
3 SD			(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 3/4 75.0%

Order of Analysis: MB-1, LCS-1, 112612-112616, 115445, 90852-90858, >90858, 90859-90861, LCS-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	04/19/2024 3:43 pm	MicheleL	Signer	
Y	04/19/2024 3:34 pm	CaseyP	Analyst	Notes: I may have accidently grabbed an ALP sample and weighed it for LCS1, not sure what happened.

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
[ ] REJECTION: Hold all data and re-analyse part or all data.

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Lab SampleRange: 90862-90877

Soil: TKN (Distillation/Titration)

Dodge City: Soil Data Quality Control Report

Apr 22 2024 8:48AM 823847 Batch: A Mettler XS204 FA4618; Titrino Plus 848

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	0												324	0		0				-10	10			
LCS	842												118	857		81		9.4		725	925			
LCS		3,441											117	3,510		151		4.3		3,080	3,580			

LAB #	90871
ORIGINAL	507
DUPLICATE	502
% RD	0.9

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD			(>=33.3%)	
2 SD			(>=66.7%)	(<25%)
3 SD			(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 4/4 100.0%

Order of Analysis: MB-1, LCS-1, 90862-90871, >90871, 90872-90877, LCS-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	04/23/2024 3:58 pm	MicheleL	Signer	
Y	04/23/2024 3:47 pm	CaseyP	Analyst	

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Printed: 4/24/2024 12:58 pm

Account	Lab Number	Date Received	Date Reported	Sample ID	Client Name
41493	90854	2/28/2024	04/24/2024	SITE 1	CITY OF PERRY
41493	90855	2/28/2024	04/24/2024	SITE 1	CITY OF PERRY
41493	90856	2/28/2024	04/24/2024	SITE 1	CITY OF PERRY
41493	90857	2/28/2024	04/24/2024	SITE 2	CITY OF PERRY
41493	90858	2/28/2024	04/24/2024	SITE 2	CITY OF PERRY
41493	90859	2/28/2024	04/24/2024	SITE 2	CITY OF PERRY
41493	90860	2/28/2024	04/24/2024	SITE 3	CITY OF PERRY
41493	90861	2/28/2024	04/24/2024	SITE 3	CITY OF PERRY
41493	90862	2/28/2024	04/24/2024	SITE 3	CITY OF PERRY
41493	90863	2/28/2024	04/24/2024	SITE 4	CITY OF PERRY
41493	90864	2/28/2024	04/24/2024	SITE 4	CITY OF PERRY
41493	90865	2/28/2024	04/24/2024	SITE 4	CITY OF PERRY
41493	90866	2/28/2024	04/24/2024	SITE 5	CITY OF PERRY
41493	90867	2/28/2024	04/24/2024	SITE 5	CITY OF PERRY
41493	90868	2/28/2024	04/24/2024	SITE 5	CITY OF PERRY
41493	90869	2/28/2024	04/24/2024	SITE 6	CITY OF PERRY
41493	90870	2/28/2024	04/24/2024	SITE 6	CITY OF PERRY
41493	90871	2/28/2024	04/24/2024	SITE 6	CITY OF PERRY

Sample Location	Layer	From Depth	To Depth	Project ID	Soil pH (unit)
					1:2 Soil-Water
WEST	T	0	6		8.1
WEST	S	6	18		8.4
WEST	S	18	30		8.4
EAST	T	0	6		8.2
EAST	S	6	18		8.5
EAST	S	18	30		8.5
WEST	T	0	6		8.2
WEST	S	6	18		8.5
WEST	S	18	30		8.5
EAST	T	0	6		8.1
EAST	S	6	18		8.4
EAST	S	18	30		8.5
WEST	T	0	6		8.2
WEST	S	6	18		8.5
WEST	S	18	30		8.4
EAST	T	0	6		8.2
EAST	S	6	18		8.4
EAST	S	18	30		8.5

Soluble Salts (mı	Organic Matter (%	Nitrate Nitrogen (	Nitrate Nitrogen (	Sulfur (lbs/ac)	Cation Exchange
1:2 Soil-Water	LOI(r)	Cd Reduction			
0.57	2.1	5.4	10	68	31
0.48	1.2	2.6	9	104	36
0.73	1.1	1.5	5	169	36
0.33	2.3	6.6	12	29	26
0.49	1.2	2.9	10	86	36
0.72	1	< 1	< 4	166	35
0.38	2.4	< 1	< 2	36	25
0.58	1.2	1.1	< 4	94	37
0.59	1	< 1	< 4	148	36
0.32	2.5	1.8	3	23	23
0.47	1.1	3.8	14	83	35
0.62	1.1	1.2	4	158	36
0.31	2	1.1	< 2	27	25
0.66	1	13.2	48	137	35
0.62	1.2	10.1	36	86	34
0.32	1.9	5.2	9	27	22
0.56	1.3	12.6	45	101	35
0.63	0.9	14.8	53	115	34

Hydrogen (%)	Potassium (%)	Calcium (%)	Magnesium (%)	Sodium (%)	Phosphorus (mg/ Mehlich 3 ICP
0	6	60	28	7	32
0	3	69	22	6	21
0	2	69	22	7	25
0	7	57	30	5	54
0	3	70	22	5	17
0	2	71	21	6	27
0	7	59	28	6	95
0	3	68	23	6	18
0	2	69	23	6	20
0	8	57	30	5	56
0	2	71	21	5	7
0	2	69	23	6	18
0	6	61	28	5	60
0	2	72	21	6	16
0	2	73	21	5	12
0	7	59	28	6	59
0	2	71	20	6	9
0	2	73	20	6	13

Potassium (mg/k		Sulfur (mg/kg)		Calcium (mg/kg)		Magnesium (mg/		Sodium (mg/kg)		Total N (mg/kg)
Mehlich 3	ICP	Mehlich 3	ICP	Mehlich 3	ICP	Mehlich 3	ICP	Mehlich 3	ICP	Calculated
690		38		3640		1030		462		1174
358		29		6120		965		517		612
292		47		6840		950		559		501
693		16		2970		946		314		1312
358		24		5750		956		452		623
266		46		7390		889		528		487
722		20		2990		847		345		1435
386		26		5380		1020		468		623
289		41		7260		988		534		488
704		13		2630		845		263		1444
313		23		5490		893		436		625
274		44		7460		985		514		486
578		15		3020		845		301		1210
229		38		7920		866		472		544
254		24		5830		846		385		697
584		15		2640		753		314		1232
315		28		5770		849		487		713
258		32		6600		808		461		522

TKN (mg/kg)	Excess Lime (i) (
TKN	XSL(i)
1169	0
609	1
499	3
1305	0
620	1
486	3
1434	0
622	1
487	3
1442	0
621	1
485	3
1209	0
531	3
687	1
1227	0
700	1
507	3

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
1/5/23	0.875	21		7.4		360
2/2/23	1.33	34		7.4		360
3/7/23	0.167	92		7.1		360
4/11/23	0.922	39		7.2		360
5/9/23	1.069	31		7.1		360
6/1/23	1.174	18		7.3		360
7/11/23		18		7.1		
8/10/23		25		7.1		
9/19/23		23		7.3		
10/10/23		21		7.3		
11/7/23		39		7.3		
12/12/23		40		7.4		
1/9/24	0.628	40		7.6		360
2/6/24	0.637	38		7.3		360
3/12/24	0.574	40		7.2		360
4/2/24	0.576	33		7.3		360
5/14/24	0.596	47		7.7		360
6/4/24	0.586	26		7.2		360
7/9/24	0.635	42		7.3		360
8/13/24	0.606	32		7.5		360
9/3/24	0.642	52		7.3		360
10/15/24	0.602	31		7.4		360
11/26/24	0.733	26		7.9		360
12/3/24	0.730	42		7.8		360

CITY OF PERRYTON
PERMIT NO. WQ0010248001
APPLICATION FOR A RENEWAL
Technical Completeness Review

Please address the following items:

GEOLOGY and GROUNDWATER

1. Domestic Worksheet 3.0 – Well and Map Information: Please provide well logs for each well located within one-half mile of the property boundary. Please also complete Table 3.0(3) for each well located within one-half mile of the property boundary.

2. Domestic Worksheet 3.0 – Groundwater Quality Assessment: The Report contains incorrect references to other attachments. Please clarify these references. Also, please include information on the aquifer at the facility, uses of groundwater in the area (domestic, public supply, irrigation, etc.), and applying effluent at agronomic rates. The Report is intended to document how the operations at the facility will not impact groundwater. An example Report can be provided upon request.

AGRONOMY and SOILS

1. Domestic Technical Report 1.0, Section 7. Pollutant Analyses – Please fill out Table 1.0(2) if the facility is in operation and provide the current effluent lab analyses. Note that analyses are acceptable as long as the test date is less than one year of the application submission.
2. Domestic Worksheet 3.0, Section 8. Soil Analyses – Please submit the current soil lab analyses. Note that analyses are acceptable as long as the test date is less than one year of the application submission.
3. Domestic Worksheet 3.0, Section 9. Effluent Monitoring Data – Please either fill this table out if the facility is in operation or submit the attachment, as listed in the application as Attachment 14.

Please feel free to contact Andrew Gorton, P.G. for geology/groundwater questions via email at Andrew.Gorton@tceq.texas.gov (preferred), or at (512) 239-4585. For agronomy questions, please feel free to contact Sara Holmes via email at Sara.Holmes@tceq.texas.gov (preferred), or at 512-239-4534.

TCEQ Interoffice Memorandum

To: Deba Dutta, P.E., Team Leader
Municipal Permits Team

From: Sara Holmes
Water Quality Assessment Team

Date: May 8, 2025

Subject: Agronomy Recommendation, City of Perryton, Renewal, Permit WQ0010248001, Ochiltree County

Based upon review of the permit application and an evaluation of soils and agronomy information, the WQA Team reviewing agronomist recommends the following:

1. Replace Special Provision 6 with the following:

Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, the sorghum, wheat, corn, and cotton crops shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.

2. Replace Special Provision 8 with the following:

For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.

3. Add Special Provision:

The permittee shall use cultural practices to promote and maintain the health and propagation of the sorghum, wheat, corn, and cotton crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.

4. Add Special Provision:

The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.

From: Andrew Gorton
To: Address:
Cc: Sara Holmes
Subject: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
Date: Wednesday, April 16, 2025 8:57:03 AM
Attachments: 10248-001.Pretech.Apr2025.docx

Good morning Mr. Garcia,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Therefore, you must send updated technically complete and accurate information within **14 days** (April 30, 2025) of the date of this email.

Any revisions can be sent electronically to me (WQA Team Geologist) or to Ms. Sara Holmes (WQA Team Agronomist). If you have any questions, please feel free to contact me or Sara (email is preferred).

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585
Andrew.Gorton@tceq.texas.gov

CITY OF PERRYTON
PERMIT NO. WQ0010248001
APPLICATION FOR A RENEWAL
Technical Completeness Review

Please address the following items:

GEOLOGY and GROUNDWATER

1. Domestic Worksheet 3.0 – Well and Map Information: Please provide well logs for each well located within one-half mile of the property boundary. Please also complete Table 3.0(3) for each well located within one-half mile of the property boundary.

2. Domestic Worksheet 3.0 – Groundwater Quality Assessment: The Report contains incorrect references to other attachments. Please clarify these references. Also, please include information on the aquifer at the facility, uses of groundwater in the area (domestic, public supply, irrigation, etc.), and applying effluent at agronomic rates. The Report is intended to document how the operations at the facility will not impact groundwater. An example Report can be provided upon request.

AGRONOMY and SOILS

1. Domestic Technical Report 1.0, Section 7. Pollutant Analyses – Please fill out Table 1.0(2) if the facility is in operation and provide the current effluent lab analyses. Note that analyses are acceptable as long as the test date is less than one year of the application submission.
2. Domestic Worksheet 3.0, Section 8. Soil Analyses – Please submit the current soil lab analyses. Note that analyses are acceptable as long as the test date is less than one year of the application submission.
3. Domestic Worksheet 3.0, Section 9. Effluent Monitoring Data – Please either fill this table out if the facility is in operation or submit the attachment, as listed in the application as Attachment 14.

Please feel free to contact Andrew Gorton, P.G. for geology/groundwater questions via email at Andrew.Gorton@tceq.texas.gov (preferred), or at (512) 239-4585. For agronomy questions, please feel free to contact Sara Holmes via email at Sara.Holmes@tceq.texas.gov (preferred), or at 512-239-4534.

From: Andrew Gorton
To: Sara Holmes
Subject: Fw: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
Date: Tuesday, April 29, 2025 2:16:01 PM

SH, FYI...

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality
MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585
Andrew.Gorton@tceq.texas.gov

From: TD Peiris <tdpeiris@hpcetx.com>
Sent: Tuesday, April 29, 2025 1:57 PM
To: Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
Subject: Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal

Andrew,

Please find the following items in the dropbox link below:

https://www.dropbox.com/scl/fo/lksdv9tvzqw6cef3mvg61/ADkBzsPGiPHucVXUSgbIsj8?rlkey=raiow6rs4k7dpv1b9jwznqk3i&st=qy080c6m&dl=0

- Attachment 10- Well map and well information
- Attachment 11- Groundwater Quality Assessment
- Attachment 13 - Soil analysis
- Attachment 14- Effluent monitoring data
- pages 33-35 of the technical report with the updated attachments references

We are still waiting on the lab to get the test results from the pollutant analysis. The samples were collected on April 23rd 2025. We should receive the results shortly and will submit them promptly upon receipt.

Please let me know if you have any questions.

Regards,

T.D.Peiris
4537 Canyon Drive Amarillo, Texas 79110
Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

On Tue, Apr 22, 2025 at 11:02 AM Andrew Gorton <Andrew.Gorton@tceq.texas.gov> wrote:

> **Andrew Gorton** reacted to your message:
>
> ---
>
> **From:** TD Peiris <tdpeiris@hpcetx.com>
> **Sent:** Tuesday, April 22, 2025 2:10:35 PM
> **To:** Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
> **Subject:** Re: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
>
> Thank you for the information. I will email you if I have any questions.
>
> On Tue, Apr 22, 2025 at 9:09 AM Andrew Gorton <Andrew.Gorton@tceq.texas.gov> wrote:
>
> > Good morning TD, I was out of the office on Friday and Monday, so am just seeing your message. I have attached 3 examples of a Groundwater Tech Report. They can be done in a page or less, but as long as it touches on the requirements I included in the comment memo last week, it should meet what we are looking for.
> >
> > Please contact me via email if you have any other questions.
> >
> > Thank you,
> >
> > -Andy
> >
> > Andrew Gorton, P.G.
> > Texas Commission on Environmental Quality
> > MC-150
> > PO Box 13087
> > Austin, TX 78711-3087
> > 512.239.4585
> > Andrew.Gorton@tceq.texas.gov
> >
> > ---
> >
> > **From:** TD Peiris <tdpeiris@hpcetx.com>
> > **Sent:** Friday, April 18, 2025 2:51 PM
> > **To:** Andrew Gorton <Andrew.Gorton@Tceq.Texas.Gov>
> > **Subject:** Fwd: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
> >
> > Mr. Gorton,
> >
> > Please provide an example report for "Domestic Worksheet 3.0 – Groundwater Quality Assessment" so that we can provide all necessary information for the renewal application.
> >
> > Regards,
> >
> > **T.D.Peiris**
> > 4537 Canyon Drive Amarillo, Texas 79110
> > Office: 806.353.7233 | tdpeiris@hpcetx.com | www.hpcetx.com

---------- Forwarded message ---------
From: **Adolfo Garcia** <adolfog@hpcetx.com>
Date: Wed, Apr 16, 2025 at 9:03 AM
Subject: Fwd: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
To: TD Peiris <tdpeiris@hpcetx.com>

We have 14 days to respond to TCEQ about the permit renewal.

Adolfo Garcia, P.E.
4537 Canyon Drive Amarillo, Texas 79110
Office: 806.353.7233 | Mobile 806.584.8707 | adolfog@hpcetx.com | www.hpcetx.com

---------- Forwarded message ---------
From: **Andrew Gorton** <Andrew.Gorton@tceq.texas.gov>
Date: Wed, Apr 16, 2025 at 8:56 AM
Subject: City of Perryton, Permit No. WQ0010248001, Application for a Permit Renewal
To: Address: <adolfog@hpcetx.com>
Cc: Sara Holmes <Sara.Holmes@tceq.texas.gov>

Good morning Mr. Garcia,

The Water Quality Assessment (WQA) Team of the Texas Commission on Environmental Quality has completed a preliminary review of the permit application information and identified deficiencies (attached) that must be addressed before the WQA Team can continue with the technical review. The deficient item(s) will require your response in a timely, complete, and accurate manner.

An accurate and complete revised permit application is essential for making recommendations to the commission regarding whether this permit should be issued. Based on the information provided in the application, the executive director does not have sufficient information to make a recommendation. Therefore, you must send updated technically complete and accurate information within **14 days** (April 30, 2025) of the date of this email.

Any revisions can be sent electronically to me (WQA Team Geologist) or to Ms. Sara Holmes (WQA Team Agronomist). If you have any questions, please feel free to contact me or Sara (email is preferred).

Thank you,

-Andy

Andrew Gorton, P.G.
Texas Commission on Environmental Quality

MC-150
PO Box 13087
Austin, TX 78711-3087
512.239.4585
Andrew.Gorton@tceq.texas.gov

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 49)

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 See Attachment 7

Pollutant	Average	Max	No. of	Sample	Sample

- 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 68)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment**: 10

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

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

Table 3.0(3) – Water Well Data

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

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

Attachment: 10

Section 7. Groundwater Quality (Instructions Page 68)

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: 11

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: 11

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: 12

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: 13

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
PuA - Sherm clay loam	0 to 80inch	Saturated 0.06-0.2	High (about 9.7 inches)	84
RcA Darrouzett clay loam(0-1%)	0 to 72inch	Saturated 0.2-0.57	High (about 9.8 inches)	84
RcB-Darrouzett clay loam(1-3%)	0 to 72inch	Saturated 0.2-0.57	High (about 9.8 inches)	84
Re- Lazbuddie caly	0 to 80inch	Saturated 0.0-0.06	High(about 9.6 inches	88

Section 9. Effluent Monitoring Data (Instructions Page 70)

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
attachment 14						

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

Click to enter text.

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

Is the facility in operation?

☐ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	57	-	1	GRAB	4/23/25 8:20
Total Suspended Solids, mg/l	83	-	1	GRAB	4/23/25 8:20
Ammonia Nitrogen, mg/l	40.3	-	1	GRAB	4/23/25 8:20
Nitrate Nitrogen, mg/l	<0.40	-	1	GRAB	4/23/25 8:20

Total Kjeldahl Nitrogen, mg/l	52.6	-	1	GRAB	4/23/25 8:20
Sulfate, mg/l	76.1	-	1	GRAB	4/23/25 8:20
Chloride, mg/l	252	-	1	GRAB	4/23/25 8:20
Total Phosphorus, mg/l	6.19	-	1	GRAB	4/23/25 8:20
pH, standard units	7.8	-	1	GRAB	4/23/25 8:20
Dissolved Oxygen*, mg/l	6.1	-	1	GRAB	4/23/25 8:20
Chlorine Residual, mg/l	0.47	-	1	GRAB	4/23/25 8:20
E.coli (CFU/100ml) freshwater	1120	-	1	GRAB	4/23/25 8:20
Entercocci (CFU/100ml) saltwater	-	-	-	-	-
Total Dissolved Solids, mg/l	722	-	1	GRAB	4/23/25 8:20
Electrical Conductivity, µmohs/cm, †	1600	-	1	GRAB	4/23/25 8:20
Oil & Grease, mg/l	<7	-	1	GRAB	4/23/25 8:20
Alkalinity ($CaCO_3$)*, mg/l	344	-	1	GRAB	4/23/25 8:20

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Click to enter text.

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

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

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

☐ Design flow>= 1 MGD

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: Serissa Beck, EML

Title: General Manager

Signature: _____

Date: 4/30/25

ENVIRONMENTAL
MONITORING
LABORATORY , L.L.C

P.O. Box 477
6145 State Highway 171
Hillsboro, Texas 76645
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL REPORT 25042401

For:

City of Perryton

PO BOX 849
Perryton, Texas 79070

Sample Site: Renewal Analysis

Collected Date: 04/23/25

Lab Number: TX01547

Authorized for release by:
30-APR-25

Lisa Soward, Data Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory

ENVIRONMENTAL MONITORING LABORATORY , L.L.C

P.O. Box 477
6145 State Highway 171
Hillsboro, Texas 76645
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL RESULTS

Analytical Report: 25042401

Lab ID:	25042401-001	Collected Date:	04/23/25 08:20	Matrix:	Waste Water
Client:	City of Perryton	Received Date:	04/23/25 20:40	Temp at Receipt:	4 °C
Sample Site:	Renewal Analysis	Report Date:	04/29/25	Sample Collector:	SR

Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	NP	04/28/25 08:30	40.3	mg/L
Carbonaceous BOD	CBOD	SM 5210/B	NP	04/24/25 08:18	57	mg/L
Total Suspended Solids	TSS	SM 2540/D	NP/P	04/24/25 10:35	83	mg/L
pH	SM4500-H	SM4500/H	N	04/23/25 08:20	7.8	SU
Nitrate as N	E300.0	E 300.0	NP/P	04/24/25 07:25	<0.400	mg/L
Dissolved Oxygen	DO	SM 4500-O	N	04/23/25 08:20	6.1	mg/L
Total Phosphorus (as P)	T.PHOS.	SM 4500-P/E	NP	04/28/25 10:19	6.19	mg/L
Nitrogen, Total Kjeldahl	TKN	SM 4500-NH3/D	NP	04/28/25 13:43	52.6	mg/L
Total dissolved solids	SM2540C	SM 2540/C	NP/P	04/28/25 15:20	722.0	mg/L
Sulfate	E300.0	E 300.0	NP/P	04/24/25 07:48	76.1	mg/L
Chloride	Cl-	SM 4500-Cl-/B	NP	04/24/25 12:20	252	mg/L
Chlorine	SM4500-CL	SM4500-CL	NP	04/23/25 08:20	.47	mg/L
n-Hexane Extractable Material (HEM)	O&G	SM 5520/B	NP	04/28/25 11:52	<7.00	mg/L
Alkalinity, Total (CaCO3)	ALK	SM 2320/B	NP	04/24/25 11:35	344	mg/L
Conductivity @ 25C	Cond	SM 2510/B	NP	04/24/25 15:30	1600	umhos/cm

P: Potable water NP: Non Potable water N: Not Certified

Version 1.000 was revised to correct data entry error. 4/29/25 LS Version 1.001 was revised to correct data entry error in phosphorus batch. 4/30/25 LS

This report may not be reproduced, except in full and with written approval from Environmental Monitoring Laboratory, LLC.

Control #: 25042401

QUALITY ASSURANCE & QUALITY CONTROL

ANALYTE	ABBR./ ALT.NAME	STANDARD METHOD	UNITS	Quality Control S.D.	CV%	REC.1%	REC.2%	MDL/PQL	Q
Nitrate as N	E300.0	E 300.0	mg/L					0.400 / 0.400	
Sulfate	E300.0	E 300.0	mg/L					1.00 / 1.80	
Alkalinity, Total (CaCO3)	ALK	SM 2320/B	mg/L					1.50 / 5.00	
Chloride	Cl-	SM 4500-Cl-/B	mg/L	1.41	0.28	102	102	1.00 / 3.00	
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	mg/L	0.03	2.70	101.4	97	0.0300 / 0.100	
Nitrogen, Total Kjeldahl	TKN	SM 4500-NH3/D	mg/L	0.13	0.81	103.3	101.5	0.0200 / 0.120	
Total Phosphorus (as P)	T.PHOS.	SM 4500-P/E	mg/L	0.02	0.48	93.9	93.3	.02 / .05	
n-Hexane Extractable Material (HEM)	O&G	SM 5520/B	mg/L	.21	.21	100.2	100.0	7.00 / 7.00	
Chemical Oxygen Demand	COD	SM 5220/D	mg/L						
Turbidity	TURB.	SM 2130/B	NTUs						
Total Percent Solids	%d.w	SM 2540/G	%						N

Biochemical Oxygen Demand(BOD)
Carbonaceous Biochemical Oxygen Demand(CBOD)
Method: SM 5210/B

Results	Units	Description
0.12	mg/L	Blank 1 - CBOD
0.14	mg/L	Blank 2 - CBOD
0.18	mg/L	Blank 3 - CBOD
172	mg/L	G/GA Std 1 - CBOD
171	mg/L	G/GA Std 2 - CBOD
171	mg/L	G/GA Std 3 - CBOD
171	mg/L	**G/GA Average - CBOD**
0.73	mg/L	Seed Corr/mL - CBOD
0.72	mg/L	Seed Corr/mL - CBOD
0.71	mg/L	Seed Corr/mL - CBOD
0.72	mg/L	**Seed Corr Average - CBOD**

Dissolved Oxygen
Method: SM 4500-O*/G

Results	Units	Description
8.88	mg/L	Set Up Calibration
8.88	mg/L	Read Off Calibration
20	°C	Set Up Temperature
20	°C	Read Off Temperature
759	mm Hg	Set Up Barometer
759	mm Hg	Read Off Barometer

Fecal Coliform
Method: SM9222 /D MF

Results	Units	Description
	CFU/100ml	Pre Blank
	CFU/100ml	Post Blank

TDS by SM2540/C

Results	Units	Description
0	mg/L	Blank

E. coli By IDEXX Colilert (enumeration)

MPN/100 mL

Total Suspended Solids (TSS, MLSS)
Method: 2540/D

Results	Units	Description
0	mg/L	Blank 1
0.3	mg/L	Blank 2
0.1	mg/L	Blank 3
0	mg/L	Blank 4
0	%	Relative % Difference
2.6	%	Relative % Difference
3.61	%	Relative % Difference
3.33	%	Relative % Difference
3.64	%	Relative % Difference
0	%	Relative % Difference
0	%	Relative % Difference
0	%	Relative % Difference
2.05	%	Relative % Difference

Conductivity @ 25° C
Method: SM2510/B
Standards ran for each analytical batch.

Results	Units	Description
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard

Report Out Date: 04/30/2025

Lisa Soward
Data Manager

Final 1.002

QUALITY ASSURANCE & QUALITY CONTROL

Standard Method E 300.0

Matrix Waste Water

Batch Number 80942

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80942-1-LCS	Nitrate as N	8.02 mg/L		8.00 mg/L	100%	90-110%		0-20%	
80942-1-LCSD	Nitrate as N	8.02 mg/L		8.00 mg/L	100%	90-110%	0%	0-20%	
80942-1-UNS	Nitrate as N	0.150 mg/L			0%	90-110%		0-20%	
25042252-001 S	Nitrate as N	8.07 mg/L	0.150 mg/L	8.00 mg/L	99 %	80-120%		0-20%	
25042252-001 SD	Nitrate as N	8.08 mg/L	0.150 mg/L	8.00 mg/L	99 %	80-120%	0%	0-20%	

Standard Method E 300.0

Matrix Waste Water

Batch Number 80944

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80944-1-LCS	Sulfate	15.2 mg/L		15.0 mg/L	101%	90-110%		0-20%	
80944-1-LCSD	Sulfate	15.1 mg/L		15.0 mg/L	101%	90-110%	1%	0-20%	
80944-1-UNS	Sulfate	7.28 mg/L			0%	90-110%		0-20%	
25042294-001 S	Sulfate	22.0 mg/L	7.28 mg/L	15.0 mg/L	98 %	80-120%		0-20%	
25042294-001 SD	Sulfate	22.0 mg/L	7.28 mg/L	15.0 mg/L	98 %	80-120%	0%	0-20%	

Standard Method SM 2540/D

Matrix Waste Water

Batch Number 80958

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80958-1-MB	Total Suspended Solids	<1.000 mg/L				80-120%		0-10%	
80958-2-MB	Total Suspended Solids	0.3000 mg/L			0%	80-120%		0-10%	
80958-3-MB	Total Suspended Solids	0.1000 mg/L			0%	80-120%		0-10%	
80958-4-MB	Total Suspended Solids	<1.000 mg/L			0%	80-120%		0-10%	

QUALITY ASSURANCE & QUALITY CONTROL

Standard Method SM 5210/B

Matrix Waste Water

Batch Number 80959

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
80959-1-BKS01	Carbonaceous BOD	172 mg/L		198 mg/L	87%	85-115%		0-25%	
80959-2-BKS02	Carbonaceous BOD	171 mg/L		198 mg/L	86%	85-115%		0-25%	
80959-3-BKS03	Carbonaceous BOD	171 mg/L		198 mg/L	86%	85-115%		0-25%	
80959-4-BKS04	Carbonaceous BOD	171 mg/L		198 mg/L	86%	85-115%		0-25%	
80959-1-BLK01	Carbonaceous BOD	0.120 mg/L			0%	85-115%		0-25%	
80959-2-BLK02	Carbonaceous BOD	0.140 mg/L			0%	85-115%		0-25%	
80959-3-BLK03	Carbonaceous BOD	0.180 mg/L			0%	85-115%		0-25%	

Standard Method SM 2540/C

Matrix Waste Water

Batch Number 81006

Sample ID	Parameter	Result	Ref. Value	Spike Conc.	Per. Rec.	Rec. Limits	RPD	RPD Limits	Flags
81006-1-MB	Total dissolved solids	< mg/L			0%	80-120%		0-10%	

Environmental Monitoring Laboratory ◆ P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 ◆ Phone: (254) 582-2622

TCEQ Lab ID: T104704247 EPA Lab ID: TX01547

Panhandle Division 13260 South US Hwy 287 Amarillo, Texas 79118 Office: 806-335-9393 Emergency: 806-786-0612

Southwest Division 811 E. Young Street Llano, Texas 78643 Office: 325-247-3295 Emergency: 254-582-2622

East Texas Division 14295 S.H. 155 North Winona, Texas 75792 Office: 903-877-9222 Emergency: 817-357-6535

Coastal Division 34 East Ave., Schulenburg, Texas 78956 Office: 979-743-7010 Emergency: 254-221-3201

Purchase Order / Chain of Custody

CL2

0.47

Report To: City of Perryton	Report To: (Buyer)
Company: City of Perryton	Purchase Order #:
City of Perryton P.O. Box 849 Perryton, TX 79070	Address:
Phone: Fax:	Phone: Fax:
Project Name:	Quote #:
Project Location: WWTP	City, State:
Date Due: Rush: 0% 25% 50% 100%	Sampler: (Please Print) Gregory Willis

2504240

Lab#	Client Sample ID	Matrix	Date	Time	*Pres. Code	‡ Bottle Code	(CBOD) / BOD	TSS, TDS	pH 7.81	DO 6.11	NH3N (pH<2.0, H_2SO_4) SM4500-NH3 D or G unless specified TKN, TOT PHOS	FECAL COLIFORM / E.COLI (Sterile)	MLSS	ALKALINITY, CHLORIDE, CONDUCTI	OIL & GREASE	NITRATE, SULFATE		Sample Remarks
250424 01	1.Renewal Analysis	WW	4-23-25	0820	1	1	X	X	X	X								
	2.				2	1					X							
	3.				1	1								X				
	4.				2	2									X			
	5.				1	1										X		
	6.																	
	7.																	
	8.																	
	9.																	
	10.																	

Relinquished By:	Date	Time	Received By:	Date	Time
1.	4-23-25	1200	1.	4/23/25	1200
2.	4/23/25	2040	2.	4/23/25	2040
3.			3.		
4.			4.		

COOLER ID: FR467
ICE: YES NO
Temperature: 4

* Preservation Codes: 1. None 2. Sulfuric 3. Nitric 4. NaOH + ZnAc 5. NaOH 6. Sterile + Thosulfate

‡ Bottle Codes: 1. Plastic 2. Glass + Tef. 3. 40 ml VOA

Complete sample information is vital for proper login and reporting. EML may need to subcontract some analyses due to equipment or procedural limitations.

Check us out on the web: http://www.yourwaterlab.com **Email us at: homeoffice@yourwaterlab.com**

Revised 06/2024

ENVIRONMENTAL
MONITORING
LABORATORY , L.L.C

Panhandle Division
13260 South Highway 287
Amarillo, TX 79118-7005
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL REPORT 25042414

For:

City of Perryton

PO BOX 849
Perryton, Texas 79070

Sample Site: Renewal Analysis

Collected Date: 04/23/25

Lab Number: TX01547

Authorized for release by:
28-APR-25

Lisa Soward, Data Manager

homeoffice@yourwaterlab.com

The test results in this report meet all 2009 NELAC and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory

ENVIRONMENTAL MONITORING LABORATORY , L.L.C

Panhandle Division
13260 South Highway 287
Amarillo, TX 79118-7005
Phone: 254-582-2622

BIOLOGICAL & CHEMICAL ANALYSIS / UTILITIES MANAGEMENT & OPERATION / WATERWELL DRILLING & SERVICE / GEOLOGICAL INVESTIGATION

ANALYTICAL RESULTS

Analytical Report: 25042414

Lab ID: 25042414-001
Client: City of Perryton
Sample Site: Renewal Analysis

Collected Date: 04/23/25 08:20
Received Date: 04/23/25 10:20
Report Date: 04/28/25

Matrix: Waste Water
Temp at Receipt: 6 °C
Sample Collector: GW

Analyte	Abbreviation	Method	TNI Cert	Date Analyzed	Result	Units
E. coli	*E. coli*	IDEXX Colilert	NP	04/23/25 10:21	1120	MPN/100 mL

P: Potable water NP: Non Potable water N: Not Certified

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Control #: 25042414

QUALITY ASSURANCE & QUALITY CONTROL

ANALYTE	ABBR./ ALT.NAME	STANDARD METHOD	UNITS	Quality Control S.D.	CV%	REC.1%	REC.2%	MDL/PQL	Q
Chloride	Cl-	SM 4500-Cl-/B	mg/L						
Alkalinity	ALK	SM 2320/B	mg/L						
Total Phosphorus	T.PHOS.	SM 4500-P/E	mg/L						
Total Kjeldahl Nitrogen	TKN	SM 4500-NH3/D	mg/L						
Ammonia Nitrogen	NH3N	SM 4500-NH3/D	mg/L						
Oil & Grease	O&G	SM 5520/B	mg/L						
Chemical Oxygen Demand	COD	SM 5220/D	mg/L						
Turbidity	TURB.	SM 2130/B	NTUs						
Total Percent Solids	%d.w	SM 2540/G	%						N

Biochemical Oxygen Demand(BOD)
Carbonaceous Biochemical Oxygen Demand(CBOD)
Method: SM 5210/B

Results	Units	Description

Dissolved Oxygen
Method: SM 4500-O*/G

Results	Units	Description
	mg/L	Set Up Calibration
	mg/L	Read Off Calibration
	°C	Set Up Temperature
	°C	Read Off Temperature
	mm Hg	Set Up Barometer
	mm Hg	Read Off Barometer

Fecal Coliform
Method: SM9222 /D MF

Results	Units	Description
	CFU/100ml	Pre Blank
	CFU/100ml	Post Blank

TDS by SM2540/C

Results	Units	Description
	mg/L	Blank

E. coli By IDEXX Colilert (enumeration)

MPN/100 mL

Total Suspended Solids (TSS, MLSS)
Method: 2540/D

Results	Units	Description

Conductivity @ 25° C
Method: SM2510/B
Standards ran for each analytical batch.

Results	Units	Description
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard
	umhos/cm	Conductivity Standard

Report Out Date: 04/28/2025

Lisa Soward
Data Manager

Final 1.000

Environmental Monitoring Laboratory ◆ P.O. Box 477 / 6145 State Highway 171, Hillsboro, Texas 76645 ◆ Phone: (254) 582-2622

Purchase Order / Chain of Custody

TCEQ Lab ID: T104704247

Panhandle Division
13260 South US Hwy 287 Amarillo, Texas 79118
Office: 806-335-9393 Emergency: 806-786-0612

Southwest Division
811 E. Young Street Llano, Texas 78643
Office: 325-247-3295 Emergency: 254-582-2622

East Texas Division
14295 S.H. 155 North Winona, Texas 75792
Office: 903-877-9222 Emergency: 817-357-6535

EPA Lab ID: TX01547

Coastal Division
34 East Ave., Schulenburg, Texas 78956
Office: 979-743-7010 Emergency: 254-221-3201

Report To: City of Perryton	Report To: (Buyer)
Company: City of Perryton	Purchase Order #:
City of Perryton P.O. Box 849 Perryton, TX 79070	Address:
Phone: Fax:	Phone: Fax:
Project Name:	Quote #:
Project Location: WWTP	City, State:
Date Due: Rush: 0% 25% 50% 100%	Sampler: (Please Print) Gregory Willis

25042414

Lab#	Client Sample ID	Matrix	Date	Time	*Pres. Code	†Bottle Code	CBOD / BOD	TSS, TDS	pH	DO	NH3N (pH<2.0, H_2SO_4) SM4500-NH3 D or G unless specified TKN, TOT PHOS	FECAL COLIFORM / E.COLI (Sterile)	MLSS	ALKALINITY, CHLORIDE, CONDUCTI	OIL & GREASE	NITRATE, SULFATE		Sample Remarks
2504214	1.Renewal Analysis	WW	4-23-25	0820	6	1						X						
	2.																	
	3.																	
	4.																	
	5.																	
	6.																	
	7.																	
	8.																	
	9.																	
	10.																	

ANALYSES REQUESTED

NOTES:

Analyzed in Amarillo Location of
Environmental Monitoring Laboratory, LLC
13260 South US Highway 287
Amarillo TX 79118-7005

Relinquished By:	Date	Time	Received By:	Date	Time
1.	4-23-25	1020	1 Audrey Craig	04/23/25	1020
2.			2.		
3.			3.		
4.			4.		

COOLER ID: IR #004
Ice: YES NO
Temperature: 2.0

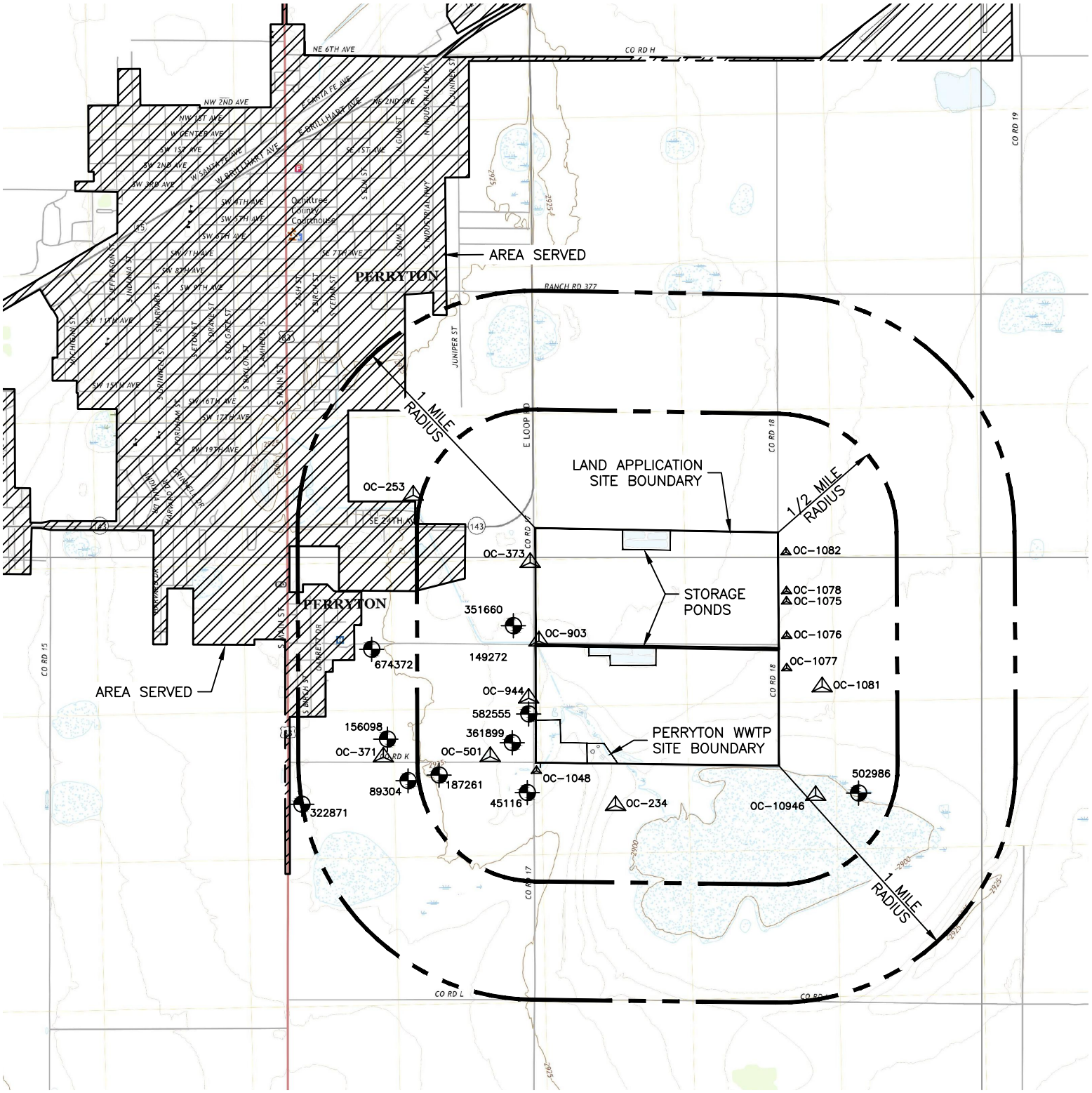
* Preservation Codes:
1. None
2. Sulfuric
3. Nitric
4. NaOH + ZnAc
5. NaOH
6. Sterile + Thosulfate

† Bottle Codes:
1. Plastic
2. Glass + Tef.
3. 40 ml VOA

Complete sample information is vital for proper login and reporting. EML may need to subcontract some analyses due to equipment or procedural limitations.

Check us out on the web: http://www.yourwaterlab.com **Email us at: homeoffice@yourwaterlab.com**

Revised 06/2024



LEGEND

OC–234 WELL NUMBER

WELL LOCATIONS TAKEN FROM GPS COORDINATES OR PHYSICAL DESCRIPTIONS PROVIDED IN ONE OF THE FOLLOWING REPORTS.

△ NORTH PLAINS WATER CONSERVATION DISTRICT NO. 2

⊕ STATE OF TEXAS WELL REPORT

N

(FOR PERMIT PURPOSES ONLY)

HI-PLAINS CIVIL ENGINEERS
FIRM REGISTRATION NO. 4174
4537 CANYON DRIVE - AMARILLO, TEXAS 79110 - 806.353.7233

CITY OF PERRYTON WWTP PERMIT RENEWAL
DOMESTIC TECHNICAL WORKSHEET 3.0

WELL LOCATIONS - ½ MILE & 1 MILE RADIUS

PROJ. NO. 82962 | DATE: APRIL 2025 | SCALE: 1"=3,000'

FIGURE: #8

Table 3.03

Well ID	Well Use	Producing ?Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
OC-0253	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-0373	livestock	Y	Open & Cased	Private maintenance
351660	Domestic	Y	Open & Cased	Private maintenance
OC-0903	Municipal	Y	Open & Cased	Maintain as public water well
674372	Domestic	Y	Open & Cased	Private maintenance
156098	Domestic	Y	Open & Cased	Private maintenance
OC-0371	irrigation	N	Open, cased, & Capped	Maintain for possible future use
149272	Domestic	Y	Open & Cased	Private maintenance
582555	Municipal	Y	Open & Cased	Maintain as public water well
OC-0944	Municipal	N	Plugged and abandoned	None
361899	Domestic	Y	Open & Cased	Private maintenance
OC-1048	Municipal	Y	Open & Cased	Maintain as public water well
OC-0501	Municipal	Y	Open & Cased	Maintain as public water well
45116	Stock	Y	Open & Cased	Private maintenance
OC-0234	Municipal	Y	Open & Cased	Maintain as public water well
OC-1353	Domestic	Y	Open & Cased	Private maintenance
89304	Domestic	Y	Open & Cased	Private maintenance
OC-10946	Irrigation	Y	Open & Cased	Private maintenance
OC-1081	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-1077	Domestic	Y	Open & Cased	Private maintenance
OC-1076	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-1075	Irrigation	N	Open, cased, & Capped	Maintain for possible future use

Well ID	Well Use	Producing ?Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
OC-1078	Irrigation	N	Open, cased, & Capped	Maintain for possible future use
OC-1082	Industrial	N	Open, cased, & Capped	Maintain for possible future use
502986	Test well	N	Plugged and abandoned	None

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) D

Requested new classification UNUSED

I WRED Wright Trust do hereby certify that Well No. OC-0253 located in Schlitree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1013, Block 45 43, Survey SPRR H&TC will not be operated to exceed the actual pumping capacity of 0 GPM, and meets the spacing requirements of 0 yards from the nearest existing well or authorized well site and other rules of the District for a UNUSED Classification Well.

James T Wright, Trustee
Signature (Owner/Agent)

Mar 20 2006
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 1094

FOR USE OF COMMITTEEMEN

Field Well No. O-253

Date Received 3/12/62

Size of Well 8 in. Maximum Yield 1000 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner W. R. (Ray) Wright Address Box 266 Perryton, Texas

2. Well located _____ miles N, ½ miles S, ½ miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ (SW¼) SE¼ (CIRCLE ONE) Section 1013 Block 43 Survey H & T C

5. ACTUAL LOCATION OF THIS WELL IS { 233 measured yards from N or S section line. / 870 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Roatry

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	240	surface			
240	314	coarse sand & gravel			
314	347	clay			
347	364	clay, streaks coarse sand			
364	378	solid clay			
378	394	fine sand, streaks solid clay			
394	440	medium to coarse sand, thin streaks clay			
440	465	clean & loose coarse sand			
465	478	clay, streaks coarse sand			
478	522	coarse sand, clean & loose			
522	540	red clay, coarse sand mixed with hard rock			
540		hard rock			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller W. D. Jones Drilling Co., Inc Address Dumas, Texas Date Drilled 7-14-62 195__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter 16" in. Total length 538.35 ft.

7. Casing perforations: from 260 ft to 540 ft. Size 5/32. Number per foot 16.

8. Pump Column: Size ~~10~~ 8 in. Total length 400 ft. Suction pipe: Size 8 in. Length 3 ft.

9. Pump bowls: Size 10". Number of stages 7. Pump discharge pipe: Size 8 in.

10. Depth to water level 232.47 ft. Pump discharge 900 GPM. Pumping level: 315 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower _____.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

Ckt 528

RECEIVED AUG 8 1962

2 FORM NO. 255

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

Original—District Office Copy

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

FIELD WELL NO. O-253
DATE APPLICATION FILLED OUT 3/12/62
DATE APPROVED BY COUNTY COMMITTEE _____
SIZE OF WELL 8" MAXIMUM YIELD 1000 GPM

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committeeman for approval. (PLEASE TYPE or PRINT.)

I, W. R. Ray Wright, Box 266, Perryton, Texas
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. ~~NW¼, NE¼~~, SW¼, ~~SE¼~~ of Section 1013 Block 43
Survey H. & T. C.

3. Labor _____ League _____

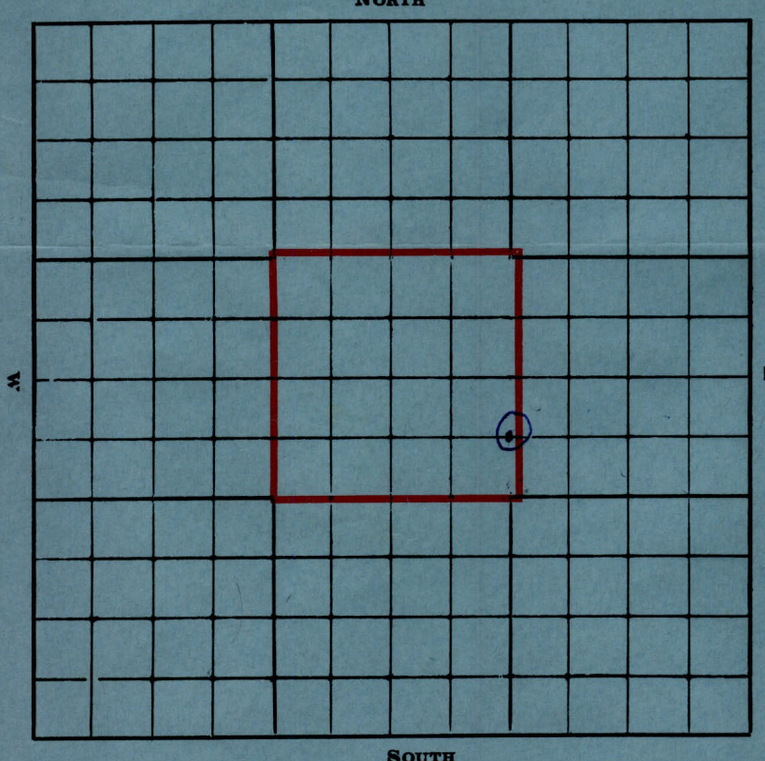
4. Proposed Use (Municipal-Industrial-Irrigation)
MARK OUT ONES THAT DO NOT APPLY

5. Drilling to start about April 15, , 19 62

This well will be 1/2 miles ~~N~~ or S and 1/2
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of Perryton, Texas
MARK OUT ONE THAT DOES NOT APPLY

This Permit Good for 120 Days Only from Date of Approval

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section or 1 labor.
MARK X, showing 3 closest wells, and or applications.



Please Make Sure Your Measurements are Corerct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

233 measured yards from (~~N~~ S) ~~property~~ Section line and
MARK OUT ONE THAT DOES NOT APPLY

870 measured yards from (E ~~W~~) ~~property~~ Section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells, and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: W. R. Wright
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Roger Pearson 2. Roy Stallings 3. Bill Pletcher

SMITH PRINTING CO - DIAL PO5-9619 LUBBOCK

Dist. 2 Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. D-373
Date Received 7-15-64
Size of Well 8" in. Maximum Yield _____ GPM

1. Well Owner George Swingle Address Delbert Trew - Route 2 20 N. Highland - Mt. Vernon, Ill
2. Well located _____ miles N, 3/4 miles S, 2 1/4 miles E, _____ miles W of the town of Perryton
3. County Ochiltree League _____
4. NW¼ (NE¼) SW¼ SE¼ (CIRCLE ONE) Section 1012 Block 43 Survey H+TC
5. ACTUAL LOCATION OF THIS WELL IS { 233 measured yards from N or S section line. / 26 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	229	Over burden			
229	280	Medium To Coarse			
280	290	solid yellow Clay			
290	312	COARSE Sand			
312	325	Brown Clay			
325	350	Fine Sand			
350	440	COARSE Sand (Fairly tight)			
440	450	Sand & Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Ballew Address Perryton Date Drilled 8-18 1964

DESCRIPTION OF WELL

6. Casing: (new) used, or shop made. Diameter 16 in. Total length 450 ft.
7. Casing perforations: from 288 ft to 450 ft. Size 1/8 x 3. Number per foot 16.
8. Pump Column: Size 6 in. Total length 419 ft. Suction pipe: Size 6 in. Length 6 ft.
9. Pump bowls: Size _____. Number of stages 7. Pump discharge pipe: Size 6" in.
10. Depth to water level 265 ft. Pump discharge _____ GPM. Pumping level: _____ ft.
11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 145.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

k 2266

6-21-66

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-373
TIME: 9:45 AM.
DATE APPLICATION FILLED OUT 7/15/64
DATE APPROVED BY COUNTY COMMITTEE
SIZE OF WELL 8" MAXIMUM YIELD GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

DELBERT TREW - ROUTE 2

I, GEORGE SWINGLE
NAME OF LANDOWNER

20 N HIGHLAND - MOUNT VERNON ILL
LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County OCHILTREE

2. ~~NW¼~~, NE¼, SW¼, SE¼ of Section 1012 Block 43
Survey H+TC

3. League _____

Permit good for 120 days only from date of approval.

4. Proposed Use (Municipal-Industrial-~~Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

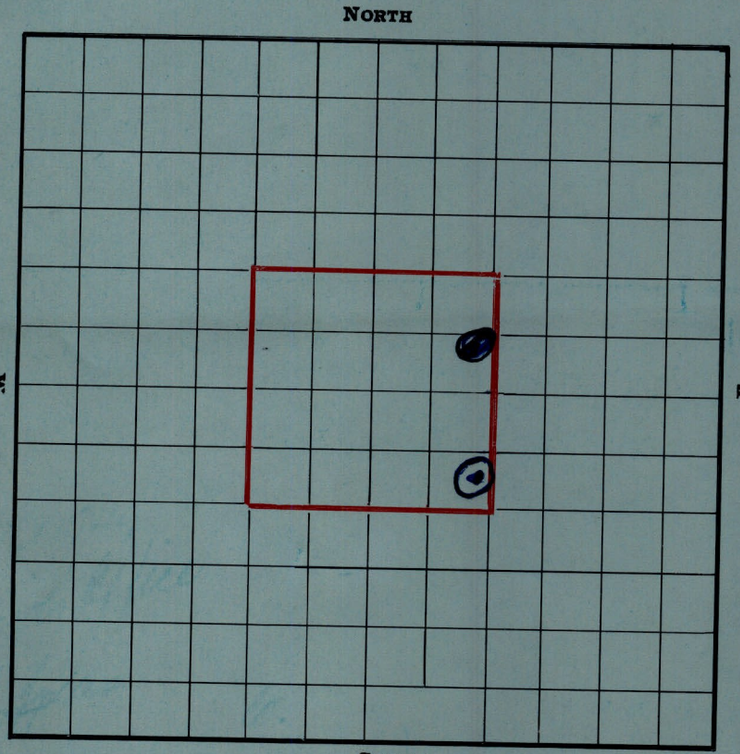
5. Drilling to start about JULY 15, 1964

6. Drillers name JEAN BALLEW

This well will be 3/4 miles N or ~~S~~ and 1/4 miles ~~E~~ or W of the town of PERRYTON
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
~~333~~ measured yards from ~~N~~ S section line and
MARK OUT ONE THAT DOES NOT APPLY
~~N~~ 26 measured yards from ~~E~~ W section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 550 measured yards from proposed well.
Owned by RAY WRIGHT
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 _____ measured yards from proposed well.
Owned by _____
Address _____

COMMENT Recognizing City water right 600 yards away

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: George Swingle
SIGNATURE (OWNER OR AGENT) TITLE ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Dean Slaughter 2. Ray Stallings 3. Bill Fletcher

SMITH PRINTING CO · DIAL PO5-9819 LUBBOCK

STATE OF TEXAS WELL REPORT for Tracking #351660

Owner:	**Cole Stanley Builders**	Owner Well #:	**No Data**
Address:	**6666 Amarillo Blvd West Amarillo, TX 79106**	Grid #:	**04-42-3**
Well Location:	**14247 Co Rd 17 Perryton, TX 79070**	Latitude:	**36° 22' 15" N**
		Longitude:	**100° 47' 08" W**
Well County:	**Ochiltree**	Elevation:	**No Data**

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

Drilling Start Date: **11/10/2013** Drilling End Date: **11/10/2013**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**495**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**22**	**495**	**Gravel**	**8/16**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**2**	**22**	**5 cement**

Seal Method: **mixed**

Sealed By: **Mark**

Distance to Property Line (ft.): **50+**

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

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

Method of Verification: **measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **286 ft.** below land surface on **2013-11-10** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 18 GPM with 0 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: **K- Ran Drilling**

5230 Hester
Amarillo, TX 79124

Driller Name: **Mark Randall** License Number: **2848**

Apprentice Name: **Lupe Limas** Apprentice Number: **57597**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**top soil**
5	**11**	**calliche**
11	**26**	**brown clay**
26	**87**	**light brown clay**
87	**129**	**white sandy clay**
129	**197**	**brown sandy clay**
197	**354**	**light brown sand with small gravel**
354	**389**	**light brown sand with small gravel**
389	**424**	**light brown sandy clay with s/s**
424	**482**	**light brown sand & gravel**
482	**495**	**red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 new pvc 0-285 200 cl
5 new pvc 285-425 250 cl
5 new perf .035 425-485 200 cl
10' blank on bottom

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 6141

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. O-903
Date Received
Size of Well 6 in. Maximum Yield GPM

1. Well Owner City of Perryton Address Box 849 Perryton
2. Well located ___ miles N, 2 miles S, 1 miles E, ___ miles W of the town of Perryton
3. County Ochiltree League
4. (NW¼) NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1011 Block 43 Survey H T&C
5. ACTUAL LOCATION OF THIS WELL IS { 840 measured yards from N or [redacted] section line. / 25 measured yards from [redacted] W section line.

DRILLER'S LOG OF WELL

Method of Drilling:

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
+2	3	Top Soil	520	537	Sand and Red Bed
3	30	Caliche and Clay			
30	170	Clay			
170	200	Clay and Some Rock			
200	230	Clay and Some Sand			
230	260	Slay and Sand, Sandy Clay			
260	320	Clay, Sand, and Gravel			
320	410	Sand and Clay			
410	440	Sand, Clay, and Gravel			
440	520	Sand and Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Water Industries, Inc. Address 212 E. New York St. Date Drilled 6-28- 1974

DESCRIPTION OF WELL

6. Casing: new, ~~used, or shop made~~ Diameter 16 in. Total length 537 ft.
7. Casing perforations: from 277 ft to 535 ft. Size 1/8. Number per foot 33.
8. Pump Column: Size 6 in. Total length 480 ft. Suction pipe: Size 6 in. Length 5 ft.
9. Pump bowls: Size 10. Number of stages 11. Pump discharge pipe: Size 6 in.
10. Depth to water level 304 ft. Pump discharge 500 GPM. Pumping level: 415 ft.
11. Power Unit: Electrical, ~~Natural Gas, Butane, Other~~ . Horsepower 75.

Signature CITY OF PERRYTON By Bud Stone (OWNER OR AGENT) City Engineer (TITLE) Box 849 Perryton, Tex. (ADDRESS)

Final Completion of Well — Date Sept 6, 1974.

Dpst Rpt Ck# 4214 9/13/74

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-903
TIME: 2:30
DATE APPLICATION FILLED OUT 10-12-73
SIZE OF WELL 8 MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton (NAME OF LANDOWNER) Box 841 Perryton, Texas (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. (NW¼), NE¼, SW¼, SE¼ of Section 101 Block 43

Survey H T + C

3. League _____

Permit good for 120 days only

4. Proposed Use (Municipal-~~Industrial-Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

5. Drilling to start about _____, 19____

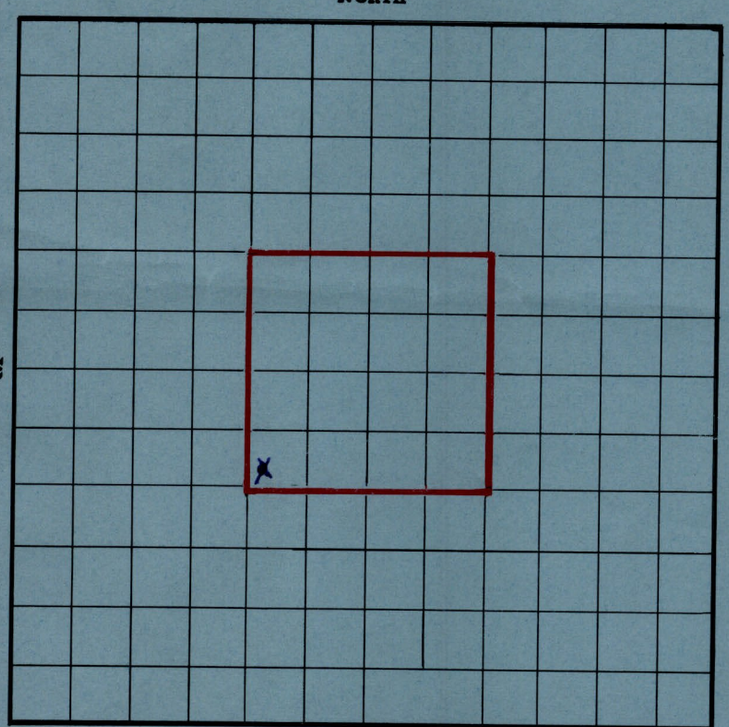
6. Drillers name _____

This well will be 2 miles ~~N~~ S ~~or S~~ and 1
MARK OUT ONE THAT DOES NOT APPLY
miles ~~E~~ W of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ◎ within Red Square for proposed well location. (Red square indicates 1 quarter section)

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct—They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

~~845~~ 840 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
~~29~~ 25 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: CITY OF PERRYTON By Ben D Stone (SIGNATURE (OWNER OR AGENT)) CITY ENGINEER (TITLE) Box 849 PERRYTON (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. Bill Blitchey 2. Edgar W Cook 3. John Daniel

SMITH PRINTING CO · DIAL PO5-9619 LUBBOCK

4

NORTHPLAINS GROUNDWATER

METER INSPECTIONS

OC-0903

WELL NUMBER: Perry #9

QUARTER: NW

SECTION: 1011

BLOCK: 43

SURVEY: H+TC

LAT: 36.36987

LONG: 100.78376

METER NUMBER: 942595-6

METER SIZE: 6"

METER READING: 804710

READING MULTIPLIER: x100

METER LOCATION: At well

STATE OF TEXAS WELL REPORT for Tracking #674372

Owner:	**TRENT MCKINLEY**	Owner Well #:	**1**
Address:	**PO BOX 4 PERRYTON, TX 79070**	Grid #:	**04-42-2**
Well Location:	**1012-43-H & TC SURVEY OCHILTREE COUNTY,TX PERRYTON, TX**	Latitude:	**36° 22' 09.8" N**
		Longitude:	**100° 47' 47.52" W**
	PERRYTON,TX: INT OF ROAD K AND HWY 83: EAST 1 MILE TO CO RD 17, NORTH .5 MILE, WEST .65 MILE TO CURVE,SOUTHWEST .05 MILE	Elevation:	**2930 ft. above sea level**
Well County:	**Ochiltree**		

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

Drilling Start Date: **7/8/2024** Drilling End Date: **7/8/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9.75	**0**	**380**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
150	**380**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement**

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: **350 ft.** below land surface on **2024-07-12**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 10 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
350	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRILLING COMPANY**

PO BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**TOPSOIL**
3	**35**	**BROWN CLAY**
35	**120**	**SANDY CLAY**
120	**185**	**FINE SAND**
185	**285**	**RED SAND**
285	**295**	**FINE SAND**
295	**310**	**TAN CLAY**
310	**330**	**SANDY CLAY**
330	**340**	**RED SAND**
340	**380**	**RED CLAY**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**Blank**	**New Plastic (PVC)**		**-2**	**300**
5	**Screen**	**New Plastic (PVC)**		**300**	**340**
5	**Blank**	**New Plastic (PVC)**		**340**	**360**
5	**Screen**	**New Plastic (PVC)**		**360**	**380**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #156098

Owner:	**DAVID POND**	Owner Well #:	**100808**
Address:	**402 S. COLGATE PERRYTON, TX 79070**	Grid #:	**04-42-2**
Well Location:	**SEC 1012 BLK 43 SURVEY H&TC PERRYTON, TX 79070**	Latitude:	**36° 21' 50" N**
		Longitude:	**100° 47' 43" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/8/2008** Drilling End Date: **10/8/2008**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**435**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
20	**435**	**Gravel**	**#1 fine**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
20	**20**	**5**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **296 ft.** below land surface on **2008-10-08** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 17 GPM after 1.5 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: **LES TAYLOR DRILLING**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**300**	**surface caliche clay & sand**
300	**340**	**med sand w/clay strips**
340	**380**	**med sand w/clay strips**
380	**420**	**med sand w/small clay strips**
420	**435**	**sand clay & red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 N STEEL +2 -3
5 N PVC -3 345
5 N PERFS 345 425 .050
5 N PVC 425 435

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

8

Well Reclassification

Current size or classification (as per permit or log) D

Requested new classification Unused

I City of Perry for do hereby certify that Well No. DC-0371 located in Ochiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1012, Block H3, Survey H+TC will not be operated to exceed the actual pumping capacity of ~~0~~ GPM, and meets the spacing requirements of ~~0~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Richard Collins
Signature (Owner/Agent)

11-21-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 3218

FOR USE OF COMMITTEEMEN	
Field Well No.	O-371
Date Received	
Size of Well	8¼ in.
Maximum Yield	GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner Addison Cutter Address 6405 Royal Lane Dallas 30

2. Well located ____ miles N, 1 miles S, ½ miles E, ____ miles W of the town of Perryton

3. County Ochiltree League ____

4. NW¼ NE¼ (SW¼) SE¼ (CIRCLE ONE) Section 1012 Block 43 Survey H&TC Ry Co

5. ACTUAL LOCATION OF THIS WELL IS { 32 measured yards from N or (S) section line. / 658 measured yards from (W) or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	206	Caliche & Clay			
206	229	Tight sand			
229	290	Good water sand			
290	321	Water sand w/ clay streaks			
321	410	Course water sands			
410	436	Brown clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Jim Ballew Address Box 538 Perryton, Tx Date Drilled July 15, 1954

DESCRIPTION OF WELL

6. Casing: new, ~~used, or shop made~~. Diameter 16 x 250" in. Total length 417 ft.

7. Casing perforations: from 297 ft to 417 ft. Size 1/8". Number per foot @ 16.

8. Pump Column: Size 8 in. Total length 407 ft. Suction pipe: Size 8" in. Length 10' ft.

9. Pump bowls: Size 10. Number of stages 9. Pump discharge pipe: Size 8 in.

10. Depth to water level 262 ft. Pump discharge 800 GPM. Pumping level: 386 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other Natural Gas. Horsepower 148.

Signature Delbert Dew (OWNER OR AGENT) Assistant (TITLE) Rt 1 Box 103 (ADDRESS)

Final Completion of Well — Date 7/20/64, 19____.

CR 1558

RECEIVED OCT 13 1964

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-371
TIME: 8:45
DATE APPLICATION FILLED OUT 7-13-64
DATE APPROVED BY COUNTY COMMITTEE _____
SIZE OF WELL 8" MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, Addison Cutter _____ 6405 Royal Lane Dallas 30, Tex
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. NW¼, NE¼, SW¼, SE¼ of Section 1012 Block 43
Survey H+TC Ry Co

3. League _____

Permit good for 120 days only from date of approval.

4. Proposed Use (~~Municipal~~ ~~Industrial~~-Irrigation)
MARK OUT ONES THAT DO NOT APPLY

5. Drilling to start about 7-30, 19 64

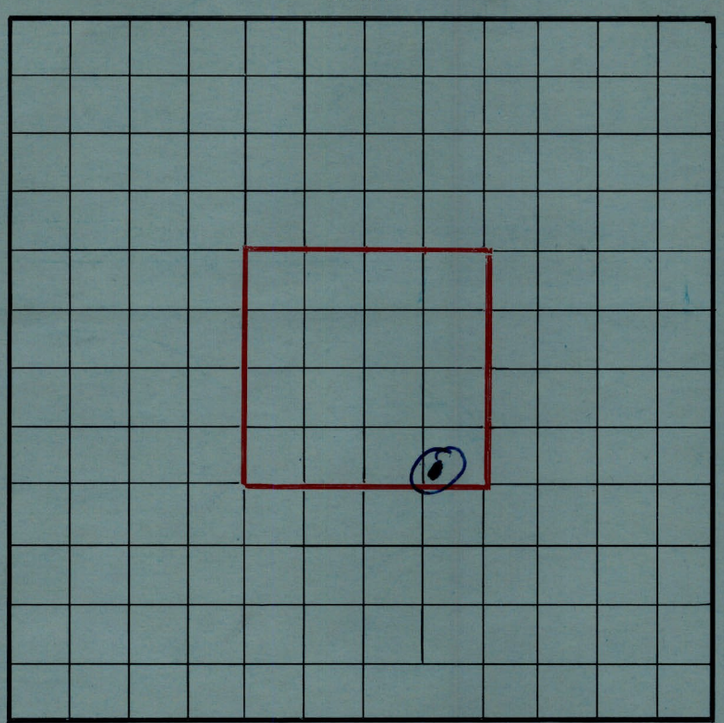
6. Drillers name Sean Ballew

This well will be 1 miles ~~N~~ or S and ½
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

32 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY

698 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT 1700 ft from 319 permit for city of Perryton

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Addison Cutter — 6405 Royal Lane, Dallas 75230
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Sean Slaughter 2. Ray Stallings 3. Bill Pluteher

SMITH PRINTING CO · DIAL PO5-9819 LUBBOCK

ASCO
Associated Supply Company, Inc.
ESTABLISHED 1960

Well # 7

old Meter # 94-6-3455 Reading 10348

New Meter # 94-6-3454 Reading 00000

New Meter installed 9-1-06

Well # 4 54448

old Meter # 93-4-2743 Reading

New Meter # 98-3022-4 Reading 00000

New Meter installed 8-10-06

where ~~Well~~ is well # 4?

Exceeding Your Expectations

Lubbock 806.745.2000 Amarillo 806.372.8386 Odessa 432.337.2823 Midland 432.685.9999 Perryton 806.435.7773 Clovis 505.742.2726

STATE OF TEXAS WELL REPORT for Tracking #149272

Owner:	**SILVANO RAMERO**	Owner Well #:	**OC-1296**
Address:	**1929 ETON PERRYTON, TX 79072**	Grid #:	**04-42-3**
Well Location:	**SEC 1012 BLK 43 PERRYTON, TX 79072**	Latitude:	**36° 22' 06" N**
		Longitude:	**100° 47' 06" W**
Well County:	**Ochiltree**	Elevation:	**2908 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **8/6/2008** Drilling End Date: **8/6/2008**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**460**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
20	**460**	**Gravel**	**#1 fine**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**7**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **290 ft.** below land surface on **2008-08-06** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 20+ GPM with 0 ft. drawdown after 1.5 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: **LES TAYLOR DRILLING**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**300**	**surface caliche clay & sand**
300	**350**	**med to coarse sand & gravel w/clay**
350	**400**	**clay, sandy clay & fine sand**
400	**450**	**fairly loose fine to med sand**
450	**460**	**red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**N**	**STEEL**	**+2 -3**
5	**N**	**PVC**	**-3 390**
5	**N**	**PERFS**	**390 450 .050**
5	**N**	**PVC**	**450 460**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #582555

Owner:	**City of Perryton**	Owner Well #:	**Municipal #7A**
Address:	**PO Box 849 Perryton, TX 79070**	Grid #:	**04-42-3**
Well Location:	**Sec 1012, 43, H & TC Southeast Corner of Perryton Perryton, TX**	Latitude:	**36° 21' 56.49" N**
		Longitude:	**100° 47' 04.96" W**
Well County:	**Ochiltree**	Elevation:	**No Data**

Type of Work: **New Well** Proposed Use: **Public Supply**

Drilling Start Date: **7/12/2021** Drilling End Date: **7/13/2021** **Plans Approved by TCEQ - YES**
PWS# 1790001

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
24	**0**	**570**

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
280	**285**	**Sand**	**Fine**
285	**570**	**Gravel**	**Silica Sand**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**280**	**Cement 490 Cubic Feet**

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **1227' S 204' E**

Distance to Septic Field or other concentrated contamination (ft.): **no visible**

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

Method of Verification: **Permit OC12322**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
308 - 570	**No Data**

Chemical Analysis Made: **Yes**

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: **Hydro Resources Mid Continent Inc.**

PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Report Amended on 6/26/2024 by Request #42686

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**80**	**surface top soil brown clay w/gray clay strips**
80	**100**	**caliche clay strips**
100	**240**	**fine sand fairly loose /clay strips**
240	**300**	**med to coarse fairly loose sand some gravel strips**
300	**420**	**fine fairly loose sand brown clay mix**
420	**440**	**fine to med fairly loose sand**
440	**500**	**fine to med to coarse loose sand**
500	**520**	**med size fairly loose sand some coarse strips**
520	**560**	**med to coarse fairly loose sand some brown clay**
560	**570**	**brown and red clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16	**Blank**	**New Steel**	**312**	**-2**	**476**
16	**Dielectric Coupling 2"**	**New Steel**		**476**	**478**
16	**Screen**	**New Stainless Steel**	**0.312**	**478**	**560**
16	**Blank**	**New Stainless Steel**	**0**	**560**	**570**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 6142

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. O-944
Date Received
Size of Well 6 in. Maximum Yield GPM

1. Well Owner City of Lamyton Address Box 849 Lamyton
2. Well located ____ miles N, 2 miles S, 1 miles E, ____ miles W of the town of Lamyton
3. County Ochiltree League
4. NW¼ NE¼ SW¼ (SE¼) (CIRCLE ONE) Section 1012 Block 43 Survey H T & C
5. ACTUAL LOCATION OF THIS WELL IS { 400 measured yards from [redacted] S section line. / 20 measured yards from E [redacted] section line.

DRILLER'S LOG OF WELL

Method of Drilling: ____

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
+2	3	Top Soil	380	440	Clay and Sand
3	30	Caliche and Clay	440	500	Coarse sand and Some Clay
30	170	Clay	500	540	Sand and Clay
170	200	Clay and Some Sand	540	567	Red Bed
200	230	Clay and Sand			
230	260	Sandy Clay			
260	290	Sand and Clay			
290	320	Sand, Clay, and Gravel			
320	350	Sand, Clay, and Coarse Sand			
350	380	Clay and Some Sand			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Water Industries, Inc. Address 212 E. New York St. Date Drilled 6-21- 1974

DESCRIPTION OF WELL

6. Casing: new, ~~used, or shop~~ made. Diameter 16 in. Total length 567 ft.
7. Casing perforations: from 285 ft to 562 ft. Size 1/8". Number per foot 33.
8. Pump Column: Size 6 in. Total length 480 ft. Suction pipe: Size 6 in. Length 5 ft.
9. Pump bowls: Size 10. Number of stages 11. Pump discharge pipe: Size 6 in.
10. Depth to water level 289 ft. Pump discharge 550 GPM. Pumping level: 458 ft.
11. Power Unit: Electrical, ~~Natural Gas, Butane, Other~~ ____. Horsepower 75.

Signature CITY OF PERRYTON by [redacted] (OWNER OR AGENT) City Engineer (TITLE) Box 849 Perryton, Tex. (ADDRESS)

Final Completion of Well — Date Sept 6, 1974.

Dpst Rfd 9-13-74 CK# 4214

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-944
TIME: _____
DATE APPLICATION FILLED OUT 8-21-74
SIZE OF WELL 6 MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton (NAME OF LANDOWNER) Box 849 Perryton (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County _____

2. NW¼, NE¼, SW¼, (SE¼) of Section 1012 Block 43
Survey H T + C

3. League _____

Permit good for 120 days only

4. Proposed Use (Municipal ~~Industrial Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

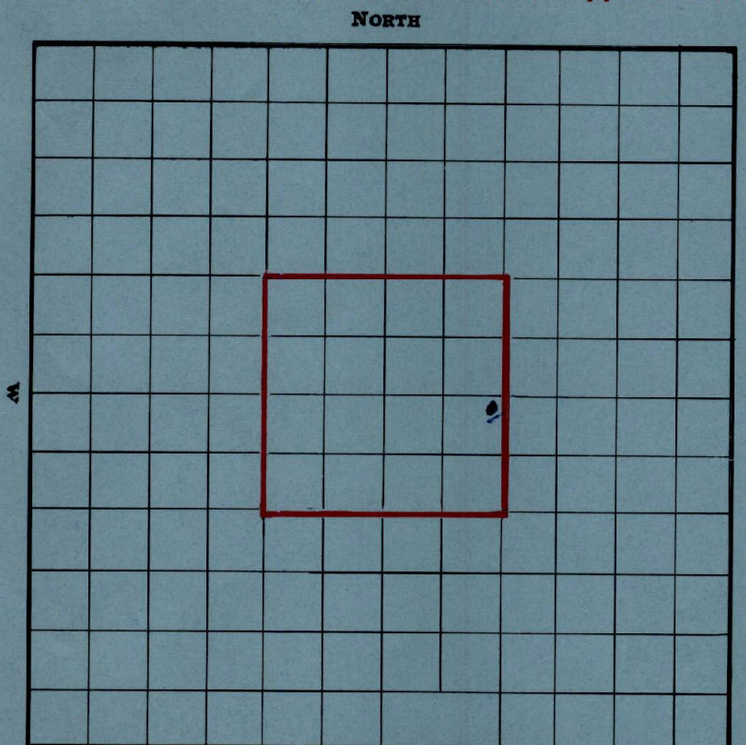
5. Drilling to start about _____, 19__

6. Drillers name Waters Industries

This well will be 2 miles ~~N~~ or S and 1
MARK OUT ONE THAT DOES NOT APPLY
miles E ~~W~~ of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.



Please Make Sure
Your Measurements are Correct—
They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

400 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY

20 measured yards from (E ~~W~~) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: CITY OF PERRYTON By [signature] (SIGNATURE (OWNER OR AGENT)) City Engineer (TITLE) Box 849 Perryton, Tex. (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. Don Manning 2. Bill Pletcher 3. Edgar Cook

SMITH PRINTING CO · DIAL PO5-9619 LUBBOCK

Ck rpsd 9-3-74

NORTHPLAINS GROUNDWATER

SE

METER INSPECTIONS

OC-0944

WELL NUMBER: Perry #7

QUARTER: SE

SECTION: 1012

BLOCK: 43

SURVEY: H+TC

LAT: 36.36580

LONG: 100.78420

METER NUMBER: 94-63455

METER SIZE: 6"

METER READING: 001640

READING MULTIPLIER: x100

METER LOCATION:

NORTH PLAINS GROUNDWATER Conservation District

DISTRICT USE ONLY

GPU # 8979

Disposition of a Replaced Well

Owner Name or Authorized Agent Name: BRANDAN KNAPP

I BRANDAN KNAPP (Owner or Authorized Agent) am replacing District Well OC-0944

and

will comply with District Rule 3.5 which states: Immediately upon completion of a replacement Well, the Well being replaced shall be:

SIGN ONE

1. **Plugged** – Complete and absolute sealing of the entire well borehole in accordance with the requirements of the District and any statewide law, agency or political subdivision having jurisdiction including, but not limited to, Chapter 1901 of the Texas Occupations Code, and the Texas Commission on Environmental Quality.

x _____
Owner or Authorized Agent Signature

2. Properly equipped and constructed as a Domestic Well or Livestock Well in such a manner that it cannot produce more than 25,000 gallons of groundwater per day.

_____
Owner or Authorized Agent Signature

3. Reclassified as a Livestock or Domestic Well but remaining Capped if the Well Casing is in good condition and all production, piping, engine and surface works are removed. I understand a capped Well must remain capped until I notify the District that the Well will be equipped as a Livestock or Domestic Well not to exceed 17.5 GPM and will count against my Well density until it is equipped as such.

_____
Owner or Authorized Agent Signature

A copy of a map showing the location of the well being replaced and the new well being drilled is attached.

STATE OF TEXAS WELL REPORT for Tracking #361899

Owner:	**CASTANON,MIKE**	Owner Well #:	**No Data**
Address:	**P.O. BOX 951 PERRYTON, TX 79070**	Grid #:	**04-42-3**
Well Location:	**MIKE CASTANON 1012-43-H&TC TX**	Latitude:	**36° 21' 49" N**
		Longitude:	**100° 47' 09" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **4/23/2014** Drilling End Date: **4/23/2014**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9.75	**0**	**540**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
300	**540**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
1	**20**	**5**

Seal Method: **CEMENT GROUT**

Sealed By: **HOWARD DRILLING COMPANY**

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: **307 ft.** below land surface on **2014-04-23** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **378**

Well Tests: **Pump** **Yield: 120 GPM with 43 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
307	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRLLING COMPANY**

P.O. BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**SURFACE**
4	**8**	**CALICHE**
8	**73**	**CLAY**
73	**76**	**CALICHE ROCK**
76	**104**	**CLAY**
104	**106**	**CALICHE ROCK**
106	**120**	**SANDY CLAY**
120	**273**	**SAND**
273	**310**	**SAND/CLAY STREAKS**
310	**530**	**SAND**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
5 NEW PVC PLAIN +2 TO 440
5 NEW PVC PERF 440 TO 540 .032

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 7225

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN

Field Well No. O-1048

Date Received 3-23-90

Size of Well 6 in. Maximum Yield 750 GPM

1. Well Owner City of Perryton Address 110 S. Ash, Perryton, Texas 79070

2. Well located _____ miles N, 2 miles S, 1 miles E, _____ miles W of the town of Perryton, Texas

3. County Ochiltree League _____

4. NW¼ ~~NE¼ SW¼ SE¼~~ (CIRCLE ONE) Section 926 Block 43 Survey H & T C

5. ACTUAL LOCATION OF THIS WELL IS { 35 measured yards from N ~~S~~ section line. / 20 measured yards from ~~E~~ W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Top Soil	240	270	Sand, Some Sandrock Layers
3	30	Caliche	270	300	Sand, Sandrock Layers, Some Clay Laye
30	60	Caliche	300	330	Coarse Sand
60	90	Sand, Sandrock, Clay	330	360	Coarse Sand, Fine Gravel
90	120	Sand, Sandrock	360	390	Coarse Sand, Fine Gravel
120	150	Sand, Sandrock Layers	390	420	Coarse Sand, Fine Gravel
150	180	Sand, Some Sandrock Layers	420	450	Coarse Sand, Fine Gravel
180	190	Sand, Some Sandrock Layers	450	480	Coarse Sand, Some Clay Layers
190	205	Sand, Gravel	480	510	Coarse Sand, Some Clay Layers
205	240	Sand, Sandy Clay, Some Sandrock	510	540	Clay, Sand

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Wall & Son's Drilling Inc. Address Box 1815 Hereford TX 79045 Date Drilled 2-7 19 90

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter 12 3/4 in. Total length 643 ft.

7. Casing perforations: from _____ ft to _____ ft. Size _____. Number per foot _____.

8. Pump Column: Size 6 in. Total length 550 ft. Suction pipe: Size 6 in. Length 5 ft.

9. Pump bowls: Size 10" . Number of stages 10 . Pump discharge pipe: Size 6 in.

10. Depth to water level 289 ft. Pump discharge 550 GPM. Pumping level: 351 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 100 .

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

Rfd. Ck. #5272
3-28-90

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. 0-1048
TIME: N/A
DATE APPLICATION FILLED OUT 2/2/90
SIZE OF WELL 6 MAXIMUM YIELD 750 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton, 110 S. Ash, Perryton, Texas 79070
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree
2. NW¼, ~~XXXXXXXXXXXXXXXX~~ Section 926 Block 43
   Survey H & TC
3. League _____

Permit good for 120 days only

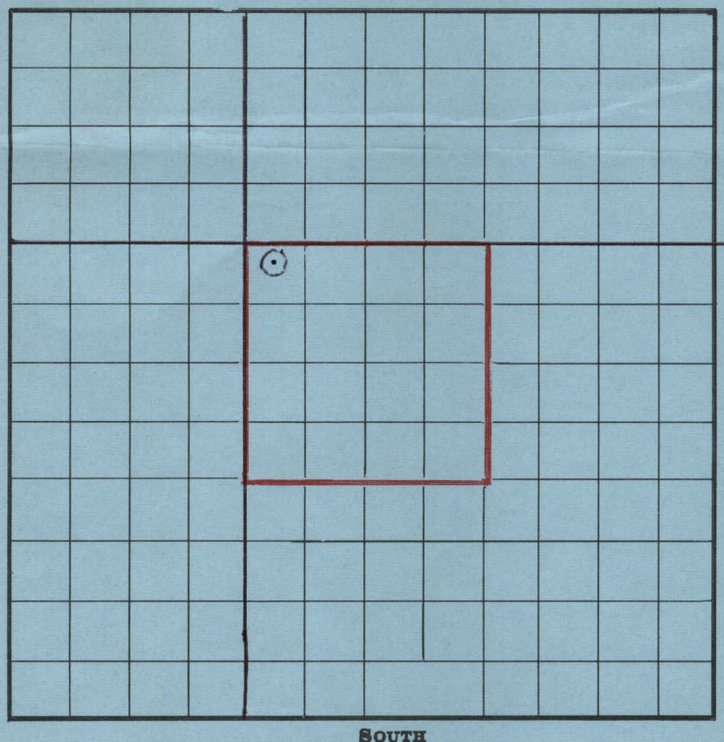
4. Proposed Use (Municipal/~~XXXXXXXXXXXXXXXX~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about 1-30, 1990
6. Drillers name Wall & Sons, Box 1815, Hereford, T

This well will be 2 miles ~~XX~~ or S and 1 miles E or ~~W~~ of the town of Perryton
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

35 measured yards from (N ~~S~~) section line and
MARK OUT ONE THAT DOES NOT APPLY

20 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 840 measured yards from proposed well.
Owned by City of Perryton
Address 110 S. Ash

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT This is to replace existing well, your number 0-233

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: [signature] Director of Public Works, 110 S. Ash, Perryton, Tx.
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Bob Wilson 2. Dean Slaughter 3. Dean Leighton

log sent Dft. 3-7-90

Continue Page 2

540	570	Coarse Sand, Fine Gravel
570	600	Coarse Sand, Some Clay Layers
600	636	Sand, Clay
636	643	Red Bed

7. Casing Perforations:

643'	to 622'	Blank
622'	to 540'	.050 Mill Slot
540'	to 498'	.050 Screen
498'	to 457'	.050 Mill Slot
457'	to 414'	.050 Screen
414'	to 332'	.050 Mill Slot

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. 4591

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN

Field Well No. O-501

Date Received 4-7-66

Size of Well ~~26~~ 16 in. Maximum Yield _____ GPM

1. Well Owner City of Perryton Address Perryton, Texas 79070

2. Well located _____ miles N, _____ miles S, _____ miles E, _____ miles W of the town of _____

3. County Ochiltree League _____

4. ~~NW¼~~ ~~NE¼~~ ~~SW¼~~ SE¼ Section 1012 Block 43 Survey H&TC
(CIRCLE ONE)

5. ACTUAL LOCATION OF THIS WELL IS { 26 measured yards from ~~N~~ or S section line. / 350 measured yards from E or ~~W~~ section line.

DRILLER'S LOG OF WELL

Method of Drilling: _____

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top soil	170	180	Med. sand
4	20	Red clay - sandy	180	250	Med. sand, clay, caliche
20	60	Clay, caliche	250	270	Coarse sand and clay streaks
60	76	Clay, caliche & sand	270	330	Fine to med. coarse sand, clay strks
76	81	Hard sandrock	330	350	Med. sand, brown clay streaks
81	120	Soft sand and sandrock	350	391	Fine sand soft, hard clay
120	130	Soft clay, caliche - little sand	391	400	Red clay
130	140	Caliche - fine sand	400	439	Fine red sand, red clay stringers
140	160	Fine sand, a little caliche	439	458	Red clay
160	170	Fine to Med. sand			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller _____ Address _____ Date Drilled _____ 195__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter 16 in. Total length 458 ft.

7. Casing perforations: from _____ ft to _____ ft. Size _____. Number per foot _____.

8. Pump Column: Size 6 in. Total length 400 ft. Suction pipe: Size 6 in. Length ~~40~~ 7 ft.

9. Pump bowls: Size 10. Number of stages 9. Pump discharge pipe: Size 6 in.

10. Depth to water level 267 ft. Pump discharge 350 GPM. Pumping level: 335 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 60.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19__.

Cbh 2706

8-21-67

4591

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-501
TIME: 9:45
DATE APPLICATION FILLED OUT 4-7-66
SIZE OF WELL 8" MAXIMUM YIELD _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton, Perryton, Tex
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree
2. NW¼, NE¼, SW¼, (SE¼) of Section 102 Block 43
   Survey H&TC
3. League _____

Permit good for 120 days only

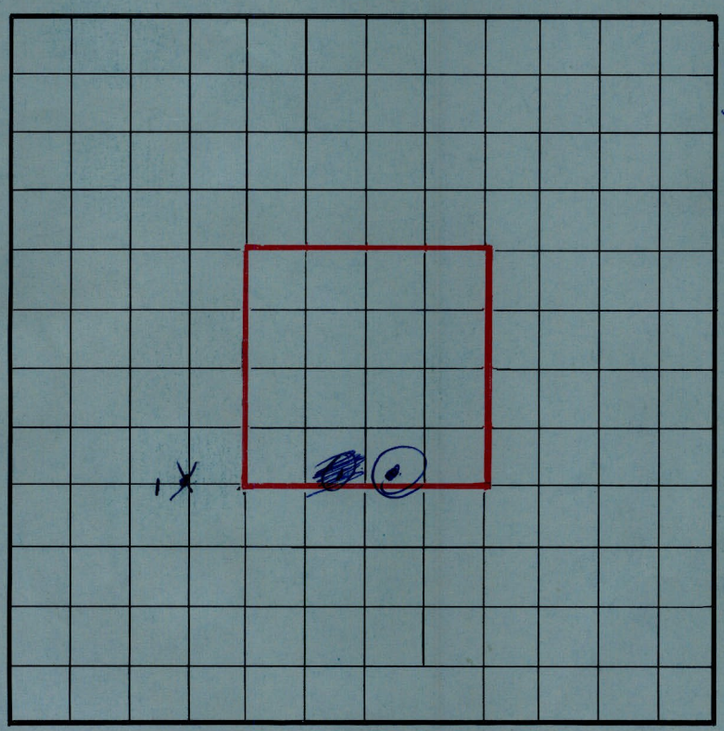
4. Proposed Use (Municipal-~~Industrial-Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about _____, 19____
6. Drillers name _____

This well will be _____ miles N or S and _____
MARK OUT ONE THAT DOES NOT APPLY
miles E or W of the town of _____
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section

MARK X, showing 3 closest wells, and/or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
~~2330~~ ~~1552~~ 26 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
350 ~~500~~ measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 Over 400 yards measured yards from proposed well.
Owned by Addison Cutter
Address Operated by Delbert Trew Perryton, Tex

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT There is over 400 yards between wells

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Ben D. Street — City of Perryton Director Public Wks. — P.O. Box 849 Perryton
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Bill Pletcher 2. Roger Pearson 3. Dean Slaughter

SMITH PRINTING CO - DIAL PO5-9619 LUBBOCK

McMORRIES AND ASSOCIATES
BSCE LLB MCE

MUNICIPAL ENGINEERS FLEETWOOD 6-2796

6300 CANYON DRIVE
ROUTE 1 - BOX 826
AMARILLO, TEXAS 79106

June 29, 1967

Mr. Buchanan
North Plains Water District
P. O. Box 935
Dumas, Texas 79029

Re: City of Perryton, Texas

Dear Mr. Buchanan:

The City of Perryton has asked us to forward a copy of the log on the recently completed water well #13 located 1,050 feet west and 72 feet north of the southeast corner of Section 1012, Block 43, H&TC Railway Company Survey. We are enclosing one copy of the formation log and casing record.

If you need additional information, please let us know.

Very truly yours,

Bill R. McMorries (ahd)

Bill R. McMorries, P.E.

cc: Ben Street
City Engineer
Perryton

Enc.

CITY OF PERRYTON
WATER SUPPLY WELL NO.8.

LOG

Top Soil	
Red clay - sandy	0'- 4'
Clay, caliche	4'- 20'
Clay, caliche and sand	20'- 60'
Hard sandrock	60'- 76'
Soft sand and sandrock	76'- 81'
Soft clay, caliche - a little sand	81'- 120'
Caliche - fine sand	120'- 130'
Fine sand - a little caliche	130'- 140'
Fine to medium sand	140'- 160'
Medium sand	160'- 170'
Medium sand - a little clay and caliche	170'- 180'
Fine to medium sand - more caliche	180'- 190'
Medium to coarse sand - hard streaks of caliche	190'- 200'
Medium to coarse sand	200'- 210'
Medium sand	210'- 220'
Medium to coarse sand	220'- 230'
Coarse sand - a little clay (Clay at 256')	230'- 250'
Coarse sand and clay streaks	250'- 260'
Fine to coarse sand-clay streaks-softer at 276'	260'- 270'
Sand and clay streaks	270'- 280'
Fine sand, clay streaks, softer at 292'	280'- 290'
Fine to medium sand - softer at 305'	290'- 300'
Fine to medium sand	300'- 310'
Medium sand, brown clay streaks	310'- 330'
Fine sand - soft	330'- 350'
Fine sand - harder - clay at 372'	350'- 370'
Fine sand - brown and red clay stringers	370'- 380'
Red clay	380'- 391'
Fine red sand, red clay stringers	391'- 400'
Fine red sand - a little clay	400'- 410'
Red clay	410'- 439'
	439'- 458'

(All measurements are from RKB which is seven feet above ground)

Static water level ---------- 267' (ground level)

Casing:

16" O.D., 0.375" wall	0' - 269'
16" Perforated pipe	269' - 434'
16" O.D. pipe	434' - 439'

Well No. O-501
Section: 1012, Block 43, Survey H&TC
Casing perforations: Number per foot 1/8"X10"slots-16 rows
Pump Column: Size 6" in. Total length 400 ft.
Suction pipe: Size 10' X 6". Number of Stages 9.
Pump Bowls: Size 10". Length 7'-6" ft.
Pump Discharge pipe: Size 6" in.
Depth to water level 265 ft. Pump Discharge 350 GPM
Pumping level: 335 ft.
Power Unit: (Electrical), Natural Gas, Butane
Other _____. Horsepower 60.

Thank you.
North Plains Water District, Dumas, Texas 79029

NORTHPLAINS GROUNDWATER

METER INSPECTIONS

WELL NUMBER: OC-0501

QUARTER: SE

SECTION: 1012

BLOCK: 43

SURVEY: H+TC

LAT: 36, 36251

LONG: 100.78750

METER NUMBER: 94-4595-4

METER SIZE: 4"

METER READING: 786970

READING MULTIPLIER: x 100

METER LOCATION: At well

Perryton Wells

Water Well #1 N 36.40641 OC-1015
W 100.80393
Elevation 2930ft

Water Well #2 N 36.40038 OC-1109
W 100.80492
Elevation 2920ft.

Water Well #3 N 36.39015 OC-0889
W 100.80205
Elevation 2917
? ~~No Permit~~ : 1013, 43, H+TC

Water Well #4 N 36.38550
W 100.80068
Elevation 2930ft
? no permit

Water Well #5 N 36.36212 OC-1048
W 100.78375
Elevation 2898ft

Water Well #6 N. 36.35893 OC-0334
W 100.77666
Elevation 2903ft

Water Well #7 N 36.36580
W 100.78420 -OC-0944
Elevation 2909ft

Water Well #8 N 36.36251 OC-0501
W. 100.78750
Elevation 2901ft

Water Well #9 N 36.36987 OC-0903
W 100.78376
Elevation 2911ft

Water Well #10 N 36.33316 ?, OC-1042
W 100.78370
Elevation 2913ft

Water Well #11 N 36.32176
W. 100.78378 ? ?. OC-1043
Elevation 2895ft

Reserve Wells

#23 N 36.26226 -462, 43, H+TC
W 100.77756
Elevation 2771ft

#15 N. 36.23580 -575, 43, H+TC
W 100.76075
Elevation 2845ft

#14 N. 36.24276 -574, 43, H+TC
W 100.77971
Elevation 2868ft

#3 N. 36.22138 570, 43, H+TC
W 100.76010
Elevation 2850ft.

#8 N 36.25723 OC-0889
W 100.73370 657, 43, H+TC
Elevation 2859ft.

Blassingame N. 36.30463 15, 13, T+WD
W 100.82091
Elevation 2948ft.

#12 N. 36.36270 OC-0371
W. 100.79544
Elevation 2925ft.

STATE OF TEXAS WELL REPORT for Tracking #45116

Owner:	**DAVE McCOY**	Owner Well #:	**No Data**
Address:	**P.O. BOX 570 PERRYTON, TX 79070**	Grid #:	**04-42-3**
Well Location:	**STOCKWELL 925-43-H&TC SURVEY TX**	Latitude:	**36° 21' 38" N**
		Longitude:	**100° 47' 05" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Stock**

Drilling Start Date: **8/25/2004** Drilling End Date: **8/25/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
11.5	**0**	**420**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
300	**420**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
4	**25**	**7**

Seal Method: **CEMENT GROUT**

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: **Pitless Adapter Used**

Water Level: **250 ft.** below land surface on **2004-08-25** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **400**

Well Tests: **Pump** **Yield: 65 GPM with 84 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
250	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRILLING CO.**

P.O. BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**2**	**TOP CLAY**
2	**11**	**CLAY**
11	**40**	**CALICHE CLAY/CLAY**
40	**80**	**CALICHE CLAY**
80	**90**	**CALICHE CLAY/ROCK**
90	**110**	**CALICHE CLAY/SANDY CLAY**
110	**140**	**CALICHE CLAY/CLAY**
140	**160**	**CALICHE CLAY/SANDY CLAY**
160	**173**	**SANDY CLAY/SAND**
173	**205**	**SAND**
205	**220**	**SANDY CLAY**
220	**237**	**SAND**
237	**266**	**CLAY**
266	**280**	**SANY CLAY/SAND**
280	**296**	**SAND**
296	**313**	**CLAY**
313	**326**	**SANDY CLAY**
326	**340**	**SAND W/CLAY STREAKS**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	**NEW**	**PVC**	**PLAIN +2-360**
5"	**NEW**	**PVC**	**PERF 360-420 .032**

340-418 SAND
418-420 PINK CLAY

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

DIST. 2 FORM NO. 355-RLW

Original—District Office Copy

District File No. 859

FOR USE OF COMMITTEEMEN

Field Well No. O-234

Date Received 5/27/57

Size of Well 16 in. Maximum Yield _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner City of Perryton Address Perryton, Texas

2. Well located _____ miles N, 2 miles S, 1½ miles E, _____ miles W of the town of Perryton

3. County Ochiltree Labor _____ League _____ Homestead _____

4. NW¼ ~~NE¼ SW¼ SE¼~~ (CIRCLE ONE) Section 926 Block 43 Survey H & TC RR

5. ACTUAL LOCATION OF THIS WELL IS { 325 measured yards from N or ~~S~~ line of this tract of land. / 637 measured yards from ~~E~~ or W line of this tract of land.

DRILLER'S LOG OF WELL

Method of Drilling: _____

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	7	Top soil	317	350	Med. to fine red snad
7	78	Brown clay & caliche	350	390	Coarse and loose red sand
78	180	Fine sand	390	413	Soft clay
180	213	Coarse clean sand	413	419	Coarse sand
213	222	Hard red clay	419	428	Soft clay
222	234	Soft sand clay, sand rock, fine sand	428	438	Coarse sand
234	240	Str/clay & fine sand	438	494	Brown shale
240	270	Clay	494	499	Loose coarse sand
270	278	Coarse red sand	499	515	Coarse sand & hard lime shell
278	292	Soft clay	515	550	Coarse snad
292	317	Coarse red sand	550	586	Very coarse sand
			586	596	Red bed

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller W. D. Jones Drlg. Address _____ Date Drilled 7-8-57 195__

DESCRIPTION OF WELL

6. Casing: new, used, gas line, or shop made. Diameter 16 in. Total length _____ ft.

7. Casing perforations: from _____ ft to _____ ft. Size _____. Number per foot _____.

8. Pump Column: Size 6 in. Total length _____ ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 252 ft. Pump discharge 600 GPM. Pumping level: 287 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower 75.

Signature _____
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date _____, 19____.

Ck #329

RECEIVED JAN 16 1958

DIST. 2 FORM NO. 255

Original—District Office Copy

District File No. _____
FOR USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. O-234
DATE APPLICATION FILLED OUT May 27, 1957
DATE APPROVED BY COUNTY COMMITTEE _____
SIZE OF WELL 8 MAXIMUM YIELD 1000 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committeeman for approval. (PLEASE TYPE or PRINT.)

I, City of Perryton #6 Perryton, Texas
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

1. County Ochiltree

2. NW¼, NE¼, SW¼, SE¼ of Section 926 Block 43
Survey Houston & Texas Central RR

3. Labor _____ League _____

4. Proposed Use (Municipal-~~Industrial-Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY

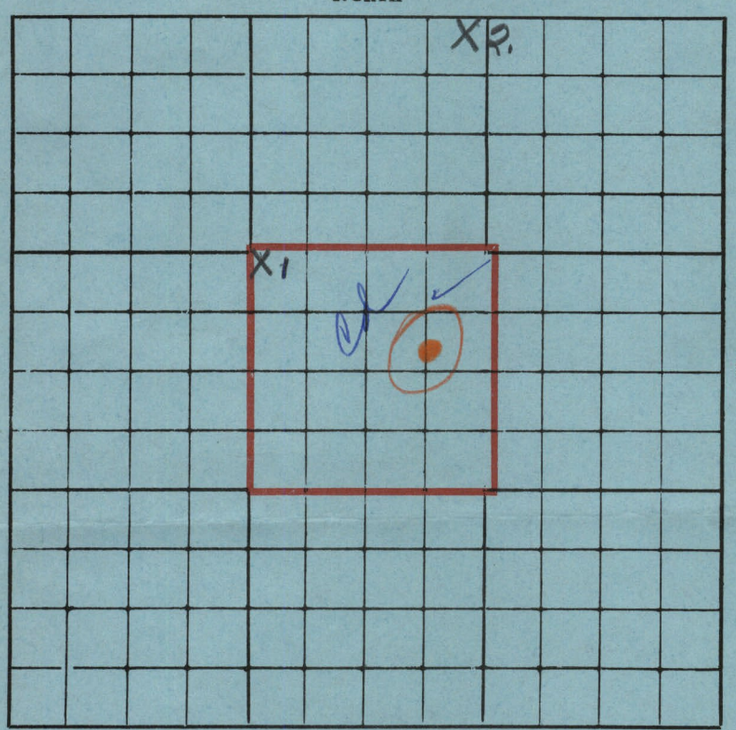
5. Drilling to start about May 31, 1957, 19__

This well will be 3 miles ~~N~~ or S and 1½
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of Perryton, Texas
MARK OUT ONE THAT DOES NOT APPLY

This Permit Good for 120 Days Only from Date of Approval

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section or 1 labor.
MARK X, showing 3 closest wells, and or applications.

NORTH



SOUTH

Please Make Sure Your Measurements are Corerct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

325 measured yards from (~~N~~ S) property line and
MARK OUT ONE THAT DOES NOT APPLY

637 measured yards from (~~E~~ W) property line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells, and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 700 measured yards from proposed well.
Owned by City of Perryton
Address Perryton Tex

Well 2 637 measured yards from proposed well.
Owned by O.R. Bruner
Address Perryton, Tex

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: J. W. Mimms Engineer Amarillo, Texas
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Dan Manning 2. Howard Holt 3. Ray Stallings

SMITH PRINTING CO - DIAL PO5-9619 LUBBOCK

W. D. JONES DRILLING CONTRACTOR

WELL RECORD

NAME City of Perryton #6

Address Perryton, Texas

Miles from nearest town Two South and 1½ miles East of Perryton

Location on Place 1900 ft. East & 1200 ft. South of the NW corner of Sec. 926.

Sec. No. 926 Blk. No. 43 Survey H&TC Ry Co County Ochiltree

Date Drilled 7-8-57 Depth of Well 596 ft. Gravel Size Not less than 90% larger than 1/8" and not more than 10% than 3/8". Hole Size

Casing Size 16" Wall Thickness .406

PERFORATIONS See attached Stainless Steel Screen Log.

LOG—

FROM	TO	
0	7	Top soil
7	78	Brown clay and caliche
78	180	Fine sand
180	213	Coarse clean sand
213	222	Hard red clay
222	234	Soft sandy clay , sand rock, fine sand
234	240	Streaks of clay and fine sand
240	270	Clay
270	278	Coarse red sand
278	292	Soft clay
292	317	Coarse red sand
317	350	Medium to fine red sand
350	390	Coarse and loose red sand
390	413	Soft clay
413	419	Coarse sand

G. P. M. 600 At Draw Down 54 ft.

Pump Setting 340 Suction 10

REMARKS:

W. D. JONES DRILLING CONTRACTOR

WELL RECORD

NAME City of Perryton #6 con't

Address

Miles from nearest town

Location on Place

Sec. No. Blk. No. Survey County

Date Drilled Depth of Well Gravel Size Hole Size

Casing Size Wall Thickness

PERFORATIONS

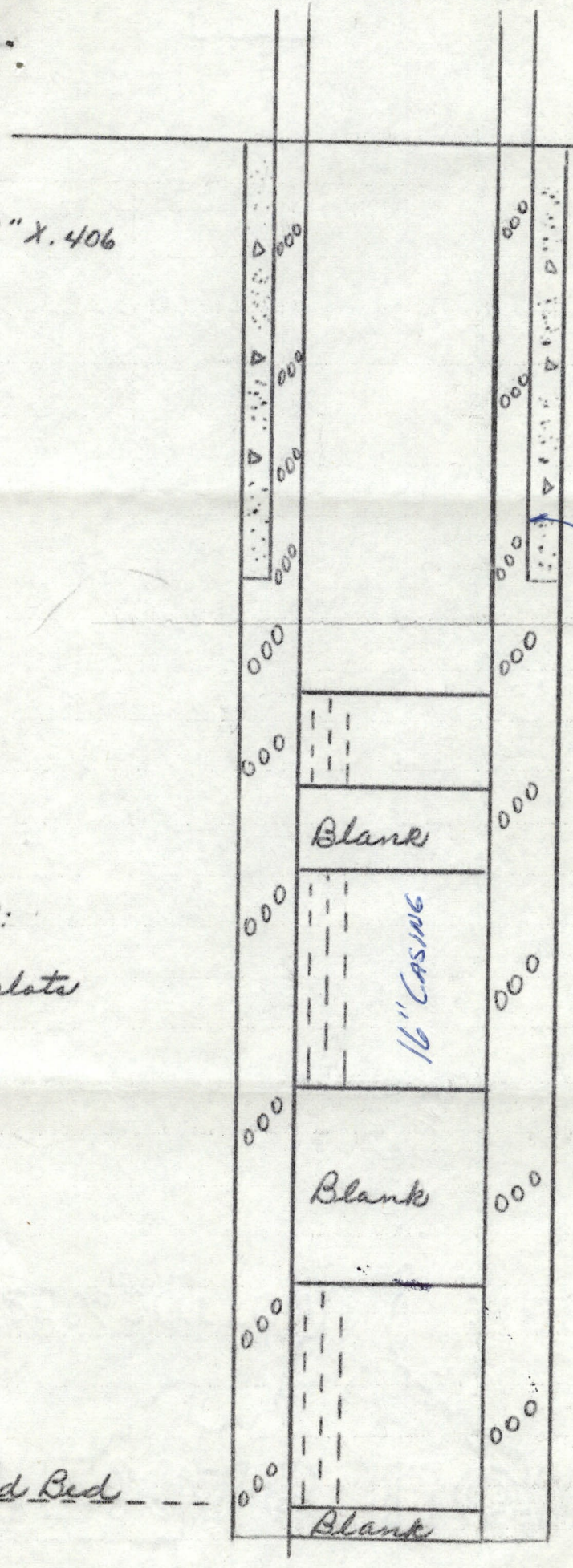
LOG—

FROM	TO	
419	428	Soft clay
428	438	Coarse sand
438	494	Brown shale
494	499	Loose coarse sand
499	511	Coarse sand but not loose
511	512	Hard lime shell
512	513	Coarse sand
513	515	Hard lime shell
515	550	Coarse sand
550	586	Very coarse sand
586	596	Red bed

G. P. M. At Draw Down

Pump Setting Suction

REMARKS:



? 26" to surface

STATE OF TEXAS WELL REPORT for Tracking #187261

Owner:	**GREG CAMPBELL**	Owner Well #:	**OC-1353**
Address:	**310 S. BAYLOR PERRYTON, TX 79070**	Grid #:	**04-42-3**
Well Location:	**SEC 925 BLK 43 SURVEY H&TC PERRYTON, TX 79070**	Latitude:	**36° 21' 42" N**
		Longitude:	**100° 47' 29" W**
Well County:	**Ochiltree**	Elevation:	**2912 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/20/2009** Drilling End Date: **7/20/2009**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**420**

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

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**20**	**420**	**Gravel**	**# 1 FINE**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**2**	**20**	**5**

Seal Method: **Hand Mixed**

Sealed By: **LES TAYLOR DRILLING,LLC**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **302 ft.** below land surface on **2009-07-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Bailer** **Yield: 30+ GPM after 1.5 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: **LES TAYLOR DRILLING, LLC**

P.O. BOX 310
SUNRAY, TX 79086

Driller Name: **LESTER J. TAYLOR** License Number: **1849**

Apprentice Name: **RAYMOND L. TEETER** Apprentice Number: **58119**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
0	**300**	**surface caliche clay & sand**
300	**340**	**fairly loose med sand w/clay strips**
340	**380**	**fairly loose med to coarse sand w/clay strips**
380	**420**	**med to coarse sand w/clay strips(red clay)**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**N**	**STEEL**	**-2 +3**
5	**N**	**PVC**	**+3 350**
5	**N**	**PERFS**	**350 410 .050**
5	**N**	**PVC**	**410 420**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #89304

Owner:	**KEVIN WALKER**	Owner Well #:	**No Data**
Address:	**RT 2 BOX 100A BALKO, OK 73931**	Grid #:	**04-42-2**
Well Location:	**924-43-H&TC SURVEY TX**	Latitude:	**36° 21' 41" N**
		Longitude:	**100° 47' 37" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/5/2006** Drilling End Date: **7/5/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
	0	**400**

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

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
240	**400**	**Gravel**	

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
4	**25**	**7**

Seal Method: **CEMENT GROUT**

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: **Pitless Adapter Used**

Water Level: **287 ft.** below land surface on **2006-07-05** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **336**

Well Tests: **Pump** **Yield: 50 GPM with 20 ft. drawdown after 1 hours**

Water Quality:

Strata Depth (ft.)	Water Type
287	**GOOD**

Chemical Analysis Made: **No**

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

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

Company Information: **HOWARD DRILLING CO**

P.O. BOX 806
BEAVER, OK 73932

Driller Name: **PHILLIP HOWARD** License Number: **4723**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**6**	**TOPSOIL**
6	**48**	**CLAY**
48	**72**	**SANDY CLAY**
72	**83**	**CLAY**
83	**123**	**SANDSTONE & SANDY CLAY**
123	**155**	**CLAY**
155	**178**	**SANDSTONE & CLAY STREAKS**
178	**252**	**CLAY & SANDY CLAY**
252	**265**	**CLAY**
265	**310**	**SAND & CLAY STREAKS**
310	**352**	**SAND**
352	**400**	**MEDIUM SAND**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5" NEW PVC PLAIN +2-380			
5" NEW PVC PERF 380-400 .032			

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

WL-10446 w/pump

STATE OF TEXAS WELL REPORT for Tracking #505807

Owner:	**Jason C & Amber Schickedanz**	Owner Well #:	**IRR 1-19**
Address:	**PO Box 3** **Perryton, TX 79070**	Grid #:	**04-42-3**
		Latitude:	**36° 21' 37.3" N**
Well Location:	**Sec 927, BLK 43, H & TC** **Perryton, TX**	Longitude:	**100° 45' 47.09" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

7/13/19

Drilling Start Date: **2/27/2019** Drilling End Date: **2/27/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**24.5**	**0**	**561**

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**15**	**561**	**Gravel**	**Huber 90f/10c**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**-1**	**15**	**Cement**

Seal Method: **Gravity**

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 Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	Strata Depth (ft.)	Water Type
Water Quality:	282 - 561	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: **Hydro Resources Mid Continent Inc.**

PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	53	surface topsoil brown clay w/sandy clay strips
53	80	caliche w/rock & clay strips
80	180	sand w/clay strips
180	220	fine tight sand w/little clay mix
220	240	fine tight sand w/clay mix to brown sandy clay
240	320	brown sandy clay & clay
320	420	fine sand w/some clay mix
420	480	fine firty sand w/clay mix & sandy clay strips
480	550	fine red dirty sand w/clay mix
550	561	red clay

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16	Blank	New Steel	0.25	-2	277
16	Perforated or Slotted	New Steel	0.1	277	552
16	Blank	New Steel	0.25	552	561

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

RETURN TO DISTRICT BY 8/13/19

NORTH PLAINS GROUNDWATER Conservation District

Certified Pump Report

Landowner Name: JASON & AMBER SCHICKEDANZ

District Permit Number: OC-10946
Consists of Two County Letters – Four Numbers (Example DA-1234)

Location of Well:			
OCHILTREE	927	43	H&TC
County	**Section**	**Block**	**Survey**

-100.763050	36.360340
Longitude (decimal degrees)	**Latitude (decimal degrees)**

Pump Column Size: 8 inches

Total Pump Column Length: 430 feet

Pump Bowl Size: 11 CHC

Number of Stages: 7

Discharge Pipe Size: 8

Depth to Static Water Level: 278 feet

Pump Discharge: 800 GPM

Pumping Water Level: 322 feet

Power: _____

Horsepower: 124

I hereby certify that this pump was installed by me (or under my supervision), and that each statement herein is true to the best of my knowledge and belief. I understand that all records of this well must be given to the District within 30 days after expiration of the Well permit. Water shall not be produced from this well until the District receives these records in accordance with Rule 2.16

Pump Installers Signature: Mike Thelander

Pump Installers Name: Mike Thelander

Pump Installers License Number: 4934

CC

NORTH PLAINS GROUNDWATER

P.O. Box 795
603 East First Street
Dumas, Tx 79029
Phone: 806-935-6401
Fax: 806-935-6633

Water Well Construction Permit

VALID FOR 150 DAYS AFTER THE APPROVAL DATE
NO EXPIRATION NOTICE WILL BE PROVIDED

For District Use Only	
Permit Number:	OC-10946
Application Date:	02/08/2019
Expiration Date:	7/13/19
Well Class:	D
Purpose:	Irrigation

Owner/Company

Name:	JASON C & AMBER SCHICKEDANZ
Address:	PO BOX 3
City/State/Zip:	PERRYTON, TX 79070
Phone:	(806) 648-1481

Applicant

Name:	JASON C & AMBER SCHICKEDANZ
Address:	PO BOX 3
City/State/Zip:	PERRYTON, TX 79070
Phone:	(806) 648-1481

Permit Location

Property ID: 8065

Driller: HYDRO RESOURCES (TX) #2366 07/02/19

County:	OCHILTREE	**Longitude:**	-100.763050	**Latitude:**	36.360340
Section:	927	**Block:**	43	**Survey:**	H&TC
Quarter:	NW/4	**Yards N/S:**	224 N	**Yards E/W:**	225 W

Property Line Easement: No

Well Status: Permit

Replacement Well:

Status Of Well Being Replaced:

I do hereby certify that I am the Groundwater Production Unit Owner or authorized by the Groundwater Production Unit Owner to file this Permit application. I affirm that the forgoing information in this application is true and correct. I agree, for the Well constructed hereunder, to provide the District all driller's logs and well reports as required by the District Rules within 30 days after the expiration of the Well Permit. I agree that a water well flow meter must be installed to measure Groundwater water production from the well before the well can be operated. I understand that the well must be operated and maintained in accordance with the District's rules, including District Rule 5.1.4.A. which requires every Well on the Groundwater Production Unit to have a flow meter installed 365 days after the approval of this permit. Provided, however, on Groundwater Production Units of 640 acres or less, under District Rule 5.1.4.B, groundwater production may be metered at the Well, or at a Central Collection Point

Applicant Signature: [signature] **Date:** 2/8/19

Approved By: [signature] **Date:** 2-13-18

Approved By: Kristen L. Blackwell **Date:** 02/13/2019

GROUNDWATER PRODUCTION UNIT REQUIREMENTS BASED ON PERMITTING NEW WELL

OC-10946

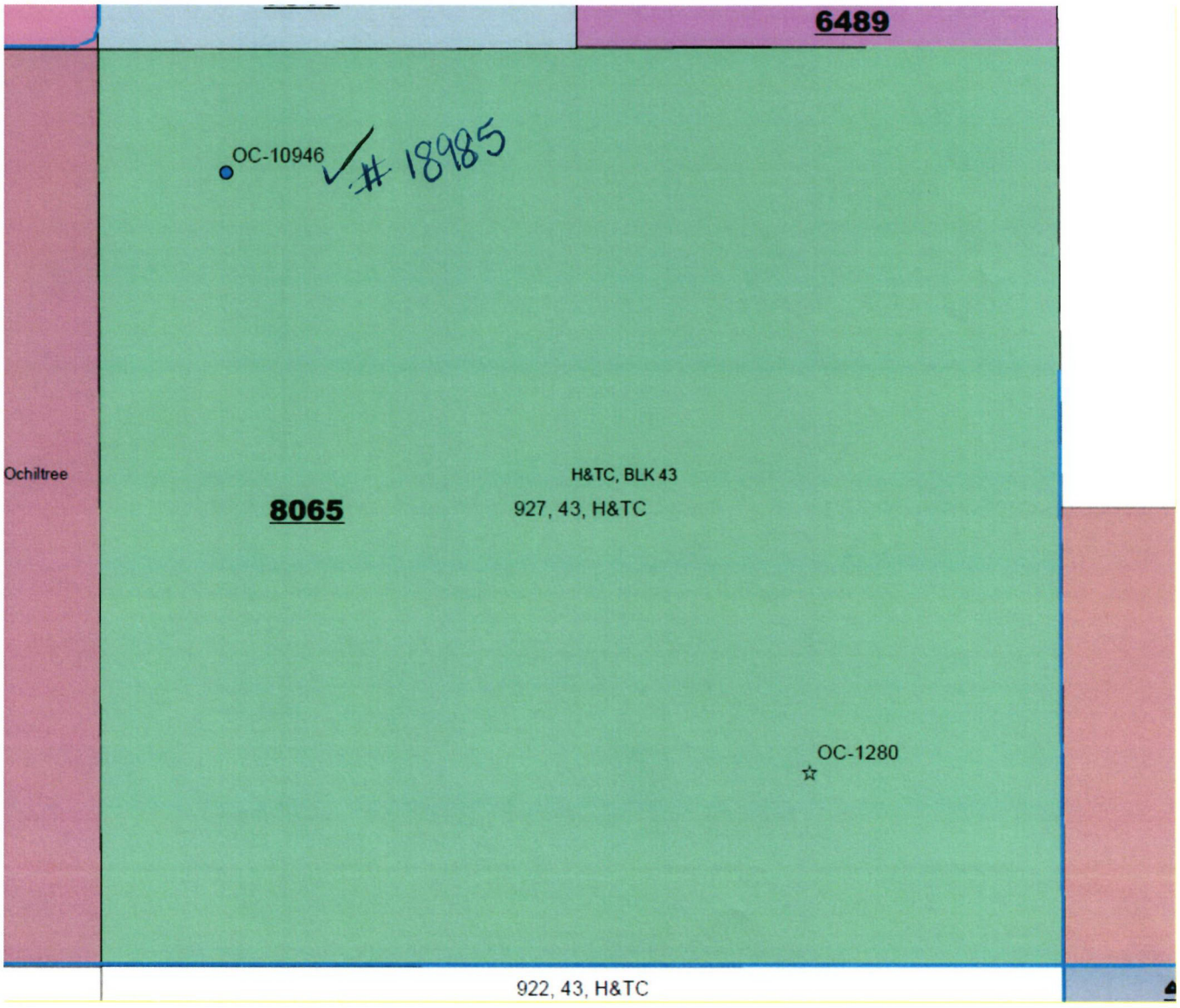
All non-exempt wells in **GPU 8065** must have a District approved flow meter installed at the well and the GPU be in full compliance with District Rules no later than **2/13/2020**

Wells labeled with:

1. a colored dot must have a flow meter installed at the well before any outlets, proper check valve and functioning low pressure drain including Auxiliary wells denoted by a yellow circle with a red cross.
2. a diamond must be properly capped and the district informed prior to being returned to production including exempt wells
3. a star must not exceed 17.5 GPM and be used for domestic or livestock use
4. a shield must be properly plugged in accordance with TDLR regulations

Blue dot represents newly permitted well(s) which must be drilled within 10 yards of the permitted location AND be in compliance with all district rules.

If your GPU is a single unit **and** you do not own or lease any surrounding land, you may contact the District about metering existing wells at the pivot. **It is your responsibility to contact the District to file the appropriate paperwork**.



Board Ready 4/13
5/13/20

Pre-Drilling Well Inspection

USE RANGE FINDER WHEN POSSIBLE

Date: 2.12.2019 Inspected By: Chris

PERMITTED INFORMATION Well #: OC-10946 Longitude: -100.763050

Well Class: D Quarter: NW Latitude: 36.360340

Section: 927 Block: 43 Survey: H&TC

☐ Property Line Easement on File **GPU ID #** 8065

Property Description SEC 927 ALL

Notes RANDY TAYLOR 922-5230

INSPECTION INFORMATION

Longitude: -100.763057 Latitude: 36.360322

Proposed Well Site is 224 **Yards** from the North Fence

Measuring Method: Range Finder

Proposed Well Site is 225 **Yards** from the West Property Line

Measuring Method: Range Finder

Wells Located 550 Yards or Less

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

Well #: ☐ Proper Check Valve ☐ Capped Correctly

Longitude: Latitude:

Distance: Measuring Method:

GPU # 8065

Inspected by: Chris

Date Inspected 2.12.2019

Reason for Inspection PREODRILL OC-10946

Well Number	Well or Meter Longitude	Well or Meter Latitude	Meter Brand	Meter Serial Number	Meter Multiplier Factor	Gallons, Acre-ft, Acre-inch	Meter Totalizer Reading	Notes Comments or Observations	Out of Compliance? Yes/No
OC-10946	-100.763057	36.360322						predrill	no
OC-1280	-100.751752	36.350768						livestock	no

NORTH PLAINS
GROUNDWATER
Conservation District

P.O. Box 795
603 East First Street
Dumas, Tx 79029
Phone: 806-935-6401
Fa: 806-935-6633

Post-Drill Inspection

WELL NUMBER: OC-10946 **WELL CLASS** D **GPU:** 8065

Inspected By: chanes@northplainsgcd.org

Well Construction Complete: Yes

Well Location Matches Permit Location: Yes

Well Has Proper Check Valve: Yes

Meter Installed to OEM Specs: Yes

Meter Has Resettable Totalizer: Yes

Meter Serial Number: GT18083148

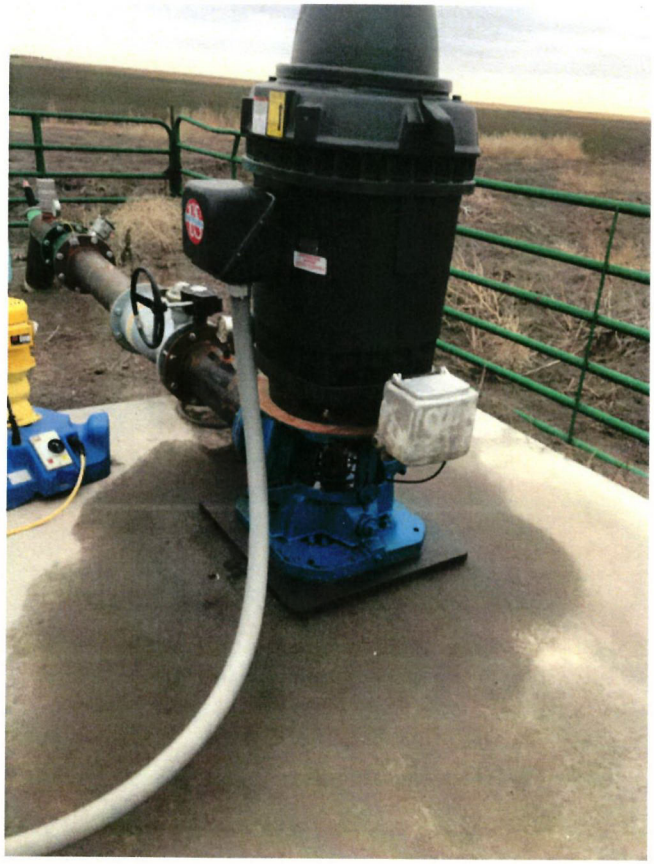
Meter Multiplier: 1000

Totalizer is Sufficient for Year: Yes

Meter Appears Functional: Yes

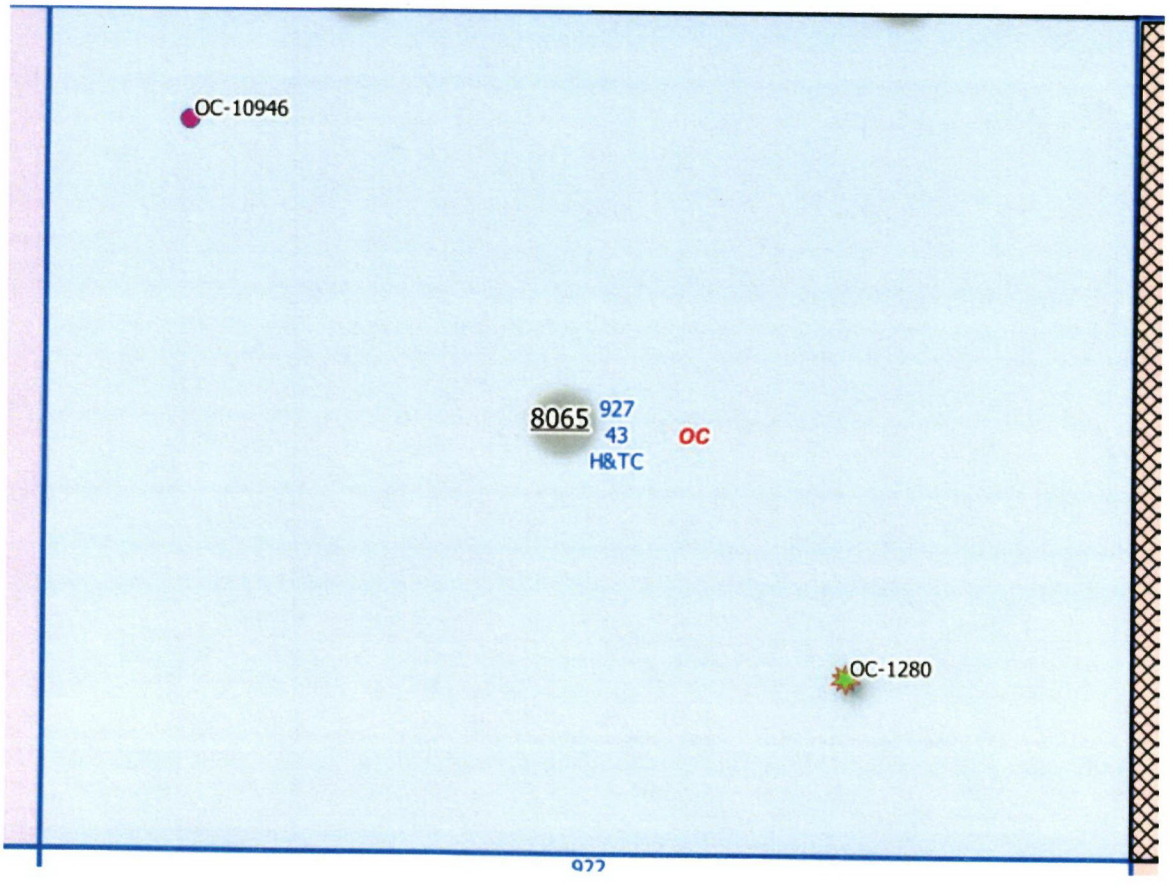
Meter Units: Gallons

Meter Brand: GrowSmart








OC-10946
8065
927
43
H&TC
OC
OC-1280

5

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Dwayne Sager do hereby certify that Well No. _____ located in DeWitt County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of ~~Ø~~ GPM, and meets the spacing requirements of ~~Ø~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

OC-1078, OC-1075, OC-1076, OC-1077, + OC-1081

Dwayne Sager
Signature (Owner/Agent)

6-20-06
Date

(6)

North Plains Ground Water Conservation District No. Two

Well Reclassification

Request for Reclassification of Well No. OC-1081

Current size or classification (as per permit or log) B .
Requested new classification domestic .

I, BlueTex, L.C. does hereby certify that well no. OC-1081, located in Ochiltree County, in the SW. 1/4 of Section 1010, Block 43, H&T.C. Survey, will not be operated to exceed the actual pumping capacity of 25 gallons per minute and meets the spacing requirements of 0 yards from the nearest existing well or authorized well site and other rules of the District for a dom. Classification well.

Date Aug. 14, 1996.

Signature of owner or agent.

08/14/96 04:13 ☎ 806 659 3165 NORTH PLAINS GCD P.02

Domestic

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1081
Date Received 9/9/96
Size of Well DOM in. Maximum Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 582 measured yards from N or S section line. / 280 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top Soil			
4	56	Sandy Clay / Caliche			
56	62	Caliche			
62	85	Sandy Clay			
85	97	Sand			
97	110	Sandy Clay			
110	162	Sandy Clay / Caliche			
162	200	Sand / Caliche			
200	220	Caliche			
220	257	Sand & Gravel			
257	263	Clay			
263	273	Sand			
273	277	Sand / Clay			
277	280	Clay			
280	293	Sand			
293	301	Sand / Clay Streaks			
301	310	Clay			
310	353	Fine Sand			
353	360	Red Clay / Sandy Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver, OK 73932 Date Drilled 8-6 19 96

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 360 ft.

7. Casing perforations: from 240 ft to 360 ft. Size .032 x 2½ Number per foot 230.

8. Pump Column: Size _____ in. Total length _____ ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 200 ft. Pump discharge 50 GPM. Pumping level: 336 ft.

11. Power Unit: Electrical, Natural Gas, Butane, Other _____. Horsepower _____.

Signature Alva Howard (OWNER OR AGENT) Driller & Partner (TITLE) Box 806 Beaver, OK 73932 (ADDRESS)

Final Completion of Well — Date 8-6, 19 96.

(5)

Reclassified

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1081
TIME: 5:30 P.M
DATE APPLICATION FILLED OUT Aug 13, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander Tx. 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

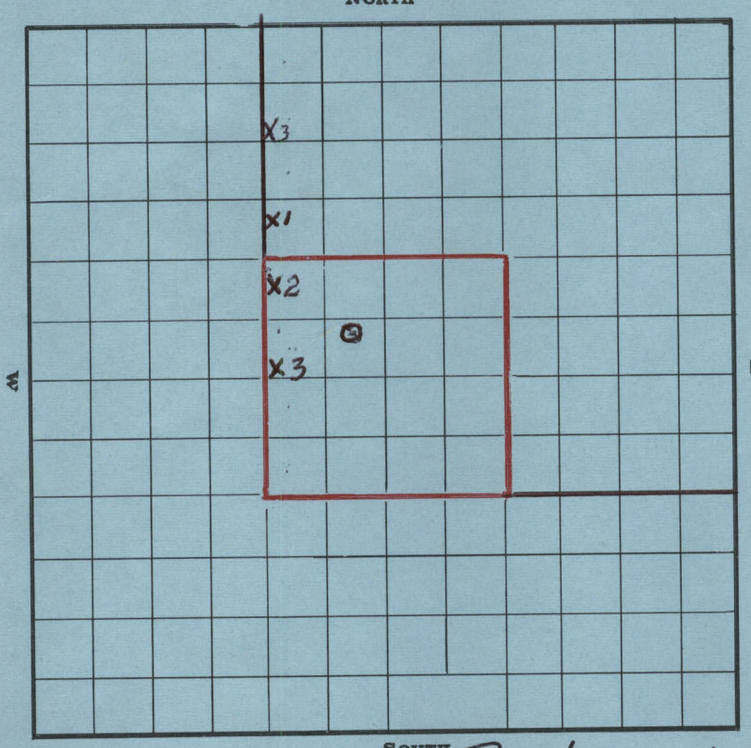
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43
   Survey H.+T.C.
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about _____, 19__
6. Drillers name Howard Drilling

This well will be 1.5 miles ~~E~~ or S and 2 miles ~~E~~ or W of the town of Perryton, Tx
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within **Red Square** for proposed well location. (Red square indicates 1 quarter section
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure
Your Measurements are Correct—
They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
582 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
280 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 472 measured yards from proposed well.
Owned by BlueTex, L.C
Address _____

Well 2 291 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 3 374 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

COMMENT Reclassified to domestic

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Phillip Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 806 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

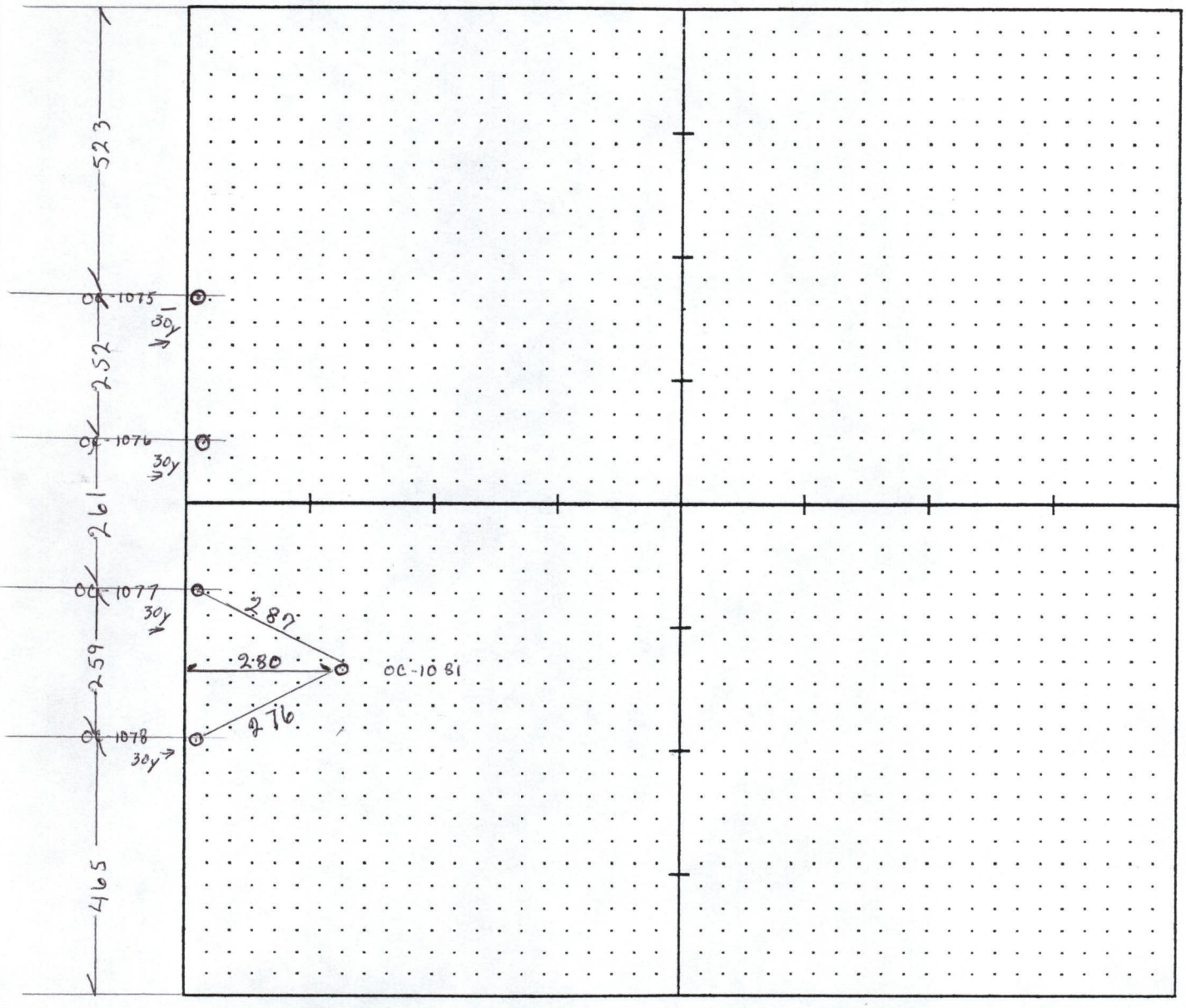
1. _____ 2. Dean Leghorn 3. David Rector

Well Spacing Chart

B-Wells

Blue-Tex
Proposed Wells
Och. Co.

Each Dot = 40 Yds. **Each Tic Mark =220 Yds.**



Each Dot = 40 Yds. **Each Tic Mark =220 Yds.**

Well to be Drilled Classification	Existing Well or Permit Classification	Spacing Distance Between Wells
Domestic	Domestic	None
Domestic	A	75 Yds.
Domestic	B	125 Yds.
Domestic	C	200 Yds.
Domestic	D	250 Yds.
A	A or Smaller	150 Yds.
A	B	200 Yds.
A	C	225 Yds.
A	D	325 Yds.

Well to be Drilled Classification	Existing Well or Permit Classification	Spacing Distance Between Wells
B	B or Smaller	250 Yds.
B	C	325 Yds.
B	D	375 Yds.
C	C or Smaller	400 Yds.
C	D	450 Yds.
D	D or Smaller	500 Yds.

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) b

Requested new classification Unused

I Dwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, + OC-181 located in Dallam County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of Ø GPM, and meets the spacing requirements of Ø yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Dwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

FOR USE OF COMMITTEEMEN
Field Well No. OC-1077
Date Received 9/9/96
Size of Well B in. Maximum Yield _____ GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 724 measured yards from N or S section line. / 30 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Top Soil			
3	63	Sandy Clay / Caliche			
63	82	Sand			
82	125	Sand / Caliche			
125	190	Sandy Clay			
190	240	Fine Sand / Caliche			
240	282	Sand / Clay Streaks			
282	285	Clay / Sand Streaks			
285	297	Sand			
297	304	Clay			
304	321	Fine Sand			
321	340	Clay / Sand Streaks			
340	387	Sand			
387	400	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver, Ok 73932 Date Drilled 7-29 19 96

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 400 ft.

7. Casing perforations: from 280 ft to 400 ft. Size .032 x 2½. Number per foot 230.

8. Pump Column: Size 2½ in. Total length 367 ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 200 ft. Pump discharge 100 GPM. Pumping level: 367 ft.

11. Power Unit: (Electrical); Natural Gas, Butane, Other _____. Horsepower 20

Signature Alva Howard OWNER OR AGENT Driller & Partner TITLE Box 806 Beaver, OK 73932 ADDRESS

Final Completion of Well — Date 7-29, 19 96.

Refunded 3-21-97 ck. #1296

(3)

Dist. 2--Form No. 659 AWWP

District File No. _____
USE OF DISTRICT OFFICE ONLY

Original—District Office Copy

FIELD WELL NO. OC-1077
TIME: 11:15 A.M.
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL 8 MAXIMUM YIELD <400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander TX. 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

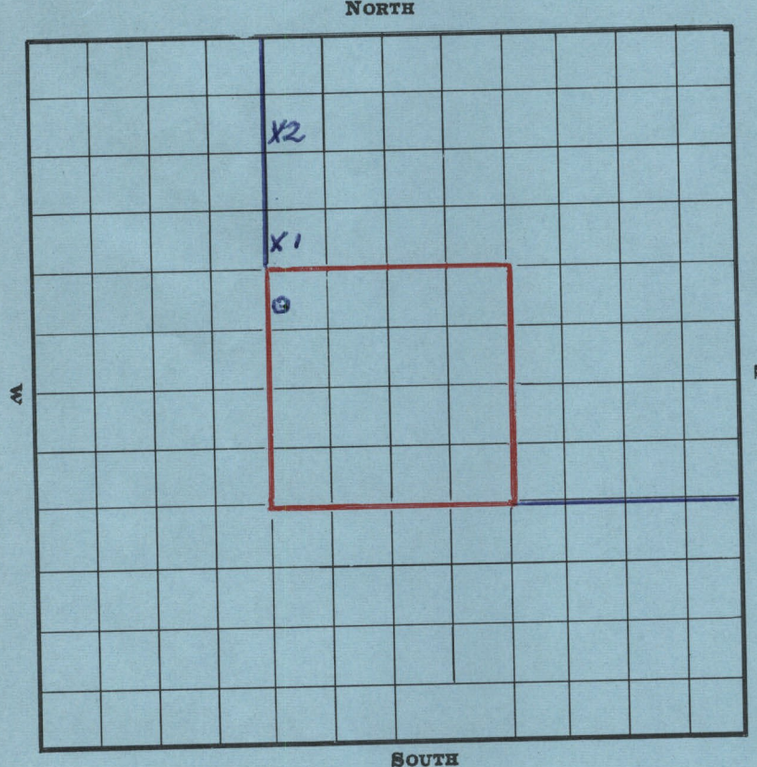
1. County Oldham
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43
   Survey H+T.C.
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 2 miles ~~N~~ or S and 2
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of PERRYTON, TX
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within **Red Square** for proposed well location. (Red square indicates 1 quarter section
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

724 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY

30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 257 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 2 510 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 3 _____ measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Phillip Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 806 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. _____ 2. Dean Leighton 3. Dennis Kruse

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Duwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, + OC-181 located in DeWitt County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of ~~Ø~~ GPM, and meets the spacing requirements of ~~Ø~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Duwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1076
Date Received 9/9/96
Size of Well B in. Maximum Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431
2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton
3. County Ochiltree League _____
4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC
5. ACTUAL LOCATION OF THIS WELL IS { 775 measured yards from N or S section line. / 30 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Topsoil			
3	61	Sandy Clay / Caliche			
61	70	Caliche			
70	80	Sandy Clay / Sand			
80	130	Fine Sand / Sandy Clay			
130	168	Sand			
168	231	Sandy Clay			
231	265	Sand			
265	285	Sandy Clay			
285	292	Clay			
292	300	Sand			
300	308	Clay			
308	345	Sandy Clay			
345	390	Sand / Fine Sand			
390	400	RED Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver, Ok. 73932 Date Drilled 7-28-96 19__

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 400 ft.
7. Casing perforations: from 260 ft to 400 ft. Size .032 x 2½. Number per foot 230.
8. Pump Column: Size 2½ in. Total length 367 ft. Suction pipe: Size _____ in. Length _____ ft.
9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.
10. Depth to water level 195 ft. Pump discharge 100 GPM. Pumping level: 367 ft.
11. Power Unit: (Electrical), Natural Gas, Butane, Other _____. Horsepower 15

Signature Alva Howard (OWNER OR AGENT) Driller & Partner (TITLE) Box 806 Beaver, OK 73932 (ADDRESS)

Final Completion of Well — Date 7-28, 19 96.

Refunded 3-21-97 ck. #1296

(2)

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1076
TIME: 11:15 AM
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander TX 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

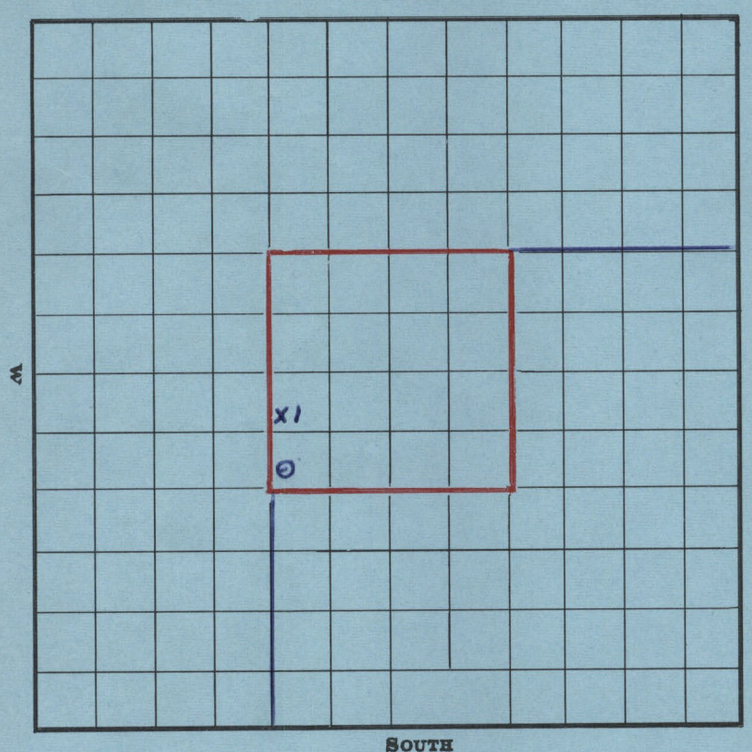
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43 Survey H+TC
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 2 miles ~~N~~ or S and 2 miles E or W of the town of PERRYTON, TX
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
775 measured yards from (N ~~S~~) section line and
MARK OUT ONE THAT DOES NOT APPLY
30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 253 measured yards from proposed well.
Owned by BlueTex L.C
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: R. Shelby Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 806 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. [signature] 2. Dean Leighton 3. [signature]

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Dwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, + OC-181 located in Dekiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H+TC will not be operated to exceed the actual pumping capacity of Ø GPM, and meets the spacing requirements of Ø yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Dwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy

District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1075
Date Received 9/9/96
Size of Well B Maximum in. Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 523 measured yards from (N) or S section line. / 30 measured yards from E or (W) section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	3	Topsoil	392	403	Fine Sand
3	41	Caliche / Sandy Clay	403	420	Red Clay / Sandy Clay
41	62	Caliche Clay / Sandy Clay			
62	65	Caliche Rock			
65	140	Sand / Clay			
140	158	Clay			
158	179	Sandy Clay			
179	219	Sand			
219	230	Caliche			
230	262	Sand			
262	270	Clay			
270	283	Sand			
283	290	Clay			
290	295	Sand			
295	300	Clay			
300	315	Sand			
315	323	Clay			
323	340	Sandy Clay			
340	385	Sand			
385	392	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806, Beaver, OK. 73932 Date Drilled 07-27-96 19 __

DESCRIPTION OF WELL

6. Casing: (new) used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 420 ft.

7. Casing perforations: from 260 ft to 420 ft. Size .032 x 2½. Number per foot 230.

8. Pump Column: Size 2 in. Total length 378 ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 195 ft. Pump discharge 100 GPM. Pumping level: 388 ft.

11. Power Unit: (Electrical) Natural Gas, Butane, Other _____. Horsepower 10

Signature Alva Howard Driller & Partner Box 806 Beaver 73932
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date 07-27, 19 96.

Refunded 3-21-97 ck. #1296

(1)

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. QC-1075
TIME: 11:A.M.
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL B MAXIMUM YIELD K400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. 16812 F.M. 1431 Leander TX. 78641
NAME OF LANDOWNER — LANDOWNER'S ADDRESS

hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

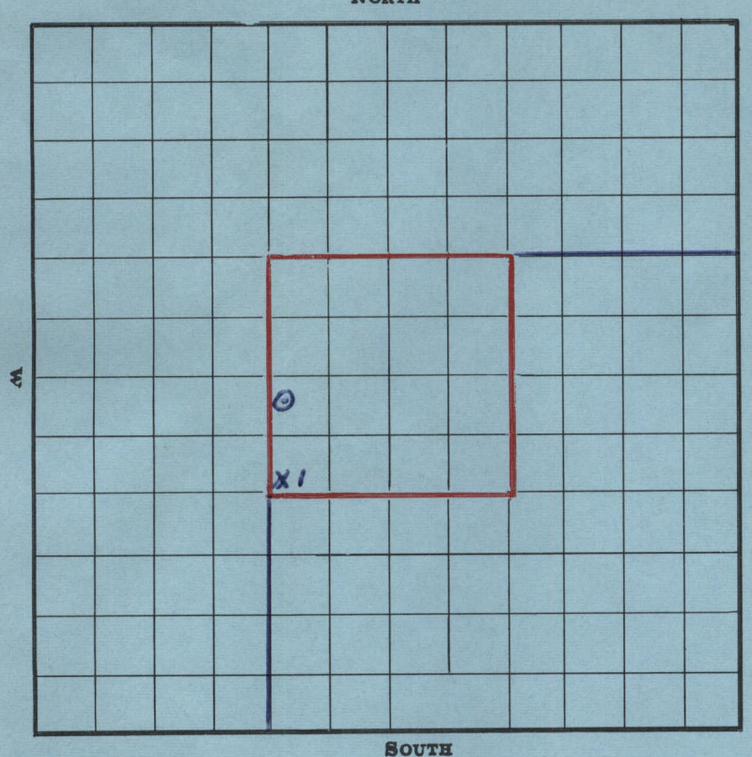
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43
   Survey H+TC
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~)
   MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 1.5 miles ~~N~~ or S and 2
MARK OUT ONE THAT DOES NOT APPLY
miles E or ~~W~~ of the town of PERRYTON, TX
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is

523 measured yards from (N ~~S~~) section line and
MARK OUT ONE THAT DOES NOT APPLY

30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 252 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 2 _____ measured yards from proposed well.
Owned by _____
Address _____

Well 3 measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHEP COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: Riggs Howard Agent Box 606
SIGNATURE (OWNER OR AGENT) — TITLE — ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. [signature] 2. [signature] 3. [signature]

4

North Plains Groundwater Conservation District

PO Box 795
Dumas, TX 79029
(806) 935-6401

Well Reclassification

Current size or classification (as per permit or log) 5

Requested new classification Unused

I Duwayne Sager do hereby certify that Well No. OC-1078, OC-1075, OC-1076, OC-1077, & OC-181 located in Dehiltree County, on the NW ¼, NE ¼, SW ¼, SE ¼ of Section 1010, Block 43, Survey H&TC will not be operated to exceed the actual pumping capacity of ~~Ø~~ GPM, and meets the spacing requirements of ~~Ø~~ yards from the nearest existing well or authorized well site and other rules of the District for a Unused Classification Well.

Duwayne Sager
Signature (Owner/Agent)

6-20-06
Date

Dist. 2—Form No. 659 RLW

Original—District Office Copy District File No. _____

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2
REGISTRATION AND LOG OF WELL

INSTRUCTIONS: Fill out in quadruplicate. Submit all copies to County Committeeman for registration. (Please type or print.)

FOR USE OF COMMITTEEMEN
Field Well No. OC-1088
Date Received 9/9/96
Size of Well B in. Maximum Yield _____ GPM

1. Well Owner Blue Tex Tannery Address 16812 F.M. 1431

2. Well located _____ miles N, 1 miles S, 1 miles E, _____ miles W of the town of Perryton

3. County Ochiltree League _____

4. NW¼ NE¼ SW¼ SE¼ (CIRCLE ONE) Section 1010 Block 43 Survey H&TC

5. ACTUAL LOCATION OF THIS WELL IS { 465 measured yards from N or S section line. / 30 measured yards from E or W section line.

DRILLER'S LOG OF WELL

Method of Drilling: Mud Rotary

FROM (FEET)	TO (FEET)	DESCRIPTON OF FORMATION MATERIAL	FROM (FEET)	TO (FEET)	DESCRIPTION OF FORMATION MATERIAL
0	4	Top Soil			
4	62	Sandy Clay / Caliche			
62	85	Sandy Clay			
85	90	Sand			
90	105	Sandy Clay			
105	150	Sandy Clay / Caliche			
150	162	Sandy Clay			
162	201	Sand / Caliche			
201	220	Caliche			
220	240	Fine Sand			
240	260	Clay			
260	275	Fine Sand			
275	280	Clay			
280	290	Sand			
290	301	Clay			
301	330	Sandy Clay			
330	360	Fine Sand			
360	370	Red Sandy Clay			
370	380	Red Clay			

I hereby certify that this well was drilled by me (or under my supervision), and that each and all of the statements herein are true to the best of my knowledge and belief.

Driller Alva Howard Address Box 806 Beaver OK 73932 Date Drilled 8-5 19 96

DESCRIPTION OF WELL

6. Casing: new, used, or shop made. Diameter SDR 21 6" .320 Wall Thickness in. Total length 380 ft.

7. Casing perforations: from 280 ft to 380 ft. Size .032 x 2½. Number per foot 230.

8. Pump Column: Size 2½ in. Total length 357 ft. Suction pipe: Size _____ in. Length _____ ft.

9. Pump bowls: Size _____. Number of stages _____. Pump discharge pipe: Size _____ in.

10. Depth to water level 200 ft. Pump discharge 100 GPM. Pumping level: 357 ft.

11. Power Unit: (Electrical), Natural Gas, Butane, Other _____. Horsepower 15

Signature Alva Howard Driller & Partner Box 806 Beaver, OK 73932
OWNER OR AGENT TITLE ADDRESS

Final Completion of Well — Date 8-5, 19 96

Refunded 3-21-97 M. #1296

(4)

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____
USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1078
TIME: 11:15 A.M
DATE APPLICATION FILLED OUT July 29, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 F.M. 1431 Leander Tx. 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

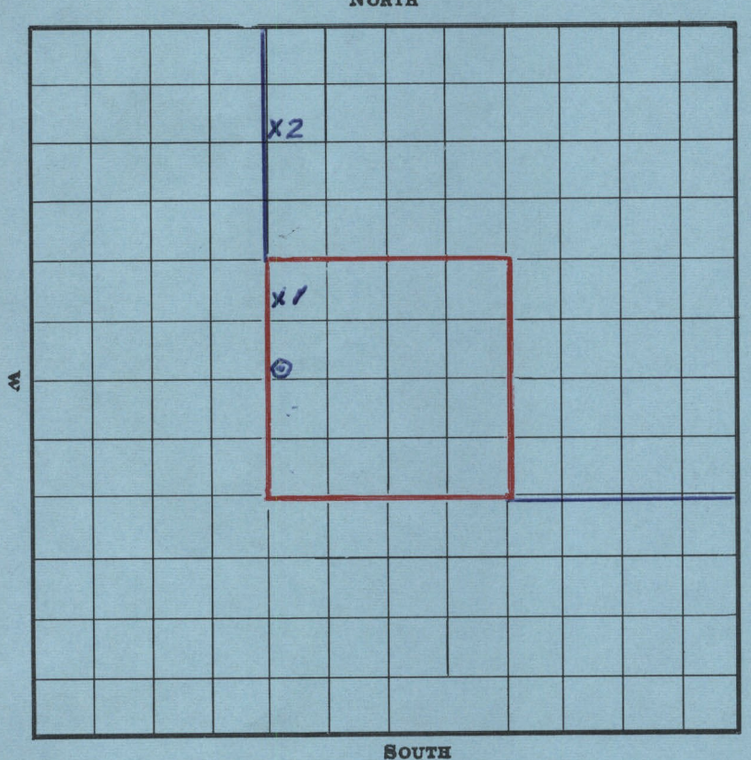
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43 Survey H+TC
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-~~Industrial~~-Irrigation) MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about July 31, 1996
6. Drillers name Howard Drilling

This well will be 1.75 miles N or ~~S~~ and 2 miles ~~E~~ or W of the town of Pearyton, Tx
MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct— They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
465 measured yards from (~~N~~ S) section line and
MARK OUT ONE THAT DOES NOT APPLY
30 measured yards from (~~E~~ W) section line.
MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 259 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 2 516 measured yards from proposed well.
Owned by BlueTex, L.C.
Address _____

Well 3 _____ measured yards from proposed well.
Owned by _____
Address _____

COMMENT _____

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: R. Culley Howard (SIGNATURE (OWNER OR AGENT)) Agent (TITLE) Box 406 (ADDRESS)

Approved subject to spacing rules from existing wells or prior permits.

1. [signature] 2. Dean Leaghnor 3. [signature]

(6)

Residential Well

Dist. 2—Form No. 659 AWWP

Original—District Office Copy

District File No. _____ USE OF DISTRICT OFFICE ONLY

FIELD WELL NO. OC-1082
TIME: 9:15 A.M.
DATE APPLICATION FILLED OUT Aug 14, 1996
SIZE OF WELL B MAXIMUM YIELD < 400 GPM

NORTH PLAINS WATER CONSERVATION DISTRICT No. 2

Application for Water Well Permit

INSTRUCTIONS: Fill out in quadruplet. Submit all copies to County Committee for approval. (PLEASE TYPE or PRINT.)

I, BlueTex, L.C. (NAME OF LANDOWNER) 16812 FM 1413 Leander TX 78641 (LANDOWNER'S ADDRESS)
hereby make application to NORTH PLAINS WATER CONSERVATION DISTRICT No. 2 for a permit to drill the hereinafter described water well at the location indicated:

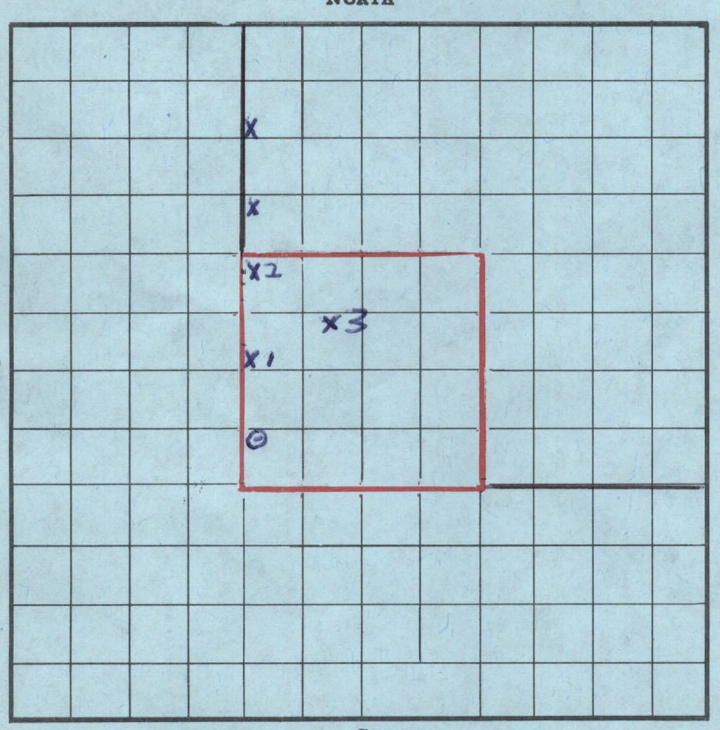
1. County Ochiltree
2. NW¼, NE¼, SW¼, SE¼ of Section 1010 Block 43 Survey H+T.C.
3. League _____

Permit good for 120 days only

4. Proposed Use (~~Municipal~~-Industrial-~~Irrigation~~) MARK OUT ONES THAT DO NOT APPLY
5. Drilling to start about Aug 14, 1996
6. Drillers name Howard Drilling

This well will be 1.5 miles ~~N~~ or S and 2 miles E or ~~W~~ of the town of Perryton, Tx. MARK OUT ONE THAT DOES NOT APPLY

MARK DOT INSIDE CIRCLE ⊙ within Red Square for proposed well location. (Red square indicates 1 quarter section)
MARK X, showing 3 closest wells, and/or applications.



Please Make Sure Your Measurements are Correct—They Will Be Checked for Accuracy

Location of Proposed Well as submitted by applicant is
173 measured yards from (~~N~~ S) section line and MARK OUT ONE THAT DOES NOT APPLY
30 measured yards from (~~E~~ W) section line. MARK OUT ONE THAT DOES NOT APPLY

Number the three adjacent wells within ½ mile and/or applications, on the plat as 1, 2 and 3, to correspond with the following:

Well 1 750 measured yards from proposed well.
Owned by BlueTex, L.C
Address _____

Well 2 541 measured yards from proposed well.
Owned by BlueTex L.C.
Address _____

Well 3 711 measured yards from proposed well.
Owned by BlueTex, LC
Address _____

COMMENT X3(1081) is Reclassified to Domestic

FOR FURTHER COMMENT USE BACK OF FORM

I hereby certify that I have read the foregoing statement, and that each and all of the items therein contained are true to the best of my knowledge and belief, and I agree that I must furnish my County Committeeman, as required by law, the completed well registration and log immediately upon completion of this well and prior to the production of water.

This notice given by: _____ SIGNATURE (OWNER OR AGENT) TITLE ADDRESS

Approved subject to spacing rules from existing wells or prior permits.

1. Dean Leighton 2. Rocky Trevilles 3. Donald D. Krueger

STATE OF TEXAS WELL REPORT for Tracking #502986

Owner:	**Jason Schickedanz**	Owner Well #:	**TH 11-19**
Address:	**PO Box 3** **Perryton, TX 79070**	Grid #:	**04-42-3**
		Latitude:	**36° 21' 39.14" N**
Well Location:	**Sec 927, BLK 43, H & TC** **Perryton, TX**	Longitude:	**100° 45' 35.34" W**
Well County:	**Ochiltree**	Elevation:	**No Data**
		****Plugged Within 48 Hours****	

****This well has been plugged**** **Plugging Report Tracking #184222**

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

Drilling Start Date: **1/31/2019** Drilling End Date: **1/31/2019**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**4.5**	**0**	**700**

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

Borehole Completion: **Plugged**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**5**	**20**	**Cement 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: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Hydro Resources Mid Continent Inc.**

PO Box 784
Sunray, TX 79086

Driller Name: **Randy Taylor** License Number: **2366**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**14**	**surface top soil brown clay**
14	**200**	**sand w/sandy caly strips**
200	**220**	**fine fairly loose sand**
220	**240**	**fine fairly loose sand**
240	**260**	**fine fairly loose sand w/clay mix**
260	**280**	**fine fairly loose sand w/clay mix & clay strips**
280	**300**	**fine fairly loose sand w/little clay mix**
300	**320**	**fine fairly loose sand w/little clay mix**
320	**340**	**fine to med fine fairly loose sand**
340	**360**	**med fine fairly loose sand to fine sand w/clay mix**
360	**380**	**fine fairly loose sand w/clay mix to red sandy clay**
380	**400**	**red sandy clay w/fine red sand strips & clay mix**
400	**420**	**red sandy clay to very fine red sand w/clay mix**
420	**440**	**very fine fairly loose red sand w/clay mix**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

440	460	very fine farily loose red san w/clay mix
460	480	fine fairly loose sand to red sandy clay
480	500	red sandy clay & clay
500	520	red sandy caly & clay
520	540	red sandy caly & clay
540	560	red silty clay
560	580	red silty clay
580	600	red silty clay
600	620	red clay w/silt sand strips
620	640	red silt w/clay mix
640	660	red clay
660	680	red clay
680	700	red clay

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

DOMESTIC WORKSHEET 3.0 –
GROUNDWATER QUALITY ASSESSMENT

The City of Perryton and its waste water treatment plant falls in the area of the Ogallala Aquifer. The Ogallala Aquifer is the largest aquifer in the United States and is a major aquifer of Texas underlying much of the High Plains region. The aquifer consists of sand, gravel, clay, and silt and has a maximum thickness of 800 feet. Freshwater saturated thickness averages 95 feet. Water to the north of the Canadian River is generally fresh, with total dissolved solids typically less than 400 milligrams per liter. However, water quality diminishes to the south, where large areas contain total dissolved solids in excess of 1,000 milligrams per liter. Increased salinity may be associated with evaporative concentration of groundwater in saline playa lakes in the southern portion of the aquifer, up flow of more saline groundwater from the underlying Dockum Aquifer and other sources.

The Ogallala Aquifer provides significantly more water for users than any other aquifer in the state. The availability of this water is critical to the economy of the region, as approximately 95 percent of groundwater pumped is used for irrigated agriculture. Throughout much of the aquifer, groundwater withdrawals exceed the amount of recharge, and water levels have declined fairly consistently through time. Although water level declines in excess of 300 feet have occurred in several areas over the last 50 to 60 years, the rate of decline has slowed, and water levels have risen in a few areas.

The City of Perryton currently land applies treated domestic water from their municipal wastewater treatment plan in accordance with their current permit (WQ0010248001). The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 1.4 million gallons per day (MGD) via surface irrigation of 570 acres of non-public access agricultural land (See attachment 8 for storage pond liner certification). Application rates to the irrigated land shall not exceed 2.75 acre-feet per year per acre irrigated for up to 570 acres of non-public access agricultural land. Application rates to the irrigated land shall not exceed 4.0 acre-feet per year per acre irrigated for up to 392 acres of non-public access agricultural land (See attachments 12 and 13 for soil map and soil analysis).

Texas Water Development Board and North Plains Groundwater District were used to gather information about the wells in the surrounding area (see attachment 10 for well map and well information).

SOIL ANALYSIS REPORT

CLIENT: 41493	PKCC PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226

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1816 E. Wyatt Earp
PO Box 1397
Dodge City, KS 67801
800.557.7509
620.227.7123
Fax 620.227.2047

LAB NO:	87371 - 87373
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 1

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87371	WEST	0 - 6	8.3		0.54	Lo	2.2	5.3	10	31	665	28	50	4690	869	465					
87372	WEST	6 - 18	8.3		0.73	Hi	1.1	4.7	17	6	277	30	108	5950	847	542					
87373	WEST	18 - 30	8.6		0.57	Hi	0.9	2.4	9	14	242	26	94	7330	818	589					

METHOD USED:			TKN
Lab Number	Sample ID	Sample Depth	TKN ppm
87371	WEST	0 - 6	1225
87372	WEST	6 - 18	556
87373	WEST	18 - 30	446

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87371	WEST																
87372	WEST																
87373	WEST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
34	0	5	68	21	6
35	0	2	71	20	7
35	0	2	71	19	7

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 87371
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 87371, 87372, 87373
SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 87372, 87373
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Explanations of soil analysis terms are available upon request

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LAB NO:	87371 - 87373
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 1

Lab Number(s): 87372, 87373

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87374 - 87376
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 2

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87374	EAST	0 - 6	8.2		0.43	No	2.1	3.7	7	44	674	22	40	2610	867	455					
87375	EAST	6 - 18	8.1		0.77	Lo	1.2	5.3	19	7	321	34	122	4510	876	496					
87376	EAST	18 - 30	8.3		0.78	Hi	0.9	1.7	6	18	259	33	119	6360	770	470					

METHOD USED:			TKN
Lab Number	Sample ID	Sample Depth	TKN ppm
87374	EAST	0 - 6	1085
87375	EAST	6 - 18	651
87376	EAST	18 - 30	473

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87374	EAST																
87375	EAST																
87376	EAST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
24	0	7	54	30	8
33	0	3	69	22	7
34	0	2	73	19	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87374
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87374
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	87374 - 87376
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 2

Lab Number(s):87374

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s):87375

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s):87375, 87376

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s):87376

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	87377 - 87379
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 3

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87377	WEST	0 - 6	7.9		0.53	No	2.2	8.4	15	70	616	32	58	2480	813	426					
87378	WEST	6 - 18	8.1		0.79	Lo	1.2	8.4	30	11	297	31	112	4080	869	510					
87379	WEST	18 - 30	8.3		0.68	Hi	1.0	9.9	36	17	254	43	155	6230	834	465					

METHOD USED:			TKN
Lab Number	Sample ID	Sample Depth	TKN ppm
87377	WEST	0 - 6	1255
87378	WEST	6 - 18	646
87379	WEST	18 - 30	518

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87377	WEST																
87378	WEST																
87379	WEST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
23	0	7	55	30	8
31	0	2	67	24	7
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87377
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87377
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87377 - 87379
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 3

Lab Number(s): 87377

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87378

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87378, 87379

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 87379

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87380 - 87382
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON

FIELD IDENTIFICATION: SITE 4

METHOD USED:

Lab Number	Sample ID	Sample Depth	1:2 Soil-Water Soil pH	Buffer pH	1:2 Soil-Water Sol. Salts mmho/cm	XSL(i) Excess Lime	LOI(r) % Organic Matter	Cd Reduction Nitrate-Nitrogen ppm	Cd Reduction Nitrate-Nitrogen lb. N/A	Mehlich 3 ICP Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87380	EAST	0 - 6	8.0		0.60	No	2.4	14.2	26	58	806	33	59	2470	873	429					
87381	EAST	6 - 18	8.1		0.66	Lo	1.1	4.2	15	7	321	27	97	5160	845	381					
87382	EAST	18 - 30	8.3		0.62	Hi	0.9	2.2	8	13	252	31	112	6990	854	465					

METHOD USED:

Lab Number	Sample ID	Sample Depth	TKN ppm
87380	EAST	0 - 6	1310
87381	EAST	6 - 18	626
87382	EAST	18 - 30	469

FERTILIZER RECOMMENDATIONS:

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	POUNDS ACTUAL NUTRIENT PER ACRE N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87380	EAST																
87381	EAST																
87382	EAST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
24	0	9	52	31	8
35	0	2	72	20	5
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87380
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87380
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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SOIL ANALYSIS REPORT

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LAB NO:	87380 - 87382
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 4

Lab Number(s): 87380

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87381

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s): 87381, 87382

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	87383 - 87385
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 5

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87383	WEST	0 - 6	7.9		0.43	No	2.1	10.1	18	52	628	25	45	2620	831	396					
87384	WEST	6 - 18	8.1		0.69	Lo	1.2	10.3	37	8	309	28	101	4250	899	522					
87385	WEST	18 - 30	8.4		0.62	Hi	1.0	5.9	21	15	246	26	94	6710	836	499					

METHOD USED:			TKN																		
Lab Number	Sample ID	Sample Depth	TKN ppm																		
87383	WEST	0 - 6	1223																		
87384	WEST	6 - 18	792																		
87385	WEST	18 - 30	693																		

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
				6.0	6.5	7.0											
87383	WEST																
87384	WEST																
87385	WEST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
23	0	7	56	30	7
32	0	2	67	24	7
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s):87383
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s):87383
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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SOIL ANALYSIS REPORT

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LAB NO:	87383 - 87385
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 5

Lab Number(s):87384

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s):87384, 87385

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s):87385

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	87386 - 87388
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON

FIELD IDENTIFICATION: SITE 6

METHOD USED:

Lab Number	Sample ID	Sample Depth	1:2 Soil-Water Soil pH	Buffer pH	1:2 Soil-Water Sol. Salts mmho/cm	XSL(l) Excess Lime	LOI(r) % Organic Matter	Cd Reduction Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Mehlich 3 ICP Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
87386	EAST	0 - 6	7.9		0.44	No	2.3	9.7	17	48	533	28	50	2240	686	360					
87387	EAST	6 - 18	8.1		0.66	Lo	1.2	16.6	60	7	339	28	101	3730	875	513					
87388	EAST	18 - 30	8.4		0.58	Hi	0.9	4.3	15	11	261	32	115	6530	828	447					

METHOD USED:

Lab Number	Sample ID	Sample Depth	TKN TKN ppm
87386	EAST	0 - 6	1584
87387	EAST	6 - 18	911
87388	EAST	18 - 30	629

FERTILIZER RECOMMENDATIONS:

POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
87386	EAST																
87387	EAST																
87388	EAST																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
20	0	7	56	29	8
29	0	3	64	25	8
35	0	2	72	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 87386
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 87386
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Explanations of soil analysis terms are available upon request

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LAB NO:	87386 - 87388
INVOICE NO:	898648
DATE RECEIVED:	03/23/2023
DATE REPORTED:	04/14/2023

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD IDENTIFICATION:** SITE 6

Lab Number(s): 87386

SODIUM - WARNING (8% to 12% Na): The exchangeable soil sodium (as % Na) is high for medium-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87387

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 87388

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Lab Number(s): 87388

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted

Samples are retained 30 days after report of analysis

Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90854 - 90856
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90854	SITE 1	0 - 6	8.1		0.57	No	2.1	5.4	10	32	690	38	68	3640	1030	462					
90855	SITE 1	6 - 18	8.4		0.48	Lo	1.2	2.6	9	21	358	29	104	6120	965	517					
90856	SITE 1	18 - 30	8.4		0.73	Hi	1.1	1.5	5	25	292	47	169	6840	950	559					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90854	SITE 1	0 - 6	1174	1169
90855	SITE 1	6 - 18	612	609
90856	SITE 1	18 - 30	501	499

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90854	SITE 1																
90855	SITE 1																
90856	SITE 1																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
31	0	6	60	28	7
36	0	3	69	22	6
36	0	2	69	22	7

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90854
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90854, 90855, 90856
SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90854 - 90856
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

Lab Number(s): 90854, 90856

SODIUM - WARNING (7% to 10% Na): The exchangeable soil sodium (as % Na) is high for fine-textured soils. Typical symptoms of a sodium problem are soil sealing, crusting, and poor water penetration. Applying gypsum may be beneficial, but additional soil analysis may be required to determine the rate. If irrigated, water analysis can help identify the sodium source. Contact the laboratory for more information.

Lab Number(s): 90856

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90857 - 90859
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP											
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90857	SITE 2	0 - 6	8.2		0.33	No	2.3	6.6	12	54	693	16	29	2970	946	314					
90858	SITE 2	6 - 18	8.5		0.49	Lo	1.2	2.9	10	17	358	24	86	5750	956	452					
90859	SITE 2	18 - 30	8.5		0.72	Hi	1.0	<1.0	<4	27	266	46	166	7390	889	528					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90857	SITE 2	0 - 6	1312	1305
90858	SITE 2	6 - 18	623	620
90859	SITE 2	18 - 30	487	486

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
				6.0	6.5	7.0											
90857	SITE 2																
90858	SITE 2																
90859	SITE 2																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
26	0	7	57	30	5
36	0	3	70	22	5
35	0	2	71	21	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90857
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90857, 90858, 90859
SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90859
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

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Michele Lawson

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LAB NO:	90860 - 90862
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP											
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	Nitrate-Nitrogen lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	Sulfur lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90860	SITE 3	0 - 6	8.2		0.38	No	2.4	<1.0	<2	95	722	20	36	2990	847	345					
90861	SITE 3	6 - 18	8.5		0.58	Lo	1.2	1.1	<4	18	386	26	94	5380	1020	468					
90862	SITE 3	18 - 30	8.5		0.59	Hi	1.0	<1.0	<4	20	289	41	148	7260	988	534					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90860	SITE 3	0 - 6	1435	1434
90861	SITE 3	6 - 18	623	622
90862	SITE 3	18 - 30	488	487

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90860	SITE 3																
90861	SITE 3																
90862	SITE 3																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
25	0	7	59	28	6
37	0	3	68	23	6
36	0	2	69	23	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90860
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90860
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

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Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90860 - 90862
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

Lab Number(s): 90861, 90862

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90862

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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LAB NO:	90863 - 90865
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90863	SITE 4	0 - 6	8.1		0.32	No	2.5	1.8	3	56	704	13	23	2630	845	263					
90864	SITE 4	6 - 18	8.4		0.47	Lo	1.1	3.8	14	7	313	23	83	5490	893	436					
90865	SITE 4	18 - 30	8.5		0.62	Hi	1.1	1.2	4	18	274	44	158	7460	985	514					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90863	SITE 4	0 - 6	1444	1442
90864	SITE 4	6 - 18	625	621
90865	SITE 4	18 - 30	486	485

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90863	SITE 4																
90864	SITE 4																
90865	SITE 4																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
23	0	8	57	30	5
35	0	2	71	21	5
36	0	2	69	23	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90863
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90863
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

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Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90863 - 90865
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

Lab Number(s): 90864, 90865

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90865

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator — Michele Lawson

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SOIL ANALYSIS REPORT

CLIENT:	PKCC PAUL REYNOLDS PO BOX 778 CLARENDON, TX 79226
41493	

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1816 E. Wyatt Earp
PO Box 1397
Dodge City, KS 67801
800.557.7509
620.227.7123
Fax 620.227.2047

LAB NO:	90866 - 90868
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90866	SITE 5	0 - 6	8.2		0.31	No	2.0	1.1	<2	60	578	15	27	3020	845	301					
90867	SITE 5	6 - 18	8.5		0.66	Hi	1.0	13.2	48	16	229	38	137	7920	866	472					
90868	SITE 5	18 - 30	8.4		0.62	Lo	1.2	10.1	36	12	254	24	86	5830	846	385					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90866	SITE 5	0 - 6	1210	1209
90867	SITE 5	6 - 18	544	531
90868	SITE 5	18 - 30	697	687

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to: 6.0	6.5	7.0	N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
90866	SITE 5																
90867	SITE 5																
90868	SITE 5																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
25	0	6	61	28	5
35	0	2	72	21	6
34	0	2	73	21	5

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90866
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90866
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90867
The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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Fax 620.227.2047

LAB NO:	90866 - 90868
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** WEST

Lab Number(s): 90867, 90868

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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LAB NO:	90869 - 90871
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

METHOD USED:			1:2 Soil-Water		1:2 Soil-Water	XSL(i)	LOI(r)	Cd Reduction		Mehlich 3 ICP										
Lab Number	Sample ID	Sample Depth	Soil pH	Buffer pH	Sol. Salts mmho/cm	Excess Lime	% Organic Matter	Nitrate-Nitrogen ppm	lb. N/A	Phosphorus ppm P	Potassium ppm K	Sulfur ppm	lb. S/A	Calcium ppm Ca	Magnesium ppm Mg	Sodium ppm Na	Zinc ppm Zn	Iron ppm Fe	Manganese ppm Mn	Copper ppm Cu	Boron ppm B
90869	SITE 6	0 - 6	8.2		0.32	No	1.9	5.2	9	59	584	15	27	2640	753	314					
90870	SITE 6	6 - 18	8.4		0.56	Lo	1.3	12.6	45	9	315	28	101	5770	849	487					
90871	SITE 6	18 - 30	8.5		0.63	Hi	0.9	14.8	53	13	258	32	115	6600	808	461					

METHOD USED:			Calculated	TKN
Lab Number	Sample ID	Sample Depth	Total N ppm	TKN ppm
90869	SITE 6	0 - 6	1232	1227
90870	SITE 6	6 - 18	713	700
90871	SITE 6	18 - 30	522	507

FERTILIZER RECOMMENDATIONS: POUNDS ACTUAL NUTRIENT PER ACRE

Lab Number	Sample ID	Crop To Be Grown	Yield Goal	Lime, ECC Tons/A to raise pH to:			N	P_2O_5	K_2O	Zn	S	Mn	Cu	MgO	B	Ca	Cl
				6.0	6.5	7.0											
90869	SITE 6																
90870	SITE 6																
90871	SITE 6																

Cation Exchange Capacity

CEC	%H	%K	%Ca	%Mg	%Na
22	0	7	59	28	6
35	0	2	71	20	6
34	0	2	73	20	6

SPECIAL COMMENTS AND SUGGESTIONS:

Lab Number(s): 90869
Servi-Tech Laboratory fertilizer recommendations were not requested.

Lab Number(s): 90869
SODIUM - CAUTION (5% to 8% Na): The exchangeable soil sodium (as % Na) is moderately high for medium-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

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SOIL ANALYSIS REPORT

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LAB NO:	90869 - 90871
INVOICE NO:	906219
DATE RECEIVED:	02/28/2024
DATE REPORTED:	04/24/2024

SOIL ANALYSIS RESULTS FOR: CITY OF PERRYTON **FIELD ID:** EAST

Lab Number(s): 90870, 90871

SODIUM - CAUTION (4% to 7% Na): The exchangeable soil sodium (as % Na) is moderately high for fine-textured soils and may indicate a developing problem. If irrigated, an irrigation water analysis can help identify the sodium source. Contact the laboratory for details.

Lab Number(s): 90871

The CEC value calculated by cation summation has been adjusted to compensate for the presence of excess lime (reactive carbonates).

Analyses are representative of the samples submitted | Samples are retained 30 days after report of analysis | Explanations of soil analysis terms are available upon request

Reviewed and Approved By: Michele Lawson, Data Review Coordinator

Michele Lawson

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Lab SampleRange: 90825-90919 | **Dodge City: Soil Data Quality Control Report** | Conductivity Meter

Soil: Soluble Salts Soil-Water EC (1:2) | **Mar 1 2024 12:56PM 817206 Batch: A Instrument: AMA-EC JenWay**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MGB	0.446	0.483	0.405	0.397	0.432	0.446	0.456	0.432	0.434	0.440	0.401	0.462	106	0.409	0.407	0.060	0.055	14.7	13.6	0.296 - 0.518	36	1	1

LAB #	90833	90852	90869	90877	90887	90905
ORIGINAL	0.232	0.928	0.317	3.680	0.163	0.422
DUPLICATE	0.230	0.905	0.312	3.300	0.205	0.437
% RD	0.9	2.5	1.6	10.9	22.8	3.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		11/12 91.7%	(>=33.3%)	
2 SD		12/12 100.0%	(>=66.7%)	(<25%)
3 SD		12/12 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 16/18 88.9%

Order of Analysis: 90825-90832, >90833, MGB-1, 90833-90840, >90852, MGB-2, 90841-90848, >90869, MGB-3, 90849-90856, >90877, MGB-4, 90857-90864, >90887, MGB-5, 90865-90872, >90905, MGB-6, 90873-90881, MGB-7, 90882-90890, MGB-8, 90891-90899, MGB-9, 90900-90908, MGB-10, 90909-90917, MGB-11, 90918-90919, MGB-12

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 10:05 am	MicheleL	Signer	
Y	03/04/2024 9:00 am	GalenS	Analyst	

[ ] ACCEPTABLE: May release all data upon final review of individual results.
[X] CAUTION: May release some or all data upon intense scrutiny of individual results.
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Printed: 4/11/2024 3:55 pm

Lab SampleRange: 90825-90919 **Soil:** pH Soil-Water (1:2)

Dodge City: Soil Data Quality Control Report

Mar 1 2024 12:56PM 817206 Batch: A Instrument: Auto pH North

pH Electrode

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MGB	5.26	5.27	5.23	5.30	5.33	5.20	5.24	5.20	5.23	5.22	5.31	5.19	106	5.31	5.30	0.09	0.07	1.8	1.3	5.16 -	5.44	25	6	3

LAB #	90833	90852	90869	90877	90887	90905
ORIGINAL	8.30	8.18	8.16	8.48	8.38	8.75
DUPLICATE	8.35	8.19	8.18	8.39	8.20	8.62
% RD	0.6	0.1	0.3	1.0	2.2	1.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD		9/12 75.0%	(>=33.3%)	
2 SD		12/12 100.0%	(>=66.7%)	(<25%)
3 SD		12/12 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 18/18 100.0%

Order of Analysis: 90825-90832, >90833, MGB-1, 90833-90840, >90852, MGB-2, 90841-90848, >90869, MGB-3, 90849-90856, >90877, MGB-4, 90857-90864, >90887, MGB-5, 90865-90872, >90905, MGB-6, 90873-90881, MGB-7, 90882-90890, MGB-8, 90891-90899, MGB-9, 90900-90908, MGB-10, 90909-90917, MGB-11, 90918-90919, MGB-12

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 10:05 am	MicheleL	Signer	
Y	03/04/2024 9:00 am	GalenS	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 4/11/2024 3:55 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Phosphorus (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	2.2	1.7											6,237	0.6		0.9				0.0 - 1.0			
CCV	3.0	3.2	2.8	2.9	2.9	2.8	2.9						17,106	3.0		0.3		10.5		2.7 - 3.3			
FRB	0.6	0.2											0							-			
P	18.4	19.9	17.9	16.1	14.1								1,599	16.0	15.9	2.5	1.7	15.5	10.5	12.5 - 19.2	17	2	1
H	77.0	70.6	75.6	73.2	73.7	72.5							1,575	67.1	67.1	6.2	5.2	9.2	7.7	56.7 - 77.5	28	3	1
O	30.7	32.7	29.3	31.3	32.4								121	27.6	27.5	1.9	1.6	7.0	5.8	24.3 - 30.8	26	3	2
*B	70.5												81	69.8	70.3	6.6	3.9	9.5	5.6	62.5 - 78.2	10	1	1

LAB #	90908	91042	91170	91220
ORIGINAL	65.9	33.0	49.2	58.4
DUPLICATE	68.8	29.5	45.2	50.4
% RD	4.3	11.4	8.4	14.7

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	9/17 52.9%	(>=33.3%)	
2 SD	1/0 100.0%	15/17 88.2%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 28/32 87.5%

Agronomic Relevance 2

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:40 pm	catf	Analyst	

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Printed: 4/19/2024 3:19 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Potassium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	5	0											6,237	3		6				0 -	8			
CCV	21	19	19	18	**17**	19	19						17,106	20		2		8.1		18 -	22			
FRB	4	5											0							-				
P	96	107	**114**	102	83								1,599	93	92	13	10	14.2	10.3	73 -	111	17	2	1
H	**298**	269	255	268	262	259							1,575	256	255	24	18	9.4	7.1	218 -	291	21	2	1
O	**272**	268	258	**277**	258								121	248	247	13	12	5.4	4.8	224 -	271	31	4	0
*B	987												81	960	961	77	57	8.1	5.9	847 -	1,074	19	4	1

LAB #	90908	91042	91170	91220
ORIGINAL	484	570	189	187
DUPLICATE	530	560	222	196
% RD	9.2	1.7	16.3	4.5

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	11/17 64.7%	(>=33.3%)	
2 SD	1/0 100.0%	16/17 94.1%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 29/32 90.6%

Agronomic Relevance 10

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:40 pm	catf	Analyst	

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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Calcium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	64	53											6,237	38		39				0 -	80			
CCV	197	195	194	185	191	188	188						17,136	199		17		8.7		180 -	220			
FRB	42	30											0							-				
P	2,185	2,312	2,337	2,255	2,033								1,599	2,091	2,084	205	148	9.8	7.1	1,787 -	2,381	20	2	1
H	2,520	2,578	2,633	2,578	2,585	2,435							1,575	2,524	2,517	224	171	8.9	6.8	2,176 -	2,858	22	2	1
O	2,710	2,907	2,754	2,875	2,791								121	2,670	2,686	157	131	5.9	4.9	2,424 -	2,949	32	6	1
*B	1,366												81	1,375	1,363	136	79	9.9	5.8	1,204 -	1,521	9	1	1

LAB #	90908	91042	91170	91220
ORIGINAL	5150	5613	2974	2184
DUPLICATE	5395	5590	3449	2199
% RD	4.6	0.4	14.8	0.7

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	13/17 76.5%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 31/32 96.9%

Agronomic Relevance 25

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:40 pm	catf	Analyst	

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Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Magnesium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	10	11											6,237	5		5				0 - 10			
CCV	30	28	29	28	27	29	29						17,106	30		3		9.9		27 - 33			
FRB	11	7											0							-			
P	329	329	338	338	297								1,599	301	299	39	23	12.9	7.7	253 - 345	11	1	1
H	1,003	1,027	1,006	1,008	1,021	975							1,575	963	961	81	60	8.4	6.2	841 - 1,081	21	2	1
O	372	381	356	386	369								121	354	354	19	17	5.3	4.9	319 - 389	39	2	0
*B	270												81	268	266	19	15	7.0	5.6	237 - 296	22	1	1

LAB #	90908	91042	91170	91220
ORIGINAL	891	405	472	306
DUPLICATE	1011	416	514	317
% RD	12.6	2.6	8.4	3.4

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	15/17 88.2%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 30/32 93.8%

Agronomic Relevance 10

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:41 pm	catf	Analyst	

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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 | **Dodge City: Soil Data Quality Control Report** | ICP

Soil: Mehlich 3 Extractable Sodium (ICP) | **Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300**

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range	Outliers LT(%) 1	2	3
MB	0.5	0.3											6,237	0.4		1.5				0.0 - 2.0			
CCV	2.1	2.0	2.0	1.8	1.7	2.0	1.9						17,106	3.4		11.7				1.8 - 2.2			
FRB	5.6	4.0											0							-			
P	112.0	114.3	113.2	120.0	101.6								1,599	101.2	101.1	13.9	11.5	13.8	11.4	78.1 - 124.1	27	3	1
H	28.9	35.9	25.1	28.3	27.5	24.8							1,575	27.6	27.1	4.7	3.4	16.9	12.4	20.4 - 33.9	19	3	1
O	88.6	91.9	83.7	91.3	88.1								121	87.1	87.1	4.9	4.5	5.6	5.2	78.1 - 96.0	33	3	0
*B	9.4												81	8.7	8.3	2.8	1.5	31.9	17.8	5.4 - 11.3	9	4	1

LAB #	90908	91042	91170	91220
ORIGINAL	420.8	23.9	73.0	48.0
DUPLICATE	440.9	23.6	77.3	48.7
% RD	4.7	1.3	5.8	1.4

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	15/17 88.2%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 31/32 96.9%

Agronomic Relevance 5

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:41 pm	catf	Analyst	

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Printed: 4/19/2024 3:18 pm

Lab SampleRange: 90839-91241 **Soil:** Mehlich 3 Extractable Sulfur (ICP)

Dodge City: Soil Data Quality Control Report ICP

Mar 1 2024 1:16PM 817212 Batch: A Instrument: ICP South Perkin-Elmer 8300

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	-0.4	-0.8											6,237	0.4		1.2				0.0 -	2.0			
CCV	0.9	1.0	1.1	0.9	1.0	1.0	1.1						17,106	2.5		12.0				0.8 -	1.2			
FRB	1.6	2.1											0							-				
P	19.6	23.2	19.6	20.0	20.4								1,599	19.6	19.3	3.5	2.8	17.8	14.6	13.7 -	25.0	26	3	1
H	23.2	25.1	24.7	24.0	21.3	22.8							1,575	25.1	24.7	4.2	3.3	16.6	13.5	18.0 -	31.3	27	5	1
O	14.8	15.6	14.0	16.6	14.5								121	15.1	14.9	1.5	1.1	10.2	7.6	12.7 -	17.2	21	8	1
*B	10.7												81	11.7	11.6	1.5	1.2	13.0	10.4	9.2 -	14.0	22	4	1

LAB #	90908	91042	91170	91220
ORIGINAL	29.1	11.5	11.7	10.0
DUPLICATE	29.5	9.7	6.9	6.6
% RD	1.4	16.4	52.3	41.0

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD	1/1 100.0%	16/17 94.1%	(>=33.3%)	
2 SD	1/0 100.0%	17/17 100.0%	(>=66.7%)	(<25%)
3 SD	1/0 100.0%	17/17 100.0%	(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 30/32 93.8%

Agronomic Relevance 5

Order of Analysis: FRB-1, FRB-2, H-1, O-1, P-1, CCV-1, MB-1, 90839-90864, H-2, 90865-90896, O-2, CCV-2, 90897-90920, 90922, 90924, 90927, 90929, 90931-90932, 90934, P-2, 90936, 90938, 90940, 90942, 90944, 90946, 90948, 90950-90953, 90955, 90957, 90959, 90961, 90963, 90966-90967, 90969, 90971, 90973, 90975, 90977, 90979, 90981, 90983, 90985, 90987, 90989, 90991, 90993, 90995, H-3, CCV-3, 90997, 90999, 91001, 91003, 91005-91006, *91007, 91008-91014, 91016, 91018-91024, 91026, 91028, 91030, 91032, 91034, 91036, 91038, 91040, 91042, O-3, 91044, 91046-91047, 91049, 91051, 91053, 91055, 91057, 91059, 91061, 91063, 91065, 91067, 91069, 91071, 91073, 91075, 91077, 91079, 91081, 91083, 91085-91086, 91088, 91090, 91092-91098, P-3, CCV-4, 91099-91129, H-4, 91130-91161, O-4, CCV-5, 91162-91192, P-4, 91193-91224, H-5, CCV-6, 91225-91241, >90908, >91042, >91170, >91220, O-5, P-5, H-6, CCV-7, MB-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	03/04/2024 12:55 pm	MicheleL	Signer	
Y	03/04/2024 12:41 pm	catf	Analyst	

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Printed: 4/19/2024 3:19 pm

Lab SampleRange: 90852-115445

Soil: TKN (Distillation/Titration)

Dodge City: Soil Data Quality Control Report

Apr 18 2024 4:51PM 823619 Batch: A Mettler XS204 FA4618; Titrino Plus 848

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	0												323	0		0				-10	10			
LCS	1,194												117	854		75		8.7		725	925			
LCS		3,430											116	3,510		151		4.3		3,080	3,580			

LAB #	90858
ORIGINAL	620
DUPLICATE	613
% RD	1.0

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD			(>=33.3%)	
2 SD			(>=66.7%)	(<25%)
3 SD			(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 3/4 75.0%

Order of Analysis: MB-1, LCS-1, 112612-112616, 115445, 90852-90858, >90858, 90859-90861, LCS-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	04/19/2024 3:43 pm	MicheleL	Signer	
Y	04/19/2024 3:34 pm	CaseyP	Analyst	Notes: I may have accidently grabbed an ALP sample and weighed it for LCS1, not sure what happened.

[X] ACCEPTABLE: May release all data upon final review of individual results.
[ ] CAUTION: May release some or all data upon intense scrutiny of individual results.
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Lab SampleRange: 90862-90877

Soil: TKN (Distillation/Titration)

Dodge City: Soil Data Quality Control Report

Apr 22 2024 8:48AM 823847 Batch: A Mettler XS204 FA4618; Titrino Plus 848

Sample	1	2	3	4	5	6	7	8	9	10	11	12	Count	X1	XL	STD1	STDL	RSTD1	RSTDL	Acceptable Range		Outliers LT(%) 1	2	3
MB	0												324	0		0				-10	10			
LCS	842												118	857		81		9.4		725	925			
LCS		3,441											117	3,510		151		4.3		3,080	3,580			

LAB #	90871
ORIGINAL	507
DUPLICATE	502
% RD	0.9

Outliers	Blinds	All QCs	Acceptable	Reject
1 SD			(>=33.3%)	
2 SD			(>=66.7%)	(<25%)
3 SD			(100%)	(<75%)

Total Adjusted Outliers (>66.7%) 4/4 100.0%

Order of Analysis: MB-1, LCS-1, 90862-90871, >90871, 90872-90877, LCS-2

Missing Samples:

Approved	Date / Tme	Name	Type	Comment
Y	04/23/2024 3:58 pm	MicheleL	Signer	
Y	04/23/2024 3:47 pm	CaseyP	Analyst	

[X] ACCEPTABLE: May release all data upon final review of individual results.
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Printed: 4/24/2024 12:58 pm

Account	Lab Number	Date Received	Date Reported	Sample ID	Client Name
41493	90854	2/28/2024	04/24/2024	SITE 1	CITY OF PERRY
41493	90855	2/28/2024	04/24/2024	SITE 1	CITY OF PERRY
41493	90856	2/28/2024	04/24/2024	SITE 1	CITY OF PERRY
41493	90857	2/28/2024	04/24/2024	SITE 2	CITY OF PERRY
41493	90858	2/28/2024	04/24/2024	SITE 2	CITY OF PERRY
41493	90859	2/28/2024	04/24/2024	SITE 2	CITY OF PERRY
41493	90860	2/28/2024	04/24/2024	SITE 3	CITY OF PERRY
41493	90861	2/28/2024	04/24/2024	SITE 3	CITY OF PERRY
41493	90862	2/28/2024	04/24/2024	SITE 3	CITY OF PERRY
41493	90863	2/28/2024	04/24/2024	SITE 4	CITY OF PERRY
41493	90864	2/28/2024	04/24/2024	SITE 4	CITY OF PERRY
41493	90865	2/28/2024	04/24/2024	SITE 4	CITY OF PERRY
41493	90866	2/28/2024	04/24/2024	SITE 5	CITY OF PERRY
41493	90867	2/28/2024	04/24/2024	SITE 5	CITY OF PERRY
41493	90868	2/28/2024	04/24/2024	SITE 5	CITY OF PERRY
41493	90869	2/28/2024	04/24/2024	SITE 6	CITY OF PERRY
41493	90870	2/28/2024	04/24/2024	SITE 6	CITY OF PERRY
41493	90871	2/28/2024	04/24/2024	SITE 6	CITY OF PERRY

Sample Location	Layer	From Depth	To Depth	Project ID	Soil pH (unit)
					1:2 Soil-Water
WEST	T	0	6		8.1
WEST	S	6	18		8.4
WEST	S	18	30		8.4
EAST	T	0	6		8.2
EAST	S	6	18		8.5
EAST	S	18	30		8.5
WEST	T	0	6		8.2
WEST	S	6	18		8.5
WEST	S	18	30		8.5
EAST	T	0	6		8.1
EAST	S	6	18		8.4
EAST	S	18	30		8.5
WEST	T	0	6		8.2
WEST	S	6	18		8.5
WEST	S	18	30		8.4
EAST	T	0	6		8.2
EAST	S	6	18		8.4
EAST	S	18	30		8.5

Soluble Salts (mı	Organic Matter (%	Nitrate Nitrogen (	Nitrate Nitrogen (	Sulfur (lbs/ac)	Cation Exchange
1:2 Soil-Water	LOI(r)	Cd Reduction			
0.57	2.1	5.4	10	68	31
0.48	1.2	2.6	9	104	36
0.73	1.1	1.5	5	169	36
0.33	2.3	6.6	12	29	26
0.49	1.2	2.9	10	86	36
0.72	1	< 1	< 4	166	35
0.38	2.4	< 1	< 2	36	25
0.58	1.2	1.1	< 4	94	37
0.59	1	< 1	< 4	148	36
0.32	2.5	1.8	3	23	23
0.47	1.1	3.8	14	83	35
0.62	1.1	1.2	4	158	36
0.31	2	1.1	< 2	27	25
0.66	1	13.2	48	137	35
0.62	1.2	10.1	36	86	34
0.32	1.9	5.2	9	27	22
0.56	1.3	12.6	45	101	35
0.63	0.9	14.8	53	115	34

Hydrogen (%)	Potassium (%)	Calcium (%)	Magnesium (%)	Sodium (%)	Phosphorus (mg/ Mehlich 3 ICP
0	6	60	28	7	32
0	3	69	22	6	21
0	2	69	22	7	25
0	7	57	30	5	54
0	3	70	22	5	17
0	2	71	21	6	27
0	7	59	28	6	95
0	3	68	23	6	18
0	2	69	23	6	20
0	8	57	30	5	56
0	2	71	21	5	7
0	2	69	23	6	18
0	6	61	28	5	60
0	2	72	21	6	16
0	2	73	21	5	12
0	7	59	28	6	59
0	2	71	20	6	9
0	2	73	20	6	13

Potassium (mg/k		Sulfur (mg/kg)		Calcium (mg/kg)		Magnesium (mg/		Sodium (mg/kg)		Total N (mg/kg)
Mehlich 3	ICP	Mehlich 3	ICP	Mehlich 3	ICP	Mehlich 3	ICP	Mehlich 3	ICP	Calculated
690		38		3640		1030		462		1174
358		29		6120		965		517		612
292		47		6840		950		559		501
693		16		2970		946		314		1312
358		24		5750		956		452		623
266		46		7390		889		528		487
722		20		2990		847		345		1435
386		26		5380		1020		468		623
289		41		7260		988		534		488
704		13		2630		845		263		1444
313		23		5490		893		436		625
274		44		7460		985		514		486
578		15		3020		845		301		1210
229		38		7920		866		472		544
254		24		5830		846		385		697
584		15		2640		753		314		1232
315		28		5770		849		487		713
258		32		6600		808		461		522

TKN (mg/kg)	Excess Lime (i) (
TKN	XSL(i)
1169	0
609	1
499	3
1305	0
620	1
486	3
1434	0
622	1
487	3
1442	0
621	1
485	3
1209	0
531	3
687	1
1227	0
700	1
507	3

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
1/5/23	0.875	21		7.4		360
2/2/23	1.33	34		7.4		360
3/7/23	0.167	92		7.1		360
4/11/23	0.922	39		7.2		360
5/9/23	1.069	31		7.1		360
6/1/23	1.174	18		7.3		360
7/11/23		18		7.1		
8/10/23		25		7.1		
9/19/23		23		7.3		
10/10/23		21		7.3		
11/7/23		39		7.3		
12/12/23		40		7.4		
1/9/24	0.628	40		7.6		360
2/6/24	0.637	38		7.3		360
3/12/24	0.574	40		7.2		360
4/2/24	0.576	33		7.3		360
5/14/24	0.596	47		7.7		360
6/4/24	0.586	26		7.2		360
7/9/24	0.635	42		7.3		360
8/13/24	0.606	32		7.5		360
9/3/24	0.642	52		7.3		360
10/15/24	0.602	31		7.4		360
11/26/24	0.733	26		7.9		360
12/3/24	0.730	42		7.8		360