Administrative 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. Application materials

Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

1. Resumen en lenguaje sencillo (PLS, por sus siglas en inglés) de la actividad propuesta
   - Inglés
   - Idioma alternativo (español)
2. Primer aviso (NORI, por sus siglas en inglés)
   - Inglés
   - Idioma alternativo (español)
3. Solicitud original

English Plain Language Summary

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.

Crystal Clear Special Utility District, 2370 FM 1979, San Marcos TX 78666, applied to the Texas Commission on Environmental Quality (TCEQ) for a Renewal for Texas Pollutant Discharge Elimination System (TPDES) Permit to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 100,000 gallons per day via a discharge point that flows to Water Hole Creek, thence to Soil Conservation Service (SCS) Site 3 Reservoir, thence to Water Hole Creek, thence to York Creek, thence to the Lower San Marcos River in Segment No. 1808 of the Guadalupe River Basin.

The domestic wastewater treatment facility is located at 5975 Farm-to-Market Road 1102, in Comal County, Texas 78132. The permit application will be available for viewing and copying at New Braunfels Public Library, 700 E Common St, New Braunfels in Comal County, Texas.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Domestic wastewater will be treated by an MBR, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks.

j & a WASTEWATER

Spanish Plain Language Summary

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 exige 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 federal. representaciones ejecutables de la solicitud de permiso.

Crystal Clear Special Utility District, 2370 FM 1979, San Marcos TX 78666, solicitó a la Comisión de Calidad Ambiental de Texas (TCEQ) una renovación del permiso del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) para autorizar la eliminación de aguas residuales tratadas en un volumen no exceder un flujo promedio diario de 100,000 galones por día a través de un punto de descarga que fluye a Water Hole Creek, de allí al embalse del Sitio 3 del Servicio de Conservación de Suelos (SCS), de allí a Water Hole Creek, de allí a York Creek, de allí a Lower San Río Marcos en el Tramo No. 1808 de la Cuenca del Río Guadalupe.

La instalación de tratamiento de aguas residuales domésticas está ubicada en 5975 Farm-to-Market Road 1102, en el condado de Comal, Texas 78132. La solicitud de permiso estará disponible para ver y copiar en la Biblioteca Pública de New Braunfels, 700 E Common St, New Braunfels en el condado de Comal. , Texas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Las aguas residuales domésticas serán tratadas mediante un MBR y el sistema tendrá una pantalla primaria, un tanque de ecualización, múltiples trenes de proceso que constan de zonas anóxicas, de aireación, de membrana y tanques de retención de lodos. La instalación utilizará cloro o desinfección UV.

J&A WASTEWATER

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0015266001

APPLICATION. Crystal Clear Special Utility District, 2370 Farm-to-Market Road 1979, San Marcos, Texas 78666, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0015266001 (EPA I.D. No. TX0135488) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 100,000 gallons per day. The domestic wastewater treatment facility is located at 5975 Farm-to-Market Road 1102, near the city of New Braunfels, in Comal County, Texas 78132. The discharge route is from the plant site to Water Hole Creek; thence to Soil conservation Service Site 3 Reservoir; thence to Water Hold Creek; thence to York Creek; thence to the Lower San Marcos River. TCEQ received this application on February 28, 2025. The permit application will be available for viewing and copying at New Braunfels Public Library, 700 East Common Street, New Braunfels, in Comal County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.058333,29.777222&level=18

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-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 Crystal Clear Special Utility District at the address stated above or by calling Ms. Janela Revilla, E.I.T., Project Engineer/JA Wastewater, LLC, at 737-864-3476.

Issuance Date: March 18, 2025

Comisión de Calidad Ambiental del Estado de Texas

AVISO DE RECIBO DE LA SOLICITUD Y
EL INTENTO DE OBTENER PERMISO PARA LA CALIDAD DEL AGUA
RENOVACION

PERMISO NO. WQ0015266001

SOLICITUD. Crystal Clear Special Utility District, 2370 Farm-to-Market Road 1979, San Marcos, Texas 78666, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ000015266001 (EPA I.D. No. TX 0135488) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 100.000 galones por día. La planta está ubicada 5975 Farm-to-Market Road 1102, cerca de la ciudad de New Braunfels, en el condado de Comal, Texas 78132. La ruta de descarga es del sitio de la planta a Arroyo Water Hole; de allí al embalse del Sitio 3 del Servicio de Conservación de Suelos; de allí al arroyo Water Hold; de allí al arroyo York; de allí al río San Marcos Inferior. La TCEQ recibió esta solicitud el February 28, 2025. La solicitud para el permiso estará disponible para leerla y copiarla en New Braunfels Public Library, 700 East Common Street, New Braunfels, en el condado de Comal, Texas antes de la fecha de publicación de este aviso en el periódico. 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/tpdes-applications
Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.058333,29.777222&level=18

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. 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.

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 Crystal Clear Special Utility District a la dirección indicada arriba o llamando a Ms. Janela Revilla, E.I.T., Project Engineer/JA Wastewater, LLC, al 737-864- 3476.

Fecha de emission: 18 de marzo de 2025

Gatehouse
Wastewater Treatment Facility

TCEQ Application for Minor Amendment with Renewal of TPDES Permit

Submitted to
Texas Commission on Environmental Quality

February 2025

j&a WASTEWATER

Minor Amendment with Renewal Request

Crystal Clear Special Utility District (CCSUD) is submitting this application for the renewal of TPDES Permit number WQ0015266001 which expires July 9, 2025. Additionally, CCSUD is submitting a minor amendment to change the name of the facility from “The Crossing at Havenwood Wastewater Treatment Plant” to “Gatehouse Wastewater Treatment Facility”.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Crystal Clear Special Utility District

PERMIT NUMBER (If new, leave blank): WQ00 15266001

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☒

Payment Information:

Mailed — Check/Money Order Number:

Check/Money Order Amount:

Name Printed on Check:

EPAY — Voucher Number:

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	751836
Trace Number:	582EA000653890
Date:	02/21/2025 01:57 PM
Payment Method:	CC - Authorization 0000011598
Voucher Amount:	$800.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= .10 & < .25 MGD - RENEWAL
ePay Actor:	MICHAEL SALDANA

Payment Contact Information

Name:	MICHAEL A SALDANA
Company:	CRYSTAL CLEAR SUD
Address:	2370 FM 1979, SAN MARCOS, TX 78666
Phone:	830-560-6250

Site Information

Site Name:	GATEHOUSE WWTF
Site Address:	5975 FM1102, NEW BRAUNFELS, TX 78132
Site Location:	SITE IS LOCATED 1000FT SOUTH OF 1102

Customer Information

Customer Name:	CRYSTAL CLEAR SPECIAL UTILITY DISTRICT
Customer Address:	2370 FM 1979, SAN MARCOS, TX 78666

Other Information

Program Area ID:	WQ0015266001

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	751837
Trace Number:	582EA000653890
Date:	02/21/2025 01:57 PM
Payment Method:	CC - Authorization 0000011598
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	MICHAEL SALDANA

Payment Contact Information

Name:	MICHAEL A SALDANA
Company:	CRYSTAL CLEAR SUD
Address:	2370 FM 1979, SAN MARCOS, TX 78666
Phone:	830-560-6250

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

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

d. Check the box next to the appropriate application type

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

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

f. **For existing permits**:

Permit Number: WQ00 15266001

EPA I.D. (TPDES only): TX 0135488

Expiration Date: July 9, 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?

Crystal Clear Special Utility District

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

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

CN: 605149392

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: Ms. Last Name, First Name: Franke, Regina

Title: Authorized Signatory Credential:

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

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

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

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

CN:

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

Prefix: _ Last Name, First Name:

Title: _ Credential:

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms. Last Name, First Name: Miller, Jamie

Title: President Credential: P.E.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (970) 443-9096 E-mail Address: jmiller@jawastewater.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: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

B. Prefix: Ms. Last Name, First Name: Franke, Regina

Title: Authorized Signatory Credential:

Organization Name: Crystal Clear Special Utility District

Mailing Address: 2370 FM 1979 City, State, Zip Code: San Marcos, TX 78666

Phone No.: (830) 372-1031 E-mail Address: regina@crystalclearsud.org

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: Ms. Last Name, First Name: Franke, Regina

Title: Authorized Signatory Credential:

Organization Name: Crystal Clear Special Utility District

Mailing Address: 2370 FM 1979 City, State, Zip Code: San Marcos, TX 78666

Phone No.: (830) 372-1031 E-mail Address: regina@crystalclearsud.org

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: Ms. Last Name, First Name: Franke, Regina

Title: Authorized Signatory Credential:

Organization Name: Crystal Clear Special Utility District

Mailing Address: 2370 FM 1979 City, State, Zip Code: San Marcos, TX 78666

Phone No.: (830) 372-1031 E-mail Address: regina@crystalclearsud.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms. Last Name, First Name: Revilla, Janela

Title: Project Engineer Credential: E.I.T.

Organization Name: JA Wastewater, LLC

Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731

Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

D. Public Viewing Information

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

Public building name: New Braunfels Public Library

Location within the building: Circulation Desk

Physical Address of Building: 700 E Common St

City: New Braunfels County: Comal

Contact (Last Name, First Name): Margheim, Jonathan

Phone No.: (830) 221-4300 Ext.: None

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. Plain Language Summary Template

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

Attachment: Plain Language Summary

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:

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** 107324121

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):

Gatehouse WWTF

C. Owner of treatment facility: Crystal Clear Special Utility District

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

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

Prefix: _ Last Name, First Name:

Title: _ Credential:

Organization Name: Crystal Clear Special Utility District

Mailing Address: 2370 FM 1979 City, State, Zip Code: San Marcos, TX 78666

Phone No.: (830) 372-1031 E-mail Address: regina@crystalclearsud.org

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

Attachment:

E. Owner of effluent disposal site:

Prefix: _ Last Name, First Name:

Title: _ Credential:

Organization Name:

Mailing Address: _ City, State, Zip Code:

Phone No.: _ E-mail Address:

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

Attachment:

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

Prefix: _ Last Name, First Name:

Title: _ Credential:

Organization Name:

Mailing Address: _ City, State, Zip Code:

Phone No.: _ E-mail Address:

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

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☒ Yes ☐ No

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

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

☒ Yes ☐ No

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

City nearest the outfall(s): New Braunfels

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment:

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

B. City nearest the disposal site:

C. County in which the disposal site is located:

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

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number:

Amount past due:

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify**:**

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0015266001

Applicant: Crystal Clear Special Utility District

Certification:

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

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

Signatory name (typed or printed): Regina Franke

Signatory title: Authorized Signatory

Signature: _____ Date: February 21, 2025

(Use blue ink)

Subscribed and Sworn to before me by the said Regina Franke

on this 21st day of February, 20 25.

My commission expires on the 24th day of May, 20 26.

_____

Notary Public

Guadalupe

County, Texas

YESENIA TELLO
Notary ID # 13156125-5
My Commission Expires
05/24/2026

[SEAL]

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: SPIF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

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

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

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

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

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

The following applies to all applications:

1. Permittee: Crystal Clear Special Utility District

   Permit No. WQ00 15266001 EPA ID No. TX 0135488

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

   5975 Farm-to-Market Road 1102, New Braunfels, in Comal County, Texas 78132

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Regina Franke

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

Title: Authorized Signatory

Mailing Address: 2370 FM 1979

City, State, Zip Code: San Marcos, TX 78666

Phone No.: (830) 372-1031 Ext.: None Fax No.: None

E-mail Address: regina@crystalclearsud.org

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

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

The treated effluent is discharged to Water Hole Creek, thence to Soil Conservation Service (SCS) Site 3 Reservoir, thence to Water Hole Creek, thence to York Creek, thence to the Lower San Marcos River in Segment No. 1808 of the Guadalupe River Basin.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future
- ☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

None

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

The property is for Gatehouse WWTF.

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

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

Gatehouse WWTF, 2024

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

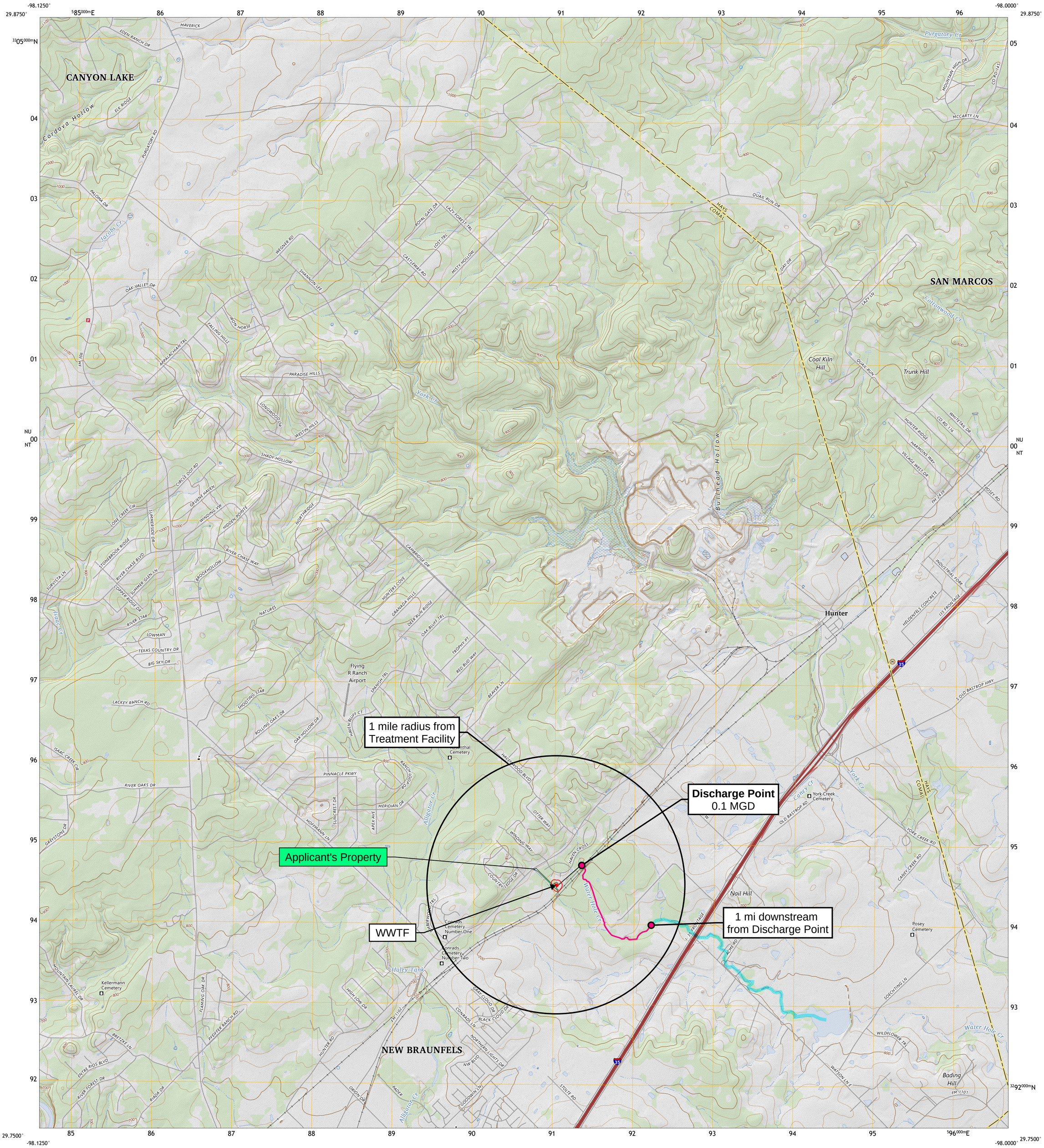
WWTP (84,000 GPD) built in 2024.

USGS science for a changing world

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

Gatehouse WWTF SPIF Map

HUNTER QUADRANGLE
TEXAS
7.5-MINUTE TOPO



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 14R

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

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. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://nationalmap.gov

MN
GN
0°28′ 8 MILS
3°39′ 65 MILS
UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NU
00
NT
Grid Zone Designation 14R

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 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

Devils Backbone	Wimberley	San Marcos North
Sattler	Hunter	San Marcos South
New Braunfels West	New Braunfels East	Geronimo

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

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

HUNTER, TX
2024

J&A WASTEWATER

English Plain Language Summary

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.

Crystal Clear Special Utility District, 2370 FM 1979, San Marcos TX 78666, applied to the Texas Commission on Environmental Quality (TCEQ) for a Renewal for Texas Pollutant Discharge Elimination System (TPDES) Permit to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 100,000 gallons per day via a discharge point that flows to Water Hole Creek, thence to Soil Conservation Service (SCS) Site 3 Reservoir, thence to Water Hole Creek, thence to York Creek, thence to the Lower San Marcos River in Segment No. 1808 of the Guadalupe River Basin.

The domestic wastewater treatment facility is located at 5975 Farm-to-Market Road 1102, in Comal County, Texas 78132. The permit application will be available for viewing and copying at New Braunfels Public Library, 700 E Common St, New Braunfels in Comal County, Texas.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. Domestic wastewater will be treated by an MBR, and the system will have a primary screen, equalization tank, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks.

j & a WASTEWATER

Spanish Plain Language Summary

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 exige 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 federal. representaciones ejecutables de la solicitud de permiso.

Crystal Clear Special Utility District, 2370 FM 1979, San Marcos TX 78666, solicitó a la Comisión de Calidad Ambiental de Texas (TCEQ) una renovación del permiso del Sistema de Eliminación de Descargas Contaminantes de Texas (TPDES) para autorizar la eliminación de aguas residuales tratadas en un volumen no exceder un flujo promedio diario de 100,000 galones por día a través de un punto de descarga que fluye a Water Hole Creek, de allí al embalse del Sitio 3 del Servicio de Conservación de Suelos (SCS), de allí a Water Hole Creek, de allí a York Creek, de allí a Lower San Río Marcos en el Tramo No. 1808 de la Cuenca del Río Guadalupe.

La instalación de tratamiento de aguas residuales domésticas está ubicada en 5975 Farm-to-Market Road 1102, en el condado de Comal, Texas 78132. La solicitud de permiso estará disponible para ver y copiar en la Biblioteca Pública de New Braunfels, 700 E Common St, New Braunfels en el condado de Comal. , Texas.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxígeno carbonoso (CBOD5) de cinco días, sólidos suspendidos totales (SST), nitrógeno amoniacal (NH3-N) y Escherichia coli. Las aguas residuales domésticas serán tratadas mediante un MBR y el sistema tendrá una pantalla primaria, un tanque de ecualización, múltiples trenes de proceso que constan de zonas anóxicas, de aireación, de membrana y tanques de retención de lodos. La instalación utilizará cloro o desinfección UV.

j & a WASTEWATER

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 605149392		**RN 107324121**

SECTION II: Customer Information

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

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

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

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

Crystal Clear Special Utility District

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

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:

2370 FM 1979

City	San Marcos	**State**	TX	**ZIP**	78666	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
N/A	regina@crystalclearsud.org

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(830) 372-1031	None	( ) -

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.)*

Gatehouse WWTF

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	5975 FM 1102							
	City	New Braunfels	**State**	TX	**ZIP**	78132	**ZIP + 4**	
24. County								

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

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**

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

27. Latitude (N) In Decimal:	29.7775N		**28. Longitude (W) In Decimal:**	98.0582W	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	46	38.74	-98	3	29.43

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

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

Wastewater Treatment

34. Mailing Address:	**2370 FM 1979**							
	City	**San Marcos**	**State**	**TX**	**ZIP**	**78666**	**ZIP + 4**	
35. E-Mail Address:	**regina@crystalclearsud.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 372-1031	**None**	( ) -

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:	Janela Revilla	**41. Title:**	Project Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(737) 864-3476	None	( ) -	jrevilla@jawastewater.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.

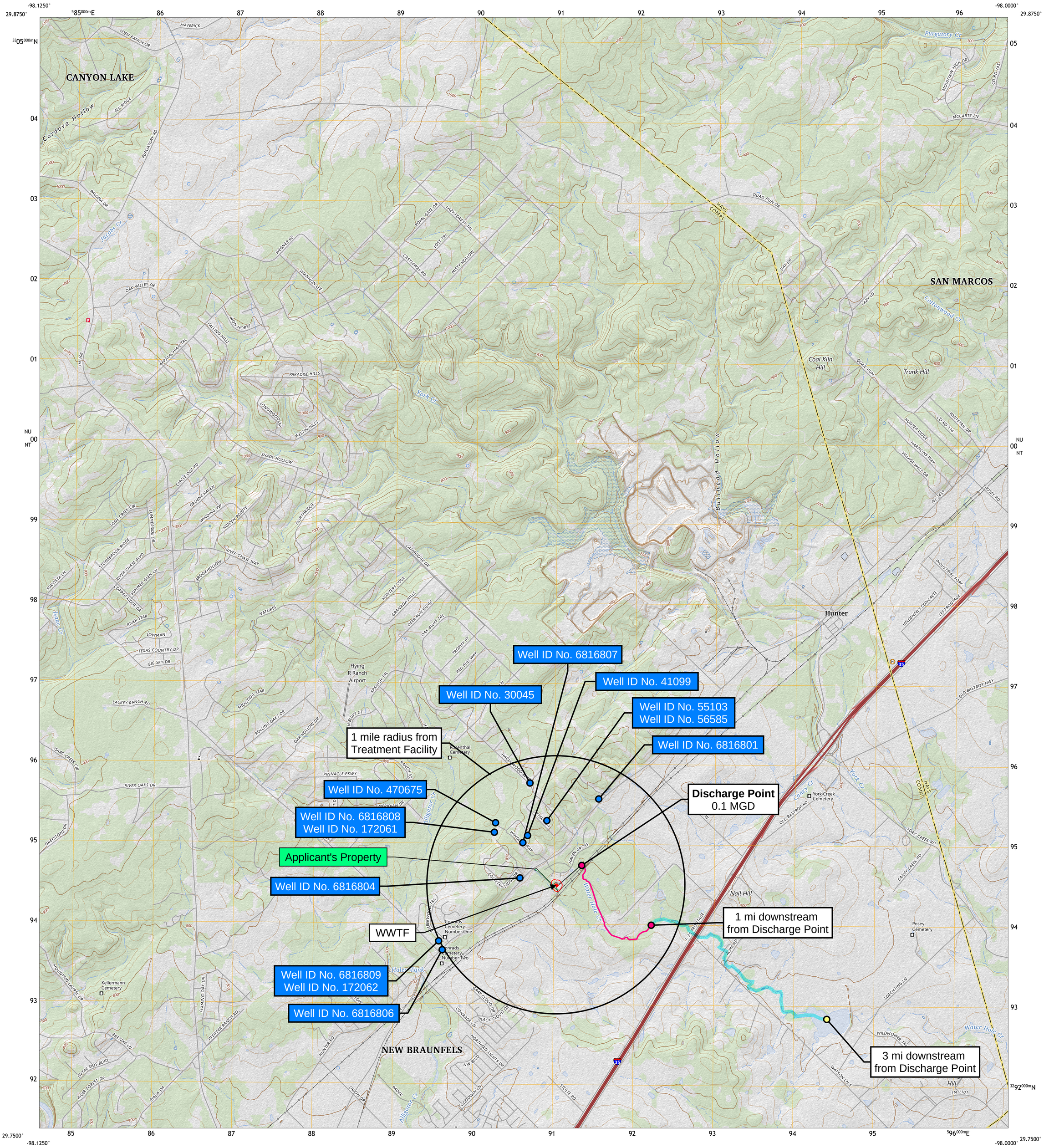
Company:	Crystal Clear Special Utility District	**Job Title:**	Authorized Signatory
Name *(In Print):*	Regina Franke	**Phone:**	(830) 372- **1031**
Signature:	Franke	**Date:**	02/21/2025

USGS
science for a changing world

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

Gatehouse WWTF USGS Map

HUNTER QUADRANGLE
TEXAS
7.5-MINUTE TOPO



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 14R

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) Metadata for additional source data information.

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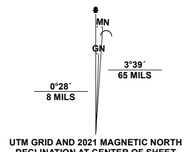
Learn About The National Map: https://nationalmap.gov



UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
NU
00
NT
Grid Zone Designation
14R

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 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT

QUADRANGLE LOCATION

Devils Backbone	Wimberley	San Marcos North
Sattler	Hunter	San Marcos South
New Braunfels West	New Braunfels East	Geronimo

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

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

HUNTER, TX
2024

J&A WASTEWATER

STATE OF TEXAS PLUGGING REPORT for Tracking #30045

Owner:	**Bluegreen Southwest**	Owner Well #:	**1**
Address:	**Mystic Shores Area 14 Spring Branch, TX 78070**	Grid #:	**68-16-8**
		Latitude:	**29° 47' 19" N**
Well Location:	**Haven Wood Spring Branch, TX 78070**	Longitude:	**098° 03' 42" W**
Well County:	**Comal**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **Unknown** License Number: **No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**		**177**

Plugging Information

Date Plugged: **2/8/2006** Plugger: **Spring Branch Water Well Serv**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

DIa (in.)	*Top (ft.)*	*Bottom (ft.)*
6	**0**	**7**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
7	**177**	**87/Bentonite**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Spring Branch Water Well Service**

8567 US Hwy. 281 N.
Spring Branch, TX 78070

Driller Name: **Ernest V. Haack III** License Number: **54763**

Apprentice Name: **Carl Haack** Apprentice Number: **10054339**

Comments: **87 sacks of Bentonite hole plug was used, and 2 sacks of concrete. Amended Ref# 2958 3/3/06**

Report Amended on by Request #2958

STATE OF TEXAS PLUGGING REPORT for Tracking #41099

Owner:	**New Braunfels Utitlites**	Owner Well #:	**No Data**
Address:	**263 Main Plaza** **New Braunfels, TX 78130**	Grid #:	**68-16-8**
		Latitude:	**29° 46' 58" N**
Well Location:	**1328 Winding Way** **New Braunfels, TX 78130**	Longitude:	**098° 03' 43" W**
Well County:	**Comal**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **Sam Owens** License Number: **1589WPKT**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**7**		**312**

Plugging Information

Date Plugged: **5/1/2006** Plugger: **Daniel E Kutscher**

Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

DIa (in.)	*Top (ft.)*	*Bottom (ft.)*
8	**6**	**31**
6	**122**	**184**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**208**	**48**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling**

3810 Hunter Rd.
San Marcos, TX 78666

Driller Name: **Daniel Kutscher** License Number: **54746**

Comments: **We Put gravel from 312' to 208' had casing perforated 145'.**
^EO

STATE OF TEXAS PLUGGING REPORT for Tracking #55103

Owner:	**Mark and Lesa Wilson**	Owner Well #:	**C103-106**
Address:	**715 Pas Trail Huffman, TX 77336**	Grid #:	**68-16-8**
Well Location:	**2538 Otter Way New Braunfels, TX 78132**	Latitude:	**29° 47' 04" N**
		Longitude:	**098° 03' 34" W**
Well County:	**Comal**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company:	**No Data**	Date Drilled:	**No Data**
Driller:	**No Data**	License Number:	**No Data**

Borehole: **No Data**

Plugging Information

Date Plugged: **4/29/2009** Plugger: **Charles Kutscher**

Plug Method: **See Comments**

Variance Number: **C103-106**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**232**	**24 Bags of Cement**
232	**245**	**10-5 gal santized stone**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling, Ltd**

3810 Hunter Road
San Marcos, TX 78666

Driller Name: **Charles Kutscher** License Number: **1861**

Comments: **Sanitized Stone 245 to 232, Cement 232 to surface, 3 perforations 200, 120, 50'**

STATE OF TEXAS PLUGGING REPORT for Tracking #56585

Owner:	**Will Cheek**	Owner Well #:	**C103-071**
Address:	**2321 E Common St 126 New Braunfels, TX 78130**	Grid #:	**68-16-8**
Well Location:	**2542 Otter Way New Braunfels, TX 78132**	Latitude:	**29° 47' 04" N**
		Longitude:	**098° 03' 34" W**
Well County:	**Comal**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data** Date Drilled: **No Data**

Driller: **No Data** License Number: **No Data**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**		**275**

Plugging Information

Date Plugged: **2/4/2009** Plugger: **Charles Kutscher**

Plug Method: **See Comments**

Variance Number: **C103-071**

Casing Left in Well:

Dia (in.)	*Top (ft.)*	*Bottom (ft.)*
6	**135**	**190**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**190**	**59 Bags of Cement**
190	**275**	**Gravel**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Kutscher Drilling, Ltd**

3810 Hunter Road
San Marcos, TX 78666

Driller Name: **Charles Kutscher** License Number: **1861**

Comments: **Gravel 275 to 190, Cement from 190 to 0'**

STATE OF TEXAS PLUGGING REPORT for Tracking #172061

Owner:	**Alamo 1**	Owner Well #:	**County Ridge Rd**
Address:	**12400 San Pedro Suite 200 San Antonio , TX 78216**	Grid #:	**68-16-8**
Well Location:	**County Ridge Rd New Braunfels, TX 78132**	Latitude:	**29° 46' 59.1" N**
		Longitude:	**098° 03' 57.9" W**
Well County:	**Comal**	Elevation:	**768**

Well Type: **Commercial**

Drilling Information

Company: **Unknown**

Date Drilled: **No Data**

Driller: **Unknown**

License Number: **Unknown**

Borehole: **No Data**

Plugging Information

Date Plugged: **10/6/2017**

Plugger: **Unison Drilling Inc.**

Plug Method: **Tremmie pipe cement from bottom to top**

Variance Number: **N/A**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**190**	**Cement 75 Bags/Sacks**
190	**231**	**Gravel 5 Yards**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Unison Drilling Inc**

PO Box 715
Devine, TX 78016

Driller Name: **Michael Mello**

License Number: **59591**

Apprentice Name: **Pete Saldana**

Apprentice Number: **59946**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #172062

Owner:	**Alamo 1**	Owner Well #:	**1313 Timberwood Trail**
Address:	**12400 San Pedro Suite 200 San Antonio, TX 78216**	Grid #:	**68-16-8**
Well Location:	**1313 Timberwood Trail New Braunfels, TX 78132**	Latitude:	**29° 46' 16" N**
		Longitude:	**098° 04' 24.2" W**
Well County:	**Comal**	Elevation:	**747**

Well Type: **Commercial**

Drilling Information

Company: **Unknown**

Date Drilled: **No Data**

Driller: **Unknown**

License Number: **Unknown**

Borehole: **No Data**

Plugging Information

Date Plugged: **10/6/2017**

Plugger: **Unison Drilling Inc.**

Plug Method: **Tremmie pipe cement from bottom to top**

Variance Number: **N/A**

Casing Left in Well:

No Data

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
0	**134**	**Cement 39 Bags/Sacks**
134	**177**	**Gravel 2 Yards**

Certification Data: The driller certified that the driller plugged this well (or the well was plugged 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 reports(s) being returned for completion and resubmittal.

Company Information: **Unison Drilling Inc**

PO Box 715
Devine, TX 78016

Driller Name: **Michael Mello**

License Number: **59591**

Apprentice Name: **Pete Saldana**

Apprentice Number: **59946**

Comments: **No Data**

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-801

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6816801
County	Comal
River Basin	Guadalupe
Groundwater Management Area	10
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.7867694
Latitude (degrees minutes seconds)	29° 47' 12.37" N
Longitude (decimal degrees)	-98.0528694
Longitude (degrees minutes seconds)	098° 03' 10.33" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	793
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	210
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	GCD Current Sensor
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Bertram Jentsch
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	Jentsch
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	6/9/1999
Last Update Date	8/22/2024

Remarks	Originally drilled for Ray Jentsch.

Casing

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

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

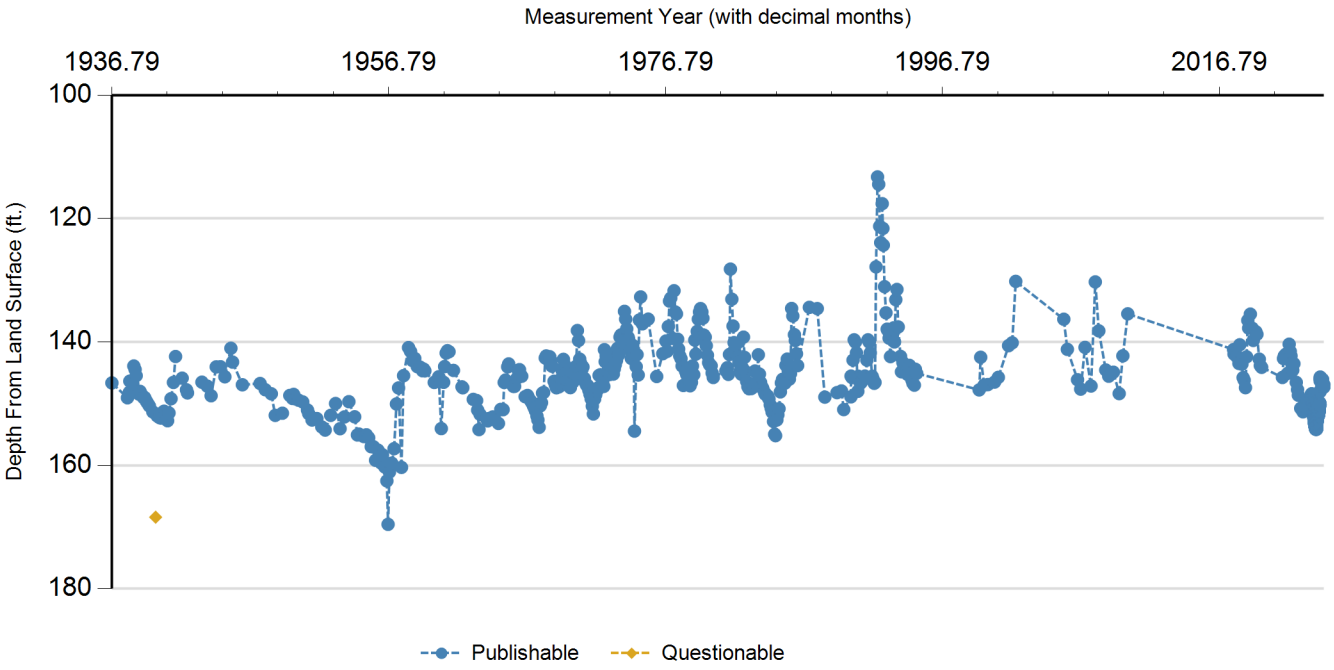
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/20/1936		146.64		646.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/6/1937		149.05	2.41	643.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/21/1938		148.16	(0.89)	644.84	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/2/1938		146.35	(1.81)	646.65	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/30/1938		146.63	0.28	646.37	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/22/1938		146.78	0.15	646.22	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/18/1938		143.9	(2.88)	649.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/22/1938		144.47	0.57	648.53	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/20/1938		145.47	1.00	647.53	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/28/1938		148.44	2.97	644.56	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/2/1938		148.01	(0.43)	644.99	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/13/1938		148.51	0.50	644.49	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/24/1939		149	0.49	644	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/28/1939		149	0.00	644	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/28/1939		149.42	0.42	643.58	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/22/1939		149.69	0.27	643.31	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/26/1939		150	0.31	643	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/3/1939		150.38	0.38	642.62	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/5/1939		151.34	0.96	641.66	1	Texas Commission on Environmental Quality	Steel Tape		
Q	12/18/1939		168.4	17.06	624.6	1	Texas Commission on Environmental Quality	Steel Tape	2	
P	1/23/1940		151.98	(16.42)	641.02	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/27/1940		152.09	0.11	640.91	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/22/1940		152.24	0.15	640.76	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/29/1940		152.33	0.09	640.67	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/24/1940		152.25	(0.08)	640.75	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/1/1940		151.35	(0.90)	641.65	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/26/1940		151.22	(0.13)	641.78	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/27/1940		151.9	0.68	641.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/27/1940		152.57	0.67	640.43	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/29/1940		152.77	0.20	640.23	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/5/1940		151.51	(1.26)	641.49	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/24/1941		149.2	(2.31)	643.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/27/1941		146.56	(2.64)	646.44	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/23/1941		142.36	(4.20)	650.64	1	Texas Commission on Environmental Quality	Steel Tape		
X	8/8/1941					1	Texas Commission on Environmental Quality		19	
P	11/18/1941		145.87		647.13	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/6/1942		147.76	1.89	645.24	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/3/1942		148.26	0.50	644.74	1	Texas Commission on Environmental Quality	Steel Tape		
X	8/7/1942					1	Texas Commission on Environmental Quality		19	
X	12/4/1942					1	Texas Commission on Environmental Quality		19	
P	4/19/1943		146.52		646.48	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	9/10/1943		147.17	0.65	645.83	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/20/1943		148.72	1.55	644.28	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/30/1944		144.04	(4.68)	648.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/23/1944		144.02	(0.02)	648.98	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/18/1944		145.64	1.62	647.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/22/1945		141.02	(4.62)	651.98	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/6/1945		143.26	2.24	649.74	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/20/1946		146.94	3.68	646.06	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/2/1947		146.73	(0.21)	646.27	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/19/1947		147.74	1.01	645.26	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/23/1948		148.4	0.66	644.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/6/1948		151.9	3.50	641.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/10/1949		151.55	(0.35)	641.45	1	Texas Commission on Environmental Quality	Steel Tape		
X	4/18/1949					1	Texas Commission on Environmental Quality		19	
P	8/25/1949		148.67		644.33	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/10/1949		148.75	0.08	644.25	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/8/1949		149.16	0.41	643.84	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/7/1949		148.5	(0.66)	644.5	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/23/1950		149.22	0.72	643.78	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/10/1950		149.43	0.21	643.57	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/1/1950		149.72	0.29	643.28	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/7/1950		151.03	1.31	641.97	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/5/1951		151.64	0.61	641.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/2/1951		152.65	1.01	640.35	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/8/1951		152.42	(0.23)	640.58	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/19/1951		153.78	1.36	639.22	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/13/1952		154.28	0.50	638.72	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/8/1952		151.9	(2.38)	641.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/17/1952		149.98	(1.92)	643.02	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/10/1953		154.06	4.08	638.94	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/6/1953		152.15	(1.91)	640.85	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/2/1953		149.68	(2.47)	643.32	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/30/1954		152.13	2.45	640.87	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/13/1954		155.07	2.94	637.93	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/23/1954		154.93	(0.14)	638.07	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/7/1954		155.24	0.31	637.76	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/5/1955		155.34	0.10	637.66	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/4/1955		155.05	(0.29)	637.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/4/1955		155.53	0.48	637.47	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/12/1955		156.98	1.45	636.02	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/13/1955		156.99	0.01	636.01	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/7/1955		159.18	2.19	633.82	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/6/1956		157.54	(1.64)	635.46	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/24/1956		159.61	2.07	633.39	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/4/1956		158.29	(1.32)	634.71	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/5/1956		160.27	1.98	632.73	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/29/1956		162.52	2.25	630.48	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/1/1956		169.56	7.04	623.44	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/7/1956		161.09	(8.47)	631.91	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/3/1957		159.64	(1.45)	633.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/4/1957		157.3	(2.34)	635.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/7/1957		150.05	(7.25)	642.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/2/1957		147.45	(2.60)	645.55	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/19/1957		160.33	12.88	632.67	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/15/1957		145.46	(14.87)	647.54	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/20/1958		140.91	(4.55)	652.09	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/14/1958		141.54	0.63	651.46	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/1/1958		143.01	1.47	649.99	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/5/1958		142.67	(0.34)	650.33	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/12/1958		144	1.33	649	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/20/1959		144.08	0.08	648.92	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/26/1959		144.67	0.59	648.33	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/27/1959		144.41	(0.26)	648.59	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/26/1959		144.68	0.27	648.32	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/28/1960		146.56	1.88	646.44	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/22/1960		146.47	(0.09)	646.53	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/26/1960		145.64	(0.83)	647.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/4/1960		154.04	8.40	638.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/6/1960		146.54	(7.50)	646.46	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/2/1960		143.99	(2.55)	649.01	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/12/1960		141.8	(2.19)	651.2	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/10/1961		141.42	(0.38)	651.58	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/23/1961		141.58	0.16	651.42	1	Texas Commission on Environmental Quality	Steel Tape		
X	4/26/1961					1	Texas Commission on Environmental Quality		19	
P	6/20/1961		144.61		648.39	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/29/1962		147.28	2.67	645.72	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/20/1962		147.43	0.15	645.57	1	Texas Commission on Environmental Quality	Steel Tape		
X	5/23/1962					1	Texas Commission on Environmental Quality		19	
P	11/27/1962		149.31		643.69	1	Texas Commission on Environmental Quality	Steel Tape		
X	12/18/1962					1	Texas Commission on Environmental Quality		19	
P	2/21/1963		149.5		643.5	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/18/1963		151.04	1.54	641.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/23/1963		154.2	3.16	638.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/22/1963		151.75	(2.45)	641.25	1	Texas Commission on Environmental Quality	Steel Tape		
X	6/19/1963					1	Texas Commission on Environmental Quality		19	
X	7/25/1963					1	Texas Commission on Environmental Quality		19	
X	8/23/1963					1	Texas Commission on Environmental Quality		19	
X	9/26/1963					1	Texas Commission on Environmental Quality		19	
X	10/21/1963					1	Texas Commission on Environmental Quality		19	
P	11/20/1963		152.49		640.51	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/16/1963		152.79	0.30	640.21	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/24/1964		152.4	(0.39)	640.6	1	Texas Commission on Environmental Quality	Steel Tape		
X	2/18/1964					1	Texas Commission on Environmental Quality		19	
X	3/24/1964					1	Texas Commission on Environmental Quality		19	
P	4/20/1964		152.16		640.84	1	Texas Commission on Environmental Quality	Steel Tape		
X	5/18/1964					1	Texas Commission on Environmental Quality		19	
X	7/21/1964					1	Texas Commission on Environmental Quality		19	
X	8/18/1964					1	Texas Commission on Environmental Quality		19	
P	9/21/1964		153.2		639.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/23/1964		150.93	(2.27)	642.07	1	Texas Commission on Environmental Quality	Steel Tape		
X	12/18/1964					1	Texas Commission on Environmental Quality		19	
P	1/19/1965		150.97		642.03	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/17/1965		146.56	(4.41)	646.44	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/22/1965		146.17	(0.39)	646.83	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/19/1965		146.36	0.19	646.64	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/19/1965		144.03	(2.33)	648.97	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/16/1965		143.56	(0.47)	649.44	1	Texas Commission on Environmental Quality	Steel Tape		
X	7/19/1965					1	Texas Commission on Environmental Quality		19	

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
X	8/26/1965					1	Texas Commission on Environmental Quality		19	
X	9/21/1965					1	Texas Commission on Environmental Quality		19	
P	10/21/1965		147.2		645.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/22/1965		147.19	(0.01)	645.81	1	Texas Commission on Environmental Quality	Steel Tape		
X	12/27/1965					1	Texas Commission on Environmental Quality		19	
P	1/24/1966		145.84		647.16	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/23/1966		144.6	(1.24)	648.4	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/25/1966		144.49	(0.11)	648.51	1	Texas Commission on Environmental Quality	Steel Tape		
X	4/21/1966					1	Texas Commission on Environmental Quality		19	
P	5/24/1966		145.55		647.45	1	Texas Commission on Environmental Quality	Steel Tape		
X	6/27/1966					1	Texas Commission on Environmental Quality		19	
P	8/25/1966		148.87		644.13	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/26/1966		148.67	(0.20)	644.33	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/28/1966		149.1	0.43	643.9	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/25/1967		149.64	0.54	643.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/27/1967		149.94	0.30	643.06	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/29/1967		150.37	0.43	642.63	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/25/1967		150.75	0.38	642.25	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/23/1967		151.2	0.45	641.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/30/1967		152	0.80	641	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/26/1967		152.64	0.64	640.36	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/28/1967		153.84	1.20	639.16	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/29/1967		150.36	(3.48)	642.64	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/31/1967		149.84	(0.52)	643.16	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/28/1967		148.29	(1.55)	644.71	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/27/1967		148.19	(0.10)	644.81	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/5/1968		142.6	(5.59)	650.4	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	2/29/1968		142.27	(0.33)	650.73	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/29/1968		142.4	0.13	650.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/3/1968		142.98	0.58	650.02	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/4/1968		142.4	(0.58)	650.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/3/1968		142.97	0.57	650.03	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/31/1968		143.92	0.95	649.08	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/27/1968		146.37	2.45	646.63	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/31/1968		146.96	0.59	646.04	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/29/1968		147.43	0.47	645.57	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/30/1968		147.26	(0.17)	645.74	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/3/1969		147.27	0.01	645.73	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/28/1969		146.65	(0.62)	646.35	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/29/1969		145.93	(0.72)	647.07	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/30/1969		144.7	(1.23)	648.3	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/29/1969		142.82	(1.88)	650.18	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/2/1969		143.69	0.87	649.31	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/1/1969		145.17	1.48	647.83	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/29/1969		146.44	1.27	646.56	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/1/1969		147.03	0.59	645.97	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/30/1969		147.17	0.14	645.83	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/1/1969		147.4	0.23	645.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/2/1970		146.56	(0.84)	646.44	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/4/1970		146.51	(0.05)	646.49	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/3/1970		145.06	(1.45)	647.94	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/1/1970		143.94	(1.12)	649.06	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/2/1970		138.15	(5.79)	654.85	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/2/1970		139.77	1.62	653.23	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/3/1970		142.78	3.01	650.22	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/25/1970		143.42	0.64	649.58	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/1/1970		144.47	1.05	648.53	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/29/1970		144.05	(0.42)	648.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/7/1970		145.91	1.86	647.09	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/30/1970		146.55	0.64	646.45	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/29/1971		147.02	0.47	645.98	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/1/1971		147.09	0.07	645.91	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/2/1971		147.87	0.78	645.13	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/29/1971		148.5	0.63	644.5	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/1/1971		149.23	0.73	643.77	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/30/1971		150.4	1.17	642.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/28/1971		151.67	1.27	641.33	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/1/1971		149.26	(2.41)	643.74	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/29/1971		148.57	(0.69)	644.43	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/2/1971		147.92	(0.65)	645.08	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/24/1971		147.46	(0.46)	645.54	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/29/1971		145.42	(2.04)	647.58	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/31/1972		145.31	(0.11)	647.69	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/1/1972		149.1	3.79	643.9	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/1/1972		145.75	(3.35)	647.25	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/30/1972		146.36	0.61	646.64	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/28/1972		147.2	0.84	645.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/15/1972		141.25	(5.95)	651.75	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/5/1972		143.2	1.95	649.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/30/1972		142.27	(0.93)	650.73	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/31/1972		144.49	2.22	648.51	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/2/1972		145.27	0.78	647.73	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/2/1972		145.04	(0.23)	647.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/30/1972		144.8	(0.24)	648.2	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/4/1973		145.2	0.40	647.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/29/1973		144.35	(0.85)	648.65	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/7/1973		143.9	(0.45)	649.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/26/1973		143.68	(0.22)	649.32	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/27/1973		143	(0.68)	650	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/18/1973		141.3	(1.70)	651.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/26/1973		141.04	(0.26)	651.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/30/1973		142.06	1.02	650.94	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/30/1973		139.2	(2.86)	653.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/24/1973		138.87	(0.33)	654.13	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/25/1973		139.01	0.14	653.99	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/29/1973		140.07	1.06	652.93	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/28/1973		138.75	(1.32)	654.25	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/29/1973		135.04	(3.71)	657.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/29/1973		136.3	1.26	656.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/28/1973		137.87	1.57	655.13	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/31/1974		139.23	1.36	653.77	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/12/1974		139.56	0.33	653.44	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/25/1974		141.32	1.76	651.68	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/24/1974		142.68	1.36	650.32	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/30/1974		140.54	(2.14)	652.46	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/28/1974		142.02	1.48	650.98	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/17/1974		154.45	12.43	638.55	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/3/1974		144	(10.45)	649	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	9/25/1974		142.05	(1.95)	650.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/25/1974		145.36	3.31	647.64	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/25/1974		136.44	(8.92)	656.56	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/30/1974		132.7	(3.74)	660.3	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/11/1975		137.06	4.36	655.94	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/14/1975		136.3	(0.76)	656.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/23/1976		145.6	9.30	647.4	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/3/1976		141.9	(3.70)	651.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/26/1976		139.85	(2.05)	653.15	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/29/1976		141.52	1.67	651.48	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/30/1976		137.5	(4.02)	655.5	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/25/1977		133.38	(4.12)	659.62	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/28/1977		132.9	(0.48)	660.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/27/1977		139.45	6.55	653.55	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/25/1977		131.7	(7.75)	661.3	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/30/1977		135.15	3.45	657.85	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/29/1977		135.45	0.30	657.55	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/30/1977		139.55	4.10	653.45	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/26/1977		141.15	1.60	651.85	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/25/1977		142.25	1.10	650.75	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/28/1977		142.7	0.45	650.3	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/28/1977		143.9	1.20	649.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/25/1978		147.05	3.15	645.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/22/1978		144.05	(3.00)	648.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/28/1978		144.8	0.75	648.2	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/25/1978		145.3	0.50	647.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/31/1978		145.85	0.55	647.15	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	6/27/1978		147	1.15	646	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/24/1978		147.1	0.10	645.9	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/28/1978		146.55	(0.55)	646.45	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/25/1978		143.9	(2.65)	649.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/30/1978		145.3	1.40	647.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/27/1978		139.7	(5.60)	653.3	1	Well Owner or Operator	Steel Tape		
P	12/26/1978		141.96	2.26	651.04	1	Well Owner or Operator	Steel Tape		
P	1/26/1979		138.28	(3.68)	654.72	1	Well Owner or Operator	Steel Tape		
P	2/26/1979		136.31	(1.97)	656.69	1	Well Owner or Operator	Steel Tape		
P	3/26/1979		135.14	(1.17)	657.86	1	Well Owner or Operator	Steel Tape		
P	4/24/1979		134.59	(0.55)	658.41	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/29/1979		135.14	0.55	657.86	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/26/1979		136.15	1.01	656.85	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/25/1979		138.9	2.75	654.1	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/27/1979		139.21	0.31	653.79	1	Well Owner or Operator	Steel Tape		
P	9/25/1979		140.61	1.40	652.39	1	Well Owner or Operator	Steel Tape		
P	10/25/1979		142.15	1.54	650.85	1	Well Owner or Operator	Steel Tape		
P	11/27/1979		143.34	1.19	649.66	1	Groundwater Conservation District	Steel Tape		
P	12/26/1979		143.73	0.39	649.27	1	Groundwater Conservation District	Steel Tape		
P	1/28/1980		143.86	0.13	649.14	1	Groundwater Conservation District	Steel Tape		
P	2/25/1980		145.04	1.18	647.96	1	Groundwater Conservation District	Steel Tape		
P	3/24/1980		145.76	0.72	647.24	1	Groundwater Conservation District	Steel Tape		
P	2/23/1981		144.66	(1.10)	648.34	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/30/1981		144.17	(0.49)	648.83	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/27/1981		145.25	1.08	647.75	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/26/1981		142.03	(3.22)	650.97	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/22/1981		128.19	(13.84)	664.81	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/29/1981		133.07	4.88	659.93	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/31/1981		137.42	4.35	655.58	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/28/1981		140.11	2.69	652.89	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/26/1981		141.72	1.61	651.28	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/30/1981		140.32	(1.40)	652.68	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/4/1982		142.45	2.13	650.55	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/29/1982		143.31	0.86	649.69	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/9/1982		144.65	1.34	648.35	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/5/1982		145.23	0.58	647.77	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/6/1982		144.22	(1.01)	648.78	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/31/1982		139.22	(5.00)	653.78	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/28/1982		142.5	3.28	650.5	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/26/1982		144.82	2.32	648.18	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/25/1982		146.4	1.58	646.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/27/1982		147.25	0.85	645.75	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/27/1982		147.58	0.33	645.42	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/10/1982		147.49	(0.09)	645.51	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/28/1982		147.55	0.06	645.45	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/24/1983		147.39	(0.16)	645.61	1	Other or Source of Measurement Unknown	Steel Tape		
P	2/25/1983		147.24	(0.15)	645.76	1	Other or Source of Measurement Unknown	Steel Tape		
P	3/28/1983		144.71	(2.53)	648.29	1	Other or Source of Measurement Unknown	Steel Tape		
P	4/25/1983		146.74	2.03	646.26	1	Other or Source of Measurement Unknown	Steel Tape		
P	5/27/1983		145.12	(1.62)	647.88	1	Other or Source of Measurement Unknown	Steel Tape		
P	6/27/1983		142.08	(3.04)	650.92	1	Other or Source of Measurement Unknown	Steel Tape		
P	7/26/1983		145.2	3.12	647.8	1	Other or Source of Measurement Unknown	Steel Tape		
P	8/26/1983		146.56	1.36	646.44	1	Other or Source of Measurement Unknown	Steel Tape		
P	10/5/1983		147.3	0.74	645.7	1	Other or Source of Measurement Unknown	Steel Tape		
P	10/25/1983		147.56	0.26	645.44	1	Other or Source of Measurement Unknown	Steel Tape		
P	12/13/1983		148.2	0.64	644.8	1	Other or Source of Measurement Unknown	Steel Tape		
P	12/29/1983		148.47	0.27	644.53	1	Other or Source of Measurement Unknown	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/31/1984		148.63	0.16	644.37	1	Other or Source of Measurement Unknown	Steel Tape		
P	2/28/1984		148.75	0.12	644.25	1	Other or Source of Measurement Unknown	Steel Tape		
P	4/3/1984		149.26	0.51	643.74	1	Other or Source of Measurement Unknown	Steel Tape		
P	5/7/1984		150.2	0.94	642.8	1	Other or Source of Measurement Unknown	Steel Tape		
P	5/31/1984		150.74	0.54	642.26	1	Other or Source of Measurement Unknown	Steel Tape		
P	6/26/1984		151.38	0.64	641.62	1	Other or Source of Measurement Unknown	Steel Tape		
P	8/3/1984		152.9	1.52	640.1	1	Other or Source of Measurement Unknown	Steel Tape		
P	9/4/1984		154.95	2.05	638.05	1	Other or Source of Measurement Unknown	Steel Tape		
P	9/27/1984		155.19	0.24	637.81	1	Other or Source of Measurement Unknown	Steel Tape		
P	11/1/1984		152.64	(2.55)	640.36	1	Other or Source of Measurement Unknown	Steel Tape		
P	11/27/1984		151.8	(0.84)	641.2	1	Other or Source of Measurement Unknown	Steel Tape		
P	12/28/1984		150.82	(0.98)	642.18	1	Other or Source of Measurement Unknown	Steel Tape		
P	1/28/1985		148.09	(2.73)	644.91	1	Other or Source of Measurement Unknown	Steel Tape		
P	2/25/1985		146.65	(1.44)	646.35	1	Other or Source of Measurement Unknown	Steel Tape		
P	3/25/1985		146.06	(0.59)	646.94	1	Other or Source of Measurement Unknown	Steel Tape		
P	4/29/1985		146.66	0.60	646.34	1	Other or Source of Measurement Unknown	Steel Tape		
P	5/29/1985		146.68	0.02	646.32	1	Other or Source of Measurement Unknown	Steel Tape		
P	6/24/1985		143.78	(2.90)	649.22	1	Other or Source of Measurement Unknown	Steel Tape		
P	7/30/1985		142.78	(1.00)	650.22	1	Other or Source of Measurement Unknown	Steel Tape		
P	8/27/1985		144.75	1.97	648.25	1	Other or Source of Measurement Unknown	Steel Tape		
P	9/25/1985		146.03	1.28	646.97	1	Other or Source of Measurement Unknown	Steel Tape		
P	10/25/1985		145.13	(0.90)	647.87	1	Other or Source of Measurement Unknown	Steel Tape		
P	11/25/1985		134.57	(10.56)	658.43	1	Other or Source of Measurement Unknown	Steel Tape		
P	12/27/1985		135.79	1.22	657.21	1	Other or Source of Measurement Unknown	Steel Tape		
P	2/4/1986		138.82	3.03	654.18	1	Other or Source of Measurement Unknown	Steel Tape		
P	2/27/1986		139.77	0.95	653.23	1	Other or Source of Measurement Unknown	Steel Tape		
P	3/27/1986		141.92	2.15	651.08	1	Other or Source of Measurement Unknown	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	4/28/1986		143.83	1.91	649.17	1	Other or Source of Measurement Unknown	Steel Tape		
P	3/2/1987		134.39	(9.44)	658.61	1	Groundwater Conservation District	Steel Tape		
P	10/1/1987		134.59	0.20	658.41	1	Groundwater Conservation District	Steel Tape		
P	4/15/1988		148.94	14.35	644.06	1	Groundwater Conservation District	Steel Tape		
P	3/1/1989		148.21	(0.73)	644.79	1	Groundwater Conservation District	Steel Tape		
P	6/29/1989		147.94	(0.27)	645.06	1	Groundwater Conservation District	Steel Tape		
P	8/29/1989		150.96	3.02	642.04	1	Groundwater Conservation District	Steel Tape		
P	3/3/1990		148.9	(2.06)	644.1	1	Groundwater Conservation District	Steel Tape		
P	3/6/1990		145.53	(3.37)	647.47	1	Groundwater Conservation District	Steel Tape		
P	4/1/1990		145.78	0.25	647.22	1	Groundwater Conservation District	Steel Tape		
P	4/29/1990		142.94	(2.84)	650.06	1	Groundwater Conservation District	Steel Tape		
P	5/29/1990		139.65	(3.29)	653.35	1	Groundwater Conservation District	Steel Tape		
P	7/1/1990		140.03	0.38	652.97	1	Groundwater Conservation District	Steel Tape		
P	7/29/1990		141.77	1.74	651.23	1	Groundwater Conservation District	Steel Tape		
P	9/5/1990		148	6.23	645	1	Groundwater Conservation District	Steel Tape		
P	9/17/1990		145.56	(2.44)	647.44	1	Groundwater Conservation District	Steel Tape		
P	10/9/1990		145.96	0.40	647.04	1	Groundwater Conservation District	Steel Tape		
P	11/12/1990		146.7	0.74	646.3	1	Groundwater Conservation District	Steel Tape		
P	12/4/1990		146.56	(0.14)	646.44	1	Groundwater Conservation District	Steel Tape		
P	3/6/1991		145.53	(1.03)	647.47	1	Groundwater Conservation District	Steel Tape		
P	4/1/1991		145.78	0.25	647.22	1	Groundwater Conservation District	Steel Tape		
P	4/29/1991		142.94	(2.84)	650.06	1	Groundwater Conservation District	Steel Tape		
P	5/29/1991		139.65	(3.29)	653.35	1	Groundwater Conservation District	Steel Tape		
P	7/1/1991		140.03	0.38	652.97	1	Groundwater Conservation District	Steel Tape		
P	7/29/1991		141.77	1.74	651.23	1	Groundwater Conservation District	Steel Tape		
P	9/17/1991		145.56	3.79	647.44	1	Groundwater Conservation District	Steel Tape		
P	10/9/1991		145.96	0.40	647.04	1	Groundwater Conservation District	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/12/1991		146.7	0.74	646.3	1	Groundwater Conservation District	Steel Tape		
P	12/4/1991		146.56	(0.14)	646.44	1	Groundwater Conservation District	Steel Tape		
P	12/31/1991		127.83	(18.73)	665.17	1	Groundwater Conservation District	Steel Tape		
P	2/5/1992		113.25	(14.58)	679.75	1	Groundwater Conservation District	Steel Tape		
P	3/5/1992		114.45	1.20	678.55	1	Groundwater Conservation District	Steel Tape		
P	4/2/1992		121.24	6.79	671.76	1	Groundwater Conservation District	Steel Tape		
P	4/28/1992		123.9	2.66	669.1	1	Groundwater Conservation District	Steel Tape		
P	6/8/1992		117.59	(6.31)	675.41	1	Groundwater Conservation District	Steel Tape		
P	6/26/1992		121.6	4.01	671.4	1	Groundwater Conservation District	Steel Tape		
P	7/7/1992		124.31	2.71	668.69	1	Groundwater Conservation District	Steel Tape		
P	8/10/1992		131.04	6.73	661.96	1	Groundwater Conservation District	Steel Tape		
P	9/17/1992		135.28	4.24	657.72	1	Groundwater Conservation District	Steel Tape		
P	10/19/1992		137.92	2.64	655.08	1	Groundwater Conservation District	Steel Tape		
P	11/3/1992		138.1	0.18	654.9	1	Groundwater Conservation District	Steel Tape		
P	12/10/1992		139.39	1.29	653.61	1	Groundwater Conservation District	Steel Tape		
P	1/12/1993		142.37	2.98	650.63	1	Groundwater Conservation District	Steel Tape		
P	2/5/1993		139.4	(2.97)	653.6	1	Groundwater Conservation District	Steel Tape		
P	3/1/1993		138.85	(0.55)	654.15	1	Groundwater Conservation District	Steel Tape		
P	4/5/1993		137.72	(1.13)	655.28	1	Groundwater Conservation District	Steel Tape		
P	4/27/1993		139.99	2.27	653.01	1	Groundwater Conservation District	Steel Tape		
P	5/31/1993		133.15	(6.84)	659.85	1	Groundwater Conservation District	Steel Tape		
P	7/2/1993		131.49	(1.66)	661.51	1	Groundwater Conservation District	Steel Tape		
P	8/5/1993		137.57	6.08	655.43	1	Groundwater Conservation District	Steel Tape		
P	10/6/1993		142.34	4.77	650.66	1	Groundwater Conservation District	Steel Tape		
P	11/1/1993		144.84	2.50	648.16	1	Groundwater Conservation District	Steel Tape		
P	12/9/1993		143.34	(1.50)	649.66	1	Groundwater Conservation District	Steel Tape		
P	1/4/1994		143.86	0.52	649.14	1	Groundwater Conservation District	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	2/2/1994		144.39	0.53	648.61	1	Groundwater Conservation District	Steel Tape		
P	3/1/1994		144.75	0.36	648.25	1	Groundwater Conservation District	Steel Tape		
P	4/7/1994		145.26	0.51	647.74	1	Groundwater Conservation District	Steel Tape		
P	5/3/1994		145.21	(0.05)	647.79	1	Groundwater Conservation District	Steel Tape		
P	5/26/1994		143.79	(1.42)	649.21	1	Groundwater Conservation District	Steel Tape		
P	6/28/1994		144.45	0.66	648.55	1	Groundwater Conservation District	Steel Tape		
P	8/2/1994		146.18	1.73	646.82	1	Groundwater Conservation District	Steel Tape		
P	8/31/1994		146.73	0.55	646.27	1	Groundwater Conservation District	Steel Tape		
P	10/5/1994		147	0.27	646	1	Groundwater Conservation District	Steel Tape		
P	11/2/1994		144.42	(2.58)	648.58	1	Groundwater Conservation District	Steel Tape		
P	12/7/1994		145.08	0.66	647.92	1	Groundwater Conservation District	Steel Tape		
P	6/9/1999		147.77	2.69	645.23	1	Texas Water Development Board	Steel Tape		
P	7/19/1999		142.48	(5.29)	650.52	1	Texas Water Development Board	Steel Tape		
P	10/21/1999		146.98	4.50	646.02	1	Texas Water Development Board	Steel Tape		
P	1/24/2000		146.91	(0.07)	646.09	1	Texas Water Development Board	Steel Tape		
P	7/21/2000		146.5	(0.41)	646.5	1	Texas Water Development Board	Steel Tape		
P	10/30/2000		145.73	(0.77)	647.27	1	Texas Water Development Board	Steel Tape		
P	7/25/2001		140.6	(5.13)	652.4	1	Texas Water Development Board	Steel Tape		
P	10/30/2001		140.14	(0.46)	652.86	1	Texas Water Development Board	Steel Tape		
P	1/28/2002		130.18	(9.96)	662.82	1	Texas Water Development Board	Steel Tape		
P	7/20/2005		136.32	6.14	656.68	1	Groundwater Conservation District	Steel Tape		
P	10/24/2005		141.2	4.88	651.8	1	Groundwater Conservation District	Steel Tape		
P	7/17/2006		146.12	4.92	646.88	1	Groundwater Conservation District	Steel Tape		
P	10/11/2006		147.64	1.52	645.36	1	Groundwater Conservation District	Steel Tape		
P	1/29/2007		140.88	(6.76)	652.12	1	Groundwater Conservation District	Steel Tape		
P	7/9/2007		147.14	6.26	645.86	1	Groundwater Conservation District	Steel Tape		
P	10/31/2007		130.27	(16.87)	662.73	1	Groundwater Conservation District	Electric Line		
P	1/28/2008		138.2	7.93	654.8	1	Groundwater Conservation District	Steel Tape		
P	7/31/2008		144.54	6.34	648.46	1	Groundwater Conservation District	Steel Tape		
P	10/20/2008		145.55	1.01	647.45	1	Groundwater Conservation District	Steel Tape		
P	2/17/2009		144.9	(0.65)	648.1	1	Groundwater Conservation District	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	7/20/2009		148.37	3.47	644.63	1	Groundwater Conservation District	Steel Tape		
P	10/28/2009		142.25	(6.12)	650.75	1	Groundwater Conservation District	Steel Tape		
P	3/2/2010		135.44	(6.81)	657.56	1	Groundwater Conservation District	Steel Tape		
P	10/26/2017		141.23	5.79	651.77	1	Groundwater Conservation District	Electric Line		
P	11/8/2017		141.96	0.73	651.04	1	Groundwater Conservation District	Electric Line		
P	12/11/2017		141.83	(0.13)	651.17	1	Groundwater Conservation District	Electric Line		
P	1/10/2018		142.36	0.53	650.64	1	Groundwater Conservation District	Electric Line		
P	3/13/2018		143.48	1.12	649.52	1	Groundwater Conservation District	Electric Line		
P	4/4/2018		140.46	(3.02)	652.54	1	Groundwater Conservation District	Electric Line		
P	6/1/2018		143.59	3.13	649.41	1	Groundwater Conservation District	Electric Line		
P	7/3/2018		145.78	2.19	647.22	1	Groundwater Conservation District	Electric Line		
P	7/31/2018		146.2	0.42	646.8	1	Groundwater Conservation District	Electric Line		
P	9/5/2018		147.41	1.21	645.59	1	Groundwater Conservation District	Electric Line		
P	10/4/2018		142.41	(5.00)	650.59	1	Groundwater Conservation District	Electric Line		
P	11/6/2018		136.5	(5.91)	656.5	1	Groundwater Conservation District	Electric Line		
P	11/29/2018		137.76	1.26	655.24	1	Groundwater Conservation District	Electric Line		
P	1/8/2019		135.49	(2.27)	657.51	1	Groundwater Conservation District	Electric Line		
P	2/28/2019		137.77	2.28	655.23	1	Groundwater Conservation District	Electric Line		
P	3/26/2019		139.75	1.98	653.25	1	Groundwater Conservation District	Electric Line		
P	6/5/2019		138.34	(1.41)	654.66	1	Groundwater Conservation District	Electric Line		
P	7/2/2019		138.76	0.42	654.24	1	Groundwater Conservation District	Electric Line		
P	9/4/2019		142.79	4.03	650.21	1	Groundwater Conservation District	Electric Line		
P	10/1/2019		143.83	1.04	649.17	1	Groundwater Conservation District	Electric Line		
P	11/6/2019		144.11	0.28	648.89	1	Groundwater Conservation District	Electric Line		
P	5/5/2021	1030	145.75	1.64	647.25	1	Groundwater Conservation District	Electric Line		
P	6/2/2021	1323	142.69	(3.06)	650.31	1	Groundwater Conservation District	Electric Line		
P	6/24/2021	1150	142.26	(0.43)	650.74	1	Groundwater Conservation District	Electric Line		

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P	7/8/2021	1118	142.3	0.04	650.7	1	Groundwater Conservation District	Electric Line		
P	8/5/2021	0851	141.98	(0.32)	651.02	1	Groundwater Conservation District	Electric Line		
P	9/27/2021	1206	145.07	3.09	647.93	1	Groundwater Conservation District	Electric Line		
P	11/2/2021	1035	140.36	(4.71)	652.64	1	Groundwater Conservation District	Electric Line		
P	11/30/2021	1133	141.52	1.16	651.48	1	Groundwater Conservation District	Electric Line		
P	12/20/2021	1219	142.26	0.74	650.74	1	Groundwater Conservation District	Electric Line		
P	1/6/2022	0938	143.48	1.22	649.52	1	Groundwater Conservation District	Electric Line		
P	2/1/2022	1335	144.58	1.10	648.42	1	Groundwater Conservation District	Electric Line		
P	3/1/2022	1220	143.53	(1.05)	649.47	1	Groundwater Conservation District	Electric Line		
P	5/3/2022	1323	146.55	3.02	646.45	1	Groundwater Conservation District	Electric Line		
P	6/7/2022	0900	147.72	1.17	645.28	1	Groundwater Conservation District	Electric Line		
P	6/29/2022	0947	148.64	0.92	644.36	1	Groundwater Conservation District	Electric Line		
P	9/2/2022	0950	150.76	2.12	642.24	1	Groundwater Conservation District	Electric Line		
P	9/26/2022	1046	150.86	0.10	642.14	1	Groundwater Conservation District	Electric Line		
P	11/2/2022	0848	151.32	0.46	641.68	1	Groundwater Conservation District	Electric Line		
P	12/8/2022	1018	150.35	(0.97)	642.65	1	Groundwater Conservation District	Electric Line		
P	12/27/2022	1153	150.46	0.11	642.54	1	Groundwater Conservation District	Electric Line		
P	2/8/2023	1110	149.47	(0.99)	643.53	1	Groundwater Conservation District	Electric Line		
P	3/8/2023	0847	149.36	(0.11)	643.64	1	Groundwater Conservation District	Electric Line		
P	4/5/2023	0825	150.07	0.71	642.93	1	Groundwater Conservation District	Electric Line		
P	6/12/2023		148.61	(1.46)	644.39	1	Groundwater Conservation District	Transducer		
P	6/13/2023		148.43	(0.18)	644.57	1	Groundwater Conservation District	Transducer		
P	6/14/2023		148.41	(0.02)	644.59	1	Groundwater Conservation District	Transducer		
P	6/15/2023		148.45	0.04	644.55	1	Groundwater Conservation District	Transducer		
P	6/16/2023		148.51	0.06	644.49	1	Groundwater Conservation District	Transducer		
P	6/17/2023		148.49	(0.02)	644.51	1	Groundwater Conservation District	Transducer		
P	6/18/2023		148.51	0.02	644.49	1	Groundwater Conservation District	Transducer		

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P	6/19/2023		148.59	0.08	644.41	1	Groundwater Conservation District	Transducer		
P	6/20/2023		148.6	0.01	644.4	1	Groundwater Conservation District	Transducer		
P	6/21/2023		148.69	0.09	644.31	1	Groundwater Conservation District	Transducer		
P	6/22/2023		148.68	(0.01)	644.32	1	Groundwater Conservation District	Transducer		
P	6/23/2023		148.8	0.12	644.2	1	Groundwater Conservation District	Transducer		
P	6/24/2023		148.82	0.02	644.18	1	Groundwater Conservation District	Transducer		
P	6/25/2023		148.83	0.01	644.17	1	Groundwater Conservation District	Transducer		
P	6/26/2023		148.89	0.06	644.11	1	Groundwater Conservation District	Transducer		
P	6/27/2023		149	0.11	644	1	Groundwater Conservation District	Transducer		
P	6/28/2023		149.11	0.11	643.89	1	Groundwater Conservation District	Transducer		
P	6/29/2023		149.23	0.12	643.77	1	Groundwater Conservation District	Transducer		
P	6/30/2023		149.31	0.08	643.69	1	Groundwater Conservation District	Transducer		
P	7/1/2023		149.28	(0.03)	643.72	1	Groundwater Conservation District	Transducer		
P	7/2/2023		149.32	0.04	643.68	1	Groundwater Conservation District	Transducer		
P	7/3/2023		149.39	0.07	643.61	1	Groundwater Conservation District	Transducer		
P	7/4/2023		149.47	0.08	643.53	1	Groundwater Conservation District	Transducer		
P	7/5/2023		149.55	0.08	643.45	1	Groundwater Conservation District	Transducer		
P	7/6/2023		149.63	0.08	643.37	1	Groundwater Conservation District	Transducer		
P	7/7/2023		149.66	0.03	643.34	1	Groundwater Conservation District	Transducer		
P	7/8/2023		149.68	0.02	643.32	1	Groundwater Conservation District	Transducer		
P	7/9/2023		149.77	0.09	643.23	1	Groundwater Conservation District	Transducer		
P	7/10/2023		149.86	0.09	643.14	1	Groundwater Conservation District	Transducer		
P	7/11/2023		149.93	0.07	643.07	1	Groundwater Conservation District	Transducer		
P	7/12/2023		149.93	0.00	643.07	1	Groundwater Conservation District	Transducer		
P	7/13/2023		149.97	0.04	643.03	1	Groundwater Conservation District	Transducer		
P	7/14/2023		150.06	0.09	642.94	1	Groundwater Conservation District	Transducer		
P	7/15/2023		150.11	0.05	642.89	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	7/16/2023		150.13	0.02	642.87	1	Groundwater Conservation District	Transducer		
P	7/17/2023		150.21	0.08	642.79	1	Groundwater Conservation District	Transducer		
P	7/18/2023		150.3	0.09	642.7	1	Groundwater Conservation District	Transducer		
P	7/19/2023		150.38	0.08	642.62	1	Groundwater Conservation District	Transducer		
P	7/20/2023		150.45	0.07	642.55	1	Groundwater Conservation District	Transducer		
P	7/21/2023		150.55	0.10	642.45	1	Groundwater Conservation District	Transducer		
P	7/22/2023		150.57	0.02	642.43	1	Groundwater Conservation District	Transducer		
P	7/23/2023		150.64	0.07	642.36	1	Groundwater Conservation District	Transducer		
P	7/24/2023		150.72	0.08	642.28	1	Groundwater Conservation District	Transducer		
P	7/25/2023		150.77	0.05	642.23	1	Groundwater Conservation District	Transducer		
P	7/26/2023		150.85	0.08	642.15	1	Groundwater Conservation District	Transducer		
P	7/27/2023		150.92	0.07	642.08	1	Groundwater Conservation District	Transducer		
P	7/28/2023		151.01	0.09	641.99	1	Groundwater Conservation District	Transducer		
P	7/29/2023		151.03	0.02	641.97	1	Groundwater Conservation District	Transducer		
P	7/30/2023		151.07	0.04	641.93	1	Groundwater Conservation District	Transducer		
P	7/31/2023		151.14	0.07	641.86	1	Groundwater Conservation District	Transducer		
P	8/1/2023		151.23	0.09	641.77	1	Groundwater Conservation District	Transducer		
P	8/2/2023		151.3	0.07	641.7	1	Groundwater Conservation District	Transducer		
P	8/3/2023		151.35	0.05	641.65	1	Groundwater Conservation District	Transducer		
P	8/4/2023		151.43	0.08	641.57	1	Groundwater Conservation District	Transducer		
P	8/5/2023		151.5	0.07	641.5	1	Groundwater Conservation District	Transducer		
P	8/6/2023		151.58	0.08	641.42	1	Groundwater Conservation District	Transducer		
P	8/7/2023		151.7	0.12	641.3	1	Groundwater Conservation District	Transducer		
P	8/8/2023		151.75	0.05	641.25	1	Groundwater Conservation District	Transducer		
P	8/9/2023		151.8	0.05	641.2	1	Groundwater Conservation District	Transducer		
P	8/10/2023		151.9	0.10	641.1	1	Groundwater Conservation District	Transducer		
P	8/11/2023		151.96	0.06	641.04	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/12/2023		151.99	0.03	641.01	1	Groundwater Conservation District	Transducer		
P	8/13/2023		152.04	0.05	640.96	1	Groundwater Conservation District	Transducer		
P	8/14/2023		152.2	0.16	640.8	1	Groundwater Conservation District	Transducer		
P	8/15/2023		152.25	0.05	640.75	1	Groundwater Conservation District	Transducer		
P	8/16/2023		152.29	0.04	640.71	1	Groundwater Conservation District	Transducer		
P	8/17/2023		152.4	0.11	640.6	1	Groundwater Conservation District	Transducer		
P	8/18/2023		152.45	0.05	640.55	1	Groundwater Conservation District	Transducer		
P	8/19/2023		152.51	0.06	640.49	1	Groundwater Conservation District	Transducer		
P	8/20/2023		152.59	0.08	640.41	1	Groundwater Conservation District	Transducer		
P	8/21/2023		152.64	0.05	640.36	1	Groundwater Conservation District	Transducer		
P	8/22/2023		152.74	0.10	640.26	1	Groundwater Conservation District	Transducer		
P	8/23/2023		152.78	0.04	640.22	1	Groundwater Conservation District	Transducer		
P	8/24/2023		152.84	0.06	640.16	1	Groundwater Conservation District	Transducer		
P	8/25/2023		152.89	0.05	640.11	1	Groundwater Conservation District	Transducer		
P	8/26/2023		152.89	0.00	640.11	1	Groundwater Conservation District	Transducer		
P	8/27/2023		152.91	0.02	640.09	1	Groundwater Conservation District	Transducer		
P	8/28/2023		153	0.09	640	1	Groundwater Conservation District	Transducer		
P	8/29/2023		153.04	0.04	639.96	1	Groundwater Conservation District	Transducer		
P	8/30/2023		153.08	0.04	639.92	1	Groundwater Conservation District	Transducer		
P	8/31/2023		153.17	0.09	639.83	1	Groundwater Conservation District	Transducer		
P	9/1/2023		153.23	0.06	639.77	1	Groundwater Conservation District	Transducer		
P	9/2/2023		153.22	(0.01)	639.78	1	Groundwater Conservation District	Transducer		
P	9/3/2023		153.21	(0.01)	639.79	1	Groundwater Conservation District	Transducer		
P	9/4/2023		153.23	0.02	639.77	1	Groundwater Conservation District	Transducer		
P	9/5/2023		153.32	0.09	639.68	1	Groundwater Conservation District	Transducer		
P	9/6/2023		153.33	0.01	639.67	1	Groundwater Conservation District	Transducer		
P	9/7/2023		153.39	0.06	639.61	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	9/8/2023		153.44	0.05	639.56	1	Groundwater Conservation District	Transducer		
P	9/9/2023		153.45	0.01	639.55	1	Groundwater Conservation District	Transducer		
P	9/10/2023		153.45	0.00	639.55	1	Groundwater Conservation District	Transducer		
P	9/11/2023		153.46	0.01	639.54	1	Groundwater Conservation District	Transducer		
P	9/12/2023		153.59	0.13	639.41	1	Groundwater Conservation District	Transducer		
P	9/13/2023		153.6	0.01	639.4	1	Groundwater Conservation District	Transducer		
P	9/14/2023		153.66	0.06	639.34	1	Groundwater Conservation District	Transducer		
P	9/15/2023		153.73	0.07	639.27	1	Groundwater Conservation District	Transducer		
P	9/16/2023		153.71	(0.02)	639.29	1	Groundwater Conservation District	Transducer		
P	9/17/2023		153.69	(0.02)	639.31	1	Groundwater Conservation District	Transducer		
P	9/18/2023		153.7	0.01	639.3	1	Groundwater Conservation District	Transducer		
P	9/19/2023		153.72	0.02	639.28	1	Groundwater Conservation District	Transducer		
P	9/20/2023		153.76	0.04	639.24	1	Groundwater Conservation District	Transducer		
P	9/21/2023		153.85	0.09	639.15	1	Groundwater Conservation District	Transducer		
P	9/22/2023		153.89	0.04	639.11	1	Groundwater Conservation District	Transducer		
P	9/23/2023		153.89	0.00	639.11	1	Groundwater Conservation District	Transducer		
P	9/24/2023		153.92	0.03	639.08	1	Groundwater Conservation District	Transducer		
P	9/25/2023		153.91	(0.01)	639.09	1	Groundwater Conservation District	Transducer		
P	9/26/2023		153.97	0.06	639.03	1	Groundwater Conservation District	Transducer		
P	9/27/2023		153.99	0.02	639.01	1	Groundwater Conservation District	Transducer		
P	9/28/2023		153.96	(0.03)	639.04	1	Groundwater Conservation District	Transducer		
P	9/29/2023		154.01	0.05	638.99	1	Groundwater Conservation District	Transducer		
P	9/30/2023		154.14	0.13	638.86	1	Groundwater Conservation District	Transducer		
P	10/1/2023		154.13	(0.01)	638.87	1	Groundwater Conservation District	Transducer		
P	10/2/2023		154.11	(0.02)	638.89	1	Groundwater Conservation District	Transducer		
P	10/3/2023		154.08	(0.03)	638.92	1	Groundwater Conservation District	Transducer		
P	10/4/2023		154.14	0.06	638.86	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	10/5/2023		154.15	0.01	638.85	1	Groundwater Conservation District	Transducer		
P	10/6/2023		154.06	(0.09)	638.94	1	Groundwater Conservation District	Transducer		
P	10/7/2023		154.04	(0.02)	638.96	1	Groundwater Conservation District	Transducer		
P	10/8/2023		153.96	(0.08)	639.04	1	Groundwater Conservation District	Transducer		
P	10/9/2023		153.98	0.02	639.02	1	Groundwater Conservation District	Transducer		
P	10/10/2023		154.04	0.06	638.96	1	Groundwater Conservation District	Transducer		
P	10/11/2023		154.02	(0.02)	638.98	1	Groundwater Conservation District	Transducer		
P	10/12/2023		154.03	0.01	638.97	1	Groundwater Conservation District	Transducer		
P	10/13/2023		154.07	0.04	638.93	1	Groundwater Conservation District	Transducer		
P	10/14/2023		154.13	0.06	638.87	1	Groundwater Conservation District	Transducer		
P	10/15/2023		154.1	(0.03)	638.9	1	Groundwater Conservation District	Transducer		
P	10/16/2023		154.11	0.01	638.89	1	Groundwater Conservation District	Transducer		
P	10/17/2023		154.13	0.02	638.87	1	Groundwater Conservation District	Transducer		
P	10/18/2023		154.12	(0.01)	638.88	1	Groundwater Conservation District	Transducer		
P	10/19/2023		154.16	0.04	638.84	1	Groundwater Conservation District	Transducer		
P	10/20/2023		154.15	(0.01)	638.85	1	Groundwater Conservation District	Transducer		
P	10/21/2023		154.09	(0.06)	638.91	1	Groundwater Conservation District	Transducer		
P	10/22/2023		154.07	(0.02)	638.93	1	Groundwater Conservation District	Transducer		
P	10/23/2023		154.11	0.04	638.89	1	Groundwater Conservation District	Transducer		
P	10/24/2023		154.11	0.00	638.89	1	Groundwater Conservation District	Transducer		
P	10/25/2023		154.1	(0.01)	638.9	1	Groundwater Conservation District	Transducer		
P	10/26/2023		153.91	(0.19)	639.09	1	Groundwater Conservation District	Transducer		
P	10/27/2023		153.68	(0.23)	639.32	1	Groundwater Conservation District	Transducer		
P	10/28/2023		153.34	(0.34)	639.66	1	Groundwater Conservation District	Transducer		
P	10/29/2023		153.23	(0.11)	639.77	1	Groundwater Conservation District	Transducer		
P	10/30/2023		153.13	(0.10)	639.87	1	Groundwater Conservation District	Transducer		
P	10/31/2023		152.98	(0.15)	640.02	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/1/2023		152.89	(0.09)	640.11	1	Groundwater Conservation District	Transducer		
P	11/2/2023		152.9	0.01	640.1	1	Groundwater Conservation District	Transducer		
P	11/3/2023		152.88	(0.02)	640.12	1	Groundwater Conservation District	Transducer		
P	11/4/2023		152.86	(0.02)	640.14	1	Groundwater Conservation District	Transducer		
P	11/5/2023		152.84	(0.02)	640.16	1	Groundwater Conservation District	Transducer		
P	11/6/2023		152.86	0.02	640.14	1	Groundwater Conservation District	Transducer		
P	11/7/2023		152.91	0.05	640.09	1	Groundwater Conservation District	Transducer		
P	11/8/2023		152.89	(0.02)	640.11	1	Groundwater Conservation District	Transducer		
P	11/9/2023		152.91	0.02	640.09	1	Groundwater Conservation District	Transducer		
P	11/10/2023		152.66	(0.25)	640.34	1	Groundwater Conservation District	Transducer		
P	11/11/2023		152.49	(0.17)	640.51	1	Groundwater Conservation District	Transducer		
P	11/12/2023		152.36	(0.13)	640.64	1	Groundwater Conservation District	Transducer		
P	11/13/2023		152.12	(0.24)	640.88	1	Groundwater Conservation District	Transducer		
P	11/14/2023		151.99	(0.13)	641.01	1	Groundwater Conservation District	Transducer		
P	11/15/2023		151.94	(0.05)	641.06	1	Groundwater Conservation District	Transducer		
P	11/16/2023		151.94	0.00	641.06	1	Groundwater Conservation District	Transducer		
P	11/17/2023		151.97	0.03	641.03	1	Groundwater Conservation District	Transducer		
P	11/18/2023		152.02	0.05	640.98	1	Groundwater Conservation District	Transducer		
P	11/19/2023		151.96	(0.06)	641.04	1	Groundwater Conservation District	Transducer		
P	11/20/2023		152.01	0.05	640.99	1	Groundwater Conservation District	Transducer		
P	11/21/2023		152.1	0.09	640.9	1	Groundwater Conservation District	Transducer		
P	11/22/2023		152.01	(0.09)	640.99	1	Groundwater Conservation District	Transducer		
P	11/23/2023		152	(0.01)	641	1	Groundwater Conservation District	Transducer		
P	11/24/2023		152.04	0.04	640.96	1	Groundwater Conservation District	Transducer		
P	11/25/2023		152.01	(0.03)	640.99	1	Groundwater Conservation District	Transducer		
P	11/26/2023		152.07	0.06	640.93	1	Groundwater Conservation District	Transducer		
P	11/27/2023		152.05	(0.02)	640.95	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	11/28/2023		152.05	0.00	640.95	1	Groundwater Conservation District	Transducer		
P	11/29/2023		151.99	(0.06)	641.01	1	Groundwater Conservation District	Transducer		
P	11/30/2023		151.99	0.00	641.01	1	Groundwater Conservation District	Transducer		
P	12/1/2023		152.08	0.09	640.92	1	Groundwater Conservation District	Transducer		
P	12/2/2023		152.03	(0.05)	640.97	1	Groundwater Conservation District	Transducer		
P	12/3/2023		152	(0.03)	641	1	Groundwater Conservation District	Transducer		
P	12/4/2023		151.96	(0.04)	641.04	1	Groundwater Conservation District	Transducer		
P	12/5/2023		151.97	0.01	641.03	1	Groundwater Conservation District	Transducer		
P	12/6/2023		151.93	(0.04)	641.07	1	Groundwater Conservation District	Transducer		
P	12/7/2023		151.87	(0.06)	641.13	1	Groundwater Conservation District	Transducer		
P	12/8/2023		151.88	0.01	641.12	1	Groundwater Conservation District	Transducer		
P	12/9/2023		151.99	0.11	641.01	1	Groundwater Conservation District	Transducer		
P	12/10/2023		151.88	(0.11)	641.12	1	Groundwater Conservation District	Transducer		
P	12/11/2023		151.89	0.01	641.11	1	Groundwater Conservation District	Transducer		
P	12/12/2023		151.91	0.02	641.09	1	Groundwater Conservation District	Transducer		
P	12/13/2023		151.9	(0.01)	641.1	1	Groundwater Conservation District	Transducer		
P	12/14/2023		151.85	(0.05)	641.15	1	Groundwater Conservation District	Transducer		
P	12/15/2023		151.83	(0.02)	641.17	1	Groundwater Conservation District	Transducer		
P	12/16/2023		151.7	(0.13)	641.3	1	Groundwater Conservation District	Transducer		
P	12/17/2023		151.61	(0.09)	641.39	1	Groundwater Conservation District	Transducer		
P	12/18/2023		151.66	0.05	641.34	1	Groundwater Conservation District	Transducer		
P	12/19/2023		151.59	(0.07)	641.41	1	Groundwater Conservation District	Transducer		
P	12/20/2023		151.59	0.00	641.41	1	Groundwater Conservation District	Transducer		
P	12/21/2023		151.58	(0.01)	641.42	1	Groundwater Conservation District	Transducer		
P	12/22/2023		151.58	0.00	641.42	1	Groundwater Conservation District	Transducer		
P	12/23/2023		151.5	(0.08)	641.5	1	Groundwater Conservation District	Transducer		
P	12/24/2023		151.42	(0.08)	641.58	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	12/25/2023		151.3	(0.12)	641.7	1	Groundwater Conservation District	Transducer		
P	12/26/2023		151.24	(0.06)	641.76	1	Groundwater Conservation District	Transducer		
P	12/27/2023		151.26	0.02	641.74	1	Groundwater Conservation District	Transducer		
P	12/28/2023		151.24	(0.02)	641.76	1	Groundwater Conservation District	Transducer		
P	12/29/2023		151.2	(0.04)	641.8	1	Groundwater Conservation District	Transducer		
P	12/30/2023		151.15	(0.05)	641.85	1	Groundwater Conservation District	Transducer		
P	12/31/2023		151.14	(0.01)	641.86	1	Groundwater Conservation District	Transducer		
P	1/1/2024		151.22	0.08	641.78	1	Groundwater Conservation District	Transducer		
P	1/2/2024		151.08	(0.14)	641.92	1	Groundwater Conservation District	Transducer		
P	1/3/2024		150.55	(0.53)	642.45	1	Groundwater Conservation District	Transducer		
P	1/4/2024		150.27	(0.28)	642.73	1	Groundwater Conservation District	Transducer		
P	1/5/2024		150.23	(0.04)	642.77	1	Groundwater Conservation District	Transducer		
P	1/6/2024		150.23	0.00	642.77	1	Groundwater Conservation District	Transducer		
P	1/7/2024		150.21	(0.02)	642.79	1	Groundwater Conservation District	Transducer		
P	1/8/2024		150.15	(0.06)	642.85	1	Groundwater Conservation District	Transducer		
P	1/9/2024		150.13	(0.02)	642.87	1	Groundwater Conservation District	Transducer		
P	1/10/2024		149.88	(0.25)	643.12	1	Groundwater Conservation District	Transducer		
P	1/11/2024		149.83	(0.05)	643.17	1	Groundwater Conservation District	Transducer		
P	1/12/2024		149.89	0.06	643.11	1	Groundwater Conservation District	Transducer		
P	1/13/2024		150.01	0.12	642.99	1	Groundwater Conservation District	Transducer		
P	1/14/2024		150.03	0.02	642.97	1	Groundwater Conservation District	Transducer		
P	1/15/2024		150.06	0.03	642.94	1	Groundwater Conservation District	Transducer		
P	1/16/2024		150.07	0.01	642.93	1	Groundwater Conservation District	Transducer		
P	1/17/2024		150.03	(0.04)	642.97	1	Groundwater Conservation District	Transducer		
P	1/18/2024		150.08	0.05	642.92	1	Groundwater Conservation District	Transducer		
P	1/19/2024		150.19	0.11	642.81	1	Groundwater Conservation District	Transducer		
P	1/20/2024		150.19	0.00	642.81	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/21/2024		150.16	(0.03)	642.84	1	Groundwater Conservation District	Transducer		
P	1/22/2024		148.07	(2.09)	644.93	1	Groundwater Conservation District	Transducer		
P	1/23/2024		147.92	(0.15)	645.08	1	Groundwater Conservation District	Transducer		
P	1/24/2024		146.33	(1.59)	646.67	1	Groundwater Conservation District	Transducer		
P	1/25/2024		145.68	(0.65)	647.32	1	Groundwater Conservation District	Transducer		
P	1/26/2024		145.78	0.10	647.22	1	Groundwater Conservation District	Transducer		
P	1/27/2024		145.92	0.14	647.08	1	Groundwater Conservation District	Transducer		
P	1/28/2024		146.01	0.09	646.99	1	Groundwater Conservation District	Transducer		
P	1/29/2024		146.05	0.04	646.95	1	Groundwater Conservation District	Transducer		
P	1/30/2024		146.06	0.01	646.94	1	Groundwater Conservation District	Transducer		
P	1/31/2024		146.1	0.04	646.9	1	Groundwater Conservation District	Transducer		
P	2/1/2024		146	(0.10)	647	1	Groundwater Conservation District	Transducer		
P	2/2/2024		146.13	0.13	646.87	1	Groundwater Conservation District	Transducer		
P	2/3/2024		145.93	(0.20)	647.07	1	Groundwater Conservation District	Transducer		
P	2/4/2024		145.91	(0.02)	647.09	1	Groundwater Conservation District	Transducer		
P	2/5/2024		145.85	(0.06)	647.15	1	Groundwater Conservation District	Transducer		
P	2/6/2024		145.81	(0.04)	647.19	1	Groundwater Conservation District	Transducer		
P	2/7/2024		145.82	0.01	647.18	1	Groundwater Conservation District	Transducer		
P	2/8/2024		145.87	0.05	647.13	1	Groundwater Conservation District	Transducer		
P	2/9/2024		145.88	0.01	647.12	1	Groundwater Conservation District	Transducer		
P	2/10/2024		145.88	0.00	647.12	1	Groundwater Conservation District	Transducer		
P	2/11/2024		145.9	0.02	647.1	1	Groundwater Conservation District	Transducer		
P	2/12/2024		146.01	0.11	646.99	1	Groundwater Conservation District	Transducer		
P	2/13/2024		146	(0.01)	647	1	Groundwater Conservation District	Transducer		
P	2/14/2024		146.02	0.02	646.98	1	Groundwater Conservation District	Transducer		
P	2/15/2024		146.04	0.02	646.96	1	Groundwater Conservation District	Transducer		
P	2/16/2024		146.05	0.01	646.95	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	2/17/2024		146.12	0.07	646.88	1	Groundwater Conservation District	Transducer		
P	2/18/2024		146.04	(0.08)	646.96	1	Groundwater Conservation District	Transducer		
P	2/19/2024		146.07	0.03	646.93	1	Groundwater Conservation District	Transducer		
P	2/20/2024		146.11	0.04	646.89	1	Groundwater Conservation District	Transducer		
P	2/21/2024		146.07	(0.04)	646.93	1	Groundwater Conservation District	Transducer		
P	2/22/2024		146.13	0.06	646.87	1	Groundwater Conservation District	Transducer		
P	2/23/2024		146.25	0.12	646.75	1	Groundwater Conservation District	Transducer		
P	2/24/2024		146.21	(0.04)	646.79	1	Groundwater Conservation District	Transducer		
P	2/25/2024		146.17	(0.04)	646.83	1	Groundwater Conservation District	Transducer		
P	2/26/2024		146.22	0.05	646.78	1	Groundwater Conservation District	Transducer		
P	2/27/2024		146.3	0.08	646.7	1	Groundwater Conservation District	Transducer		
P	2/28/2024		146.43	0.13	646.57	1	Groundwater Conservation District	Transducer		
P	2/29/2024		146.41	(0.02)	646.59	1	Groundwater Conservation District	Transducer		
P	3/1/2024		146.41	0.00	646.59	1	Groundwater Conservation District	Transducer		
P	3/2/2024		146.43	0.02	646.57	1	Groundwater Conservation District	Transducer		
P	3/3/2024		146.45	0.02	646.55	1	Groundwater Conservation District	Transducer		
P	3/4/2024		146.52	0.07	646.48	1	Groundwater Conservation District	Transducer		
P	3/5/2024		146.58	0.06	646.42	1	Groundwater Conservation District	Transducer		
P	3/6/2024		146.61	0.03	646.39	1	Groundwater Conservation District	Transducer		
P	3/7/2024		146.64	0.03	646.36	1	Groundwater Conservation District	Transducer		
P	3/8/2024		146.68	0.04	646.32	1	Groundwater Conservation District	Transducer		
P	3/9/2024		146.7	0.02	646.3	1	Groundwater Conservation District	Transducer		
P	3/10/2024		146.72	0.02	646.28	1	Groundwater Conservation District	Transducer		
P	3/11/2024		146.72	0.00	646.28	1	Groundwater Conservation District	Transducer		
P	3/12/2024		146.72	0.00	646.28	1	Groundwater Conservation District	Transducer		
P	3/13/2024		146.76	0.04	646.24	1	Groundwater Conservation District	Transducer		
P	3/14/2024		146.83	0.07	646.17	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	3/15/2024		146.91	0.08	646.09	1	Groundwater Conservation District	Transducer		
P	3/16/2024		146.87	(0.04)	646.13	1	Groundwater Conservation District	Transducer		
P	3/17/2024		146.65	(0.22)	646.35	1	Groundwater Conservation District	Transducer		
P	3/18/2024		146.48	(0.17)	646.52	1	Groundwater Conservation District	Transducer		
P	3/19/2024		146.28	(0.20)	646.72	1	Groundwater Conservation District	Transducer		
P	3/20/2024		146.25	(0.03)	646.75	1	Groundwater Conservation District	Transducer		
P	3/21/2024		146.27	0.02	646.73	1	Groundwater Conservation District	Transducer		
P	3/22/2024		146.23	(0.04)	646.77	1	Groundwater Conservation District	Transducer		
P	3/23/2024		146.14	(0.09)	646.86	1	Groundwater Conservation District	Transducer		
P	3/24/2024		146.05	(0.09)	646.95	1	Groundwater Conservation District	Transducer		
P	3/25/2024		146.13	0.08	646.87	1	Groundwater Conservation District	Transducer		
P	3/26/2024		146.28	0.15	646.72	1	Groundwater Conservation District	Transducer		
P	3/27/2024		146.38	0.10	646.62	1	Groundwater Conservation District	Transducer		
P	3/28/2024		146.39	0.01	646.61	1	Groundwater Conservation District	Transducer		
P	3/29/2024		146.43	0.04	646.57	1	Groundwater Conservation District	Transducer		
P	3/30/2024		146.5	0.07	646.5	1	Groundwater Conservation District	Transducer		
P	3/31/2024		146.51	0.01	646.49	1	Groundwater Conservation District	Transducer		
P	4/1/2024		146.56	0.05	646.44	1	Groundwater Conservation District	Transducer		
P	4/2/2024		146.7	0.14	646.3	1	Groundwater Conservation District	Transducer		
P	4/3/2024		146.68	(0.02)	646.32	1	Groundwater Conservation District	Transducer		
P	4/4/2024		146.74	0.06	646.26	1	Groundwater Conservation District	Transducer		
P	4/5/2024		146.8	0.06	646.2	1	Groundwater Conservation District	Transducer		
P	4/6/2024		146.82	0.02	646.18	1	Groundwater Conservation District	Transducer		
P	4/7/2024		146.87	0.05	646.13	1	Groundwater Conservation District	Transducer		
P	4/8/2024		146.91	0.04	646.09	1	Groundwater Conservation District	Transducer		
P	4/9/2024		146.93	0.02	646.07	1	Groundwater Conservation District	Transducer		
P	4/10/2024		146.99	0.06	646.01	1	Groundwater Conservation District	Transducer		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	4/11/2024		147.06	0.07	645.94	1	Groundwater Conservation District	Transducer		
P	4/12/2024		147.06	0.00	645.94	1	Groundwater Conservation District	Transducer		
P	4/13/2024		147.05	(0.01)	645.95	1	Groundwater Conservation District	Transducer		
P	4/14/2024		147.02	(0.03)	645.98	1	Groundwater Conservation District	Transducer		
P	4/15/2024		147.04	0.02	645.96	1	Groundwater Conservation District	Transducer		
P	4/16/2024		147.06	0.02	645.94	1	Groundwater Conservation District	Transducer		
P	4/17/2024		147.12	0.06	645.88	1	Groundwater Conservation District	Transducer		
P	4/18/2024		147.15	0.03	645.85	1	Groundwater Conservation District	Transducer		
P	4/19/2024		147.21	0.06	645.79	1	Groundwater Conservation District	Transducer		
P	4/20/2024		147.25	0.04	645.75	1	Groundwater Conservation District	Transducer		
P	4/21/2024		147.25	0.00	645.75	1	Groundwater Conservation District	Transducer		
P	4/22/2024		147.22	(0.03)	645.78	1	Groundwater Conservation District	Transducer		
P	4/23/2024		147.27	0.05	645.73	1	Groundwater Conservation District	Transducer		
P	4/24/2024		147.3	0.03	645.7	1	Groundwater Conservation District	Transducer		
P	4/25/2024		147.27	(0.03)	645.73	1	Groundwater Conservation District	Transducer		
P	4/26/2024		147.3	0.03	645.7	1	Groundwater Conservation District	Transducer		
P	4/27/2024		147.34	0.04	645.66	1	Groundwater Conservation District	Transducer		
P	4/28/2024		147.17	(0.17)	645.83	1	Groundwater Conservation District	Transducer		
P	4/29/2024		147.08	(0.09)	645.92	1	Groundwater Conservation District	Transducer		
P	4/30/2024		146.97	(0.11)	646.03	1	Groundwater Conservation District	Transducer		
P	5/1/2024		146.94	(0.03)	646.06	1	Groundwater Conservation District	Transducer		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
2	Pumping-level measurement
19	Well pumping

Water Quality Analysis

Sample Date: 10/20/1936 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: U.S. Geological Survey Lab **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: USGS WSP 1138

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		130.29	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		159	mg/L	
00910	CALCIUM (MG/L)		112	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		202	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		522	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		59	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.87		
00932	SODIUM, CALCULATED, PERCENT		28	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)	calculated	98	mg/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		307	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		856	mg/L	

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-804

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6816804
County	Comal
River Basin	Guadalupe
Groundwater Management Area	10
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.778055
Latitude (degrees minutes seconds)	29° 46' 41" N
Longitude (decimal degrees)	-98.063056
Longitude (degrees minutes seconds)	098° 03' 47" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	758
Land Surface Elevation Method	Altimeter
Well Depth (feet below land surface)	210
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1896
Drilling Method	Cable Tool
Borehole Completion	Open End

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Historical
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Gasoline Engine
Annular Seal Method	
Surface Completion	
Owner	Leroy Faust
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	1/31/1991
Last Update Date	

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

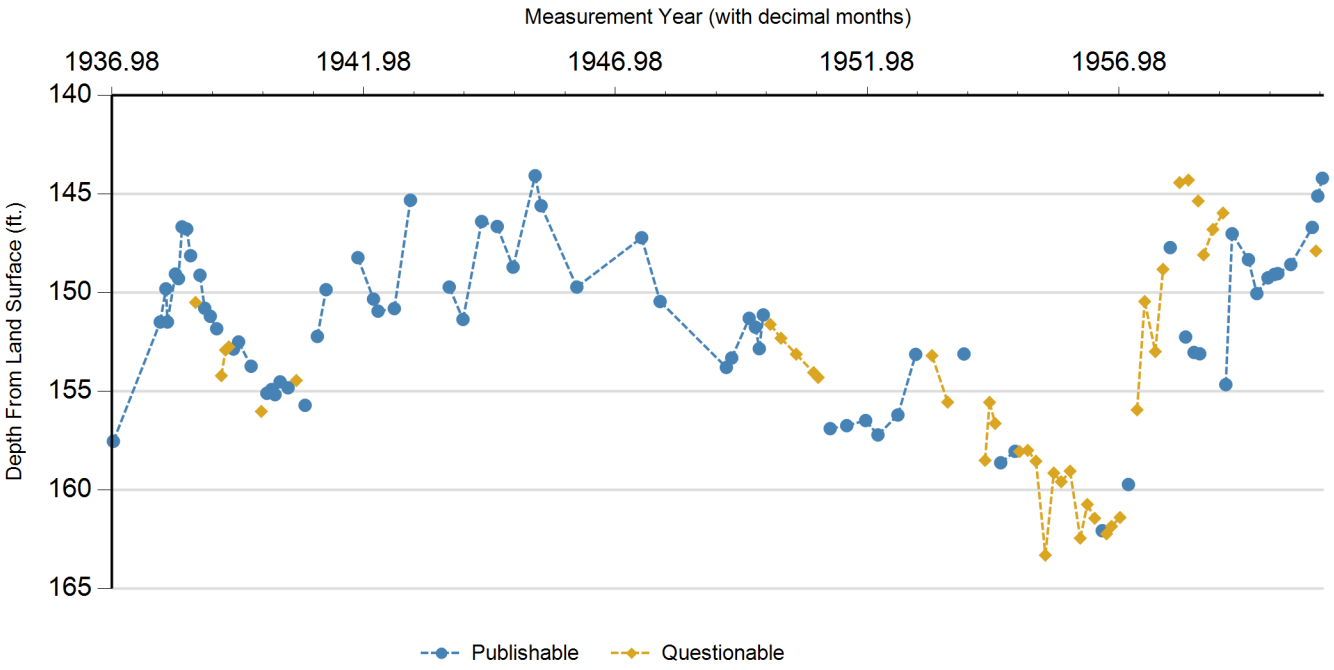
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/5/1937		157.53		600.47	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/15/1937		151.49	(6.04)	606.51	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/21/1938		149.81	(1.68)	608.19	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/2/1938		151.49	1.68	606.51	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/30/1938		149.06	(2.43)	608.94	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/22/1938		149.29	0.23	608.71	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/18/1938		146.67	(2.62)	611.33	1	Texas Commission on Environmental Quality	Steel Tape		
P	6/22/1938		146.78	0.11	611.22	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/20/1938		148.13	1.35	609.87	1	Texas Commission on Environmental Quality	Steel Tape		
Q	8/26/1938		150.5	2.37	607.5	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	9/28/1938		149.12	(1.38)	608.88	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/2/1938		150.79	1.67	607.21	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/13/1938		151.2	0.41	606.8	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/24/1939		151.83	0.63	606.17	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	2/28/1939		154.21	2.38	603.79	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	3/28/1939		152.91	(1.30)	605.09	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	4/23/1939		152.75	(0.16)	605.25	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	5/26/1939		152.86	0.11	605.14	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/3/1939		152.5	(0.36)	605.5	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/4/1939		153.73	1.23	604.27	1	Texas Commission on Environmental Quality	Steel Tape		
Q	12/18/1939		156.02	2.29	601.98	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	1/23/1940		155.1	(0.92)	602.9	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/27/1940		154.91	(0.19)	603.09	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/22/1940		155.17	0.26	602.83	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/29/1940		154.52	(0.65)	603.48	1	Texas Commission on Environmental Quality	Steel Tape		
X	5/29/1940					1	Texas Commission on Environmental Quality		19	
P	6/27/1940		154.82		603.18	1	Texas Commission on Environmental Quality	Steel Tape		
X	7/26/1940					1	Texas Commission on Environmental Quality		19	
Q	8/27/1940		154.45		603.55	1	Texas Commission on Environmental Quality	Steel Tape	4	
X	9/27/1940					1	Texas Commission on Environmental Quality		19	
P	10/30/1940		155.71		602.29	1	Texas Commission on Environmental Quality	Steel Tape		
X	12/5/1940					1	Texas Commission on Environmental Quality		19	
P	1/24/1941		152.22		605.78	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/27/1941		149.85	(2.37)	608.15	1	Texas Commission on Environmental Quality	Steel Tape		
X	5/23/1941					1	Texas Commission on Environmental Quality		19	
X	8/8/1941					1	Texas Commission on Environmental Quality		19	
P	11/18/1941		148.23		609.77	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/6/1942		150.33	2.10	607.67	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/9/1942		150.94	0.61	607.06	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/7/1942		150.81	(0.13)	607.19	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/4/1942		145.32	(5.49)	612.68	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
X	4/19/1943					1	Texas Commission on Environmental Quality		19	
P	9/10/1943		149.72		608.28	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/20/1943		151.36	1.64	606.64	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/30/1944		146.4	(4.96)	611.6	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/23/1944		146.65	0.25	611.35	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/18/1944		148.71	2.06	609.29	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/23/1945		144.08	(4.63)	613.92	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/6/1945		145.6	1.52	612.4	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/20/1946		149.72	4.12	608.28	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/5/1947		147.22	(2.50)	610.78	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/19/1947		150.45	3.23	607.55	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/9/1949		153.79	3.34	604.21	1	Texas Commission on Environmental Quality	Steel Tape		
P	4/18/1949		153.31	(0.48)	604.69	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/25/1949		151.3	(2.01)	606.7	1	Texas Commission on Environmental Quality	Steel Tape		
P	10/10/1949		151.75	0.45	606.25	1	Texas Commission on Environmental Quality	Steel Tape		
P	11/8/1949		152.84	1.09	605.16	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/7/1949		151.13	(1.71)	606.87	1	Texas Commission on Environmental Quality	Steel Tape		
Q	1/23/1950		151.61	0.48	606.39	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	4/10/1950		152.31	0.70	605.69	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	8/1/1950		153.12	0.81	604.88	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	12/7/1950		154.05	0.93	603.95	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	1/5/1951		154.3	0.25	603.7	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	4/2/1951		156.89	2.59	601.11	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/2/1951		156.74	(0.15)	601.26	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/19/1951		156.48	(0.26)	601.52	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/13/1952		157.21	0.73	600.79	1	Texas Commission on Environmental Quality	Steel Tape		
P	8/8/1952		156.2	(1.01)	601.8	1	Texas Commission on Environmental Quality	Steel Tape		

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	12/17/1952		153.13	(3.07)	604.87	1	Texas Commission on Environmental Quality	Steel Tape		
Q	4/10/1953		153.19	0.06	604.81	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	8/4/1953		155.55	2.36	602.45	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	12/2/1953		153.11	(2.44)	604.89	1	Texas Commission on Environmental Quality	Steel Tape		
Q	4/30/1954		158.5	5.39	599.5	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	6/2/1954		155.56	(2.94)	602.44	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	7/13/1954		156.63	1.07	601.37	1	Texas Commission on Environmental Quality	Steel Tape	2	
P	8/23/1954		158.62	1.99	599.38	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/7/1954		158.04	(0.58)	599.96	1	Texas Commission on Environmental Quality	Steel Tape		
Q	1/5/1955		158.05	0.01	599.95	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	3/4/1955		157.99	(0.06)	600.01	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	5/4/1955		158.54	0.55	599.46	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	7/12/1955		163.3	4.76	594.7	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	9/13/1955		159.14	(4.16)	598.86	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	11/7/1955		159.58	0.44	598.42	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	1/6/1956		159.04	(0.54)	598.96	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	3/20/1956		162.44	3.40	595.56	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	5/11/1956		160.73	(1.71)	597.27	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	7/5/1956		161.43	0.70	596.57	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	8/29/1956		162.06	0.63	595.94	1	Texas Commission on Environmental Quality	Steel Tape		
Q	10/1/1956		162.22	0.16	595.78	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	11/7/1956		161.84	(0.38)	596.16	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	1/3/1957		161.39	(0.45)	596.61	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	3/4/1957		159.72	(1.67)	598.28	1	Texas Commission on Environmental Quality	Steel Tape		
Q	5/7/1957		155.94	(3.78)	602.06	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	7/2/1957		150.45	(5.49)	607.55	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	9/19/1957		152.99	2.54	605.01	1	Texas Commission on Environmental Quality	Steel Tape	2	

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
Q	11/15/1957		148.82	(4.17)	609.18	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	1/2/1958		147.72	(1.10)	610.28	1	Texas Commission on Environmental Quality	Steel Tape		
Q	3/10/1958		144.43	(3.29)	613.57	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	4/24/1958		152.25	7.82	605.75	1	Texas Commission on Environmental Quality	Steel Tape		
Q	5/14/1958		144.3	(7.95)	613.7	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	6/25/1958		153.03	8.73	604.97	1	Texas Commission on Environmental Quality	Steel Tape		
Q	7/25/1958		145.36	(7.67)	612.64	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	8/6/1958		153.1	7.74	604.9	1	Texas Commission on Environmental Quality	Steel Tape		
Q	9/4/1958		148.09	(5.01)	609.91	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	11/12/1958		146.8	(1.29)	611.2	1	Texas Commission on Environmental Quality	Steel Tape	4	
Q	1/20/1959		145.97	(0.83)	612.03	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	2/10/1959		154.66	8.69	603.34	1	Texas Commission on Environmental Quality	Steel Tape		
P	3/26/1959		147.02	(7.64)	610.98	1	Texas Commission on Environmental Quality	Steel Tape		
P	7/24/1959		148.33	1.31	609.67	1	Texas Commission on Environmental Quality	Steel Tape		
P	9/25/1959		150.05	1.72	607.95	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/16/1959		149.25	(0.80)	608.75	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/27/1960		149.08	(0.17)	608.92	1	Texas Commission on Environmental Quality	Steel Tape		
P	2/22/1960		149.04	(0.04)	608.96	1	Texas Commission on Environmental Quality	Steel Tape		
P	5/26/1960		148.58	(0.46)	609.42	1	Texas Commission on Environmental Quality	Steel Tape		
Q	10/0/1960		147.89	(0.69)	610.11	1	Texas Commission on Environmental Quality	Steel Tape	4	
P	11/2/1960		146.7	(1.19)	611.3	1	Texas Commission on Environmental Quality	Steel Tape		
P	12/12/1960		145.11	(1.59)	612.89	1	Texas Commission on Environmental Quality	Steel Tape		
P	1/10/1961		144.21	(0.90)	613.79	1	Texas Commission on Environmental Quality	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable
X	No Measurement

Remark ID	Remark Description
2	Pumping-level measurement
4	Well pumped recently
19	Well pumping

Water Quality Analysis

Sample Date: 1/5/1937 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: U.S. Geological Survey Lab **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: USGS WSP 1138

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		290.08	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		354	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		78	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0	mg/L as NO3	
00945	SULFATE, TOTAL (MG/L AS SO4)		213	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		714	mg/L	

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-806

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6816806
County	Comal
River Basin	Guadalupe
Groundwater Management Area	10
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.77
Latitude (degrees minutes seconds)	29° 46' 12" N
Longitude (decimal degrees)	-98.073055
Longitude (degrees minutes seconds)	098° 04' 23" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	725
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	168
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	None
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Claudio Mendez
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	7/6/1984
Last Update Date	

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 7/6/1984 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: TWDB Field Analysis **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		250	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		305.09	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.2	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		567	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		24	C	

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-807

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6816807
County	Comal
River Basin	Guadalupe
Groundwater Management Area	10
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.781944
Latitude (degrees minutes seconds)	29° 46' 55" N
Longitude (decimal degrees)	-98.062501
Longitude (degrees minutes seconds)	098° 03' 45" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	798
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	315
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1984
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	None
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Hunter Oaks Water Supply (Well #1)
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460154A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	12/7/1995
Last Update Date	7/20/2016

Remarks	Measured yield 45 gpm in 1985.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 4/9/1984 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Department of Health

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: Texas Department of Health **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: Raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		257	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		313.63	mg/L	
00910	CALCIUM (MG/L)		77	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		15	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		295	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		25	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.62	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.23		
00932	SODIUM, CALCULATED, PERCENT		6	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		9	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		620	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		24	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		310	mg/L	

Water Quality Analysis

Sample Date: 8/9/1995 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Commission on Environmental Quality

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: Texas Department of Health **Reliability:** By TCEQ staff with their QA-QC procedures

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		258	mg/L as CACO3	
01503	ALPHA, DISSOLVED (PC/L)		3.1	PC/L	
01097	ANTIMONY, TOTAL (UG/L AS SB)	<	2	ug/L	
01002	ARSENIC, TOTAL (UG/L AS AS)	<	2	ug/L	
01007	BARIUM, TOTAL (UG/L AS BA)		39	ug/L	
01012	BERYLLIUM, TOTAL (UG/L AS BE)	<	1	ug/L	
03503	BETA, DISSOLVED (PC/L)	<	4	PC/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		314.85	mg/L	
01027	CADMIUM, TOTAL (UG/L)	<	0.2	ug/L	
00910	CALCIUM (MG/L)		82	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		32	mg/L	
01034	CHROMIUM, TOTAL (UG/L AS CR)	<	8	ug/L	
01042	COPPER, TOTAL (UG/L AS CU)		22	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		328	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		30	mg/L	
01055	MANGANESE, TOTAL (UG/L AS MN)		25	ug/L	
71900	MERCURY, TOTAL (UG/L AS HG)	<	0.13	ug/L	
01067	NICKEL, TOTAL (UG/L AS NI)	<	20	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		2.35	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.8	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01147	SELENIUM, TOTAL (UG/L)	<	4	ug/L	
01077	SILVER, TOTAL (UG/L AS AG)	<	6	ug/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.24		
00932	SODIUM, CALCULATED, PERCENT		6	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		10	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		702	MICR	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-807

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00945	SULFATE, TOTAL (MG/L AS SO4)		49	mg/L as SO4	
01059	THALLIUM, TOTAL (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		360	mg/L	
01092	ZINC, TOTAL (UG/L AS ZN)		25	ug/L	

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-808

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6816808
County	Comal
River Basin	Guadalupe
Groundwater Management Area	10
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.7830556
Latitude (degrees minutes seconds)	29° 46' 59" N
Longitude (decimal degrees)	-98.0661111
Longitude (degrees minutes seconds)	098° 03' 58" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	769
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	290
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	0/0/1987
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	GCD Current Site Visit
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	New Braunfels Utilities #9 Country Hills North
Driller	Kutcher
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460001I
Groundwater Conservation District Well Number	
Owner Well Number	9 Country Hills North
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/27/1998
Last Update Date	5/10/2017

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

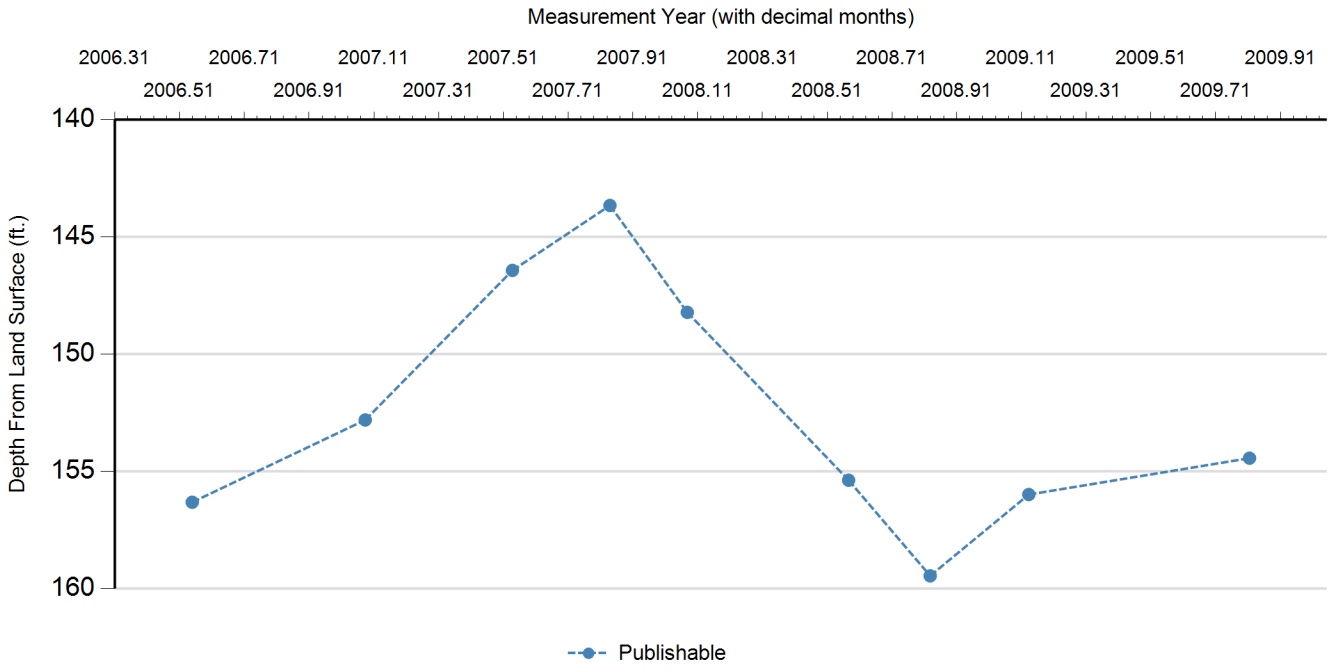
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	7/21/2006		156.31		612.69	1	Groundwater Conservation District	Steel Tape		
P	1/31/2007		152.8	(3.51)	616.2	1	Groundwater Conservation District	Steel Tape		
P	7/17/2007		146.42	(6.38)	622.58	1	Groundwater Conservation District	Steel Tape		
P	11/7/2007		143.65	(2.77)	625.35	1	Groundwater Conservation District	Steel Tape		
P	1/29/2008		148.21	4.56	620.79	1	Groundwater Conservation District	Steel Tape		
P	7/31/2008		155.37	7.16	613.63	1	Groundwater Conservation District	Steel Tape		
P	11/3/2008		159.45	4.08	609.55	1	Groundwater Conservation District	Steel Tape		
P	2/19/2009		155.98	(3.47)	613.02	1	Groundwater Conservation District	Steel Tape		
P	10/28/2009		154.43	(1.55)	614.57	1	Groundwater Conservation District	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 5/27/1998 **Sample Time:** 0830 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)

Analyzed Lab: LCRA - Lower Colorado River Authority **Reliability:** Sampled using TWDB protocols

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		242	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		251	mg/L as CACO3	
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	<	4	ug/L	
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	<	1	ug/L	
01000	ARSENIC, DISSOLVED (UG/L AS AS)	<	2	ug/L	
01005	BARIUM, DISSOLVED (UG/L AS BA)		43.2	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		306.31	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		72	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.06	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		85.2	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		16.7	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		3.6	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		5.5	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.16	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		288	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)		55	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)		2.1	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		6.9	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		18.3	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)	<	1	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		3.1	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		7.26	mg/L as NO3	

Texas Water Development Board

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-808

groundwater division

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.64	mg/L as N	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	<	0.05	mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.71	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		477.4	MV	
00400	PH (STANDARD UNITS), FIELD		6.53	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.1	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.33	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
01145	SELENIUM, DISSOLVED (UG/L AS SE)	<	4	ug/L	
00955	SILICA, DISSOLVED (MG/L AS SI02)		13.3	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.26		
00932	SODIUM, CALCULATED, PERCENT		7	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		10.3	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		573	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		630	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		24.7	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22.2	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		328	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		3.6	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		11.1	ug/L	

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-16-809

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6816809
County	Comal
River Basin	Guadalupe
Groundwater Management Area	10
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.771111
Latitude (degrees minutes seconds)	29° 46' 16" N
Longitude (decimal degrees)	-98.073333
Longitude (degrees minutes seconds)	098° 04' 24" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EBFZA - Edwards and Associated Limestones - (Balcones Fault Zone Aquifer)
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	743
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	236
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	5/21/1986
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of New Braunfels Well #8
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460001H
Groundwater Conservation District Well Number	
Owner Well Number	8
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	3/1/2011
Last Update Date	7/20/2016

Remarks	Capped PS well.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

STATE OF TEXAS WELL REPORT for Tracking #470675

Owner:	**Brian Musick**	Owner Well #:	**No Data**
Address:	**1418 Westward Ho New Braunfels, TX 78132**	Grid #:	**68-16-8**
Well Location:	**1418 Westward Ho New Braunfels, TX 78132**	Latitude:	**29° 47' 02.9" N**
		Longitude:	**098° 03' 57.3" W**
Well County:	**Comal**	Elevation:	**No Data**

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

Drilling Start Date: **1/25/2018** Drilling End Date: **1/29/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**300**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement & Sand Mix 4 Bags/Sacks**
20	**120**	**Bentonite 14 Bags/Sacks**
120	**140**	**Cement & Sand Mix 4 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

Distance to Property Line (ft.): **50**

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

Distance to Septic Tank (ft.): **50**

Method of Verification: **Mesured**

Surface Completion: **Surface Sleeve Installed** **Surface Completion by Driller**

Water Level: **165 ft.** below land surface on **2018-02-10** Measurement Method: **Electric Line**

Packers: **Rubber at 140 ft.**
Rubber at 145 ft.

Type of Pump: **No Data**

Well Tests: **Yield: 5 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Kutscher Drilling**

3810 Hunter Road
San Marcos, TX 78666

Driller Name: **Kutscher Drilling LTD** License Number: **54746**

Apprentice Name: **Brandon Bauwens**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Tan Lime**
20	**60**	**Light Tan Lime**
60	**80**	**Dark Tan Lime**
80	**100**	**Light Tan Lime**
100	**140**	**Grey Limestone H20**
140	**160**	**Dark Tan Limestone**
160	**220**	**Grey Limestone**
220	**300**	**Lost Returns**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR-17**	**-2**	**258**
4.5	**Screen**	**New Plastic (PVC)**	**SDR-17 0.035**	**258**	**278**

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

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): 0.0373

2-Hr Peak Flow (MGD): 0.1492

Estimated construction start date: Constructed in 2023

Estimated waste disposal start date: 2024

B. Interim II Phase

Design Flow (MGD): 0.07

2-Hr Peak Flow (MGD): 0.28

Estimated construction start date: Constructed in 2024

Estimated waste disposal start date: 2024

C. Final Phase

Design Flow (MGD): 0.1

2-Hr Peak Flow (MGD): 0.4

Estimated construction start date: January 2026

Estimated waste disposal start date: July 2026

D. Current Operating Phase

Provide the startup date of the facility: 2024

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**.

See Treatment Unit Sizing and Process Description

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 Treatment Unit Sizing and Process Description		

C. Process Flow Diagram

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

Attachment: Process Flow Diagram

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

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

- Latitude: 29°46'47.16"N
- Longitude: 98° 3'17.52"W

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

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

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

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

Attachment: Site Drawing
Provide the name **and** a description of the area served by the treatment facility.

The facility serves the Gatehouse development, a subdivision in Comal County, Texas.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served

Section 4. Unbuilt Phases (Instructions Page 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**.

The final phase is yet to be constructed. This phase will bring the flow to 100,00 GPD as permitted in the existing permit.

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.

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: May 3, 2023

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**.

See attached Approval Letter.

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.

The buffer zone will be met by ownership.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

4. *Grease and decanted liquid disposal*

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

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

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☒ No

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

TXR05 _ or TXRNE

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

4. ***Existing coverage in individual permit***

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

☐ Yes ☒ No

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

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

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

6. ***Request for coverage in individual permit***

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

☐ Yes ☒ No

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

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

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

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

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

☐ Yes ☒ No

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

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 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). ***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	See DMR Attachment				
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					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*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 49)

Facility Operator Name: Michael Saldaña

Facility Operator's License Classification and Level: Wastewater Treatment Operator C

Facility Operator's License Number: WW0076243

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:

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
Other					

If "Other" is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): Monofill – transported to processing facility for disposal

D. Disposal site

Disposal site name: Mesquite Creek Landfill

TCEQ permit or registration number: 48029

County where disposal site is located: Comal

E. Transportation method

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

Name of the hauler: Wastewater Transport Services

Hauler registration number: 24343

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:
- USDA Natural Resources Conservation Service Soil Map:

  Attachment:
- Federal Emergency Management Map:

  Attachment:
- Site map:

  Attachment:

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment:

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

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

D. Site development plan

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

Attach the following documents to the application.

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

  Attachment:
- Copy of the closure plan

  Attachment:
- Copy of deed recordation for the site

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

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

  Attachment:
- Procedures to prevent the occurrence of nuisance conditions

  Attachment:

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment:

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 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:

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 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: Regina Franke

Title: Authorized Signatory

Signature: _____

Date: 02/21/2025

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 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:

Distance and direction to the intake:

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

Attachment:

Section 2. Discharge into Tidally Affected Waters (Instructions Page 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:

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☒ No

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

C. Sea grasses

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

☐ Yes ☒ No

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

Section 3. Classified Segments (Instructions Page 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: Water Hole Creek, thence to Soil Conservation Service (SCS) Site 3 Reservoir, thence to Water Hole Creek, thence to York Creek, thence to the Lower San Marcos River in Segment No. 1808 of the Guadalupe River Basin.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify:

C. Downstream perennial confluences

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

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.

E. Normal dry weather characteristics

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

Streambed is dry.

Date and time of observation: Sept 2024, 9AM

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:

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 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:

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD:

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD:

B. Treatment plant interference

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

☐ Yes ☒ No

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

C. Treatment plant pass through

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

☐ Yes ☒ No

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

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

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.

B. Non-substantial modifications

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

☐ Yes ☐ No

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

C. Effluent parameters above the MAL

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

Table 3.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date

D. Industrial user interruptions

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

☐ Yes ☒ No

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

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

A. General information

Company Name:

SIC Code:

Contact name:

Address:

City, State, and Zip Code:

Telephone number:

Email address:

B. Process information

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

C. Product and service information

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

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day:

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day:

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

Category:

Subcategories:

F. Industrial user interruptions

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

☐ Yes ☐ No

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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

May 3, 2023

Troy R. Hotchkiss, P.E.
Integrated Water Services
4001 N. Valley Drive
Longmont, Colorado 80504

Re: Crystal Clear Special Utility District
The Crossing at Havenwood Wastewater Treatment Plant Expansion
Permit No. WQ0015966-001
WWPR Log No. 0223/050
CN605149392, RN107324121
Comal County

Dear Mr. Hotchkiss:

On February 13, 2023, the TCEQ Plans and Specifications review team received the project summary transmittal letter dated November 29, 2022, for an expansion of the wastewater treatment capacities for The Crossings at Havenwood wastewater treatment plant in Comal County, Texas. The desired expansion is to a treatable average daily flow (ADF) capacity of 84,000 gpd and will involve the placement of a new modular membrane biorector (MBR) process plant. The plant is regulated by Water Quality permit WQ0015266001 which, after the processing of a recent minor amendment, has the flow phasing listed in the table below.

Flow Phase	Average Daily Flow (MGD)	Peak Daily Flow (MGD)
Interim I	0.0373	0.075
Interim II	0.070	0.140
Final	0.100	0.200

The plant must produce an effluent stream which can meet permitted effluent concentration of 10 mg/l for $CBOD_5$, 15 mg/l for TSS, 3 mg/l for NH_3-N, 1 mg/l for total phosphorus, and 126 CFU/100 ml for E. coli while maintianing a minimum dissolved oxygen concetration of 4.0 mg/l. The details of the equipment comprising the 0.084 MGD MBR treatment system are listed below.

The rules which regulate the design, installation and testing of domestic wastewater projects are found in 30 TAC, Chapter 217, of the Texas Commission on Environmental Quality (TCEQ) rules titled, Design Criteria for Wastewater Systems.

The overall treatment system will be comprised of the following units:

- Screening with carbitrol activated carbon odor control cannisters;
  - A 2 mm perforated plate rotary drum screen, rated at 1,458 gpm
  - A secondary 2 mm perforated plate horizontal rotary drum screen, rated at 360 gpm
  - The rotary screen is upstream of the equalization basin
  - The perforated plate secondary fine screen will be downstream of the equalization basin and screened influent will enter the MBR process
  - Both screens will have ½ CY covered rolling containers for screenings
- A 27,910-gallon equalization basin
- MBR Activated sludge treatment system consisting of:
  - 7,200 gallons Anoxic zone
  - 4,200 gallons pre-aeration basin with fine bubble diffusers
  - 2- 4,200 MBR membrane basins, 1 MBR cassette per basin
    - Microdyne Bio-Cel modules
    - Cassette volume of 33.9 ft^3
    - Cassette surface area 5,167 ft^2
  - Membrane clean-in-place unit Air scour blowers
  - Permeate pumps
- Sludge holding tank
- Process chemical, including alum, feed systems used in meeting discharge limits
- Sodium hypochlroite disinfection
- Sodium bisulfite dechlorination
- Manual effluent flow meter with parshal flume
- Genset emergency generator
- Existing Orenco tanks converted in sludge digesters (10,075 galons)
- Miscellaneous different pumps
  - 2 permeate pumps
  - 1 carbon feed pueristaltic pump
  - 1 alum feed peristaltic pump
  - 2 internal recycle pumps
  - 4 transfer pumps
- 2-5 ft. diameter package lift stations

The TCEQ review of the provided plans, and summary transmittal letter seems to indicate that the system design meets at least the minimum requirements of 30 TAC Chapter 217: Design Criteria for Wastewater Systems. Given the results of the TCEQ review the project is conditionally approved for completion. At this time TCEQ can only approve the system for treating the interim II flow of 0.070 MGD (70,000 gpd). A minor amendment to the existing permit will be required to add the 0.084 MGD flow phase so that what is placed on the ground matches a permitted flow phase.

The conditions of the approval are:

- **This plant must maintain compliance with permitted effluent concentration limits and other conditions within the Water Quality Permit.**
- **The chlorine contact basin must have internal baffles which produce the required 20 minutes of contact time at the permitted peak daily flow.**
- **As required by 30 TAC Chapter 217, a copy of the Operation and Maintenance (O&M) plan should be maintained on the wastewater treatment plant site and produced to any TCEQ staff request to view the O&M plan.**

TCEQ understands that the influent organic concentration being used for sizing the initial MBR plant is 200 mg/l. This concentration seems appropriate for this phase given that the aeration units at the Gatehouse Subdivision will work to reduce the organic portion of loading from the majority flow contributor to the treatment plant. However, as new houses are developed using the latest water conservation devices and brought online in the Havenwood subdivision to be treated at the wastewater treatment plant care should be taken to ensure appropriate organic loading rates are used for treatment plant sizing so that any plant expansion can maintain compliance with the permitted effluent limits.

You must keep certain materials on file for the life of the project and provide them to TCEQ upon request. These materials include an engineering report, test results, a summary transmittal letter, and the final version of the project plans and specifications. These materials shall be prepared and sealed by a Professional Engineer licensed in the State of Texas and must show substantial compliance with Chapter 217. All plans and specifications must conform to any waste discharge requirements authorized in a permit by the TCEQ. Certain specific items which shall be addressed in the engineering report are discussed in §217.10. Additionally, the engineering report must include all constants, graphs, equations, and calculations needed to show substantial compliance with Chapter 217.

No variances of any 30 TAC Chapter 217 requirements were requested or granted as part of this project review. If in the future, additional variances from the Chapter 217 requirements are desired for the project, each variance must be requested in writing by the design engineer. Then, the TCEQ will consider granting a written approval to the variance from the rules for the specific project and the specific circumstances.

Within 60 days of the completion of construction, an appointed engineer shall notify both the Wastewater Permits Section of the TCEQ and the appropriate Region Office of the date of completion. The engineer shall also provide written certification that all construction, materials, and equipment were substantially in accordance with the approved project, the rules of the TCEQ, and any change orders filed with the TCEQ. All notifications, certifications, and change orders must include the signed and dated seal of a Professional Engineer licensed in the State of Texas.

The TCEQ will provide a notification of intent to review whenever a project is to undergo a complete plans and specifications review. Please be reminded of 30 TAC §217.7(a) of the rules which states, "Approval given by the executive director or other authorized review authority does not relieve an owner of any liability or responsibility with respect to designing, constructing, or operating a collection system or treatment facility in accordance with applicable commission rules and the associated wastewater permit".

If you have any questions, or if we can be of any further assistance, please call me at (512) 239-1372.

Sincerely,

Paul A. Brochi, P.E.
Wastewater Permits Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

PAB/tc

Gatehouse WWTF - Discharge Monitoring Summary

		Single Grab Average	
2024	**Flow Average (MGD)**	**BOD Average (mg/L)**	**TSS Average (mg/L)**
January	0.0324	11.25	6.25
February	0.0267	12.20	6.60
March	0.0274	9.25	5.75
April	0.0273	8.00	4.75
May	0.0287	11.40	6.80
June	0.0277	10.50	5.50
July	0.0265	11.75	4.75
August	0.0241	6.00	5.00
September	0.0241	7.00	6.25
October	0.0223	9.40	4.20
November	0.0235	5.75	3.75
December	0.0209	7.50	5.50
Average	**0.0260**	**9.17**	**5.43**

Gatehouse WWTF - Discharge Monitoring Summary

Jan-24

	Flow MGD	BOD	TSS
1	27336		
2	29818		
3	37456		
4	28996	10	7
5	27192		
6	25660		
7	27702		
8	31622		
9	28328		
10	26840		
11	26386	9	6
12	25678		
13	24548		
14	20766		
15	31136		
16	32922		
17	30006		
18	28212	14	6
19	26412		
20	25328		
21	27788		
22	51771		
23	51771		
24	52378		
25	62906	12	6
26	50272		
27	31818		
28	30632		
29	30950		
30	28350		
31	24528		
Average	0.032435742	11.25	6.25
Total:	1005508		
lbs/day		3.043	1.6907

Gatehouse WWTF - Discharge Monitoring Summary

Feb-24

	Flow MGD	BOD	TSS
1	22226	12	5
2	33236		
3	34378		
4	34260		
5	27536		
6	25726		
7	24892		
8	24932	13	6
9	22130		
10	22692		
11	27582		
12	26760		
13	24642		
14	23866		
15	23342	16	9
16	27370		
17	32286		
18	25910		
19	28010		
20	26536		
21	25212		
22	25466	7	7
23	25162		
24	26985		
25	26985		
26	27636		
27	26196		
28	25182		
29	25758	13	6
Average	0.026652	12.2	6.6
Total:	772894		
lbs/day		2.712	1.467
Max:	0.034378		

Gatehouse WWTF - Discharge Monitoring Summary

Mar-24

	Flow MGD	BOD	TSS
1	24678		
2	28330		
3	29266		
4	27518		
5	25150		
6	24736		
7	25120	12	6
8	25538		
9	26110		
10	24502		
11	24502		
12	25296		
13	25072		
14	25276	9	6
15	24248		
16	25850		
17	40158		
18	38132		
19	26322		
20	24722		
21	26048	7	6
22	30232		
23	28640		
24	32538		
25	28420		
26	25978		
27	25680		
28	25926	9	5
29	24638		
30	28830		
31	30760		
Average	0.027361806	9.25	5.75
Total:	848216		
lbs/day		2.111	1.312135428

Gatehouse WWTF - Discharge Monitoring Summary

Apr-24

	Flow MGD	BOD	TSS
1	29108		
2	26882		
3	25268		
4	24236	6	5
5	23680		
6	24338		
7	28750		
8	27910		
9	26890		
10	26572		
11	25560	7	4
12	24820		
13	26622		
14	27428		
15	27670		
16	26048		
17	26038		
18	25008	12	4
19	24680		
20	26472		
21	29068		
22	28986		
23	27090		
24	26426		
25	25886	7	6
26	25998		
27	34148		
28	33040		
29	36608		
30	29128		
Average	0.027345267	8	4.75
Total:	820358		
lbs/day		1.824	1.083282739

Gatehouse WWTF - Discharge Monitoring Summary

May-24

	Flow MGD	BOD	TSS
1	29128		
2	30038	5	10
3	37460		
4	30650		
5	30972		
6	30828		
7	35921		
8	26460		
9	26838	14	5
10	26248		
11	26620		
12	29070		
13	29832		
14	28980		
15	27428		
16	27192	15	7
17	26126		
18	26420		
19	29046		
20	29748		
21	26998		
22	27050		
23	24572	10	6
24	24558		
25	26676		
26	26968		
27	29438		
28	28986		
29	27342		
30	27220	13	6
31	36408		
Average	0.028749065	11.4	6.8
Total:	891221		
lbs/day		2.733	1.630416947

Gatehouse WWTF - Discharge Monitoring Summary

Jun-24

	Flow MGD	BOD	TSS
1	38770		
2	29382		
3	28222		
4	27162		
5	25250		
6	25390	12	5
7	24580		
8	25372		
9	26920		
10	29092		
11	28038		
12	29236		
13	27210	13	5
14	26696		
15	27768		
16	28326		
17	27050		
18	26396		
19	28544		
20	29340	9	6
21	30276		
22	27830		
23	27918		
24	26138		
25	26598		
26	25946		
27	24608	8	6
28	26488		
29	28862		
30	27926		
Average	0.027711133	10.5	5.5
Total:	831334		
lbs/day		2.427	1.271109686

Gatehouse WWTF - Discharge Monitoring Summary

Jul-24

	Flow MGD	BOD	TSS
1	28806		
2	25922		
3	25882	13	5
4	26656		
5	26790		
6	25982		
7	26448		
8	26616		
9	27046		
10	29758		
11	27462		
12	26788	12	6
13	27712		
14	28176		
15	28002		
16	24822		
17	24256		
18	25230	11	3
19	24476		
20	26346		
21	25416		
22	26016		
23	24986		
24	25528		
25	25960	11	5
26	26346		
27	23260		
28	28906		
29	29812		
30	24668		
31	26118		
Average	0.026457806	11.75	4.75
Total:	820192		
lbs/day		2.593	1.048126003

Gatehouse WWTF - Discharge Monitoring Summary

Aug-24

	Flow MGD	BOD	TSS
1	24288	10	11
2	23028		
3	22942		
4	26118		
5	26332		
6	25732		
7	24290		
8	23906	9	4
9	24788		
10	26730		
11	28030		
12	24930		
13	23956		
14	23968		
15	24456	5	3
16	11558		
17	12174		
18	26966		
19	27920		
20	25416		
21	12726		
22	24466		
23	24130	0	3
24	25420		
25	26832		
26	29706		
27	24988		
28	23990		
29	23618	6	4
30	25700		
31	26506		
Average	0.024051935	6	5
Total:	0.74561		
lbs/day		1.204	1.00296571
Max	0.029706		

Gatehouse WWTF - Discharge Monitoring Summary

Sep-24

	Flow MGD	BOD	TSS
1	28878		
2	27892		
3	28130		
4	24898		
5	24232	8	5
6	23246		
7	25178		
8	28872		
9	26268		
10	24616		
11	28532		
12	13168	5	12
13	11468		
14	8968		
15	26740		
16	27068		
17	24550		
18	23536		
19	23298	6	4
20	24668		
21	23912		
22	26748		
23	25138		
24	24336		
25	20566		
26	21858	9	4
27	26748		
28	25218		
29	27318		
30	27200		
Average	0.0241	7	6.25
Total:	0.723248		
lbs/day		1.407	1.257

Gatehouse WWTF - Discharge Monitoring Summary

Oct-24

	Flow MGD	BOD	TSS
1	25180		
2	23392		
3	22710	8	3
4	22802		
5	24710		
6	25170		
7	25638		
8	23380		
9	22312		
10	22776	13	3
11	10880		
12	11282		
13	12196		
14	25140		
15	23700		
16	22652		
17	23580	6	4
18	15376		
19	25282		
20	25368		
21	24926		
22	23720		
23	22932		
24	22822	11	6
25	20412		
26	18882		
27	24092		
28	26268		
29	25546		
30	23788		
31	24180	9	5
Average	0.0223	9.4	4.2
Total:	691094		
lbs/day		1.748	0.780891633

Gatehouse WWTF - Discharge Monitoring Summary

Nov-24

	Flow MGD	BOD	TSS
1	22118		
2	25040		
3	28710		
4	25738		
5	25408		
6	22240		
7	22858	8	3
8	24396		
9	24876		
10	27028		
11	27076		
12	24890		
13	23690		
14	23978	8	4
15	10580		
16	11650		
17	26966		
18	28262		
19	23998		
20	11380		
21	23578	7	4
22	21630		
23	17990		
24	21756		
25	26356		
26	25366		
27	27602	0	4
28	28342		
29	25920		
30	26052		
Average	0.0235158	5.75	3.75
Total:	705474		
lbs/day		1.128	0.735456645

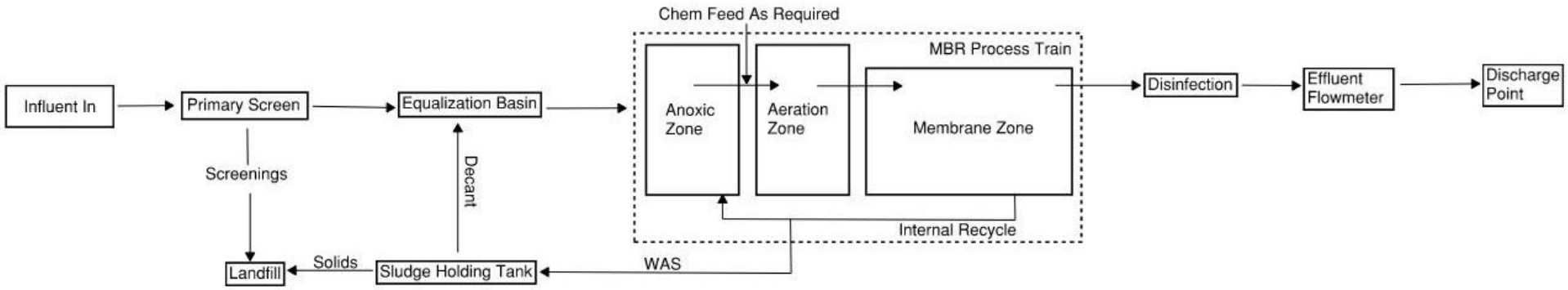
Gatehouse WWTF - Discharge Monitoring Summary

Dec-24

	Flow MGD	BOD	TSS
1	27072		
2	25812		
3	28342		
4	28342		
5	23252	0	5
6	10824		
7	11394		
8	26878		
9	26878		
10	24878		
11	22862		
12	22696	10	4
13	22072		
14	24280		
15	26136		
16	28532		
17	23212		
18	22912		
19	22782	6	6
20	22650		
21	24690		
22	24702		
23	11590		
24	11760		
25	23118		
26	11967		
27	12046	14	7
28	12072		
29	12278		
30	12212		
31			
Average	0.020941367	7.5	5.5
Total:	628241		
lbs/day		1.310	0.960580489

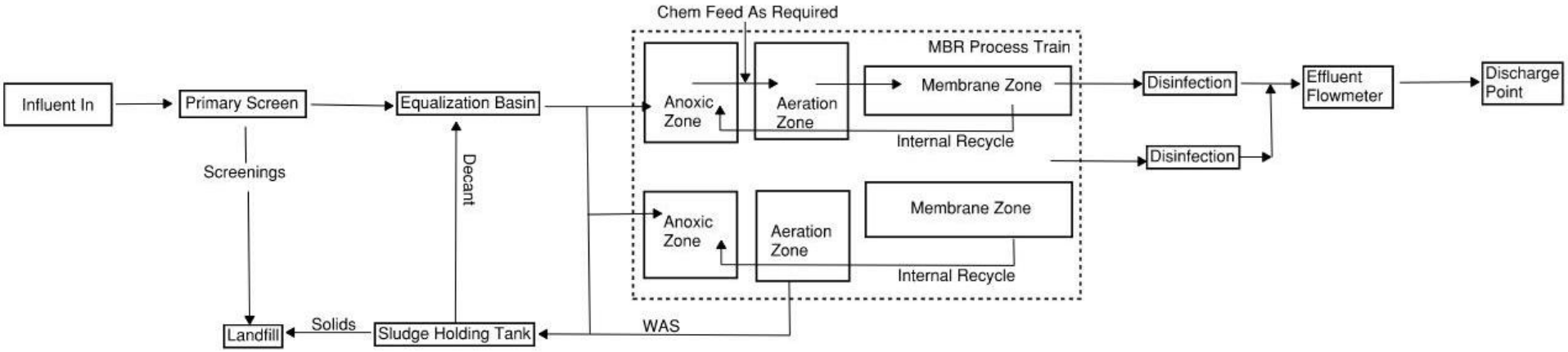
Gatehouse WWTF - Process Description

Phase 1 – 37,300 gpd



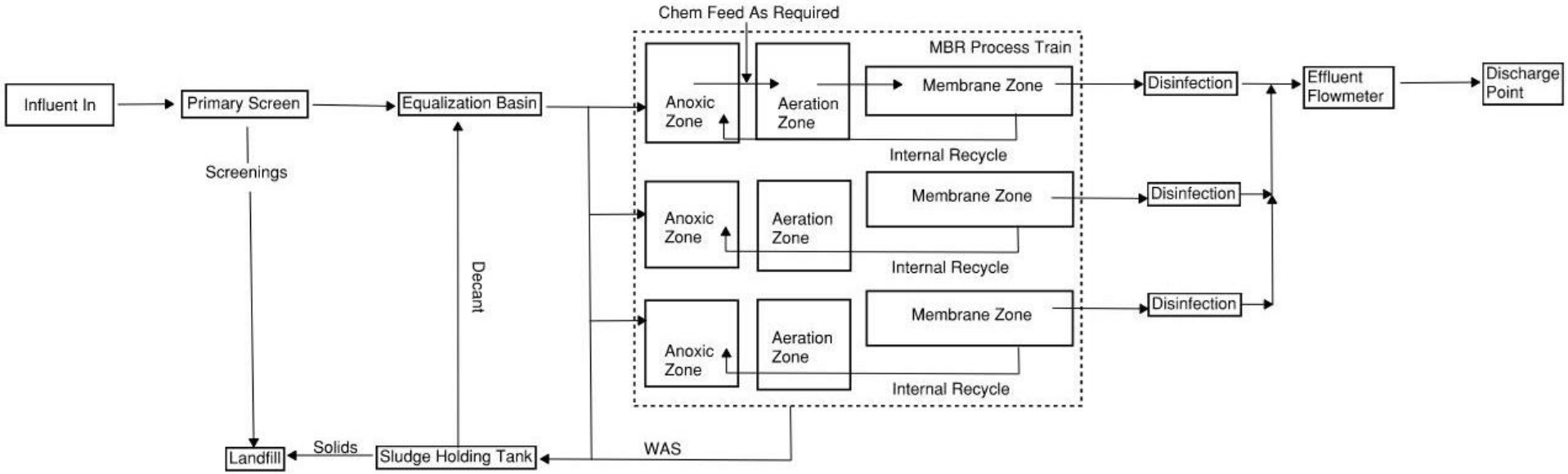
Gatehouse WWTF - Process Description

Phase 2 – 70,000 gpd



Gatehouse WWTF - Process Description

Final Phase – 100,000 gpd



Gatehouse WWTF
Treatment Unit Sizing and Process Description

Treatment Process Description

The Gatehouse WWTF is currently operating at Phase 1. It will be an MBR system consisting of several process trains. The system will have a primary screen, equalization tanks, multiple process trains consisting of anoxic, aeration, membrane zones, and sludge holding tanks. The facility will utilize UV or Chlorine disinfection. The design will be in accordance with Texas Administrative Code Title 30, Part 1: Texas Commission on Environmental Quality (TCEQ) Chapter 217 (Design Criteria for Domestic Wastewater Systems).

Treatment Unit Sizing

Phase 1 – 37,300 GPD

Headworks with Screening	
Equalization Tank	(1) 18.5’ dia x 16’ SWD – 32,153 gal
Sludge Holding Tank	(1) 42’ x 7.58’ x 6’ SWD – 14,287 gal
Process Units (MBR)	(1) 45’ x 8’ x 10’ SWD – 26,928 gal
Chlorine Contact Chamber	(1) 20’ x 7’ x 4.5’ SWD– 4700 gal

Phase 2 – 70,000 GPD

Headworks with Screening	
Equalization Tank	(1) 18.5’ dia x 16’ SWD – 32,153 gal
Sludge Holding Tank	(2) 42’ x 6.47’ x 6’ SWD – 24,390 gal
Process Units (MBR)	(1) 45’ x 8’ x 10’ SWD – 26,928 gal
Chlorine Contact Chamber	(1) 20’ x 7’ x 4.5’ SWD– 4700 gal

Final Phase – 100,000 GPD

Headworks with Screening	
Equalization Tank	(1) 18.5’ dia x 16’ SWD – 32,153 gal
Sludge Holding Tank	(2) 42’ x 6.47’ x 6’ SWD – 24,390 gal
Process Units (MBR)	(2) 45’ x 8’ x 10’ SWD – 53,856 gal
Chlorine Contact Chamber	(1) 20’ x 7’ x 4.5’ SWD– 4700 gal

Gatehouse WWTF - Design Calculations

Phase 1

Flow	37,300	gpd
2 hr peak	149,200	gpd

Equalization Sizing Minimum		
2.5Q for 2 hours	7,771	gal
Chlorine Sizing Minimum		
4Q for 20 min	2,072	gal

Using 2% Flow for WAS Rate

WAS Rate	746	gpd
Sludge Storage Days	10	days
Sludge Holding Minimum	7,460	gal

Phase 2

Flow	70,000	gpd
2 hr peak	280,000	gpd

Equalization Sizing Minimum		
2.5Q for 2 hours	14,583	gal
Chlorine Sizing Minimum		
4Q for 20 min	3,889	gal

Using 2% Flow for WAS Rate

WAS Rate	1400	gpd
Sludge Storage Days	10	days
Sludge Holding Minimum	14,000	gal

Final Phase

Flow	100,000	gpd
2 hr peak	400,000	gpd

Equalization Sizing Minimum		
2.5Q for 2 hours	20,833	gal
Chlorine Sizing Minimum		
4Q for 20 min	5,556	gal

Using 2% Flow for WAS Rate

WAS Rate	2000	gpd
Sludge Storage Days	10	days
Sludge Holding Minimum	20,000	gal

Bioreactor Calculation

1. Design Calculation

1.1 Influent (m3/day)

Items	unit	m3/day	gal/day
	Average	378.5	100,000
	Design Flow	378.5	100,000

1.2 Factors

Items			
	HRT	19.0	hr
	SRT	25.0	day
	C/N	4.7	
	C/P	29.6	
	Temp	20.0	℃
	Sludge return	250	%

1.3 Influent Quality

Items	BOD (mg/L)	COD_{Mn} (mg/L)	SS (mg/L)	T-N (mg/L)	T-P (mg/L)	E.coli. (Count/mL)	Remarks
Water quality	350.0	525.0	300.0	70.0	9.0	55000	

1.4 Influent and Effluent Water Quality

Items	BOD (mg/L)	COD_{Mn} (mg/L)	SS (mg/L)	T-N (mg/L)	T-P (mg/L)	E.coli. (Count/mL)	
Influent quality	350.0	525.0	300.0	70.0	9.0	55,000	
Effluent quality	5.0	10.0	5.0	20.0	1.0	1.26	

1.5 Bioreactor Volume

Items	Width (mW)	Length (mL)	Depth (mHe)	Height (mH)	tank (#)	Volume (m^3)	HRT (hr)
Anoxic	2.4	12.0	2.2	2.3	2	124.1	7.9
Oxic	2.4	12.0	2.1	2.3	2	118.4	7.5
MBR	2.4	12.0	2.0	2.3	1	56.4	3.6
Total						363.8	19.0

Note: If biorector volume sizes are above the volume calcauted by 30-40%, it will be okay.

1.6 Sludge Production

Items	Sludge (m^3/day)	Water contents (%)
	6.0	99.2

1.7 Air Requirement

Items		
	Oxic reactor (m^3/min)	3.11
	MBR (m^3/min)	12.0

2 MASS BALANCE

(Q = 378.54 m³/day) 100,000 GPD

Temp. : 20 °C
68 F

Influent		
Q	378.54	
BOD	350.0	132.5
COD	525.0	198.7
SS	300.0	113.6
T-N	70.0	26.5
T-P	9.0	3.4
E.Coli	55,000	Count/ml

EQ Tank		
Q	378.54	
BOD	315.0	119.2
COD	472.5	178.8
SS	210.0	79.5
T-N	66.5	25.2
T-P	8.6	3.2
E.Coli	55000	Count/ml

Bioreactors		
Q	378.5	
BOD	315.0	119.2
COD	472.5	178.8
SS	210.0	79.5
T-N	66.5	25.2
T-P	8.6	3.2
E.Coli	55,000	Count/ml

Factors	
MLSS	5,800
	5,800
	8,000
F/M	0.06
TEMP.	20
SRT	42.6
MLVSS	0.69
FLUX	0.4

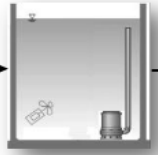
Effluent		
Q	378.54	
BOD	5.0	1.9
COD	10.0	3.7
SS	5.0	1.9
T-N	20.0	7.5
T-P	1.0	0.4
E.Coli	1	Count/ml

Reuse		
Q	378.54	
BOD	5.0	1.9
COD	10.0	3.7
SS	5.0	1.9
T-N	20.0	7.5
T-P	1.0	0.4
E.Coli	1	Count/ml

Influent

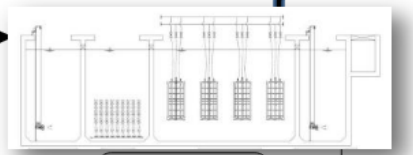
Drum Screen

Drum Screen	
BOD	10%
COD	10%
SS	30%
T-N	5%
T-P	5%



EQ Tank

Aerated EQ



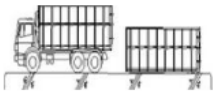
Bioreactors + Membrane

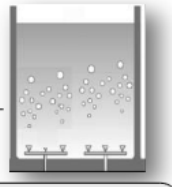
Sludge Return = 2.5 Q

Effluent

Sludge		
Q	6.0	
BOD	4,567	27.4
COD	3,928	23.6
SS	8,000	48.0
T-N	664	4.0
T-P	478	2.9

Bioreactors	
BOD	98.4
COD	97.9
SS	97.6
T-N	69.9
T-P	88.3
E.Coli	100.0



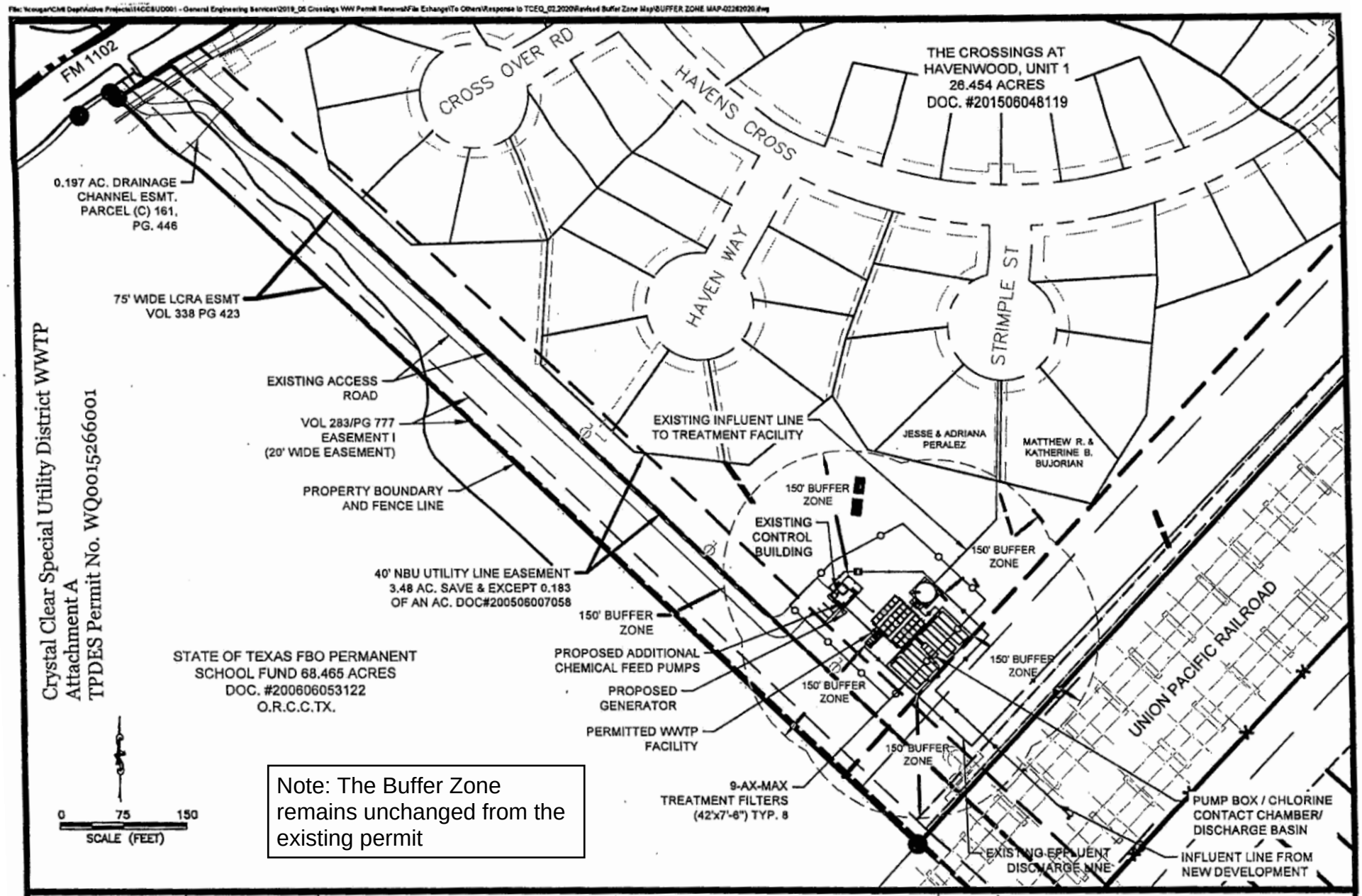


Sludge Tank

Legend
Sewage
Sludge

Unit	
Q	m³/d
Con.	mg/L
Load	kg/day

Items	Ranges			Design Values	Unit
Anoxic/Oxic MLSS (X_{TSR})	4,000	~	9,500	5,800	mg/L
Oxic MLSS (X_{OX})	6,000	~	12,000	8,000	mg/L
MLVSS/MLSS(X_V)	MLVSS	/	MLSS	0.7	
F/M ration	0.01	~	0.30	0.06	kgBOD/kgMLVSS-d
Sludge return (X_{r1})	50	~	400	250	%
Sludge retention time (SRT)	15	~	50	35.6	day
Bio reactor temperature	10	~	30	20	℃
Bio reactor pH	6.8	~	7.2	7.0	
Dissolved Oxygen concentration (DO)	2.0	~	5.0	2.0	mg/L
Y(net), Sludge yield	0.30	~	0.60	0.47	$mgVSS/mgBOD_{rem}$
b, Sludge decay coefficient	0.05	~	0.30	0.15	day^{-1}
μ_{Nm}, Max nitrifier production	0.30	~	0.60	0.47	day^{-1}
Y_N(net), Nitrifier yield	0.10	~	0.30	0.20	$mgVSS/mgNH_4N_{rem}$
K_o, O_2 Half saturation coefficient	0.40	~	0.60	0.50	O_2 mg/L
K_N, NH_4-N Half saturation coefficient	0.20	~	5.00	0.74	NH_4-N mg/L
Membrane Flux	Design			0.40	$m^3/m^2 \cdot d$
				16.7	LMH
				9.8	GFD
SNR, Specific Nitrification Rate	Oxic			2.70	$mgNH_4N/gMLVSS \cdot hr$
SDNR, Specific denitrification Rate				2.70	$mgNO_3N/gMLVSS \cdot hr$
SPUR				1.24	mg P/gMLSS·hr
BOD/P_{rel}				12.0	P releasing
$BOD/No_x\text{-}N_{rem}$				2.86	Denitrification
N/VSS, Nitrogen % in Biomass	5.00	~	12.0	12.0	%
P/VSS, Phosphofus % in Biomass	1.00	~	7.50	5.8	P uptaking (%)



Note: The Buffer Zone remains unchanged from the existing permit

SHEET:	
JOB: 14CCSUD001	
DATE: 02-26-2020	
DRAWN: GS	PM:
DESIGN: CB	DM:
PEER:	OTHER:

GATEHOUSE WWTF
BUFFER ZONE MAP

M&S ENGINEERING
CIVIL | ELECTRICAL | STRUCTURAL | MEP
TEXAS PROFESSIONAL ENGINEERING FIRM # F-1394
WWW.MSENGR.COM | (830) 228-5446

Gatehouse WWTF - Site Map

1:4,514

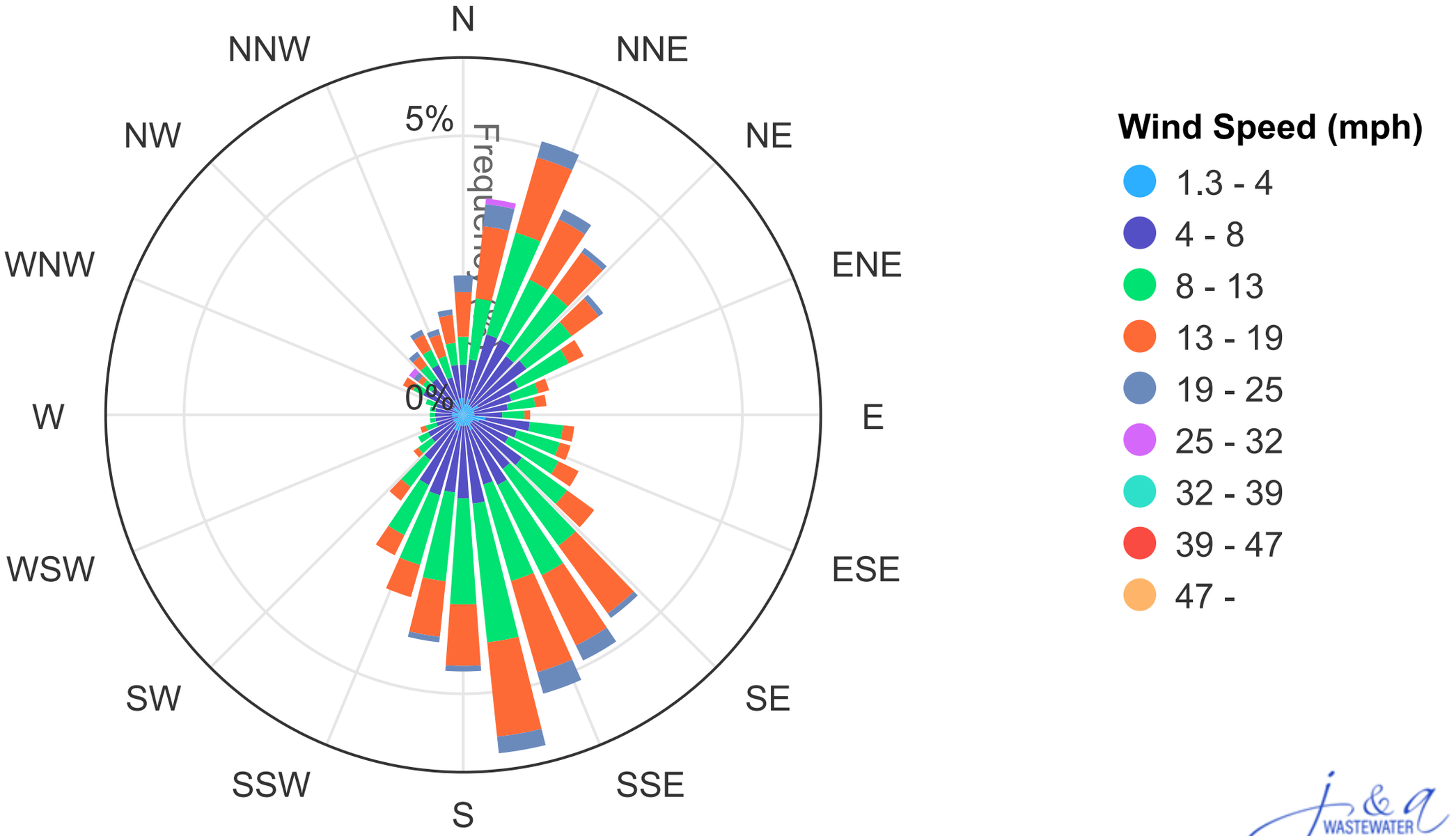
0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

J & A WASTEWATER

NEW BRAUNFELS MUNICIPAL AP (TX) Wind Rose

October 01, 2023 - October 01, 2024
Sub-Interval: January 1 - December 31, 0 - 24



Gatehouse WWTF – Solids Management Plan

The permit application includes three phases of flows as described below:

- Phase 1 = 0.0373 MGD
- Phase 2 = 0.070 MGD
- Final Phase = 0.100 MGD

Estimated solids generation is based on the below listed criteria:

- Average Influent BOD = 350 mg/L
- Design Influent BOD = 350 mg/L
- Solids Generated = 0.98 Pound Solids per Pound of BOD applied
- Calculations are based on the average influent BOD, as stipulated in Chapter 217.250 for firm dewatering capacity.

(a) Operating range for the mixed liquor suspended solids in the treatment process based on design flow and projected actual flow at the facility.

Phase #	Operating Range (mg/L)
Phase 1	8,000 – 12,000
Phase 2	8,000 – 12,000
Final Phase	8,000 – 12,000

(b) Description of the procedure and method of solids removal from both wastewater and sludge treatment processes.

The sludge wasting pumps will convey sludge from the treatment basins to the sludge holding basin in final phase. The sludge wasting pumps will be operated manually by the operator. The sludge holding basins/tanks will be pumped as a semi-liquid onto a transport truck where it will be taken to a permitted landfill.

(c) Quantity of solids to be removed from the process and schedule for removal of solids designed to maintain an appropriate solids inventory.

Solids will be removed from the sludge holding basin on a 10-day rotation during final phase. Gatehouse WWTF currently does not plan to process waste activated sludge from other wastewater treatment plants in liquid or cake form through its sludge processing facilities.

<u>Solids Generated at 100, 75, 50, and 25 percent Design Flow:</u>

Phase 1: 0.0373 MGD
100% Flow: Solids Generation = (350 mg/l)(0.0373MGD)(8.34 lb/mg)(0.98) = 107 lb/day
75% Flow: Solids Generation = (350 mg/l)(0.0279MGD)(8.34 lb/mg)(0.98) = 80 lb/day
50% Flow: Solids Generation = (350 mg/l)(0.0186MGD)(8.34 lb/mg)(0.98) = 53 lb/day
25% Flow: Solids Generation = (350 mg/l)(0.0093MGD)(8.34 lb/mg)(0.98) = 27 lb/day

Phase 2: 0.070 MGD
100% Flow: Solids Generation = (350 mg/l)(0.07MGD)(8.34 lb/mg)(0.98) = 200 lb/day
75% Flow: Solids Generation = (350 mg/l)(0.0525MGD)(8.34 lb/mg)(0.98) = 150 lb/day
50% Flow: Solids Generation = (350 mg/l)(0.035MGD)(8.34 lb/mg)(0.98) = 100 lb/day
25% Flow: Solids Generation = (350 mg/l)(0.0175MGD)(8.34 lb/mg)(0.98) = 50 lb/day

Final Phase: 0.100 MGD
100% Flow: Solids Generation = (350 mg/l)(0.100MGD)(8.34 lb/mg)(0.98) = 286 lb/day
75% Flow: Solids Generation = (350 mg/l)(0.075MGD)(8.34 lb/mg)(0.98) = 215 lb/day
50% Flow: Solids Generation = (350 mg/l)(0.050MGD)(8.34 lb/mg)(0.98) = 143 lb/day
25% Flow: Solids Generation = (350 mg/l)(0.025MGD)(8.34 lb/mg)(0.98) = 72 lb/day

RE: Application to Renew for Permit No.: WQ0015266001 (EPA I.D. No. TX0135488)
Applicant Name: Crystal Clear Special Utility District (CN605149392)
Site Name: Gatehouse WWTF (RN107324121)
Type of Application: Renewal with changes

Please see responses below in blue:

1. Core Data Form, Section III, item 24: Please provide a county.

   Please see revised Core Data Form.

2. The following is a portion of the NORI which contains information relevant to your application. Please read it carefully and indicate if it contains any errors or omissions. The complete notice will be sent to you once the application is declared administratively complete.

APPLICATION. Crystal Clear Special Utility District, 2370 Farm-to-Market Road 1979, San Marcos, Texas 78666, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0015266001 (EPA I.D. No. TX0135488) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 100,000 gallons per day. The domestic wastewater treatment facility is located at 5975 Farm-to-Market Road 1102, near the city of New Braunfels, in Comal County, Texas 78132. The discharge route is from the plant site to Water Hole Creek; thence to Soil conservation Service Site 3 Reservoir; thence to Water Hold Creek; thence to York Creek; thence to the Lower San Marcos River. TCEQ received this application on February 28, 2025. The permit application will be available for viewing and copying at New Braunfels Public Library, 700 East Common Street, New **Braunfes**, in Comal County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.058333,29.777222&level=18

Further information may also be obtained from Crystal Clear Special Utility District at the address stated above or by calling Ms. Janela Revilla, E.I.T., Project Engineer/JA Wastewater, LLC, at 737-864-3476.

The applicant and facility information is correct. There's just one typo on the spelling of "Braunfels" as highlighted above.

3. The application indicates that public notices in Spanish are required. After confirming the portion of the NORI above does not contain any errors or omissions, please use the attached template to translate the NORI into Spanish. Only the first and last paragraphs are unique to this application and require translation. Please provide the translated Spanish NORI in a Microsoft Word document.

   Please see attached translation.

4. Please provide an electronic copy of the complete application in a single PDF file. The electronic copy may be submitted via email to WQ-ARPTeam@tceq.texas.gov (25MB size file or smaller) or via TCEQs file transfer protocol (FTP) server using the following steps.
   a. Sign in and upload your application as a single PDF file using the TCEQ FTP server: https://ftps.tceq.texas.gov/index.php.
   b. Share the uploaded file to the email address: WQDeCopy@tceq.texas.gov.

   The file was shared with the email address listed above.

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(830) 372-1031	None	( ) -

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.)*

Gatehouse WWTF

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	5975 FM 1102							
	City	New Braunfels	**State**	TX	**ZIP**	78132	**ZIP + 4**	
24. County	Comal							

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

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**

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

27. Latitude (N) In Decimal:	29.7775N		**28. Longitude (W) In Decimal:**	98.0582W	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	46	38.74	-98	3	29.43

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

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

Wastewater Treatment

34. Mailing Address:	**2370 FM 1979**							
	City	**San Marcos**	**State**	**TX**	**ZIP**	**78666**	**ZIP + 4**	
35. E-Mail Address:	**regina@crystalclearsud.org**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 372-1031	**None**	( ) -

Francesca Findlay

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Thursday, March 6, 2025 9:51 AM
To: Francesca Findlay
Cc: Jamie Miller
Subject: Re: WQ0015266001 Crystal Clear Special Utility District
Attachments: 2025.03.06_Admin_NOD_Response.pdf; Spanish Translation.docx

Good morning Francesca,

Please see our response in the attached pdf along with one revised form and the Spanish translation. I also shared the full application pdf in the TCEQ server as requested.

Let me know if you need anything else and have a good Thursday!

Thanks,
Janela Revilla

Janela Revilla
Project Engineer
JA Wastewater, LLC
(737) 864-3476
jrevilla@jawastewater.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Wednesday, March 5, 2025 3:34 PM
To: Janela Revilla <jrevilla@jawastewater.com>
Cc: Jamie Miller <jmiller@jawastewater.com>
Subject: FW: WQ0015266001 Crystal Clear Special Utility District

Dear Ms. Revilla:

The attached Notice of Deficiency letter sent on March 5, 2025, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention March 20, 2025.

Thank you,

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

Texas Commission on Environmental Quality

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

How is our customer service? Fill out our online customer satisfaction survey at http://www.tceq.texas.gov/customersurvey.