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

DOMESTIC WASTEWATER/STORMWATER

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

Comal Independent School District (CN600249825) operates Spring Branch Middle School WWTP (RN102077542), a wastewater treatment plant serving the school. The facility is located at 21053 SH 46 W, in Spring Branch, Comal County, Texas 78070. The facility disposes of 13,000 gallons of treated wastewater per day through a subsurface area drip dispersal system. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD5, total suspended solids, and E. coli. Domestic sewage is treated by a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, and a chlorine contact chamber.

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

El Distrito Escolar Independiente de Comal (CN600249825) opera la WWTP de la escuela secundaria Spring Branch (RN102077542), una planta de tratamiento de aguas residuales que presta servicio a la escuela. La instalación está ubicada en 21053 SH 46 W, en Spring Branch, condado de Comal, Texas 78070. La instalación elimina 13,000 galones de aguas residuales tratadas por día a través de un sistema de dispersión por goteo en el subsuelo. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que las descargas de la instalación contengan BOD5, sólidos suspendidos totales y E. coli. Las aguas residuales domésticas son tratadas mediante una rejilla de barras, un estanque de ecualización, un estanque de aireación, un clarificador final, un digestor aeróbico de lodos y una cámara de contacto de cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0013812003

APPLICATION. Comal Independent School District, 1404 Interstate 35 North, New Braunfels, Texas 78130, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0013812003 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 13,000 gallons per day via public access subsurface drip irrigation system with a minimum area of 130,000 square feet. The domestic wastewater treatment facility and disposal area are located at 21053 State Highway 46 West, near the city of Spring Branch, in Comal County, Texas 78070. TCEQ received this application on January 13, 2025. The permit application will be available for viewing and copying at Comal School District, Administration Building, 1404 Interstate 35 North, 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/tlap-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.436666,29.798333&level=18

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public

interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Comal Independent School District at the address stated above or by calling Mr. Trent DeWaters, Director of Facilities Maintenance, at 830-221-2637.

Issuance Date: March 11, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0013812003

SOLICITUD. Distrito Escolar Independiente de Comal, 1404 North Interstate Highway 35, New Braunfels, Texas 78130 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para renovar el Permiso No.WQ0013812003 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 13,000 galones por día por medio de sistema de dispersión por goteo en el subsuelo de acceso público con un área mínima de 130,000 pies cuadrados. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 21053 State Highway 46 West, Spring Branch en el Condado de Comal, Texas. La TCEQ recibió esta solicitud el día 13 de enero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Comal School District edificio administrativo, 1404 Interstate 35 North, New Braunfels, en Condado de Comala 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://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.436666,29.798333&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 Comal Independent School District a la dirección indicada arriba o llamando a Trent DeWaters al 830-221-2637.

Fecha de emisión: 11 de marzo de 2025

Comal Independent School District

Spring Branch Middle School
Wastewater Permit Renewal Application

December 2024

ADMINISTRATIVE REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Comal Independent School District

PERMIT NUMBER (If new, leave blank): WQ00 13812003

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: 1000040977

Check/Money Order Amount: $315.00

Name Printed on Check: Comal Independent School District

EPAY — Voucher Number: Click to enter text.

Copy of Payment Voucher enclosed? Yes ☐

Section 2. Type of Application (Instructions Page 26)

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

☒ Publicly-Owned Domestic Wastewater

☐ Privately-Owned Domestic Wastewater

☐ Conventional Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 13812003

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

Expiration Date: March 1, 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?

Comal Independent School 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: 600249825

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

Prefix: Mr. Last Name, First Name: Mulroney, Malcolm

Title: Chief Operations Officer Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Wootton, Cody

Title: EIT Credential: Click to enter text.

Organization Name: Dunaway

Mailing Address: 118 McKinney Street City, State, Zip Code: Farmersville, TX 75442

Phone No.: 972-784-7777 E-mail Address: cwootton@dunaway.com

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Campbell, Bradley

Title: Plant Supervisor Credential: WWTP Operator C

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-708-6458 E-mail Address: bradley.campbell@comalisd.org

Check one or both: ☐ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Campbell, Bradley

Title: Plant Supervisor Credential: WWTP Operator C

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-7086458 E-mail Address: bradley.campbell@comalisd.org

B. Prefix: Mr. Last Name, First Name: DeWaters, Trent

Title: Director of Facilities Maintenance Credential: Click to enter text.

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-221-2637 E-mail Address: trent.dewaters@comalisd.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: Mr. Last Name, First Name: DeWaters, Trent

Title: Director of Facilities Maintenance Credential: Click to enter text.

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-221-2637 E-mail Address: trent.dewaters@comalisd.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: Mr. Last Name, First Name: Campbell, Bradley

Title: Plant Supervisor Credential: WWTP Operator C

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-708-6458 E-mail Address: bradley.campbell@comalisd.org

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: DeWaters, Trent

Title: Director of Facilities Maintenance Credential: Click to enter text.

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-221-2637 E-mail Address: trent.dewaters@comalisd.org

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Mr. Last Name, First Name: DeWaters, Trent

Title: Director of Facilities Maintenance Credential: Click to enter text.

Organization Name: Comal Independent School District

Mailing Address: 1404 IH 35 N City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-221-2637 E-mail Address: trent.dewaters@comalisd.org

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: Comal School District Administration

Location within the building: Click to enter text.

Physical Address of Building: 1404 IH 35 N

City: New Braunfels County: Comal

Contact (Last Name, First Name): Stanford, Steve

Phone No.: 830-885-1791 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: Appendix B

G. Public Involvement Plan Form

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

Attachment: N/A

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. **RN** 102077542

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):

Spring Branch Middle School

C. Owner of treatment facility: Comal Independent School District

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

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

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

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

Organization Name: Comal Independent School District

Mailing Address: 1404 I 35 Frontage Rd. City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-885-1791 E-mail Address: Click to enter text.

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

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

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

Organization Name: Comal Independent School District

Mailing Address: 1404 I 35 Frontage Rd. City, State, Zip Code: New Braunfels, TX 78130

Phone No.: 830-885-1791 E-mail Address: Click to enter text.

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

Attachment: Click to enter text.

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☒ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: Spring Branch

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

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

Into a SADDS system to nearby fields

E. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Upper Cibolo Creek (segment 1908 of San Antonio River Basin)

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

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:

Appendix C

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

☐ Attachment 1 for Individuals as co-applicants

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

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0013812003

Applicant: Comal Independent School 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): Malcolm Mulroney

Signatory title: Chief Operations Officer

Signature: _____ Date: 10/29/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Malcolm Mulroney

on this 29 day of October, 20 24.

My commission expires on the 3 day of May, 20 24.

_____

Notary Public

SELMA GARCIA DEALBA
Notary Public, State of Texas
My Commission Expires
May 03, 2026
NOTARY ID 13155362-9

[SEAL]

Comal

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

C. Indicate by a check mark in which format the landowners list is submitted:

☐ USB Drive ☐ Four sets of labels

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

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

☐ At least one original photograph of the new or expanded treatment unit location

☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site

☐ A plot plan or map showing the location and direction of each photograph

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

☐ Ownership

☐ Restrictive easement

☐ Nuisance odor control

☐ Variance

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

☐ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

WATER QUALITY PERMIT

PAYMENT SUBMITTAL FORM

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

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

Mail this form and the check or money order to:

BY REGULAR U.S. MAIL

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

BY OVERNIGHT/EXPRESS MAIL

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

Fee Code: WQP **Waste Permit No:** WQ0013812003

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

   Name of Project or Site: Spring Branch Middle School

   Physical Address of Project or Site: 21053 SH 46 W, Spring Branch, TX 78070-6125

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

Staple Check or Money Order in This Space

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

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

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

Date of Birth: Click to enter text.

Mailing Address: Click to enter text.

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

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

E-mail Address: Click to enter text.

CN: Click to enter text.

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Landowners Labels or USB Drive attached ☒ N/A ☐ Yes
(See instructions for landowner requirements)

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

Plain Language Summary ☒ Yes

TECHNICAL REPORT

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

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

Section 1. Permitted or Proposed Flows (Instructions Page 43)

A. Existing/Interim I Phase

Design Flow (MGD): 0.013

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 0.013

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

D. Current Operating Phase

Provide the startup date of the facility: Existing, 1996

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Facility consists of an activated sludge process plant using extended aeration mode. Treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, and a chlorine contact chamber.

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)
Dosing Tank	1	40’ x 12’ x 12’2”
Equalization basin	1	4’ x 12’ x 11’2”
Aeration basin	1	20’ x 12’ x 11’2”
Clarifier	1	10’ diameter x 11’2”
Aerobic sludge digester	1	6’ x 12’ x 11’2”
Chlorine contact chamber	1	2’ x 12’ x 11’2”

C. Process Flow Diagram

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

Attachment: Appendix D

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

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

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

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

- Latitude: 29.797237
- Longitude: -98.436761

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: Appendix E

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

Spring Branch Middle School students and faculty sewage services

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 07/17/1996

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Click to enter text.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

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.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☐ No

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

TXR05 Click to enter text. or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

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

Click to enter text.

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

F. 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.
Click to enter text.

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.

Click to enter text.

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

2. *Acceptance of septic waste*

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ 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.

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	1	1	1	Grab	12/27/2024
Total Suspended Solids, mg/l	7	7	1	Grab	12/27/2024
Ammonia Nitrogen, mg/l	80.8	80.8	1	Grab	12/27/2024
Nitrate Nitrogen, mg/l	23.3	23.3	1	Grab	12/27/2024
Total Kjeldahl Nitrogen, mg/l	80	80	1	Grab	12/27/2024
Sulfate, mg/l	180	180	1	Grab	12/27/2024
Chloride, mg/l	103	103	1	Grab	12/27/2024
Total Phosphorus, mg/l	9.26	9.26	1	Grab	12/27/2024
pH, standard units	7.5	8.2	24	Grab	8/22-7/24
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A
Chlorine Residual, mg/l	1.4	1.8	24	Grab	8/22-7/24
E.coli (CFU/100ml) freshwater	1	1	1	Grab	12/27/2024
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	688	688	1	Grab	12/27/2024
Electrical Conductivity, µmohs/cm, †	1,341	1,341	1	Grab	12/27/2024
Oil & Grease, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$)*, mg/l	N/A	N/A	N/A	N/A	N/A

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Bradley Campbell

Facility Operator's License Classification and Level: C

Facility Operator's License Number: WW0049414

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

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

B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Biosolids Management

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

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

Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk	1500-2500 gal	Class B: PSRP Aerobic Digestion	Option 9: Subsurface injection
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: GBRA FM 20 Plant

TCEQ permit or registration number: W0010210002

County where disposal site is located: Caldwell

E. Transportation method

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

Name of the hauler: Weidner Septic

Hauler registration number: 20801

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

A. Additional authorizations

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Malcolm Mulroney

Title: Chief Operations Officer

Signature: 

Date: 10/29/2024

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 57)

A. Justification of permit need

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

Click to enter text.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☐ Not Applicable

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

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. *Utility CCN areas*

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

☐ Yes ☐ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

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

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

A. Current organic loading

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

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

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

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

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

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

A. Existing/Interim I Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

B. Interim II Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

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

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

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

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

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

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

Dechlorination process: Click to enter text.

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

☐ Other: Click to enter text.

Section 4. Design Calculations (Instructions Page 59)

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

Attachment: Click to enter text.

Section 5. Facility Site (Instructions Page 60)

A. 100-year floodplain

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

☐ Yes ☐ No

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

Click to enter text.

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

Click to enter text.

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

B. Wind rose

Attach a wind rose: Click to enter text.

Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

A. Beneficial use authorization

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

☐ Yes ☐ No

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

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

Attachment: Click to enter text.

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

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

☐ Yes ☐ No

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

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

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

A. Receiving water outfall

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

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☐ No

If yes, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

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

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

A. Upstream influences

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

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

B. Waterbody uses

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

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

C. Waterbody aesthetics

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

Section 1. General Information (Instructions Page 66)

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

Stream name: Click to enter text.

Location: Click to enter text.

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

☐ Perennial ☐ Intermittent with perennial pools

Section 2. Data Collection (Instructions Page 66)

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

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

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

Number of riffles: Click to enter text.

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

Click to enter text.

Stream transects

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

Table 2.1(1) - Stream Transect Records

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

Section 3. Summarize Measurements (Instructions Page 66)

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

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

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

Number of lateral transects made: Click to enter text.

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

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

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

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

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

- ☐ Surface application
- ☐ Subsurface application
- ☐ Irrigation
- ☐ Subsurface soils absorption
- ☐ Drip irrigation system
- ☒ Subsurface area drip dispersal system
- ☐ Evaporation
- ☐ Evapotranspiration beds
- ☐ Other (describe in detail): Click to enter text.

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

For existing authorizations, provide Registration Number: RN102077542

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

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Bermuda and Rye grass	2.984	13000	Y

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
Welded Steel Tank	0.05	0.123	40’ x 12’ x 11’2”	

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

Attachment: N/A

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

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

☐ Yes ☒ No

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

Click to enter text.

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

FEMA’s National Flood Hazard Layer (NFHL) Viewer

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

Typical open field grading/landscaping

Section 5. Annual Cropping Plan (Instructions Page 68)

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

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

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

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

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

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

Table 3.0(3) – Water Well Data

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
1	Domestic	Y	Cased	Meets buffer & Cased

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
2	Public Supply	Y	Cased	Meets buffer & Cased
3	Domestic	Y	Cased	Meets buffer & Cased
4	Domestic	Y	Cased	Meets buffer & Cased
5	Domestic	N	Plugged	Plugged
6	Public Supply	Y	Cased	Cased, owned by WWTP owner
7	Public Supply	Y	Cased	Meets buffer & Cased
8	Public Supply	Y	Cased	Meets buffer & Cased
9	Public Supply	Y	Cased	Meets buffer & Cased

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

Attachment: Appendix G

Section 7. Groundwater Quality (Instructions Page 69)

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

Attachment: Appendix H

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: Click to enter text.

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

A. Soil map

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

Attachment: Appendix I

B. Soil analyses

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

Attachment: Appendix J

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface (in)	Permeability (µm/s)	Available Water Capacity (cm/cm)	Curve Number
BtD	5-20	9.0	0.11	80
BtG	8-19	9.0	0.13	80

Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☒ Yes ☐ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
Jul 2024	0.001276	5	5	7.1	1.4	2.984
Jun 2024	0.001748	4	5	6.8	1.3	2.984
May 2024	0.005542	25	3	7.7	1.8	2.984
Apr 2024	0.006220	16	7	7.8	1.8	2.984
Mar 2024	0.005210	17	5	7.2	1.6	2.984
Feb 2024	0.006069	13	8	7.9	1.3	2.984
Jan 2024	0.007277	8	7	7.6	1.2	2.984
Dec 2023	0.003355	10	9	7.6	1.4	2.984
Nov 2023	0.007344	7	5	7.6	1.2	2.984
Oct 2023	0.007752	7	4	7.4	1.2	2.984
Sept 2023	0.007050	18	4	7.7	1.3	2.984
Aug 2023	0.003039	3	3	6.6	1.3	2.984

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated
July 2023	0.001487	3	6	6.7	1.4	2.984
Jun 2023	0.001803	<3	2	7.6	1.3	2.984
May 2023	0.007955	11	2	7.8	1.2	2.984
Apr 2023	0.005787	14	4	7.6	1.3	2.984
Mar 2023	0.004429	8	3	7.3	1.4	2.984
Feb 2023	0.005675	5	5	7.5	1.3	2.984
Jan 2023	0.005358	4	6	7.1	1.4	2.984
Dec 2022	0.006371	5	12	7.8	1.3	2.984
Nov 2022	0.002970	4	17	7.7	1.4	2.984
Oct 2022	0.003723	3	9	7.6	1.3	2.984
Sept 2022	0.003920	4	9	7.6	1.3	2.984
Aug 2022	0.002152	2	7	8.2	1.4	2.984

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

Click to enter text.

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

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

Section 1. Surface Disposal (Instructions Page 72)

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

A. Irrigation

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

Design application frequency:

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

Land grade (slope):

average percent (%): Click to enter text.

maximum percent (%): Click to enter text.

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

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

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

Method of application: Click to enter text.

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

Attachment: Click to enter text.

B. Evaporation ponds

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

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

Attachment: Click to enter text.

C. Evapotranspiration beds

Number of beds: Click to enter text.

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

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

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

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

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

Attachment: Click to enter text.

D. Overland flow

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

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

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

Slope length, in feet: Click to enter text.

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

Design application frequency:

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

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

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

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

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

Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

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

Application area, in acres: Click to enter text.

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

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

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

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

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

Number of beds: Click to enter text.

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

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

Storage volume, in gallons: Click to enter text.

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

Soil Classification: Click to enter text.

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

Attachment: Click to enter text.

Section 2. Edwards Aquifer (Instructions Page 74)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

Section 1. Administrative Information (Instructions Page 75)

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

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

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

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

☐ Yes ☐ No

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

Click to enter text.

Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

A. Type of system

☐ Subsurface Drip Irrigation

☐ Surface Drip Irrigation

☐ Other, specify: Click to enter text.

B. Irrigation operations

Application area, in acres: Click to enter text.

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

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

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

Storage volume, in gallons: Click to enter text.

Major soil series: Click to enter text.

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

C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

D. Dosing information

Number of doses per day: Click to enter text.

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

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

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

Number of zones: Click to enter text.

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 3. Required Plans (Instructions Page 75)

A. Recharge feature plan

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

Attachment: Click to enter text.

B. Soil evaluation

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

Attachment: Click to enter text.

C. Site preparation plan

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

Attachment: Click to enter text.

D. Soil sampling/testing

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

Attachment: Click to enter text.

Section 4. Floodway Designation (Instructions Page 76)

A. Site location

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

☐ Yes ☐ No

B. Flood map

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

Attachment: Click to enter text.

Section 5. Surface Waters in the State (Instructions Page 76)

A. Buffer Map

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

Attachment: Click to enter text.

B. Buffer variance request

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 6. Edwards Aquifer (Instructions Page 76)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☐

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

Table 4.0(1) – Toxics Analysis

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

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

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

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

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

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

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

Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

Table 4.0(2)B – Volatile Compounds

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

Table 4.0(2)C – Acid Compounds

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

Table 4.0(2)D – Base/Neutral Compounds

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

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

Table 4.0(2)E - Pesticides

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

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

Section 3. Dioxin/Furan Compounds

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

☐ 2,4,5-trichlorophenoxy acetic acid

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

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

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

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

Common Name Erbon, CASRN 136-25-4

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

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

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

Click to enter text.

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

☐ Yes ☐ No

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

Click to enter text.

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

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

Grab ☐ Composite ☐

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

Table 4.0(2)F – Dioxin/Furan Compounds

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: Click to enter text.

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Summary of WET Tests

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

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

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

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Significant IUs – non-categorical:

Number of IUs: 0

Average Daily Flows, in MGD: 0

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: 0

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.

Click to enter text.

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.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☒ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☒ No

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

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

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

A. Substantial modifications

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

☐ Yes ☒ No

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

Click to enter text.

B. Non-substantial modifications

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

☐ Yes ☒ No

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

Click to enter text.

C. Effluent parameters above the MAL

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

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
N/A				

D. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

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

A. General information

Company Name: N/A

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

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

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

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

N/A

C. Product and service information

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

N/A

D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: N/A

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Category: Subcategories: N/A

Click or tap here to enter text. Click to enter text.

Category: N/A

Subcategories: Click to enter text.

Category: N/A

Subcategories: Click to enter text.

Category: N/A

Subcategories: Click to enter text.

Category: N/A

Subcategories: Click to enter text.

F. Industrial user interruptions

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

☐ Yes ☒ No

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

Click to enter text.

WORKSHEET 7.0

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

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

RN102077542
Authorized: 07/17/1996

Section 1. General Information (Instructions Page 92)

1. TCEQ Program Area

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

Program ID: Click to enter text.

Contact Name: Click to enter text.

Phone Number: Click to enter text.

2. Agent/Consultant Contact Information

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

3. Owner/Operator Contact Information

☐ Owner ☐ Operator

Owner/Operator Name: Click to enter text.

Contact Name: Click to enter text.

Address: Click to enter text.

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

Phone Number: Click to enter text.

4. Facility Contact Information

Facility Name: Click to enter text.

Address: Click to enter text.

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

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

Facility Contact Person: Click to enter text.

Phone Number: Click to enter text.

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

Latitude: Click to enter text.

Longitude: Click to enter text.

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: Click to enter text.

7. **Purpose**

Detailed Description regarding purpose of Injection System:

Click to enter text.

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

8. **Water Well Driller/Installer**

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

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

Phone Number: Click to enter text.

License Number: Click to enter text.

Section 2. Proposed Down Hole Design

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

Table 7.0(1) – Down Hole Design Table

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

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

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

System(s) Dimensions: Click to enter text.

System(s) Construction: Click to enter text.

Section 4. Site Hydrogeological and Injection Zone Data

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

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

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

4. Surface Elevation: Click to enter text.

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

6. Injection Zone Depth: Click to enter text.

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

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

Name: Click to enter text.

Thickness: Click to enter text.

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

Attach as Attachment E.

9. Horizontal and Vertical extent of contamination and injection plume

Attach as Attachment F.

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

Attach as Attachment G.

11. Injection Fluid Chemistry in PPM at point of injection

Attach as Attachment H.

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

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

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

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

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

17. Sampling frequency: Click to enter text.

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

Section 5. Site History

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

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

Class V Injection Well Designations

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

APPENDIX A

CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600249825		**RN 102077542**

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:*

Comal Independent School 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)*
		74-6001777	010541498

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

12. Number of Employees

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

13. Independently Owned and Operated?

☒ **Yes** ☐ **No**

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

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

15. Mailing Address:	1404 IH 35 N						
	City	New Braunfels	**State**	TX	**ZIP**	78130	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	trent.dewaters@comalisd.org

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(830) 885-1791		( ) -

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.)*

SPRING BRANCH MIDDLE SCHOOL

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	21053 SH 46 W							
	City	Spring Branch	**State**	TX	**ZIP**	78070	**ZIP + 4**	6125
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:	29.79785		**28. Longitude (W) In Decimal:**	-98.43511	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29°	47'	52.26"N	98°	26'	6.396"W

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)
8211	1542		

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

Middle School

34. Mailing Address:	**21053 SH 46 W**							
	City	**Spring Branch**	**State**	**TX**	**ZIP**	**78070**	**ZIP + 4**	**6125**
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 221-2989		( ) -

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:
	WQ0013812003			

SECTION IV: Preparer Information

40. Name:	Cody Wootton, EIT	**41. Title:**	Graduate Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(972) 784-7777		( ) -	cwootton@dunaway.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:	Comal ISD	**Job Title:**	Chief operations officer
Name *(In Print):*	Malcolm Mulroney	**Phone:**	(830) 221 2150
Signature:		**Date:**	10/29/2024.

APPENDIX B

PLAIN LANGUAGE SUMMARY

DOMESTIC WASTEWATER/STORMWATER

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

Comal Independent School District (CN600249825) operates Spring Branch Middle School WWTP (RN102077542), a wastewater treatment plant serving the school. The facility is located at 21053 SH 46 W, in Spring Branch, Comal County, Texas 78070. The facility disposes of 13,000 gallons of treated wastewater per day through a subsurface area drip dispersal system. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain BOD5, total suspended solids, and E. coli. Domestic sewage is treated by a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, and a chlorine contact chamber.

AGUAS RESIDUALES DOMESTICAS /AGUAS PLUVIALES

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

El Distrito Escolar Independiente de Comal (CN600249825) opera la WWTP de la escuela secundaria Spring Branch (RN102077542), una planta de tratamiento de aguas residuales que presta servicio a la escuela. La instalación está ubicada en 21053 SH 46 W, en Spring Branch, condado de Comal, Texas 78070. La instalación elimina 13,000 galones de aguas residuales tratadas por día a través de un sistema de dispersión por goteo en el subsuelo. Este permiso no autorizará una descarga de contaminantes al agua del estado.

Se espera que las descargas de la instalación contengan BOD5, sólidos suspendidos totales y E. coli. Las aguas residuales domésticas son tratadas mediante una rejilla de barras, un estanque de ecualización, un estanque de aireación, un clarificador final, un digestor aeróbico de lodos y una cámara de contacto de cloro.

APPENDIX C

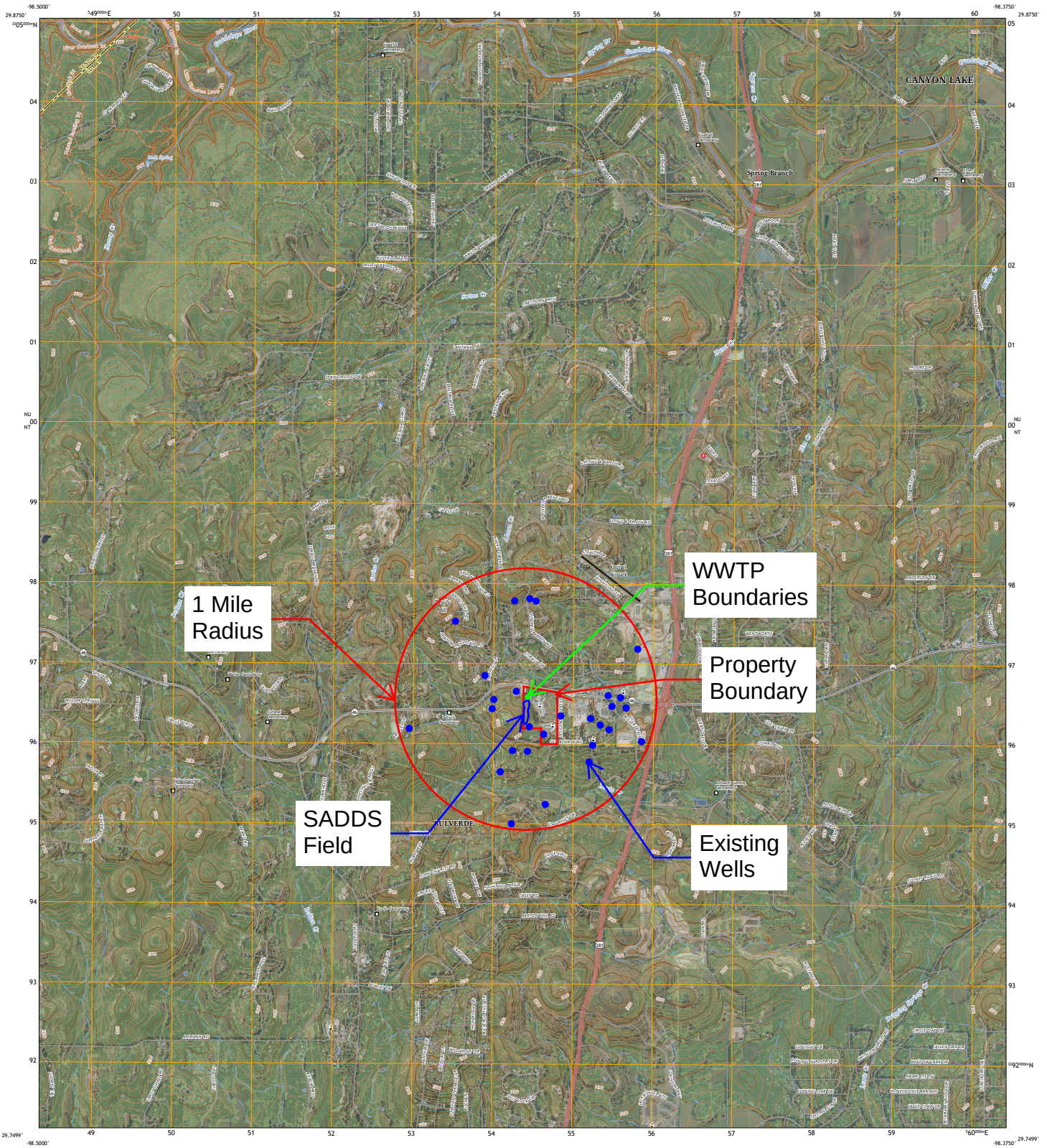
USGS TOPO MAP

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

The National Map
OnDemand Topo

7.5-MINUTE TOPO QUADRANGLE

Custom Extent
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

UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

QUADRANGLE LOCATION

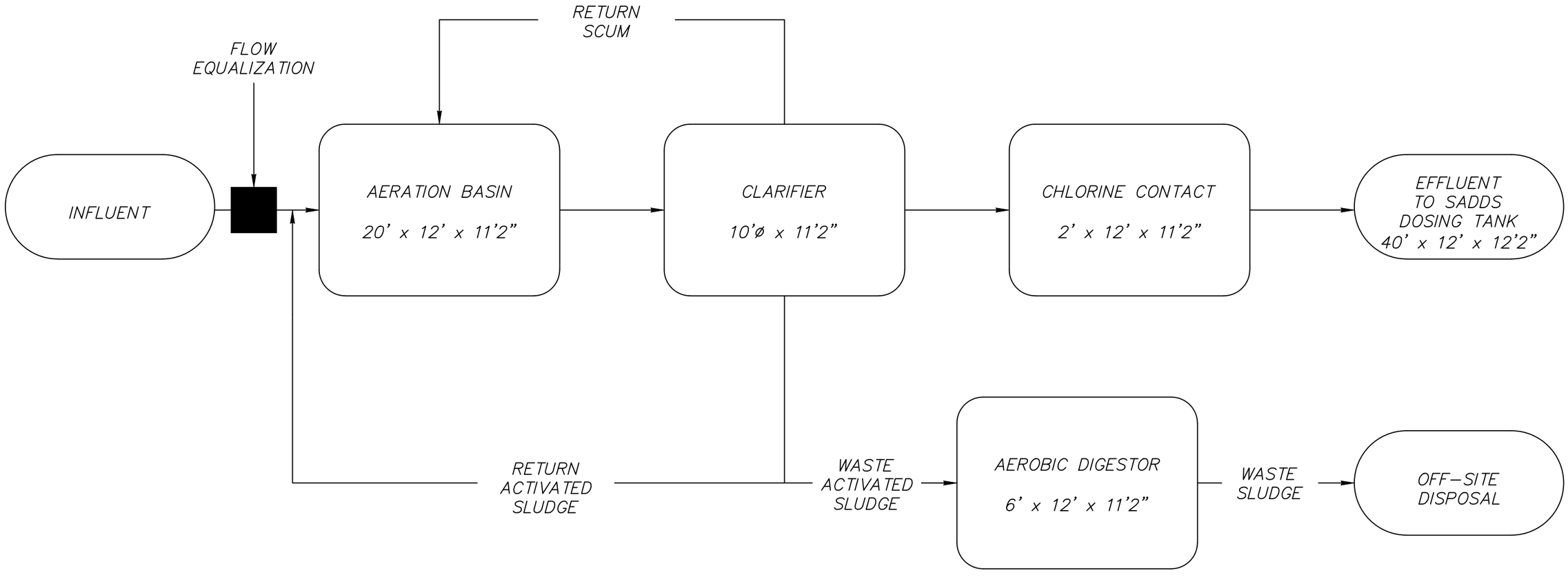
ADJOINING QUADRANGLES

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

7.5-MINUTE TOPO, TX
2024

APPENDIX D

PROCESS FLOW DIAGRAM



DUNAWAY
118 McKinney St. • P.O. Box 606 • Farmersville, Texas 75442
TEL: 972.784.7777
(TXENG FIRM F-1114)

SPRING BRANCH MIDDLE SCHOOL PROCESS FLOW DIAGRAM

APPENDIX E

SITE DRAWING

SPRING BRANCH MIDDLE SCHOOL WWTP

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TEL: 972.784.7777
(TXENG FIRM F-1114)

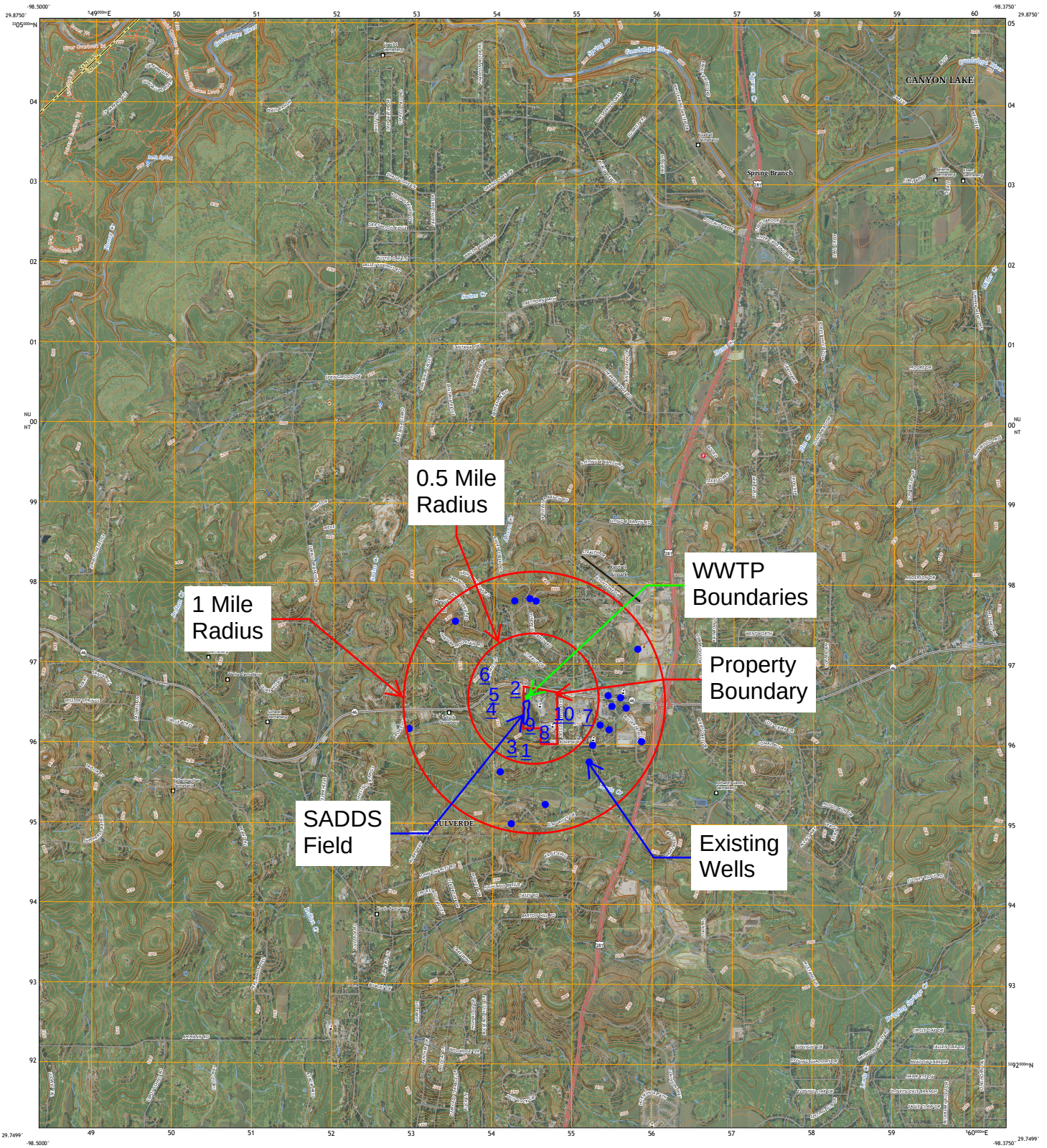
APPENDIX F

ANNUAL CROPPING PLAN

The total 130,000 square foot field which is used as the SADDS dispersal field will grow only Bermuda grass year round, overseeded with Rye every fall. The grasses grown will be cut via landscape maintenance and not harvested for any use. The grasses will be mowed to around 1-1½ inches when they reach around 2½-3 inches. This occurs weekly during growing season and monthly during off-season. The Rye is moderately salt-tolerant, while the Bermuda is very salt tolerant. This mix of grasses allows for both salt tolerance and cold weather tolerance. The field does not require fertilization or supplemental watering. Attached is a soil map showing the entirety of the field.

APPENDIX G

WELL MAP & INFORMATION



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

UTM GRID AND 2021 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

QUADRANGLE LOCATION

ADJOINING QUADRANGLES

ROAD CLASSIFICATION

7.5-MINUTE TOPO, TX
2024

Well Reports

Map ID	Well Report Tracking Number	Well Type	Water Use	County	Owner	Depth (ft)	Latitude (DD)	Longitude (DD)	Well Street
1	1973	New Well	Domestic	Comal	steve kirchoff	580	29.79333	-98.4375	1295 old berney rd
2	140334	New Well	Public Supply	Comal	Emerald Rainbow Play Place	530	29.79945	-98.43833	21155 Hwy 46 West
3	298622	New Well	Domestic	Comal	David Stanush	485	29.79333	-98.43972	1451 Old Boerne Rd.
4	476572	New Well	Domestic	Comal	Lextor LLC	550	29.79722	-98.44194	1850 Old Boerne Road
5	615024	New Well	Domestic	Comal	Dwayne Hart	501	29.79812	-98.44158	21477 State Hwy 46 W

TWDB Database

	State Well Number	Well Type	Water Use	County	Owner	Depth (ft)	Latitude (DD)	Longitude (DD)	Elevation (ft)
6	6813502 - Scanned Documents	Withdrawal of Water	Public Supply	Comal	SAWS Oakland Estates	500	29.80222	-98.44333	1308
7	6813517 - Scanned Documents	Withdrawal of Water	Public Supply	Comal	Cedar Hill Day Camp Well #1	470	29.79695	-98.42917	1232
8	6813519 - Scanned Documents	Withdrawal of Water	Public Supply	Comal	CISD-Seay Spring Middle School-Well #1	504	29.79445	-98.43445	1267
9	6813520 - Scanned Documents	Withdrawal of Water	Public Supply	Comal	CISD-Seay Spring Middle School-Well #2	503	29.79556	-98.43667	1269
10	6813521 - Scanned Documents	Withdrawal of Water	Public Supply	Comal	Hill Country Christian Church (Well #1)	490	29.79639	-98.4325	1229

Well Reports			
Well City	Well Zip Code	Date of Well Completion	Map ID
Boerne	78666	6-Aug-01	1
Bulverde	78163	9-Apr-08	2
Bulverde	78163	26-Jul-12	3
Bulverde	78163	5-Apr-18	4
Spring branch	78070	2-Aug-22	5

TWDB Database			
Water Level Observation Type	Water Quality Available	Aquifer Code Name	
Miscellaneous Measurements	Y	218GLRS - Glen Rose Limestone	6
Miscellaneous Measurements	N	218GLRS - Glen Rose Limestone	7
Miscellaneous Measurements	N	218HSCC - Hensell Sand and Cow Creek Limestone	8
Miscellaneous Measurements	N	218HSCC - Hensell Sand and Cow Creek Limestone	9
Miscellaneous Measurements	N	218HSCC - Hensell Sand and Cow Creek Limestone	10

STATE OF TEXAS WELL REPORT for Tracking #1973

Owner:	**steve kirchoff**	Owner Well #:	**No Data**
Address:	**1295 old berney rd berney, TX 78666**	Grid #:	**68-13-5**
Well Location:	**1295 old berney rd berney, TX 78666**	Latitude:	**29° 47' 36" N**
		Longitude:	**098° 26' 15" W**
Well County:	**Comal**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **8/1/2001** Drilling End Date: **8/6/2001**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**280**
7	**280**	**580**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**360**	**32**

Seal Method: **Pressure**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **160**

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

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **350 ft.** below land surface on **2001-08-06** Measurement Method: **Unknown**

Packers: **1 rubber 360**

Type of Pump: **Submersible** Pump Depth (ft.): **441**

Well Tests: **Jetted** **Yield: 20 GPM with 100 ft. drawdown after 3 hours**

Water Quality:

Strata Depth (ft.)	Water Type
500-580	**sweet**

Chemical Analysis Made: **No**

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

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

Company Information: **S.W. Owen Drilling Co.**

P.O. Box 2150
San Marcos, TX 78667

Driller Name: **S.W. Owen** License Number: **1589**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**top soil**
1	**60**	**white lime**
60	**310**	**gray lime**
310	**350**	**blue shale**
350	**500**	**gray lime**
500	**580**	**brown lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**new**	**pvc**	**0-360 sch 40**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

STATE OF TEXAS WELL REPORT for Tracking #140334

Owner:	**Emerald Rainbow Play Place**	Owner Well #:	**6815703**
Address:	**c/o 14855 Blanco Ste 309 San Antonio, TX 78216**	Grid #:	**68-13-5**
		Latitude:	**29° 47' 58" N**
Well Location:	**21155 Hwy 46 West Bulverde, TX 78163**	Longitude:	**098° 26' 18" W**
Well County:	**Comal**	Elevation:	**1253 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Public Supply**

Drilling Start Date: **4/4/2008** Drilling End Date: **4/9/2008** **Plans Approved by TCEQ - YES**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**530**
6.75	**0**	**530**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**380**	**82PortlandCment**

Seal Method: **Pressure**

Sealed By: **Driller**

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

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

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

Method of Verification: **estimated**

Surface Completion: **Surface Slab Installed**

Water Level: **340 ft.** below land surface on **2008-04-08** Measurement Method: **Unknown**

Packers: **2 @ 380'**

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 7 GPM with 90 ft. drawdown after 36 hours**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TR Drilling & Service LLC**

P.O. Box 733
Boerne, TX 78006

Driller Name: **Johnathen Puhrmann** License Number: **57994**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Topsoil**
1	**3**	**Caliche**
3	**8**	**Tan yellow rock**
8	**13**	**Yellow rock & red clay**
13	**33**	**Yellow rock & shale**
33	**74**	**Grey rock & shale**
74	**86**	**Yellow rock**
86	**111**	**Grey rock & shale**
111	**218**	**Yellow rock little porous**
218	**314**	**Grey rock & shale**
314	**382**	**Yellow red rock**
382	**443**	**Grey rock & shale**
443	**482**	**Tan rock**
482	**504**	**Grey brown rock**
504	**515**	**Grey rock & shale**
515	**530**	**Grey shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**SDR 17 PVC**	**0-380**
6	**N**	**Sch 40 PVC Perf.**	**380-520**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #298622

Owner:	**David Stanush**	Owner Well #:	**No Data**
Address:	**1451 Old Boerne Road Bulverde, TX 78163**	Grid #:	**68-13-5**
Well Location:	**1451 Old Boerne Rd. Bulverde, TX 78163**	Latitude:	**29° 47' 36" N**
		Longitude:	**098° 26' 23" W**
Well County:	**Comal**	Elevation:	**1248 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/19/2012** Drilling End Date: **7/26/2012**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**10**	**0**	**485**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**260**	**2 3/4 yds cemen**

Seal Method: **Gravity**

Sealed By: **TR Drilling & Service**

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

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

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

Method of Verification: **Estimated**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data** on **2012-07-26** Measurement Method: **Unknown**

Packers: **2 packers = 0 - 260'**

Type of Pump: **Submersible**

Well Tests: **Estimated** **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TR Drilling & Service LLC**

PO Box 733
Boerne, TX 78006

Driller Name: **Kenneth Lee Schuchardt Jr** License Number: **50287**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Topsoil**
1	**17**	**White limestone & calichie**
17	**56**	**Grey limestone**
56	**64**	**Yellow & orange limestone**
64	**92**	**Speckled grey limestone**
92	**125**	**Grey limestone & glassy brown**
125	**182**	**Lt. tannish grey limestone**
182	**240**	**Lt. grey & brownish grey limestone**
240	**249**	**Beige & cream color limestone**
249	**264**	**Lt greenish grey & tan limestone w/trace of clay**
264	**310**	**Grey & beige limestone**
310	**325**	**Brownish grey, beige & glassy limestone**
325	**342**	**White, beige & grey & glassy limestone**
342	**370**	**White, beige, tan & glassy limestone**
370	**395**	**Med grey limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**SCH 40 PVC**	**0 - 485**

395	**430**	**Grey, white limestone glassy & trace of yellow clay**
430	**460**	**Brown limestone**
460	**471**	**Grey & brown limestone**
471	**485**	**Grey limestone w/trace of shale**

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #476572

Owner:	**Lextor LLC**	Owner Well #:	**No Data**
Address:	**20540 State Hwy 46 West, Ste 115 Spring Branch, TX 78070**	Grid #:	**68-13-5**
Well Location:	**1850 Old Boerne Road Bulverde, TX 78163**	Latitude:	**29° 47' 50" N**
		Longitude:	**098° 26' 31" W**
Well County:	**Comal**	Elevation:	**1308 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **4/5/2018** Drilling End Date: **4/5/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**550**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Quik Crete 1 Bags/Sacks**
2	**90**	**Benseal 6 Bags/Sacks**
90	**100**	**2 Quik Crete & 2 Hole Plug 4 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

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

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed** **Surface Completion by Driller**

Water Level: **No Data**

Packers: **2 Rubber Cones at 100 ft.**
2 Rubber Cones at 410 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **520**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
430 - 550	**Cow Creek**

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: **Puddle Jumper Well Company**

PO Box 204
Bulverde, TX 78163

Driller Name: **Joe Alan Wiebush** License Number: **56053**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**24**	**Brown L/S & Red Clay**
24	**85**	**Gray & Brown L/S w/Gray Shale**
85	**120**	**Gray & Yellow L/S**
120	**175**	**Gray L/S & Gray Shale**
175	**210**	**Brown L/S**
210	**235**	**Brown & Gray L/S**
235	**287**	**Brown & L. Brown L/S**
287	**365**	**Tan & Cream L/S {Cave @ 365' - Lost Returns}**
365	**410**	**No Returns L/S {Cave @ 405'}**
410	**460**	**No Returns Soft L/S**
460	**550**	**No Returns L/S (Water)**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**0**	**430**
4.5	**Screen**	**New Plastic (PVC)**	**SDR 17 0.32**	**430**	**530**
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**530**	**550**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #615024

Owner:	**Dwayne Hart**	Owner Well #:	**CTGCD510b)C -sbwws525**
Address:	**7910 Teak Lane San Antonio, TX 78209**	Grid #:	**68-13-5**
Well Location:	**21477 State Hwy 46 W Spring branch, TX 78070**	Latitude:	**29° 47' 53.23" N**
		Longitude:	**098° 26' 29.7" W**
Well County:	**Comal**	Elevation:	**1290 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **8/1/2022** Drilling End Date: **8/2/2022**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
11	**0**	**3**
9	**3**	**501**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
200	**501**	**Gravel**	**3/8**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**200**	**Cement 42 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.): **100**

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **480**

Well Tests: **Jetted** **Yield: 5 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
360 - 400	**Reef**
440 - 500	**CowCreek**

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: **Spring Branch Water Well Service**

8567 US HIGHWAY 281 N
Spring Branch, TX 78070

Driller Name: **Ernest V Haack IV**

License Number: **59587**

Comments: **3 yards of gravel used**

Report Amended on 9/28/2023 by Request #40479

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**Tan Limestone**
10	**70**	**Gray Limestone/Shale**
70	**80**	**Tan**
80	**85**	**Gray**
85	**95**	**Tan Breaks**
95	**160**	**Gray/Tan**
160	**190**	**Tan**
190	**220**	**Gray**
220	**280**	**Tan**
280	**340**	**Tan**
340	**360**	**Breaks Red Clay hard tan**
360	**400**	**Tan Limestone**
400	**440**	**Gray Shale/Limestone**
440	**495**	**Tan Limestone**
495	**501**	**Gray Limestone**
501	**501**	**TD**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR17**	**-2**	**380**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**	**0.035**	**380**	**400**
4.5	**Blank**	**New Plastic (PVC)**	**SDR17**	**400**	**440**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**	**0.035**	**440**	**500**

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P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-502

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6813502
County	Comal
River Basin	Guadalupe
Groundwater Management Area	9
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Comal Trinity GCD
Latitude (decimal degrees)	29.8022222
Latitude (degrees minutes seconds)	29° 48' 08" N
Longitude (decimal degrees)	-98.4433333
Longitude (degrees minutes seconds)	098° 26' 36" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GLRS - Glen Rose Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1308
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	500
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	6/28/1985
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	Slurry
Surface Completion	
Owner	SAWS Oakland Estates
Driller	T M Johnson
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460166A
Groundwater Conservation District Well Number	
Owner Well Number	Oakland Estates well #1 (119 WP 1)
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	12/12/1995
Last Update Date	4/18/2018

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7.625	Blank	Steel			0	163
6	Open Hole				163	500

Well Tests

Test Date	Test Type	Yield (gallons per minute)	Drawdown (ft.)	Test Hours
6/28/1985	Jetted	125		72

Lithology

Top Depth (ft.)	Bottom Depth (ft.)	Description
0	1	Top soil
1	4	White lime
4	9	Yellow lime
9	126	Gray and brown lime
126	345	Gray and yellow lime
345	359	Brown lime
359	500	No samples

Annular Seal Range

Annular Seal Material	Amount	Unit	Top Depth (ft.)	Bottom Depth (ft.)
Cement & Sand Mix	81	Cubic Feet	0	163

Borehole

Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
10.625	0	163
6.75	163	500

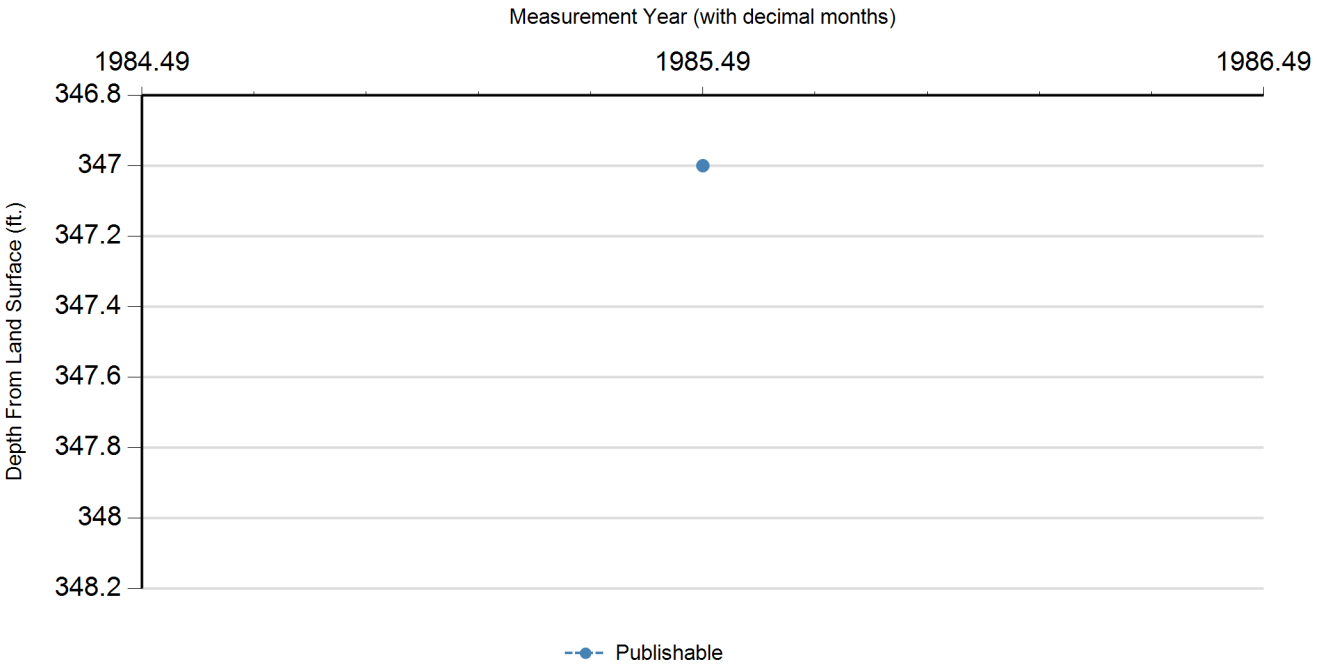
Plugged Back - No Data

Filter Pack - No Data

Packers

Packer Type	Depth (ft.)
Baker cement	160

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	6/28/1985		347		961	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 6/3/1999 **Sample Time:** 1130 **Sample Number:** 1 **Collection Entity:** Bexar Metropolitan Water District

Sampled Aquifer: Glen Rose Limestone

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		284	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		267	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)		27.8	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		325.83	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		85	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.12	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		95.4	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		11.2	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		6.8	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)	<	2	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.21	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		281	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)		2	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		3.8	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		10.5	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)		4.6	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		4.74	mg/L as NO3	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.07	mg/L as N	
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		0.028	mg/L as N	
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		0.056	mg/L as N	
00090	OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS		134.8	MV	
00400	PH (STANDARD UNITS), FIELD		6.79	SU	
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.04	mg/L as P	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		0.97	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)		10.2	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.18		
00932	SODIUM, CALCULATED, PERCENT		5	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		6.98	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		582	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		369	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		13.3	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		24.7	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		314	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		4.4	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		6.7	ug/L	

Water Quality Analysis

Sample Date: 6/7/2002 **Sample Time:** 1200 **Sample Number:** 1 **Collection Entity:** Bexar Metropolitan Water District

Sampled Aquifer: Glen Rose Limestone

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		286	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		280	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)		27.9	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		341.7	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	50	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.0544	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		98.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		12	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		1.68	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		1.65	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.21	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		292	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)		1.07	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		2.42	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		11.2	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		1.54	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		3.98	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		6.95	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.57	mg/L as N	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		6.98	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		0.82	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)		11.1	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.16		
00932	SODIUM, CALCULATED, PERCENT		4	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		6.44	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		605	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		391	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		15	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22.7	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		330	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		1.63	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		78.7	ug/L	

Water Quality Analysis

Sample Date: 6/18/2003 **Sample Time:** 1015 **Sample Number:** 1 **Collection Entity:** Bexar Metropolitan Water District

Sampled Aquifer: Glen Rose Limestone

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

Collection Remarks: pH meter not calibrated

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		200	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		288	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)		26.6	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		351.46	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)	<	50	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.0696	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		103	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		10.7	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)		2.54	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		4.34	ug/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		303	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)		1.73	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		2.93	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		11.1	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		1.57	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		2.2	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.36	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.21	mg/L as N	

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		0.93	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)		10.9	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.17		
00932	SODIUM, CALCULATED, PERCENT		4	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		6.68	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		620	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		423	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		15.5	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		337	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		1.87	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		45.1	ug/L	

Water Quality Analysis

Sample Date: 7/22/2003 **Sample Time:** 1207 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Glen Rose Limestone

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

Collection Remarks: FOWH, 247 GPM

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		285	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)		27.9	ug/L	
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1	ug/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		347.8	mg/L	
01020	BORON, DISSOLVED (UG/L AS B)		56.9	ug/L	
71870	BROMIDE, DISSOLVED, (MG/L AS BR)		0.0532	mg/L	
01025	CADMIUM, DISSOLVED (UG/L AS CD)	<	1	ug/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		99.3	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		10.6	mg/L	
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	<	1	ug/L	
01035	COBALT, DISSOLVED (UG/L AS CO)	<	1	ug/L	
01040	COPPER, DISSOLVED (UG/L AS CU)		3.09	ug/L	
82081	DELTA CARBON 13 C13/C12 PER MIL		-9	0/00	
50791	DEUTERIUM, EXPRESSED AS PERMIL VSMOW		-31.5	0/00	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.2	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		292	mg/L as CACO3	
01046	IRON, DISSOLVED (UG/L AS FE)	<	50	ug/L	
01049	LEAD, DISSOLVED (UG/L AS PB)		1.08	ug/L	
01130	LITHIUM, DISSOLVED (UG/L AS LI)		2.64	ug/L	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		10.8	mg/L	
01056	MANGANESE, DISSOLVED (UG/L AS MN)		1.22	ug/L	
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	<	1	ug/L	
01065	NICKEL, DISSOLVED (UG/L AS NI)		2.68	ug/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		5.62	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.27	mg/L as N	
50790	OXYGEN-18, EXPRESSED AS PERMIL VSMOW		-4.6	0/00	

Texas Water Development Board

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 68-13-502

groundwater division

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.31	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		0.93	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)		11.1	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.17		
00932	SODIUM, CALCULATED, PERCENT		4	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		6.5	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		277	MICR	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		393	ug/L	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		14	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23.2	C	
01057	THALLIUM, DISSOLVED (UG/L AS TL)	<	1	ug/L	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		330	mg/L	
01085	VANADIUM, DISSOLVED (UG/L AS V)		1.45	ug/L	
01090	ZINC, DISSOLVED (UG/L AS ZN)		28.2	ug/L	

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

Water Quality Field Data Sheet

SWN: N/A 68-13-508
County : COMAL
Aqulfer : LOWER TRINITY

Name: B.M.W.D.
Address: 180 RANCHERS CIRCLE
BULVERDE, TX.
owners well # W/P #1

Sample No. BM-3111-1999
Date: JUNE 3, 1999
By : ROGER P.

	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total Sub-Samples
	500 ml Anoins	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
		2 ml HNO3 (Nitric)	0.5 ml H2SO4 (Sulfuric)	2 ml HNO (Nitric)				All filtered unless other wise stipulated

Water level	LSD	Remark	
Temperature(00010)		24.7	c
Specific Cond.(00094)		582	umhos/cm
ph (00400)	6.79		
Eh (00090)	134.8	mv.	
Phenol ALK (82244)		0	mg/l
Total ALK (39086)		284	mg/l
Carbonate (00452)	0	meq/l 0	mg/l
Bicarbonate(00453)	5.68	meq/l 346	mg/l
Total Cations(+)	Balanced		
Total Anions(-)			
Total Hardness(00900)	282		
Dissolved Solids	315		

Time in 1100
Time out 1210 Sample time 1130
well use PUBLIC
Weather CLOUDY
Outside temp 82

Starting ph 6.92 @26.2
14.2 ml. of 0.02N to
50 ml. of Sample
Ending ph 4.50 @ 29.0

Sampling point DISCHARGE(FAUCET)

Time:	1110	1115	1120
ph:	6.55	6.75	6.79
Temperature:	23.1	24.4	24.7
Eh			134.8
Conductivity:	583	585	582

other notes

Pumping since 1000 Lift SUBMERSIBLE
Latitude N/A Power ELECTRIC
Longitude N/A Gpm 125

ml	ph
1	6.82
2	6.65
3	6.5
4	6.38
5	6.28
6	6.18
7	6.08
8	5.98
9	5.87
10	5.75
11	5.61
12	5.43
13	5.17
14	4.68
14.2	4.5

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907893 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 06/03/99
ACCT NO: SAMPLE TIME: 1130
REQUISITION No.: R11041 DATE RECEIVED: 06/04/99
LOCATION ID: BM-3111-1999 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	0.12	mg/L	71870	0.02	06/15/99
Chloride	11.2	mg/L	00941	1.5	06/15/99
Fluoride	0.21	mg/L	00950	0.01	06/15/99
Nit.,nitri/nitra-AFA	1.070	mg/L	00630	0.010	06/08/99
Nitrogen, Kjeldahl	0.056	mg/L	00623	0.040	06/08/99
Nitrogen, ammonia	<0.040	mg/L	00608	0.040	06/07/99
Phosphorus, Total	<0.040	mg/L	00665	0.040	06/08/99
Silica	10.20	mg/L	00955	0.50	06/07/99
Sulfate	13.30	mg/L	00946	1.50	06/15/99
Alkalinity, Total	267	mg/L	00410	1	06/07/99
Alkalinity, Phenol.	0	mg/L	00415	0	06/07/99
Boron, Dissolved	85.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/08/99
Iron, Dissolved	<50.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	3.8	ug/L	01130	2.0	06/08/99
Molybdenum Dis ICPMS	<1.0	ug/L	01060	1.0	06/08/99
Potassium, Dissolved	0.97	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	369.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	4.4	ug/L	01085	1.0	06/08/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/08/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/08/99
Barium, Diss. ICPMS	27.8	ug/L	01005	1.0	06/08/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/08/99
Calcium, Dissolved	95.40	mg/L	00915	0.20	06/22/99
Chromium, Diss ICPMS	6.8	ug/L	01030	1.0	06/08/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/08/99
Lead, Diss. ICPMS	2.0	ug/L	01049	1.0	06/08/99
Magnesium, Dissolved	10.50	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/08/99
Nickel, Diss. ICPMS	4.6	ug/L	01065	1.0	06/08/99
Selenium, Dis. ICPMS	<4.0	ug/L	01145	4.0	06/08/99
Sodium, Dissolved	6.98	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/08/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/08/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/08/99
Zinc, Diss. ICPMS	6.7	ug/L	01090	2.0	06/08/99

Lower Colorado River Authority • P. O. Box 220 • Austin, Texas 78767
3505 Montopolis Drive • Austin, Texas 78744 • (512) 356-6022 • (800) 776-5272 • (512) 356-6021 FAX

2002FY TWDB Water Quality Field Data Sheet

State Well Number: 68-13-508
County: BEXAR
County Code: 029
Aquifer Code: TRINITY 218 HSC
Aquifer Id: 28

Name: BEXAR METRO WATER
Address: 2055 W.MALONE
SAN ANTONIO TX, 78225
Phone Number: (210)357-5706
Attention: ROGER PLACENCIA
Well Name or #: 119 W.P.#1

Sample ID Number: BM-1423-02
Date: 6-7-02
Sampler(s): M.APAEZ

CIRCLE EACH SAMPLE FRACTION COLLECTED:				
1	2	3		5
500ml (filtered)	500ml (filtered)	250ml (filtered)		
Anions / Total Alk.	**Cations**	**Nitrate**		
Ice	Nitric (HNO3)	Ice + H2SO4		
Proper preservation requires adding enough of the correct acid to each sample fraction to bring the pH below 2.0 .				

Calibration Verification Readings		
pH	7.00	7.00
	4 or 10	10.01
SLP = 53.7		
Conductivity	500	500
	1000	1001
	2000	
	5000	

Time In: 1130
Time Out: 1220

W. L. depth from LSD (ft.): 500
W.L. remark:
M.P. =

Pumping Since: 1130
Sampling Point: F.A.W

Well Use: PUBLIC
Lift: SUBMERSIBLE
Power: ELECTRIC

FIELD G.P.S. readings
Latitude:
Longitude:

Sample Time: 1200
Filter pressure: hand pump / line

Field Alkalinity Titration:

7.04	Start pH	4.5	End pH
50.0	**mL Sample Size**		
	mL Acid added for Phenol (> 8.3)		
14.3	mL Acid added for Total (8.3 - 4.5)		

Items below calculated from: mL acid added x 20 = Alkalinity

Phenol Alkalinity (82244): mg/L
Total Alkalinity (39086): 286 mg/L

Items Below Calculated Later From Results:
Dissolved Solids (mg/L): 330
Hardness (as CaCO3): 292
Balanced: ✓

Water Quality Stabilization Parameters Table (at least 3 readings at five minute intervals)

Time:	1135	1140	1145				
pH:	6.95	6.98	6.98				
Celsius Temp. (00010)	22.8	22.7	22.7				
Conductivity (µS/cm):	604	605	605				

Notes:

Data Entered By Sampler Into Database: yes / no

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LCRA Environmental Laboratory Services

Date: *27-Jun-02*

CLIENT: Texas Water Development Board
Client Sample ID: 68-13-508
Lab Order: 0206103 **File No:** 20140
Project: TWDB FY02
Collection Date: 6/7/02 12:00:00 PM
Lab ID: 0206103-10
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Calcium		98.6	0.20		mg/L	1	R14721B	6/18/02 8:16:00 PM
Magnesium		11.2	0.20		mg/L	1	R14721B	6/18/02 8:16:00 PM
Potassium		0.82	0.20		mg/L	1	R14721B	6/18/02 8:16:00 PM
Sodium		6.44	0.70		mg/L	1	R14721B	6/18/02 8:16:00 PM
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Boron		ND	50		µg/L	1	R14665B	6/18/02 8:16:00 PM
Iron		ND	50		µg/L	1	R14665B	6/18/02 8:16:00 PM
Strontium		391	20		µg/L	1	R14665B	6/18/02 8:16:00 PM
ICPMS DISSOLVED METALS			**E200.8**					Analyst: **SW**
Aluminum		ND	4.00		µg/L	1	R14656B	6/18/02
Antimony		ND	1.00		µg/L	1	R14656B	6/18/02
Arsenic		ND	2.00		µg/L	1	R14656B	6/18/02
Barium		27.9	1.00		µg/L	1	R14656B	6/18/02
Beryllium		ND	1.00		µg/L	1	R14656B	6/18/02
Cadmium		ND	1.00		µg/L	1	R14656B	6/18/02
Chromium		1.68	1.00		µg/L	1	R14656B	6/18/02
Cobalt		ND	1.00		µg/L	1	R14656B	6/18/02
Copper		1.65	1.00		µg/L	1	R14656B	6/18/02
Lead		1.07	1.00		µg/L	1	R14656B	6/18/02
Lithium		2.42	2.00		µg/L	1	R14656B	6/18/02
Manganese		1.54	1.00		µg/L	1	R14656B	6/18/02
Molybdenum		ND	1.00		µg/L	1	R14656B	6/18/02
Nickel		3.98	1.00		µg/L	1	R14656B	6/18/02
Selenium		ND	4.00		µg/L	1	R14656B	6/18/02
Thallium		ND	1.00		µg/L	1	R14656B	6/18/02
Vanadium		1.63	1.00		µg/L	1	R14656B	6/18/02
Zinc		78.7	4.00		µg/L	1	R14656B	6/18/02
CATION/ANION BALANCES			**CALCULATION**					Analyst: **AMJ**
Cation/Anion Balance		Balanced			Date	1	R14778	6/26/02
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE			**E300**					Analyst: **WR**
Bromide Dissolved		0.05	0.02		mg/L	1	R14737C	6/21/02 11:43:32 PM
Chloride Dissolved		12.0	1.00		mg/L	1	R14737C	6/21/02 11:43:32 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

LCRA Environmental Laboratory Services

Date: *27-Jun-02*

CLIENT: Texas Water Development Board
Client Sample ID: 68-13-508
Lab Order: 0206103 **File No:** 20140
Project: TWDB FY02
Collection Date: 6/7/02 12:00:00 PM
Lab ID: 0206103-10
Matrix: GROUNDWATER

Analyses	Storet	Result	PQL	Qual	Units	DF	BatchID	Date Analyzed
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE	**E300**							Analyst: **WR**
Fluoride Dissolved		0.21	0.01		mg/L	1	R14737C	6/21/02 11:43:32 PM
Sulfate Dissolved		15.0	1.00		mg/L	1	R14737C	6/21/02 11:43:32 PM
ALKALINITY	**M2320 B**							Analyst: **CMM**
Alkalinity, Phenolphthalein		ND	0		mg/L CaCO	1	R14632	6/17/02
Alkalinity, Total (As CaCO3)		280	2		mg/L CaCO	1	R14632	6/17/02
NITRATE AND NITRITE	**E353.2**							Analyst: **WM**
Nitrogen, Nitrate & Nitrite		1.57	0.02		mg/L	1	R14649B	6/17/02
SILICA	**E370.1**							Analyst: **WM**
Silica, Dissolved (as SiO2)		11.1	0.50		mg/L	1	R14587D	6/12/02

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

2003FY TWDB Water Quality Field Data Sheet

Newly Inventoried Well ____

State Well Number: 6813508
County: Comal
County Code: 0291
Aquifer Code: 218HSCC
Aquifer Id: 28

Name: Bexar Metro Water District
Address: 2055 W. Mulone
San Antonio Tx, 78225
Phone Number: (210) 357-57-06
Attention: Roger Placencia
Well Name or #: 114 WP#1 Ramters Circle

Sample ID Number: 1415
Date: 6-18-03
Sampler(s): M Apodaca

CIRCLE EACH SAMPLE FRACTION COLLECTED:

1	2	3 *	4	5
500ml (filtered) **Anions / Total Alk.** Ice	500ml (filtered) **Cations** Nitric (HNO3)	250ml (filtered) **Nitrate** Ice + H2SO4		

Proper preservation requires adding enough of the correct acid to each sample fraction to bring the pH below 2.0 .

Calibration Verification Readings

pH	7 =	6.35
	4 or 10 =	9.24
SLP = 59.2	7.38 =	
Conductivity	500 =	509
	1000 =	1007
	2000 =	
	5000 =	

Time In: 9.35 Time Out: 1100

W. L. depth from LSD (ft.): 500 W.L. remark: ____ M.P. = ____

Pumping Since: 945 Sampling Point: FAW

Well Use: Public
Lift: Turbine
Power: Electric

FIELD G.P.S. readings
Latitude: 29 ° 48 ' 07. "
Longitude: 98 ° 26 ' 35. "

Casing Type: ____ Casing Size: ____ "

Sample Time: 1015 Filter pressure: hand pump / line

Field Alkalinity Titration:

7.36	Start pH	4.55	End pH
50.0	**mL Sample Size**		
	mL Acid added for Phenol (> 8.3)		
10	mL Acid added for Total (8.3 - 4.5)		

Items below calculated from: mL acid added x 20 = Alkalinity

Phenol Alkalinity (82244): ____ mg/L
Total Alkalinity (39086): 200 mg/L ~~1.288~~

Items Below Calculated Later From Results:
Dissolved Solids (mg/L): 337
Hardness (as CaCO3): 303
Balanced: ✓

Water Quality Stabilization Parameters Table (at least 3 readings at five minute intervals)

Time:	955	1000	1005				
pH:	6.31	6.32	6.32	~7.0	estimated	pH	
Celsius Temp. (00010)	22.0	22.0	22.0				
Conductivity (uS/cm):	619	621	620				

Notes: pH meter not Calibrated

Data Entered By Sampler Into Database: yes / no

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* Top of bottle broke off @ the Lab.

LCRA Environmental Laboratory Services

Date: *10-Jul-03*

CLIENT: Texas Water Development Board **Client Sample ID:** 68-13-508
Lab Order: 0306281 **File No:** 25108
Project: TWDB FY03 **Collection Date:** 6/18/2003 10:15:00 AM
Lab ID: 0306281-05 **Matrix:** GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Calcium		103		0.20	mg/L	1	20412	6/25/2003 6:48:51 PM
Magnesium		11.1		0.20	mg/L	1	20412	6/25/2003 6:48:51 PM
Potassium		0.93		0.20	mg/L	1	20412	6/25/2003 6:48:51 PM
Sodium		6.68		0.70	mg/L	1	20412	6/25/2003 6:48:51 PM
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Boron		ND		50	µg/L	1	20415	6/25/2003 6:48:51 PM
Iron		ND		50	µg/L	1	20415	6/25/2003 6:48:51 PM
Strontium		423		20	µg/L	1	20415	6/25/2003 6:48:51 PM
ICPMS DISSOLVED METALS			**E200.8**					Analyst: **SW**
Aluminum		ND		4.00	µg/L	1	20384	6/25/2003
Antimony		ND		1.00	µg/L	1	20384	6/25/2003
Arsenic		ND		2.00	µg/L	1	20384	6/25/2003
Barium		26.6		1.00	µg/L	1	20384	6/25/2003
Beryllium		ND		1.00	µg/L	1	20384	6/25/2003
Cadmium		ND		1.00	µg/L	1	20384	6/25/2003
Chromium		2.54		1.00	µg/L	1	20384	6/25/2003
Cobalt		ND		1.00	µg/L	1	20384	6/25/2003
Copper		4.34		1.00	µg/L	1	20384	6/25/2003
Lead		1.73		1.00	µg/L	1	20384	6/25/2003
Lithium		2.93		2.00	µg/L	1	20384	6/25/2003
Manganese		1.57		1.00	µg/L	1	20384	6/25/2003
Molybdenum		ND		1.00	µg/L	1	20384	6/25/2003
Nickel		2.20		1.00	µg/L	1	20384	6/25/2003
Selenium		ND		4.00	µg/L	1	20384	6/25/2003
Thallium		ND		1.00	µg/L	1	20384	6/25/2003
Vanadium		1.87		1.00	µg/L	1	20384	6/25/2003
Zinc		45.1		4.00	µg/L	1	20384	6/25/2003
CATION/ANION BALANCES			**CALCULATION**					Analyst: **WM**
Cation/Anion Balance		Balanced		0	Date	1	20588	7/8/2003
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE			**E300**					Analyst: **WR**
Bromide Dissolved		0.07		0.02	mg/L	1	20574	7/7/2003 8:37:30 PM
Chloride Dissolved		10.7		1.00	mg/L	1	20574	7/7/2003 8:37:30 PM
Fluoride Dissolved		0.20		0.01	mg/L	1	20574	7/7/2003 8:37:30 PM
Sulfate Dissolved		15.5		1.00	mg/L	1	20574	7/7/2003 8:37:30 PM
ALKALINITY			**M2320 B**					Analyst: **CMM**
Alkalinity, Phenolphthalein		ND		0	mg/L CaCO3	1	20365	6/24/2003
Alkalinity, Total (As CaCO3)		288		2	mg/L CaCO3	1	20365	6/24/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

LCRA Environmental Laboratory Services

Date: *10-Jul-03*

CLIENT: Texas Water Development Board **Client Sample ID:** 68-13-508
Lab Order: 0306281 **File No:** 25108
Project: TWDB FY03 **Collection Date:** 6/18/2003 10:15:00 AM
Lab ID: 0306281-05 **Matrix:** GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
NITRATE AND NITRITE			**E353.2**					Analyst: **WM**
Nitrogen, Nitrate & Nitrite		1.21		0.02	mg/L	1	20411	6/26/2003
SILICA			**E370.1**					Analyst: **WM**
Silica, Dissolved (as SiO2)		10.9		0.50	mg/L	1	20376	6/25/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

TWDB Water Quality Field Data Sheet

New Well: yes / no

State Well Number: 68-43-508

County: Comal

County Code: 091

Aquifer Code: 218 HSCC

Aquifer Id: 28

Send Results To: Owner / Lessee

Owner's Name: Bexar Met Water District

Lessee's Name:

Attention: Roger Placencia

Mailing Address: 2055 W. Malone

San Antonio, Tx 78225

Well Number: Bulverde Hills, ~~207 WPH~~ 119 WPI

Type of Sample: LCRA / HACH

Sample Number: 3020

Date: 7/22/03

Sampler(s): D. Coker

Add enough of the proper acid to each bottle that is preserved to drop the pH to 2.

1 (on ice)	2	3 (on ice)	4 (on ice)	5
500ml (filtered)	500ml (filtered)	250ml (filtered)	1 L	1 L
Anions / Total Alkalinity ✓	1.5 Cations	1.0 Nitrate/Nitrite	Tritium Dating ✓	~~Carbon 14~~
no preservative	~~1ml Nitric (HNO3)~~	~~0.5 ml Sulfuric (H2SO4)~~	No preservative	4-5 ml NaOH

6
1 - 500 ml
Oxy 18, Deuterium ✓
Carbon 13

Daily Meter Calibration:

pH	7	6.79
	4 or 10	10.01
Conductivity	500	
	1000	
	2000	
	5000	

Time In: Time Out:

W. L. depth from LSD (ft.): W.L. remark:

Pumping Since: 11:30 Sampling Point: FOW H / 297 GPM

Well Use: PS

Lift: S

Power: E

Latitude: 294808 N

Longitude: 098 2636 W

Elevation: (1281) ft.

Sample Time: 1207 Filter pressure: hand / line

Field Alkalinity Titration: ~~None~~

Start pH End pH

50 **ml. Sample Size**

ml. Acid added for Total

ml. Acid added for Phenol

Items below calculated from ml. acid added data:

Field Total Alkalinity: 0.0 mg/L

Field Phenol Alkalinity: 0.0 mg/L

Notes: No Alk, ph meter acting up. Cond a 60

W. Q. Stabilization Parameters Table — ***Final Readings:***

Time:	1135	1140	1146	1151	well shut down	1154	1201	1206
pH:	6.25	6.40	6.81	7.05		7.63	7.15	7.31
Temperature:	23.7	23.3	23.4	23.5		22.6	23.2	23.2
Conductivity:	516	438	330	655		488	402	277
Conductivity Temperature:								

Items Below Calculated Later From Results:

Total Hardness: 292

Calculated TDS (mg/L): 330

Data Entered By Sampler Into Database: yes / no

LCRA Environmental Laboratory Services

Date: *19-Aug-03*

CLIENT: Texas Water Development Board **Client Sample ID:** 68-13-508
Lab Order: 0307327 **File No:** 25558
Project: TWDB FY03 **Collection Date:** 7/22/2003 12:07:00 PM
Lab ID: 0307327-02 **Matrix:** GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Calcium		99.3		0.20	mg/L	1	21089	8/7/2003 7:01:12 PM
Magnesium		10.8		0.20	mg/L	1	21089	8/7/2003 7:01:12 PM
Potassium		0.93		0.20	mg/L	1	21089	8/7/2003 7:01:12 PM
Sodium		6.50		0.70	mg/L	1	21089	8/7/2003 7:01:12 PM
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Boron		57		50	µg/L	1	21091	8/7/2003 7:01:12 PM
Iron		ND		50	µg/L	1	21091	8/7/2003 7:01:12 PM
Strontium		393		20	µg/L	1	21091	8/7/2003 7:01:12 PM
ICPMS DISSOLVED METALS			**E200.8**					Analyst: **SW**
Aluminum		ND		4.00	µg/L	1	21154	8/12/2003
Antimony		ND		1.00	µg/L	1	21154	8/12/2003
Arsenic		ND		2.00	µg/L	1	21154	8/12/2003
Barium		27.9		1.00	µg/L	1	21154	8/12/2003
Beryllium		ND		1.00	µg/L	1	21154	8/12/2003
Cadmium		ND		1.00	µg/L	1	21154	8/12/2003
Chromium		ND		1.00	µg/L	1	21154	8/12/2003
Cobalt		ND		1.00	µg/L	1	21154	8/12/2003
Copper		3.09		1.00	µg/L	1	21154	8/12/2003
Lead		1.08		1.00	µg/L	1	21154	8/12/2003
Lithium		2.64		2.00	µg/L	1	21154	8/12/2003
Manganese		1.22		1.00	µg/L	1	21154	8/12/2003
Molybdenum		ND		1.00	µg/L	1	21154	8/12/2003
Nickel		2.68		1.00	µg/L	1	21154	8/12/2003
Selenium		ND		4.00	µg/L	1	21154	8/12/2003
Thallium		ND		1.00	µg/L	1	21154	8/12/2003
Vanadium		1.45		1.00	µg/L	1	21154	8/12/2003
Zinc		28.2		4.00	µg/L	1	21154	8/12/2003
CATION/ANION BALANCES			**CALCULATION**					Analyst: **WM**
Cation/Anion Balance		Balanced		0	Date	1	21159	8/13/2003
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE			**E300**					Analyst: **WM**
Bromide Dissolved		0.05		0.02	mg/L	1	21152	8/11/2003 8:16:57 PM
Chloride Dissolved		10.6		1.00	mg/L	1	21152	8/11/2003 8:16:57 PM
Fluoride Dissolved		0.20		0.01	mg/L	1	21152	8/11/2003 8:16:57 PM
Sulfate Dissolved		14.0		1.00	mg/L	1	21152	8/11/2003 8:16:57 PM
ALKALINITY			**M2320 B**					Analyst: **CMM**
Alkalinity, Phenolphthalein		ND		0	mg/L CaCO3	1	20938	7/31/2003
Alkalinity, Total (As CaCO3)		285		2	mg/L CaCO3	1	20938	7/31/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

LCRA Environmental Laboratory Services

Date: *19-Aug-03*

CLIENT: Texas Water Development Board
Client Sample ID: 68-13-508
Lab Order: 0307327 **File No:** 25558
Project: TWDB FY03
Collection Date: 7/22/2003 12:07:00 PM
Lab ID: 0307327-02
Matrix: GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
NITRATE AND NITRITE			**E353.2**					Analyst: **WM**
Nitrogen, Nitrate & Nitrite		1.27		0.02	mg/L	1	20892	7/28/2003
SILICA			**E370.1**					Analyst: **WM**
Silica, Dissolved (as SiO2)		11.1		0.50	mg/L	1	20950	7/31/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

STABLE CARBON, HYDROGEN AND OXYGEN ISOTOPE ANALYSES FOR THE TEXAS WATER DEVELOPMENT BOARD. ATTN: DR. ALI CHOWDHURY.

CONTRACT #03-0483-0478

Comal Co.

SAMPLE		$\delta^{13}C_{PDB}$	δD_{SMOW}	$\delta^{18}O_{SMOW}$
3019-68-20-405	7/22/03	-2.9, -3.4	-30, -30	-4.6
3020-68-13-508	"	-9.0	-32, -31	-4.6
3021-68-21-201	7/22/03	-2.1, -2.5	-32, -32	-4.8
3022-68-34-803	"	-7.6	-30, -30	-4.3, -4.4
3023-69-07-106	7/23/03	-6.8	-38, -38	-5.6, -5.6
3024-68-17-802	"	-6.9	-29, -30	-4.0, -4.0
3025-68-11-404	7/23/03	-0.5, -0.4	-35, -34	-5.2
3026-68-19-323	7/24/03	-3.2	-30, -30	-4.5
3027-68-19-303	7/24/03	-4.3	-29, -30	-4.4
3028-68-19-316	"	-1.6	-28, -29	-4.5
3029-68-11-810	7/25/03	-3.9	-30, -30	-4.3, -4.2
3030-69-24-504	7/28/03	-8.1	-36, -36	-5.4
3031-68-25-507	7/28/03	-3.1	-32, -34	-4.7, -4.8
3032-68-19-506	7/29/03	-9.0, -9.2	-28, -28	-4.8
3033-68-19-612	7/29/03	-3.4	-30, -30	-4.7
3034-68-11-809	"	-1.8	-34, -34	-5.0, -4.9
3035-68-21-103	7/29/03	-4.9	-33, -33	-4.8

Coastal Science Laboratories Phone/Fax 512-288-5533 email: info@csl-sira.com

Texas Water Development Board
Well Schedule

State Well No. 68 13 502 Previous Well No. _____ County Comal 091

River Basin Guadalupe 18 Zone 1 Lat. 29 48 09 Long. 098 26 26 Source of Coord. 1

Owner's Well No. 1 Location ____ 1/4, ____ 1/4, Section ____, Block ____, Survey ____

Owner OAKLAND ESTATES Driller T M Johnson

Address _____ Tenant/Oper. _____

Date Drilled 06 28 1985 Depth 500 Source of Depth Datum C Altitude 1250 Source of Alt. Datum m

Aquifer Glen Rose 218GLRS Well Type W User 618626

Well Construction: Const. Method Air Rotary A; Casing Material Steel S

Completion Open; Screen Material _____

Lift Data: Pump Mfr. Goulds Type Subm S No. Stages ____

Bowls Diam. ____ in. Setting 430 ft. Column Diam. 2 in.

Motor Mfr. _____ Fuel or Power Elec. E Horsepower 10.00

Yield: Flow ____ GPM Pump 125 GPM Meas (Rept.) Est. driller Date 6/85

Performance Test: Date ____ Length of Test ____ Production ____ GPM

Static Level ____ ft. Pumping Level ____ ft. Drawdown ____ ft. Sp.Cap. ____ GPM/ft.

Quality (Remarks _____

Water Use: Primary P.S. P Secondary ____ Tertiary ____

Other Data Available: Water Level M Water Quality N Logs D ____ Other Data ____

	Date	Meas.	
Water Levels	06 28 1985	347 .	driller
	____	____ .	____
	____	____ .	____

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from 0 to 163

	Diam. (in.)	From	To
1	C 07	0	163
2	O 06	163	500
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

(20 max)

Recorded By Phil N. TNRCC Date Record Collected or Updated 12 12 1995 Reporting Agency 01

Remarks

Aquifer Glen Rose
Well No. 68-13-502

93-0304
2/93

State of Texas
WATER WELL REPORT
ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

...iginal copy by ...ed mail to the: ...Department of Water Resources
...O. Box 13087
...stin, Texas 78711

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

OWNER Gordon B. Sutton (Name) Address P. O. Box 16310 San Antonio, Tx. 78216 (Street or RFD) (City) (State) (Zip)

LOCATION OF WELL:
County Comal 2.5 miles in North (N.E., S.W., etc.) direction from Bulverde (Town)

Oakland Estates

...must complete the legal description to the right ...distance and direction from two intersecting sec... ...survey lines, or he must locate and identify the ...official Quarter- or Half-Scale Texas County ...Highway Map and attach the map to this form.

☐ Legal description:
Section No. ______ Block No. ______ Township ______
Abstract No. ______ Survey Name ______
Distance and direction from two intersecting section or survey lines ______

☒ See attached map.

TYPE OF WORK (Check): ☐ New ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☒ Public Supply ☐ Irrigation ☐ Test Well ☐ Other ______

5) DRILLING METHOD (Check): ☐ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☒ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other ______

WELL LOG:
Date drilled 6-28-85

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
10 5/8	Surface	163
6 3/4	163	500

7) BOREHOLE COMPLETION:
☒ Open Hole ☐ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other ______
If Gravel Packed give interval . . . from ______ ft. to ______ ft.

From (ft.)	To (ft.)	Description and color of formation material
0 -	1	top soil
1 -	4	white lime
4 -	9	yellow lime
9 -	126	gray and brown lime
126 -	345	gray and yellow lime
345 -	359	brown lime
359 -	500	no samples

one foot cave at 357, very broken from 375 to 381 and 400 to 406
no large amount of water below 406

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	To	Gage Casing Screen
7 5/8	new	T&C X42 steel casing forty foot lengths	0	163	26lb

CEMENTING DATA
Cemented from 0 ft. to 163 ft.
Method used 81 cubic feet of 50% cement sand slurry poured from top in dry anulas
Cemented by ______ (Company or Individual)

9) WATER LEVEL:
Static level 347 ft. below land surface Date 6-28-85
Artesian flow ______ gpm. Date ______

10) PACKERS: Type Depth
Baker cement basket at 160'

RECEIVED
JUL 11 1985
DEPT. OF WATER RESOURCES

(Use reverse side if necessary)

11) TYPE PUMP: Goulds submergible 70J10 s#159
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other 10hp 230V 3ph s#200022
Depth to pump bowls, cylinder, jet, etc., 430 on 2" galv.

WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? ______ Depth of strata ______
Was a chemical analysis made? ☐ Yes ☐ No

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 125 gpm with ? ft. drawdown after 72 hrs.

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

COMPANY NAME T. M. Johnson (Type or Print) Water Well Driller's License No. 857

ADDRESS P.O. Box 925 Castroville, Tx. 78009 (Street or RFD) (City) (State) (Zip)

(Signed) [signature] (Signed) ______
(Licensed Water Well Driller) (Registered Driller Trainee)

...attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
Well No. 68-13-5B
Located on map Yes DLF

...0392 (Rev. 5-27-82)

DEPARTMENT OF WATER RESOURCES COPY

6813502

Texas Water Development Board
Well Schedule

groundwater resources division

State Well Number: **68-13-502** Previous Well Number: County: **Comal** **91**

Latitude (dms): **294808** Longitude (dms): **982636** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Guadalupe River** GMA: **9** RWPA: **L** GCD:

Owner: **Bexar MWD (Oakland Estates) #1 Quercuse**

Driller: **T M Johnson**

Aquifer ID: **Trinity**

Aquifer Code: **218GLRS**

GLEN ROSE LIMESTONE

Depth (ft): **500**

Elevation (ft): **1308**

Source of Depth: **Driller's Log**

Source of Elevation: **Digital Elevation Model -DEM**

Date Drilled: **06/28/1985**

Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump**

Power: **Electric Motor**

Horsepower: **10.0**

Construction: **Air Rotary**

Completion: **Open Hole**

Casing Material: **Steel**

Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	7	0	163
O	6	163	500

WATER USE

Primary: **Public Supply**

Secondary:

Tertiary:

Water Levels: **Miscellaneous Measurements**

1 measurement
1985
-347

Water Quality: **N**

Other Data:

Logs: **D**

REMARKS:
Owners Oakland Estates well #1. PWS ID #0460166A. Estimated yield 125 GPM in 1985. Cemented from 0 to 163 feet.

Reporting Agency: **TWDB or Predecessor Agency**

Date Collected or Reported: **12/12/1995**

Recorded by: D.R. Jones

update

Texas Water Development Board
Well Schedule

State Well No. 68 13 502 Previous Well No. _____ County Comal 091

River Basin Guadalupe 18 Zone 1 Lat. 29 48 09 Long. 098 26 26 Source of Coord. 1

Owner's Well No. 1 Location ____ 1/4, ____ 1.4, Section ____, Block ____, Survey ____

Owner OAKLAND ESTATES Driller T M Johnson

Address _____ Tenant/Oper. _____

Date Drilled 06 28 1985 Depth 500 Source of Depth Datum D Altitude 1250 Source of Alt. Datum m

Aquifer Glen Rose 218GLRS Well Type W User 618626

Well Construction Const. Method Air Rotary A Casing Material Steel S

Completion Open X Screen Material _____

Lift Data Pump Mfr. Goulds Type Subm S No. Stages ____

Bowls Diam. ____ in. Setting 430 ft. Column Diam. 2 in.

Motor Mfr. _____ Fuel or Power Elec. E Horsepower 10.00

Yield Flow ____ GPM Pump 125 GPM Meas (Rept.) Est. driller Date 6/85

Performance Test Date ____ Length of Test ____ Production ____ GPM

Static Level ____ ft. Pumping Level ____ ft. Drawdown ____ ft. Sp.Cap. ____ GPM/ft.

Quality (Remarks _____

Water Use Primary P.S. P Secondary _____ Tertiary _____

Other Data Available: Water Level M, Water Quality N, Logs D, Other Data

	Date	Meas.	
Water Levels	06 28 1985	347.00	driller

Casing or Blank Pipe (C)
Well Screen or Slotted Zone (S)
Open Hole (O)
Cemented from 0 to 163

	Diam. (in.)	From	To
1	C 07	0	163
2	O 06	163	500
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

(20 max)

Recorded By Phil N. TWRCC Date Record Collected or Updated 12 12 1995

Reporting Agency 01

Remarks

Aquifer Glen Rose

Well No. 68-13-502

93-0384
2/9/93

...iginal copy by
...ail to the
... Department of Water Resources
... Box 13087
...tin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

OWNER Gordon B. Sutton (Name) Address P. O. Box 16310 San Antonio, Tx. 78216 (Street or RFD) (City) (State) (Zip)

LOCATION OF WELL: ...unty Comal 2.5 miles in North (N.E., S.W., etc.) direction from Bulverde (Town)

Oakland Estates

...must complete the legal description to the right ...tance and direction from two intersecting sec... survey lines, or he must locate and identify the ... official Quarter- or Half-Scale Texas County ... Highway Map and attach the map to this form.

☐ **Legal description:**
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

TYPE OF WORK (Check): ...☐ Deepening ...☐ Plugging

4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☒ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☐ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☒ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

WELL LOG: ...ted 6-28-85

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
10 5/8	Surface	163
6 3/4	163	500

To (ft.)	Description and color of formation material
- 1	top soil
- 4	white lime
- 9	yellow lime
- 126	gray and brown lime
126 - 345	gray and yellow lime
345 - 359	brown lime
359 - 500	no samples
one foot cave at 357, very broken from 375 to 381 and 400 to 406	
no large amount of water below 406	

7) BOREHOLE COMPLETION: ☒ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgf., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
7 5/8	new	T&C X42 steel casing forty foot lengths	0	163	261b

CEMENTING DATA
Cemented from 0 ft. to 163 ft.
Method used 81 cubic feet of 50% cement sand slurry poured from top in dry
Cemented by anulas (Company or Individual)

9) WATER LEVEL:
Static level 347 ft. below land surface Date 6-28-85
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth
Baker cement basket at 160'

RECEIVED
JUL 11 1985
DEPT. OF
WATER RESOURCES

11) TYPE PUMP: Goulds submergible 70J10 s#1591
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other 10hp 230V 3ph s#200022
Depth to pump bowls, cylinder, jet, etc., 430 on 2" galv.

(Use reverse side if necessary)

WATER QUALITY:
...knowingly penetrate any strata which contained undesirable

12) WELL TESTS:

TWDB Water Quality Field Data Sheet

New Well: yes / no

State Well Number: 68-13-~~508~~ 502 ✓

County: Comal

County Code: 091

Aquifer Code: 218 HSCL

Aquifer Id: 28

Send Results To: Owner / Lessee

Owner's Name: Bexar Met Water District

Lessee's Name:

Attention: Roger Placencia

Mailing Address: 2055 W. Malone, San Antonio, Tx 78225

Well Number: Bulverde Hills, ~~107 WPH~~ 119 wpl

Type of Sample: LCRA / HACH

Sample Number: 3020

Date: 7/22/03

Sampler(s): D. Coker

Add enough of the proper acid to each bottle that is preserved to drop the pH to 2.

1 (on ice)	2	3 (on ice)	4 (on ice)	~~5~~
500ml (filtered)	500ml (filtered)	250ml (filtered)	1 L	~~1 L~~
Anions / Total Alkalinity ✓	1.5 Cations	1.0 Nitrate/Nitrite	Tritium Dating ✓	~~Carbon 14~~
no preservative	~~1ml~~ Nitric (HNO3)	~~0.5 ml~~ Sulfuric (H2SO4)	No preservative	~~4-5 ml NaOH~~

6
1 - 500 ml Oxy 18, Deuterium Carbon 13 ✓

Time In:

Time Out:

W. L. depth from LSD (ft.):

W.L. remark:

Pumping Since: 11:30

Sampling Point: FOW tt, 297 GPM

Well Use: PS

Lift: S

Power: E

Latitude: 294808 N

Longitude: 0982636 W

Elevation: (1281) ft.

Sample Time: 1207

Filter pressure: hand / (line)

Daily Meter Calibration:

pH	7	6.99
	4 or 10	10.01
Conductivity	500	
	1000	
	2000	
	5000	

~~**Field Alkalinity Titration:**~~ None

~~Start pH ____ End pH~~

~~50 **ml. Sample Size**~~

~~ml. Acid added for Total~~

~~ml. Acid added for Phenol~~

~~Items below calculated from ml. acid added data:~~

~~**Field Total Alkalinity:** 0.0 mg/L~~

Field Phenol Alkalinity: 0.0 mg/L

Notes: No Alk, ph meter acting up. Cond a60

W. Q. Stabilization Parameters Table

Final Readings:

Time:	1135	1140	1146	1151	well	1156	1201	1206
pH:	6.25	6.40	6.81	7.05	shut	7.63	7.15	7.31
Temperature:	23.7	23.3	23.4	23.5	down	22.6	23.2	23.2
Conductivity:	516	438	330	655		488	402	277
Conductivity Temperature:								

Items Below Calculated Later From Results:

Total Hardness: 292

Calculated TDS (mg/L): 330

Data Entered By Sampler Into Database: (yes) / no

LCRA Environmental Laboratory Services

Date: *19-Aug-03*

CLIENT: Texas Water Development Board
Client Sample ID: 68-13-~~508~~ 502
Lab Order: 0307327 **File No:** 25558
Project: TWDB FY03
Collection Date: 7/22/2003 12:07:00 PM
Lab ID: 0307327-02
Matrix: GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
ICP METALS DISSOLVED				**E200.7**				Analyst: **MLP**
Calcium		99.3		0.20	mg/L	1	21089	8/7/2003 7:01:12 PM
Magnesium		10.8		0.20	mg/L	1	21089	8/7/2003 7:01:12 PM
Potassium		0.93		0.20	mg/L	1	21089	8/7/2003 7:01:12 PM
Sodium		6.50		0.70	mg/L	1	21089	8/7/2003 7:01:12 PM
ICP METALS DISSOLVED				**E200.7**				Analyst: **MLP**
Boron		57		50	µg/L	1	21091	8/7/2003 7:01:12 PM
Iron		ND		50	µg/L	1	21091	8/7/2003 7:01:12 PM
Strontium		393		20	µg/L	1	21091	8/7/2003 7:01:12 PM
ICPMS DISSOLVED METALS				**E200.8**				Analyst: **SW**
Aluminum		ND		4.00	µg/L	1	21154	8/12/2003
Antimony		ND		1.00	µg/L	1	21154	8/12/2003
Arsenic		ND		2.00	µg/L	1	21154	8/12/2003
Barium		27.9		1.00	µg/L	1	21154	8/12/2003
Beryllium		ND		1.00	µg/L	1	21154	8/12/2003
Cadmium		ND		1.00	µg/L	1	21154	8/12/2003
Chromium		ND		1.00	µg/L	1	21154	8/12/2003
Cobalt		ND		1.00	µg/L	1	21154	8/12/2003
Copper		3.09		1.00	µg/L	1	21154	8/12/2003
Lead		1.08		1.00	µg/L	1	21154	8/12/2003
Lithium		2.64		2.00	µg/L	1	21154	8/12/2003
Manganese		1.22		1.00	µg/L	1	21154	8/12/2003
Molybdenum		ND		1.00	µg/L	1	21154	8/12/2003
Nickel		2.68		1.00	µg/L	1	21154	8/12/2003
Selenium		ND		4.00	µg/L	1	21154	8/12/2003
Thallium		ND		1.00	µg/L	1	21154	8/12/2003
Vanadium		1.45		1.00	µg/L	1	21154	8/12/2003
Zinc		28.2		4.00	µg/L	1	21154	8/12/2003
CATION/ANION BALANCES				**CALCULATION**				Analyst: **WM**
Cation/Anion Balance		Balanced		0	Date	1	21159	8/13/2003
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE				**E300**				Analyst: **WM**
Bromide Dissolved		0.05		0.02	mg/L	1	21152	8/11/2003 8:16:57 PM
Chloride Dissolved		10.6		1.00	mg/L	1	21152	8/11/2003 8:16:57 PM
Fluoride Dissolved		0.20		0.01	mg/L	1	21152	8/11/2003 8:16:57 PM
Sulfate Dissolved		14.0		1.00	mg/L	1	21152	8/11/2003 8:16:57 PM
ALKALINITY				**M2320 B**				Analyst: **CMM**
Alkalinity, Phenolphthalein		ND		0	mg/L CaCO3	1	20938	7/31/2003
Alkalinity, Total (As CaCO3)		285		2	mg/L CaCO3	1	20938	7/31/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

LCRA Environmental Laboratory Services

Date: *19-Aug-03*

CLIENT:	Texas Water Development Board	**Client Sample ID:**	68-13-~~508~~ 502
Lab Order:	0307327 **File No:** 25558		
Project:	TWDB FY03	**Collection Date:**	7/22/2003 12:07:00 PM
Lab ID:	0307327-02	**Matrix:**	GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
NITRATE AND NITRITE		**E353.2**						Analyst: **WM**
Nitrogen, Nitrate & Nitrite		1.27		0.02	mg/L	1	20892	7/28/2003
SILICA		**E370.1**						Analyst: **WM**
Silica, Dissolved (as SiO2)		11.1		0.50	mg/L	1	20950	7/31/2003

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

STABLE CARBON, HYDROGEN AND OXYGEN ISOTOPE ANALYSES FOR THE TEXAS WATER DEVELOPMENT BOARD. ATTN: DR. ALI CHOWDHURY.

CONTRACT #03-0483-0478

Comal Co.

SAMPLE		$\delta^{13}C_{PDB}$	δD_{SMOW}	$\delta^{18}O_{SMOW}$
3019-68-20-405	7/22/03	-2.9, -3.4	-30, -30	-4.6
3020-68-13-~~508~~ 502	"	-9.0	-32, -31	-4.6
3021-68-21-201	7/22/03	-2.1, -2.5	-32, -32	-4.8
3022-68-34-803	"	-7.6	-30, -30	-4.3, -4.4
3023-69-07-106	7/23/03	-6.8	-38, -38	-5.6, -5.6
3024-68-17-802	"	-6.9	-29, -30	-4.0, -4.0
3025-68-11-404	7/23/03	-0.5, -0.4	-35, -34	-5.2
3026-68-19-323	7/24/03	-3.2	-30, -30	-4.5
3027-68-19-303	7/24/03	-4.3	-29, -30	-4.4
3028-68-19-316	"	-1.6	-28, -29	-4.5
3029-68-11-810	7/25/03	-3.9	-30, -30	-4.3, -4.2
3030-69-24-504	7/28/03	-8.1	-36, -36	-5.4
3031-68-25-507	7/28/03	-3.1	-32, -34	-4.7, -4.8
3032-68-19-506	7/29/03	-9.0, -9.2	-28, -28	-4.8
3033-68-19-612	7/28/03	-3.4	-30, -30	-4.7
3034-68-11-809	"	-1.8	-34, -34	-5.0, -4.9
3035-68-21-103	7/29/03	-4.9	-33, -33	-4.8

Coastal Science Laboratories Phone/Fax 512-288-5533 email: info@csl-sira.com

2003FY TWDB Water Quality Field Data Sheet

Newly Inventoried Well ____

State Well Number: 68135~~08~~ 502

County: Comal

County Code: 0291

Aquifer Code: 218HSCC

Aquifer Id: 28

Name: Bexar Metro Water District

Address: 2055 W. Malone

San Antonio Tx, 78225

Phone Number: (210) 357-57-06

Attention: Roger Placencia

Well Name or #: 119 WP#1 Ranchers Circle

Sample ID Number: 1415

Date: 6-18-03

Sampler(s): M. Apaez

CIRCLE EACH SAMPLE FRACTION COLLECTED:				
(1)	(2)	(3) *	4	5
500ml (filtered) **Anions / Total Alk.** Ice	500ml (filtered) **Cations** Nitric (HNO3)	250ml (filtered) **Nitrate** Ice + H2SO4		
Proper preservation requires adding enough of the correct acid to each sample fraction to bring the pH below 2.0.				

Calibration Verification Readings

pH	7 =	6.35
	4 or 10 =	9.24
SLP = 59.2	7.38 =	
Conductivity	500 =	509
	1000 =	1007
	2000 =	
	5000 =	

Time In: 9:35 Time Out: 1100

W. L. depth from LSD (ft.): 500 W.L. remark: ____ M.P. = ____

Pumping Since: 945 Sampling Point: FAW

Well Use: Public

Lift: Turbine

Power: Electric

FIELD G.P.S. readings

Latitude: 29 ° 48 ' 07. "

Longitude: 98 ° 26 ' 35. "

Casing Type: ____ Casing Size: ____ "

Sample Time: 1015 Filter pressure: hand pump / line

Field Alkalinity Titration:

7.36	Start pH	4.55	End pH
50.0	**mL Sample Size**		
	mL Acid added for Phenol (> 8.3)		
10	mL Acid added for Total (8.3 - 4.5)		

Items below calculated from: mL acid added x 20 = Alkalinity

Phenol Alkalinity (82244): ____ mg/L

Total Alkalinity (39086): 200 mg/L ~~V.285~~

Items Below Calculated Later From Results:

Dissolved Solids (mg/L): 337

Hardness (as CaCO3): 303

Balanced: ✓

Water Quality Stabilization Parameters Table (at least 3 readings at five minute intervals)

Time:	955	1000	1005				
pH:	6.31	6.32	6.32	~7.0	estimated	pH	
Celsius Temp. (00010)	22.0	22.0	22.0				
Conductivity (uS/cm):	619	621	620				

Notes: pH meter not Calibrated

Data Entered By Sampler Into Database: yes / no

v:\HEMon\Grndwat\WaterQuality\WQFieldDataSheet2002.xls

* Top of bottle broke off @ the Lab.

LCRA Environmental Laboratory Services

Date: *10-Jul-03*

502

CLIENT: Texas Water Development Board **Client Sample ID:** 68-13-508
Lab Order: 0306281 **File No:** 25108
Project: TWDB FY03 **Collection Date:** 6/18/2003 10:15:00 AM
Lab ID: 0306281-05 **Matrix:** GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Calcium		103		0.20	mg/L	1	20412	6/25/2003 6:48:51 PM
Magnesium		11.1		0.20	mg/L	1	20412	6/25/2003 6:48:51 PM
Potassium		0.93		0.20	mg/L	1	20412	6/25/2003 6:48:51 PM
Sodium		6.68		0.70	mg/L	1	20412	6/25/2003 6:48:51 PM
ICP METALS DISSOLVED			**E200.7**					Analyst: **MLP**
Boron		ND		50	µg/L	1	20415	6/25/2003 6:48:51 PM
Iron		ND		50	µg/L	1	20415	6/25/2003 6:48:51 PM
Strontium		423		20	µg/L	1	20415	6/25/2003 6:48:51 PM
ICPMS DISSOLVED METALS			**E200.8**					Analyst: **SW**
Aluminum		ND		4.00	µg/L	1	20384	6/25/2003
Antimony		ND		1.00	µg/L	1	20384	6/25/2003
Arsenic		ND		2.00	µg/L	1	20384	6/25/2003
Barium		26.6		1.00	µg/L	1	20384	6/25/2003
Beryllium		ND		1.00	µg/L	1	20384	6/25/2003
Cadmium		ND		1.00	µg/L	1	20384	6/25/2003
Chromium		2.54		1.00	µg/L	1	20384	6/25/2003
Cobalt		ND		1.00	µg/L	1	20384	6/25/2003
Copper		4.34		1.00	µg/L	1	20384	6/25/2003
Lead		1.73		1.00	µg/L	1	20384	6/25/2003
Lithium		2.93		2.00	µg/L	1	20384	6/25/2003
Manganese		1.57		1.00	µg/L	1	20384	6/25/2003
Molybdenum		ND		1.00	µg/L	1	20384	6/25/2003
Nickel		2.20		1.00	µg/L	1	20384	6/25/2003
Selenium		ND		4.00	µg/L	1	20384	6/25/2003
Thallium		ND		1.00	µg/L	1	20384	6/25/2003
Vanadium		1.87		1.00	µg/L	1	20384	6/25/2003
Zinc		45.1		4.00	µg/L	1	20384	6/25/2003
CATION/ANION BALANCES			**CALCULATION**					Analyst: **WM**
Cation/Anion Balance		Balanced		0	Date	1	20588	7/8/2003
ANIONS BY ION CHROMATOGRAPHY, DISSOLVE			**E300**					Analyst: **WR**
Bromide Dissolved		0.07		0.02	mg/L	1	20574	7/7/2003 8:37:30 PM
Chloride Dissolved		10.7		1.00	mg/L	1	20574	7/7/2003 8:37:30 PM
Fluoride Dissolved		0.20		0.01	mg/L	1	20574	7/7/2003 8:37:30 PM
Sulfate Dissolved		15.5		1.00	mg/L	1	20574	7/7/2003 8:37:30 PM
ALKALINITY			**M2320 B**					Analyst: **CMM**
Alkalinity, Phenolphthalein		ND		0	mg/L CaCO3	1	20365	6/24/2003
Alkalinity, Total (As CaCO3)		288		2	mg/L CaCO3	1	20365	6/24/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

LCRA Environmental Laboratory Services

Date: *10-Jul-03*

CLIENT: Texas Water Development Board **Client Sample ID:** 68-13-~~508~~ 502

Lab Order: 0306281 **File No:** 25108

Project: TWDB FY03 **Collection Date:** 6/18/2003 10:15:00 AM

Lab ID: 0306281-05 **Matrix:** GROUNDWATER

Analyses	Storet	Result	Qual	PQL	Units	DF	Batch ID	Date Analyzed
NITRATE AND NITRITE			**E353.2**					Analyst: **WM**
Nitrogen, Nitrate & Nitrite		1.21		0.02	mg/L	1	20411	6/26/2003
SILICA			**E370.1**					Analyst: **WM**
Silica, Dissolved (as SiO2)		10.9		0.50	mg/L	1	20376	6/25/2003

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Water Quality Field Data Sheet

SWN: N/A ~~68-13-508~~ 502
County : COMAL
Aquifer : LOWER TRINITY

Name: B.M.W.D.
Address: 180 RANCHERS CIRCLE
BULVERDE, TX.
owners well # W/P #1

Sample No. BM-3111-1999
Date: JUNE 3, 1999
By : ROGER P.

	Bottle 1	Bottle 2	Bottle 3	Bottle 4	Bottle 5	Bottle 6	Bottle 7	Total Sub-Samples
	500 ml Anoins	1 liter Cations	250 ml Nitrate	1 liter Radioactivity				
		2 ml HNO3 (Nitric)	0.5 ml H2SO4 (Sulfuric)	2 ml HNO (Nitric)				All filtered unless other wise stipulated

Water level _____ LSD Remark _____

Temperature(00010) 24.7 c

Specific Cond.(00094) 582 umhos/cm

ph (00400) 6.79

Eh (00090) 134.8 mv.

Phenol ALK (82244) 0 mg/l

Total ALK (39086) 284 mg/l

Carbonate (00452) 0 meq/l 0 mg/l

Bicarbonate(00453) 5.68 meq/l 346 mg/l

Total Cations(+) Balanced

Total Anions(-)

Total Hardness(00900) 282

Dissolved Solids 315

Time in 1100
Time out 1210 Sample time 1130
well use PUBLIC
Weather CLOUDY
Outside temp 82

Starting ph 6.92 @26.2
14.2 ml. of 0.02N to
50 ml. of Sample
Ending ph 4.50 @ 29.0

Sampling point DISCHARGE(FAUCET)

Time:	1110	1115	1120	
ph:	6.55	6.75	6.79	
Temperature:	23.1	24.4	24.7	
Eh			134.8	
Conductivity:	583	585	582	

other notes
Pumping since 1000 Lift SUBMERSIBLE
Latitude N/A Power ELECTRIC
Longitude N/A Gpm 125

ml	ph
1	6.82
2	6.65
3	6.5
4	6.38
5	6.28
6	6.18
7	6.08
8	5.98
9	5.87
10	5.75
11	5.61
12	5.43
13	5.17
14	4.68
14.2	4.5

Environmental Laboratory Services
The Solution Lab

FINAL ANALYSIS REPORT

LAB ID: 9907893 SAMPLE DESCRIPTION: Groundwater
COMPANY: TX Water Dev. Board SAMPLE DATE: 06/03/99
ACCT NO: SAMPLE TIME: 1130
REQUISITION No.: R11041 DATE RECEIVED: 06/04/99
LOCATION ID: BM-3111-1999 REPORT DATE: 06/23/99

PARAMETER	RESULTS	UNITS	STORET #	PQL in WATER	DATE ANALYZED
Bromide	0.12	mg/L	71870	0.02	06/15/99
Chloride	11.2	mg/L	00941	1.5	06/15/99
Fluoride	0.21	mg/L	00950	0.01	06/15/99
Nit.,nitri/nitra-AFA	1.070	mg/L	00630	0.010	06/08/99
Nitrogen, Kjeldahl	0.056	mg/L	00623	0.040	06/08/99
Nitrogen, ammonia	<0.040	mg/L	00608	0.040	06/07/99
Phosphorus, Total	<0.040	mg/L	00665	0.040	06/08/99
Silica	10.20	mg/L	00955	0.50	06/07/99
Sulfate	13.30	mg/L	00946	1.50	06/15/99
Alkalinity, Total	267	mg/L	00410	1	06/07/99
Alkalinity, Phenol.	0	mg/L	00415	0	06/07/99
Boron, Dissolved	85.00	ug/L	01020	50.00	06/10/99
Cobalt, Diss. ICPMS	<1.0	ug/L	01035	1.0	06/08/99
Iron, Dissolved	<50.00	ug/L	01046	50.00	06/10/99
Lithium, Diss. ICPMS	3.8	ug/L	01130	2.0	06/08/99
Molybdenum Dis ICPMS	<1.0	ug/L	01060	1.0	06/08/99
Potassium, Dissolved	0.97	mg/L	00935	0.20	06/10/99
Strontium, Dissolved	369.00	ug/L	01080	20.00	06/10/99
Vanadium, Diss ICPMS	4.4	ug/L	01085	1.0	06/08/99
Aluminum, Dis. ICPMS	<4.0	ug/L	01106	4.0	06/08/99
Arsenic, Diss. ICPMS	<2.0	ug/L	01000	2.0	06/08/99
Barium, Diss. ICPMS	27.8	ug/L	01005	1.0	06/08/99
Cadmium, Diss. ICPMS	<1.0	ug/L	01025	1.0	06/08/99
Calcium, Dissolved	95.40	mg/L	00915	0.20	06/22/99
Chromium, Diss ICPMS	6.8	ug/L	01030	1.0	06/08/99
Copper, Diss. ICPMS	<2.0	ug/L	01040	2.0	06/08/99
Lead, Diss. ICPMS	2.0	ug/L	01049	1.0	06/08/99
Magnesium, Dissolved	10.50	mg/L	00925	0.20	06/10/99
Manganese, Dis ICPMS	<1.0	ug/L	01056	1.0	06/08/99
Nickel, Diss. ICPMS	4.6	ug/L	01065	1.0	06/08/99
Selenium, Dis. ICPMS	<4.0	ug/L	01145	4.0	06/08/99
Sodium, Dissolved	6.98	mg/L	00930	0.20	06/10/99
Antimony, Dis. ICPMS	<1.0	ug/L	01095	1.0	06/08/99
Beryllium, Dis ICPMS	<1.0	ug/L	01010	1.0	06/08/99
Thallium, Diss ICPMS	<1.0	ug/L	01057	1.0	06/08/99
Zinc, Diss. ICPMS	6.7	ug/L	01090	2.0	06/08/99

Lower Colorado River Authority • P. O. Box 220 • Austin, Texas 78767
3505 Montopolis Drive • Austin, Texas 78744 • (512) 356-6022 • (800) 776-5272 • (512) 356-6021 FAX

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-517

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6813517
County	Comal
River Basin	Guadalupe
Groundwater Management Area	9
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Comal Trinity GCD
Latitude (decimal degrees)	29.796945
Latitude (degrees minutes seconds)	29° 47' 49" N
Longitude (decimal degrees)	-98.429167
Longitude (degrees minutes seconds)	098° 25' 45" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GLRS - Glen Rose Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1232
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	470
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	1/19/1995
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Cedar Hill Day Camp Well #1
Driller	Kuhn Water Enterprises, Inc.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460200A
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	11/9/2011
Last Update Date	11/9/2011

Remarks	Owners well #1. PWS ID #0460200A. Estimated yield 30 GPM. Pump set at 447 feet. Cemented from 0 to 200 feet. Well originally drilled for Robert Burns (Lanark Day Care Center, Inc.).

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	200
6	Open Hole				200	470

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

Texas Water Development Board

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-517

groundwater division

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	1/23/1995		300		932	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

Texas Water Development Board
Well Schedule

groundwater resources division

State Well Number: **68-13-517** Previous Well Number: County: **Comal** **91**

Latitude (dms): **294749** Longitude (dms): **982545** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Guadalupe River** GMA: **9** RWPA: **L** GCD:

Owner: **Cedar Hill Day Camp Well #1**

Driller: **Kuhn Water Enterprises, Inc.**

Aquifer ID: **Trinity**

Aquifer Code: **218GLRS**

GLEN ROSE LIMESTONE

Depth (ft): **470**

Elevation (ft): **1232**

Source of Depth: **Driller's Log**

Source of Elevation: **Digital Elevation Model -DEM**

Date Drilled: **01/19/1995**

Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump**

Power: **Electric Motor**

Horsepower:

Construction: **Air Rotary**

Completion: **Open Hole**

Casing Material: **Steel**

Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	7	0	200
O	6	200	470

WATER USE

Primary: **Public Supply**

Secondary:

Tertiary:

Water Levels: **Miscellaneous Measurements**

1 measurement
1995
-300

Water Quality: **N**

Other Data:

Logs: **D**

REMARKS:

Owners well #1. PWS ID #0460200A. Estimated yield 30 GPM. Pump set at 447 feet. Cemented from 0 to 200 feet. Well originally drilled for Robert Burns (Lanark Day Care Center, Inc.).

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **11/09/2011**

Recorded by: D. R. Jones

New

Send original copy by certified mail to: TNRCC, P.O. Box [illegible]87, Austin, TX 78711-3087. Please use black ink.

ATTENTION OWNER: *Confidentiality Privilege Notice on Reverse Side*

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) OWNER Robert Burns/ Lanark Day Care Center, Inc. (Name) ADDRESS 4230 Clear Spring, San Antonio, Tx. 78217 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: County Comal St. Hwy 46W (most east piece from T. Anderson Ranch) (Street or RFD) (City) Bulverde (State) TX (Zip) 78163 STATE WELL # 68-13-5

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugged

4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☒ Public Supply ☐ Dewatering ☐ Testing
If Public Supply well, were plans submitted to the TNRCC? ☒ Yes ☐ No

5)

6) WELL LOG:
Date Drilling: Started 01-12 19 95 Completed 01-19 19 95

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
10 3/4	Surface	200
6 3/4	200	470

7) DRILLING METHOD (Check): ☐ Driven ☒ Air Rotary ☐ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other

From (ft.)	To (ft.)	Description and color of formation material
0	35	Firm brn L/S
35	40	Firm gray L/S
40	50	Firm brn L/S
50	90	Firm gray L/S
90	140	Firm brn L/S
140	180	Firm gray L/S
180	320	Firm brn L/S
320	400	Firm gray L/S
400	420	Firm brn L/S
420	470	Firm Gray L/S

(Use reverse side if necessary)

8) Borehole Completion (Check): ☐ Open Hole ☒ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other
If Gravel Packed give interval from ft. to ft.

GASING, BLANK PIPE, AND WELL SCREEN DATA

Diam (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
6 5/8	N	Steel	200	2' above surface	.188 w

RECEIVED
APR 04 1995
TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

9) CEMENTING DATA [Rule 338.44(1)] cu. ft.
Cemented from 200 ft. to surface ft. No. sacks used 28 w/1 yd
ft. to ft. No. of sacks used top out
Method used pressure
Cemented by Halliburton Services
Distance to septic system/field lines not in vic
Method of verification of above distance

10) SURFACE COMPLETION
☒ Specified Surface Slab Installed [Rule 338.44(2)(A)]
☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)]
☐ Pitless Adapter Used [Rule 338.44(3)(B)]
☒ Approved Alternative Procedure Used [Rule 338.71]

11) WATER LEVEL:
Static level 300 ft. below land surface Date 01-23-95
Artesian flow gpm. Date

12) PACKERS: Type Depth
N/A

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc. 447 ft.

14) WELL TESTS:
Type test: ☐ Pump ☐ Bailer ☒ Jetted ☒ Estimated
Yield: 30 gpm with ft. drawdown after hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? See Chemical Depth of strata 200 ft.
Was a chemical analysis made? ☒ Yes ☒ No

I/We hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME KUHN WATER ENTERPRISES INC. (Type or print) WELL DRILLER'S LICENSE NO. 4785W

ADDRESS P.O. Box 160, (Street or RFD) Bulverde, (City) Texas (State) 78163-0160 (Zip)

(Signed) Michael L. Tumlinson (Licensed Well Driller) (Signed) (Registered Driller Trainee)

Michael L. Tumlinson

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 09-01-93) TNRCC COPY

68-13-517

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-519

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6813519
County	Comal
River Basin	Guadalupe
Groundwater Management Area	9
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Comal Trinity GCD
Latitude (decimal degrees)	29.794445
Latitude (degrees minutes seconds)	29° 47' 40" N
Longitude (decimal degrees)	-98.434445
Longitude (degrees minutes seconds)	098° 26' 04" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218HSCC - Hensell Sand and Cow Creek Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1267
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	504
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	9/19/1995
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	CISD-Seay Spring Middle School-Well #1
Driller	Kuhn Water Enterprises, Inc.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460212A
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	11/15/2011
Last Update Date	11/15/2011

Remarks	Owners well #1. PWS ID #0460212A. Estimated yield 50 GPM. Pump set at 483 feet. Cemented from 0 to 365 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
9	Blank	Steel			0	365
8	Open Hole				365	504

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

Texas Water Development Board

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-519

groundwater division

Water Level Measurements

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	9/20/1995		290		977	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

Texas Water Development Board
Well Schedule

groundwater resources

State Well Number: **68-13-519** Previous Well Number: County: **Comal** **91**

Latitude (dms): **294740** Longitude (dms): **982604** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Guadalupe River** GMA: **9** RWPA: **L** GCD:

Owner: **CISD-Seay Spring Middle School-Well #1**

Driller: **Kuhn Water Enterprises, Inc.**

Aquifer ID: **Trinity**

Aquifer Code: **218HSCC**

HENSELL SAND AND COW CREEK LIMESTONE

Depth (ft): **504**

Elevation (ft): **1267**

Source of Depth: **Driller's Log**

Source of Elevation: **Digital Elevation Model -DEM**

Date Drilled: **09/19/1995**

Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump**

Power: **Electric Motor**

Horsepower:

Construction: **Air Rotary**

Completion: **Open Hole**

Casing Material: **Steel**

Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	9	0	365
O	8	365	504

WATER USE

Primary: **Public Supply**

Secondary:

Tertiary:

Water Levels: **Miscellaneous Measurements**

1 measurement
1995
-290

Water Quality: **N**

Other Data:

Logs: **D**

REMARKS:

Owners well #1. PWS ID #0460212A. Estimated yield 50 GPM. Pump set at 483 feet. Cemented from 0 to 365 feet.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **11/15/2011**

Recorded by: DR Jones

Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087 — Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

State of Texas WELL REPORT

Texas Water Well Drillers Advisory Council
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) OWNER Comal Independent School District (Name) ADDRESS 1421 Highway 81E, New Braunfels, Texas 78130 (Street or RFD) (City) (State) (Zip)

2) ADDRESS OF WELL: County Comal — New Intermediate School location on State Highway 46W, Bulverde, Tx. (Street or RFD) (City) (State) (Zip) STATE WELL # 68-13-5

3) TYPE OF WORK (Check): [X] New Well [ ] Deepening [ ] Reconditioning [ ] Plugging

4) PROPOSED USE (Check): [ ] Monitor [ ] Environmental Soil Boring [ ] Domestic [ ] Industrial [ ] Irrigation [ ] Injection [X] Public Supply [ ] De-watering [ ] Testwell
If Public Supply well, were plans submitted to the TNRCC? [X] Yes [ ] No

5)

6) WELL LOG:
Date Drilling:
Started 09-11- 19 95
Completed 09-19- 19 95

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
12-3/4	Surface	365
7-7/8	365	504

7) DRILLING METHOD (Check): [ ] Driven [X] Air Rotary [ ] Mud Rotary [ ] Bored [ ] Air Hammer [ ] Cable Tool [ ] Jetted [ ] Other

From (ft.)	To (ft.)	Description and color of formation material
0-	20	Firm Brn L/S w/stks of Soft Yel Clay
20-	60	Firm Gray L/S w/stks of Soft Gray Shale
60-	80	Firm Brn L/S w/stks of Soft Yel Clay
80-	140	Firm Gray L/S w/stks of Soft Gray Shale
140-	160	Firm Gray L/S
160-	200	Firm Gray L/S w/stks of Soft Gray Clay
200-	210	Firm Gray L/S
210-	260	Firm Brn L/S
260-	300	Firm Gray L/S
300-	380	Firm Brn L/S Firm Brn Gray L/S 360-380'
380-	400	Firm Gray L/S w/stks of Soft Gray Clay
400-	420	Firm Gray L/S
420-	460	Firm Brn L/S
460-	500	Firm Gray L/S w/stks of Soft Gray Clay 480-500'
500-	504	Firm Gray L/S

(Use reverse side if necessary)

8) Borehole Completion (Check): [ ] Open Hole [X] Straight Wall [ ] Underreamed [ ] Gravel Packed [ ] Other
If Gravel Packed give interval ... from ____ ft. to ____ ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casting Screen
8-5/8	N	Steel	365'	3' above surface	Sch40

9) CEMENTING DATA [Rule 338.44(1)]
Cemented from surface ft. to 365 ft. No. of sacks used 190 press.
____ ft. to ____ ft. No. of sacks used 3 yd. grout
Method used Pressure / Grout
Cemented by Halliburton & Ingram Readymix
Distance to septic system field lines N/A ft.
Method of verification of above distance Septic Not In

10) SURFACE COMPLETION
[X] Specified Surface Slab Installed [Rule 338.44(2)(A)]
[ ] Specified Steel Sleeve Installed [Rule 338.44(3)(A)]
[ ] Pitless Adapter Used [Rule 338.44(3)(B)]
[ ] Approved Alternative Procedure Used [Rule 338.74]

11) WATER LEVEL:
Static level 290' ft. below land surface Date 09-20-95
Artesian flow ____ gpm. Date ____

12) PACKERS: Type Depth
N/A

13) TYPE PUMP:
[ ] Turbine [ ] Jet [X] Submersible [ ] Cylinder
[ ] Other
Depth to pump bowls, cylinder, jet, etc., 483 ft.

14) WELL TESTS:
Type test: [ ] Pump [ ] Bailer [X] Jetted [ ] Estimated
Yield: 50 gpm with ____ ft. drawdown after ____ hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable constituents?
[X] Yes [ ] No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? See Chem Anal. Depth of strata 84'
Was a chemical analysis made? [X] Yes [ ] No

RECEIVED DEC 04 1995 TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME BURN WATER ENTERPRISES INC. (Type or print) WELL DRILLER'S LICENSE NO. 4785W

ADDRESS P.O. Box 160 (Street or RFD) Bulverde, (City) Texas (State) 78163-0160 (Zip)

(Signed) Michael L Tumlinson (Licensed Well Driller) (Signed) ____ (Registered Driller Trainee)
Michael L. Tumlinson

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 09-08-93) TNRCC COPY

046021 2 A 68-13-519

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-520

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6813520
County	Comal
River Basin	Guadalupe
Groundwater Management Area	9
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Comal Trinity GCD
Latitude (decimal degrees)	29.795556
Latitude (degrees minutes seconds)	29° 47' 44" N
Longitude (decimal degrees)	-98.436667
Longitude (degrees minutes seconds)	098° 26' 12" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218HSCC - Hensell Sand and Cow Creek Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1269
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	503
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	2/28/1997
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	CISD-Seay Spring Middle School-Well #2
Driller	Braendle Drilling, Inc.
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460212B
Groundwater Conservation District Well Number	
Owner Well Number	2
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	11/15/2011
Last Update Date	11/15/2011

Remarks	Owners well #2. PWS ID #0460212B. Estimated yield 25 GPM. Pump set at 483 feet. Cemented from 0 to 400 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
9	Blank	Steel			0	400
9	Open Hole				400	503

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	2/28/1997		375		894	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

Texas Water Development Board
Well Schedule

groundwater resources

State Well Number: **68-13-520** Previous Well Number: County: **Comal** **91**

Latitude (dms): **294744** Longitude (dms): **982612** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Guadalupe River** GMA: **9** RWPA: **L** GCD:

Owner: **CISD-Seay Spring Middle School-Well #2**

Driller: **Braendle Drilling, Inc.**

Aquifer ID: **Trinity**

Aquifer Code: **218HSCC**

HENSELL SAND AND COW CREEK LIMESTONE

Depth (ft): **503**

Elevation (ft): **1269**

Source of Depth: **Driller's Log**

Source of Elevation: **Digital Elevation Model -DEM**

Date Drilled: **02/28/1997**

Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump**

Power: **Electric Motor**

Horsepower:

Construction: **Air Rotary**

Completion: **Open Hole**

Casing Material: **Steel**

Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	9	0	400
O	9	400	503

WATER USE

Primary: **Public Supply**

Secondary:

Tertiary:

Water Levels: **Miscellaneous Measurements**

1 measurement
1997
-375

Water Quality: **N**

Other Data:

Logs: **D**

REMARKS:

Owners well #2. PWS ID #0460212B. Estimated yield 25 GPM. Pump set at 483 feet. Cemented from 0 to 400 feet.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **11/15/2011**

Recorded by: DR Jones

New

Send original copy by certified return receipt requested m | TNRCC, MC 177, P.O. Box 13087, Austin, TX 78711-308

ATTENTION OWNER: *Confidentiality Privilege Notice on on reverse side of Well Owner's copy (pink)*

State of Texas
WELL REPORT

Texas Water Well Drillers Advisory Council
MC 177
P.O. Box 13087
Austin, TX 78711-3087
512-239-0530

1) **OWNER** COMAL ISD (Name) **ADDRESS** NEW BRAUNFELS, TX (Street or RFD) (City) (State) (Zip)

2) **ADDRESS OF WELL:** County COMAL HWY 46 SPRING BRANCH, TX (Street, RFD or other) (City) (State) (Zip) **GRID #** 68-13-5

3) **TYPE OF WORK (Check):** [X] New Well [ ] Deepening [ ] Reconditioning [ ] Plugging

4) **PROPOSED USE (Check):** [ ] Monitor [ ] Environmental Soil Boring [ ] Domestic [ ] Industrial [ ] Irrigation [ ] Injection [X] Public Supply [ ] De-watering [ ] Testwell
If Public Supply well, were plans submitted to the TNRCC? [ ] Yes [ ] No

5)

6) **WELL LOG:**
Date Drilling: Started 2-18 19 97 Completed 2-28 19 97

DIAMETER OF HOLE

Dia. (in.)	From (ft.)	To (ft.)
12 3/4	Surface	400
8 ½	400	503

7) **DRILLING METHOD (Check):** [ ] Driven [X] Air Rotary [ ] Mud Rotary [ ] Bored [ ] Air Hammer [ ] Cable Tool [ ] Jetted [ ] Other

From (ft.)	To (ft.)	Description and color of formation material
0	1	TOP BLACK
1	26	BEDROCK YELLOW
26	35	CLAY BLUE
35	60	CALICHE YELLOW
60	82	LIME GREY
82	110	SHALE BLUE
110	180	LIME BEIGE
180	207	SHALE GREY
207	240	LIME GREY
240	272	LIME BEIGE
272	290	LIME GREY 457-475BROWN LIME
290	380	LIME BEIGE 475-490limegrey
380	400	SHALE GREY 490-500SHALE DARK
415	430	SAND&SHALE 500-503SHALE BLUE
430	457	GREENLIME

(Use reverse side of Well Owner's copy, if necessary)

8) **Borehole Completion (Check):** [X] Open Hole [ ] Straight Wall [ ] Underreamed [ ] Gravel Packed [ ] Other
If Gravel Packed give interval ... from _____ ft. to _____ ft.

CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	Setting (ft.) To	Gage Casing Screen
8 5/8	N	STEEL	0	400	.322

9) **CEMENTING DATA** [Rule 338.44(1)]
Cemented from 0 ft. to 400 ft. No. of sacks used 144
_____ ft. to _____ ft. No. of sacks used _____
Method used PRESSURE
Cemented by HALLIBURTON
Distance to septic system field lines or other concentrated contamination 150+ ft.
Method of verification of above distance MEASURED

10) **SURFACE COMPLETION**
[X] Specified Surface Slab Installed [Rule 338.44(2)(A)]
[ ] Specified Steel Sleeve Installed [Rule 338.44(2)(A)]
[ ] Pitless Adapter Used [Rule 338.44(3)(b)]
[ ] Approved Alternative Procedure Used [Rule 338.71]

RECEIVED
JUL 16 1997
TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

11) **WATER LEVEL:**
Static level _____ ft. below land surface Date 2-28-97
Artesian flow _____ GPM Date _____

12) **PACKERS:**

Type	Depth
HALLIBURTON	399'

13) **TYPE PUMP:**
[ ] Turbine [ ] Jet [X] Submersible [ ] Cylinder [ ] Other
Depth to pump bowls, cylinder, jet, etc., 483 ft.

14) **WELL TESTS:**
Type test: [ ] Pump [ ] Bailer [X] Jetted [ ] Estimated
Yield: 25 gpm with 0 ft. drawdown after 1 hrs.

15) **WATER QUALITY:**
Did you knowingly penetrate any strata which contained undesirable constituents?
[ ] Yes [X] No If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? [X] Yes [ ] No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME BRAENDLE DRILLING, INC. (Type or print) **WELL DRILLER'S LICENSE NO.** 3120WI

ADDRESS PO BOX 446 (Street or RFD) HELOTES (City) TX (State) 78023 (Zip)

(Signed) T. K. Braendle (Licensed Well Driller) **(Signed)** _____ (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 05-21-96) *White - TNRCC Yellow - DRILLER Pink - WELL OWNER*

0460212 B

68-13-520

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 68-13-521

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	6813521
County	Comal
River Basin	Guadalupe
Groundwater Management Area	9
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Comal Trinity GCD
Latitude (decimal degrees)	29.796389
Latitude (degrees minutes seconds)	29° 47' 47" N
Longitude (decimal degrees)	-98.4325
Longitude (degrees minutes seconds)	098° 25' 57" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218HSCC - Hensell Sand and Cow Creek Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	1229
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	490
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	2/6/2002
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Public Supply
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Hill Country Christian Church (Well #1)
Driller	T.R. Drilling & Service
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0460242A
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	11/17/2011
Last Update Date	7/12/2016

Remarks	Estimated yield 20 GPM. Cemented from 0 to 365 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	365
6	Open Hole				365	490

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

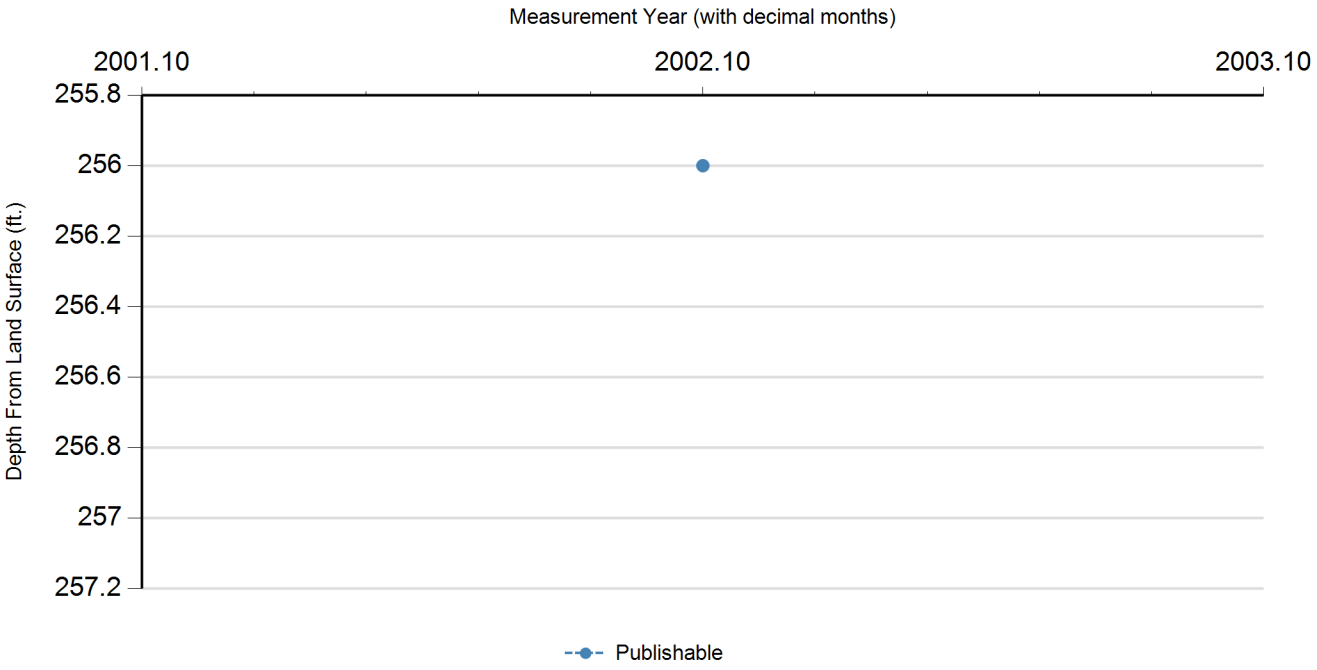
Borehole - No Data

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	2/6/2002		256		973	1	Registered Water Well Driller	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

Texas Water Development Board
Well Schedule

groundwater resources division

State Well Number: **68-13-521** Previous Well Number: County: **Comal** **91**

Latitude (dms): **294747** Longitude (dms): **982557** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **Guadalupe River** GMA: **9** RWPA: **L** GCD:

Owner: **Hill Country Christian Church (Well #1)** Driller: **T.R. Drilling & Service** Aquifer ID: **Trinity**

Aquifer Code: **218HSCC**

HENSELL SAND AND COW CREEK LIMESTONE

Depth (ft): **490** Elevation (ft): **1229**

Source of Depth: **Driller's Log** Source of Elevation: **Digital Elevation Model -DEM**

Date Drilled: **02/06/2002** Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:

Construction: **Air Rotary** Completion: **Open Hole**

Casing Material: **Steel** Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

	Dia. (in.)	Top (ft.)	Bottom (ft.)
C	7	0	365
O	6	365	490

WATER USE

Primary: **Public Supply** Secondary: Tertiary:

Water Levels: **Miscellaneous Measurements**

1 measurement
2002
-256

Water Quality: **N**

Other Data: Logs: **D**

REMARKS:
Owners well #1. PWS ID #0460242A. Estimated yield 20 GPM. Cemented from 0 to 365 feet.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **11/17/2011**

Recorded by: DR Jones

New

Attention Owner: Confidentiality Privilege Notice on reverse side of owner's copy.

Texas Department of License and Regulation

Water Well Driller/Pump Installer Program
P.O. Box 12157 Austin, Texas 78711 (512) 463-7880 FAX (512) 463-8616
Toll free (800) 803-9202
Email address: water.well@license.state.tx.us

This form must be completed and filed with the department and owner within 60 days upon completion of the well.

WELL REPORT

A. WELL IDENTIFICATION AND LOCATION DATA

1) OWNER

Name	Address	City	State	Zip
Hill Country Christian Church	HWY 46 East	Spring Branch	TX	78070

2) WELL LOCATION

County	Physical Address	City	State	Zip
Comal	HWY 46 East	Spring Branch	TX	78070

Lat. Long. Grid # 68-13-5

3) Type of Work
☑ New Well ☐ Deepening ☐ Reconditioning

4) Proposed Use (check) ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☑ Public Supply ☐ De-watering ☐ Testwell
If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No

5) N↑

6) Drilling Date
Started 1/30/2002
Completed 2/06/2002

Diameter of Hole

Dia. (in)	From (ft)	To (ft)
6 1/8 Pilot Hole	0	490
11	0	365
6 1/8	365	490

7) Drilling Method (check) ☐ Driven ☑ Air Rotary ☐ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other

From (ft)	To (ft)	Description and color of formation material
0	1	Topsoil
1	18	Yellow Caliche
18	76	Grey Rock & Shale Layers
76	88	Yellow Rock
88	163	Grey Rock & Shale Layers
163	196	Yellow Rock (Porous)
196	269	Grey Rock & Shale Layers
269	318	Yellow Rock
318	347	Yellow Rock (Porous) & Red Clay Layers
347	417	Grey Rock & Shale Layers & Calcite
417	436	Brown, Tan Rock
436	474	Grey, Brown Rock

(Use reverse side of Well Owner's copy, If necessary)

8) Borehole Completion ☑ Open Hole ☐ Straight Wall ☐ Under-reamed ☐ Gravel Packed ☐ Other
If Gravel Packed give the interval from ft. to ft.

Casing, Blank Pipe, and Well Screen Data

Dia. (in.)	New Or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft) From	Setting (ft) To	Gage Casing Screen
6 5/8	N	Steel	0	365	.288

9) Cementing Data
Cementing from 0 ft. to 365 ft. # of sacks used 59
ft. to ft. # of sacks used
Method Used Pressure
Cementing By TR Drilling & Service
Distance to septic system field or other concentrated contamination 150 ft.
Method of verification of above distance Estimated

13) Plugged ☐ Well plugged within 48 hours

Casing left in well: Cement/Bentonite placed in well:

From (ft)	To (ft)	From (ft)	To (ft)	Sacks used

10) Surface Completion
☑ Specified Surface Slab Installed
☐ Specified Surface Sleeve Installed
☐ Pitless Adapter Used
☐ Approved Alternative Procedure Used

14) Typepump
☐ Turbine ☐ Jet ☑ Submersible ☐ Cylinder ☐ Other
Depth to pump bowls, cylinder, jet, etc., ft.

11) Water Level
Static level 256 ft. below Date 2/06/2002
Artesian Flow gpm. Date / /

15) Water Test
Typetest ☐ Pump ☐ Bailer ☐ Jetted ☑ Estimated
Yield: 20+ gpm with ft. drawdown after hrs.

16) Water Quality
Did you knowingly penetrate any strata which contain undesirable constituents?
☐ Yes ☐ NO If yes, did you submit a REPORT OF UNDESIRABLE WATER?
Type of water Depth of Strata
Was a chemical analysis made? ☐ Yes ☐ No

12) Packers

Type	Depth
Shale	365'

Company or Individual's Name (type or print) TR Drilling & Service — Lic. No. 2901WPK

Address P.O. Box 733 — City Boerne — State TX — Zip 78006

Signature	Date	Signature	Date
Licensed Driller/Pump Installer	3 105 102	Apprentice	3 28 102

68-13-521

ON BACK

0460242 A

IMPORTANT NOTICE FOR PERSONS HAVING WELL DRILLED CONCERNING CONFIDENTIALITY

Section 32.005 of the Texas Water Code, concerning confidentiality information in the Reporting of Well Reports, reads as follows:

> Every licensed driller drilling, deepening, or otherwise altering a water well in this State shall make and keep a legible and accurate well log in accordance with department rule on forms prescribed by the department. Not later than the 60th day after the completion or cessation of drilling, deepening, or otherwise altering the well, the licensed driller shall deliver or transmit by certified mail a copy of the well log to the department, the Texas Natural Resources Conservation Commission, and the owner of the well or the person for whom the well was drilled. The well log shall be recorded at the time of drilling and must show the depth, thickness, and character of the strata penetrated, the location of water-bearing strata, the depth, size, and character of casing installed, and any other information required by department rule. 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 or the person for whom the well was drilled.

The last sentence specifies the means whereby you may, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material
474	**490**	**Soft Blue Grey Shale**

68-13-521

APPENDIX H

GROUNDWATER QUALITY REPORT

In accordance with *30 TAC § 309.20(a)(4)(A and B)*, there are 10 wells or sources of water within a 0.5 mile radius of the SADDS disposal site (*30 TAC § 309.20(a)(4)(A))*. Two of these are owned by the school which the WWTP serves. The wells within school property are cased with steel piping. The wells outside the property but within a half-mile are cased with either steel or PVC piping. The site contains no ponds and does not exceed the prescribed rate of 0.1 gal/ft^2/day due to its position according to *30 TAC § 222.83*. There are no proposed monitor wells around the site.

The site is above the Trinity Aquifer and within the contributing zone of the Edwards Aquifer. The depth of groundwater in the area varies between around 250-500 feet from the ground surface. Groundwater use in the surrounding area is a mix of domestic and public supply.

The facility is protective of local groundwater by having a large disposal area, along with using the prescribed rate of 0.1 gal/ft*2/day that limits the amount of effluent disposed within the area each day (*30 TAC § 309.20(a)(4)(B))*. The welded steel tanks protect the area from any potential seepage.

APPENDIX I

USDA SOIL MAP

Soil Map—Comal and Hays Counties, Texas
(SBMS)

Map Scale: 1:1,560 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 20 40 80 120

Feet
0 50 100 200 300

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

MAP LEGEND

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

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

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

Water Features
- Streams and Canals

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

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Comal and Hays Counties, Texas
Survey Area Data: Version 21, Aug 30, 2024

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

Date(s) aerial images were photographed: Dec 10, 2020—Dec 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BtD	Brackett-Rock outcrop-Comfort complex, 1 to 8 percent slopes	0.6	21.7%
BtG	Brackett-Rock outcrop-Real complex, 8 to 30 percent slopes	2.3	78.3%
Totals for Area of Interest		**3.0**	**100.0%**

APPENDIX J

SOIL ANALYSIS

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trent DeWaters **Comal I.S.D.** **1404 N IH 35** **New Braunfels, TX 78130**	**Project Name: Annual** **§Sample ID: SBMS 0-12"** **Matrix: Soil** **Date/Time Taken: 12/28/2023 1230**	**PCS Sample #: 746187 Page 1 of 3** **Date/Time Received: 1/2/2024 08:00** **Report Date: 1/23/2024** **Approved by:** Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
pH		7.8	S.U.	N/A	1/12/2024 12:01	SW846 9045	GTG
Conductivity, Specific		229	µmhos/cm at 25° C	N/A	1/8/2024 10:13	SM 2510B	CLH
Nitrate-N		6.9	mg/kg	0.1	1/15/2024 13:20	EPA 352.1	EMV
Kjeldahl-N, Total	!	1,953	mg/kg	3	1/4/2024 11:15	SM 4500-N B/C	PML
Ammonia-N		<3	mg/kg	3	1/15/2024 13:45	SM 4500-NH3 B/C	PML
Nitrogen, Total		1,960	mg/kg	1	1/15/2024 13:20	Calculation	CFW
Calcium (H2O Soluble)		260	mg/L	1.00	1/19/2024 09:04	SAR / EPA 200.7	DJL
Magnesium (H2O Soluble)	R	13.0	mg/L	1.00	1/19/2024 09:04	SAR / EPA 200.7	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
pH	N/A	N/A	N/A			N/A			
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N	3	10	70	109	106	130	102	85 - 115	
Kjeldahl-N, Total	<1	13	83	86	86	114	101	85 - 115	<3
Ammonia-N	6	10	88	101	95	104	104	85 - 115	
Nitrogen, Total	N/A	N/A	N/A			N/A			
Calcium (H2O Soluble)	<1	20	70	*N/C	*N/C	130	95	85 - 115	
Magnesium (H2O Soluble)	<1	20	70	*145	*145	130	95	85 - 115	

***Quality Statement:** All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are abailable on request.*

*Approved for release per QA Plan, Exception to Limits - QAM Section 13-4
! *Parameter not NELAP certifiable*
R *Spike recovery outside control limits due to matrix effect - LCS within limits*
§ *Reported on a Dry Weight Basis*

These analytical results relate only to the sample tested.
All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
RL = Reporting Limits
N/C = Not Calculated, Sample Concentration Greater than 5 times the Spike Level

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POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trent DeWaters **Comal I.S.D.** **1404 N IH 35** **New Braunfels, TX 78130**	**Project Name: Annual** **§Sample ID: SBMS 0-12"** **Matrix: Soil** **Date/Time Taken: 12/28/2023 1230**	**PCS Sample #: 746187 Page 2 of 3** **Date/Time Received: 1/2/2024 08:00** **Report Date: 1/23/2024**

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Sodium (H2O Soluble)	R	21.0	mg/L	1.00	1/19/2024 09:04	SAR / EPA 200.7	DJL
Sodium Absorption Ratio	!	0.3	N/A	N/A	1/22/2024 10:20	USDA	DJL
Sodium/ICP (Mehlich III)		25.3	mg/kg	11.5	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Calcium/ICP (Mehlich III)		29,200	mg/kg	5.73	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Magnesium/ICP (Mehlich III)		215	mg/kg	5.73	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Phosphorous/ICP (Mehlich III)		<5.73	mg/kg	5.73	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Potassium/ICP (Mehlich III)		278	mg/kg	5.73	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Sulfur/ICP (Mehlich III)		17.7	mg/kg	5.73	1/22/2024 12:07	Mehlich 3/EPA 200.7	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Sodium (H2O Soluble)	<1	20	70	*184	*184	130	95	85 - 115	
Sodium Absorption Ratio	N/A	N/A	N/A			N/A			
Sodium/ICP (Mehlich III)	4	20	70	78	74	130	109	85 - 115	
Calcium/ICP (Mehlich III)	5	20	70	*N/C	*N/C	130	100	85 - 115	
Magnesium/ICP (Mehlich III)	7	20	70	115	107	130	102	85 - 115	
Phosphorous/ICP (Mehlich III)	<1	20	75	123	121	125	105	85 - 115	
Potassium/ICP (Mehlich III)	1	20	70	107	105	130	98	85 - 115	
Sulfur/ICP (Mehlich III)	2	20	70	108	108	130	102	85 - 115	

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are abailable on request.

*Approved for release per QA Plan, Exception to Limits - QAM Section 13-4
! Parameter not NELAP certifiable
R Spike recovery outside control limits due to matrix effect - LCS within limits
§ Reported on a Dry Weight Basis

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POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trent DeWaters **Comal I.S.D.** **1404 N IH 35** **New Braunfels, TX 78130**	**Project Name: Annual** **§Sample ID: SBMS 0-12"** **Matrix: Soil** **Date/Time Taken: 12/28/2023 1230**	**PCS Sample #: 746187 Page 3 of 3** **Date/Time Received: 1/2/2024 08:00** **Report Date: 1/23/2024**

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Total Solids	86.5	%	0.10	1/2/2024 16:30	SM 2540 G	EMV

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Total Solids	<1	12	N/A			N/A			

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POLLUTION CONTROL SERVICES

NELAP ACCREDITED TNI LABORATORY

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Trent DeWaters **Comal I.S.D.** **1404 N IH 35** **New Braunfels, TX 78130**	**Project Name: Annual** **§Sample ID: SBMS 12-24"** **Matrix: Soil** **Date/Time Taken: 12/28/2023 1230**	**PCS Sample #: 746188 Page 1 of 3** **Date/Time Received: 1/2/2024 08:00** **Report Date: 1/23/2024** **Approved by:** Chuck Wallgren, President

Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
pH		7.9	S.U.	N/A	1/12/2024 11:47	SW846 9045	GTG
Conductivity, Specific		204	µmhos/cm at 25° C	N/A	1/8/2024 10:13	SM 2510B	CLH
Nitrate-N		6.3	mg/kg	0.1	1/15/2024 13:20	EPA 352.1	EMV
Kjeldahl-N, Total	!	707	mg/kg	3	1/10/2024 10:30	SM 4500-N B/C	PML
Ammonia-N		<3	mg/kg	3	1/15/2024 13:45	SM 4500-NH3 B/C	PML
Nitrogen, Total		713.3	mg/kg	1	1/15/2024 13:20	Calculation	CFW
Calcium (H2O Soluble)		180	mg/L	1.00	1/19/2024 09:04	SAR / EPA 200.7	DJL
Magnesium (H2O Soluble)	R	10.0	mg/L	1.00	1/19/2024 09:04	SAR / EPA 200.7	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
pH	N/A	N/A	N/A			N/A			
Conductivity, Specific	N/A	N/A	N/A			N/A			
Nitrate-N	3	10	70	109	106	130	102	85 - 115	
Kjeldahl-N, Total	1	13	83	105	104	114	106	85 - 115	<3
Ammonia-N	6	10	88	101	95	104	104	85 - 115	
Nitrogen, Total	N/A	N/A	N/A			N/A			
Calcium (H2O Soluble)	<1	20	70	*N/C	*N/C	130	95	85 - 115	
Magnesium (H2O Soluble)	<1	20	70	*145	*145	130	95	85 - 115	

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POLLUTION CONTROL SERVICES

Report of Sample Analysis

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Test Description	Flag	Result	Units	RL	Analysis Date/Time	Method	Analyst
Sodium (H2O Soluble)	R	51.0	mg/L	1.00	1/19/2024 09:04	SAR / EPA 200.7	DJL
Sodium Absorption Ratio	!	1.0	N/A	N/A	1/22/2024 10:20	USDA	DJL
Sodium/ICP (Mehlich III)		49.3	mg/kg	11.4	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Calcium/ICP (Mehlich III)		43,200	mg/kg	5.69	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Magnesium/ICP (Mehlich III)		282	mg/kg	5.69	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Phosphorous/ICP (Mehlich III)		<5.69	mg/kg	5.69	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Potassium/ICP (Mehlich III)		159	mg/kg	5.69	1/22/2024 08:07	Mehlich 3/EPA 200.7	DJL
Sulfur/ICP (Mehlich III)		26.0	mg/kg	5.69	1/22/2024 12:07	Mehlich 3/EPA 200.7	DJL

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Sodium (H2O Soluble)	<1	20	70	*184	*184	130	95	85 - 115	
Sodium Absorption Ratio	N/A	N/A	N/A			N/A			
Sodium/ICP (Mehlich III)	4	20	70	78	74	130	109	85 - 115	
Calcium/ICP (Mehlich III)	5	20	70	*N/C	*N/C	130	100	85 - 115	
Magnesium/ICP (Mehlich III)	7	20	70	115	107	130	102	85 - 115	
Phosphorous/ICP (Mehlich III)	<1	20	75	123	121	125	105	85 - 115	
Potassium/ICP (Mehlich III)	1	20	70	107	105	130	98	85 - 115	
Sulfur/ICP (Mehlich III)	2	20	70	108	108	130	102	85 - 115	

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POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
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Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Total Solids	86.9	%	0.10	1/2/2024 16:30	SM 2540 G	EMV

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Total Solids	<1	12	N/A			N/A			

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POLLUTION CONTROL SERVICES

Chain of Custody Number: 746187

Stamp 1st sample and COC as same number

MULTIPLE SAMPLE ANALYSIS REQUEST AND CHAIN OF CUSTODY FORM

CUSTOMER INFORMATION

Name: Comal ISD

REPORT INFORMATION

Attention: Bradley Campbell | Phone: 830/708-64 | Fax:

SAMPLE INFORMATION

Project Information: Spring Branch MS

Report "Soils" ☐ As Is ☒ Dry Wt.

Collected By: Jeff DePree

Requested Analysis: (1) pH, TKN, Cond, NO_3-N; (2) K, P, Ca, Mg, Na, S / ICP; (3) SAR/H_2O Soluble Na, Ca, Mg

Client / Field Sample ID	Collected Date	Collected Time	Field Chlorine Residual mg/L	Composite or Grab	Matrix	Container Type	Container Number	Preservative	Analysis 1	Analysis 2	Analysis 3	Instructions/Comments / PCS Sample Number
0-12"	Start: 12/28/23 End: 12/28/23	Start: 0800 End: 12:30		☒C ☐G	☐DW ☐NPW ☐WW ☒Soil ☐Sludge ☐LW ☐Other	☒P ☐G ☐O	1	☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☒ N/A	X	X	X	746187 ☐S ☐B ☐N ☐HEM Other:
12-24"	Start: 12/28/23 End: 12/28/23	Start: 0800 End: 12:30		☒C ☐G	☐DW ☐NPW ☐WW ☒Soil ☐Sludge ☐LW ☐Other	☒P ☐G ☐O	1	☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☒ N/A	X	X	X	746188 ☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐				☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐				☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐				☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐				☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐				☐S ☐B ☐N ☐HEM Other:
	Start: End:	Start: End:		☐C ☐G	☐DW ☐NPW ☐WW ☐Soil ☐Sludge ☐LW ☐Other	☐P ☐G ☐O		☐H_2SO_4 ☐HNO_3 ☐H_3PO_4 ☐NaOH ☐ICE ☐				☐S ☐B ☐N ☐HEM Other:

Matrix: **DW**-Drinking Water; **NPW**-Non-potable water; **WW**-Wastewater; **LW**-Liquid Waste

Required Turnaround: ☐ Routine (6-10 days) *EXPEDITE:* (See Surcharge Schedule) ☐ < 8 Hrs. ☐ < 16 Hrs. ☐ < 24 Hrs. ☐ 5 days ☐ Other: ______ *Rush Charges Authorized by:*

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Hold for client pick up

Container Type: P = Plastic, G = Glass, O = Other ______ Carrier ID: ______

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Jeff DePree (signature)	01/02/24	0800			
			Jason Aguillon (signature)	1-2-24	0800

Rev. Multiple Sample COC_20180628

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Login at www.pcslab.net

Pollution Control Services
Sample Log-In Checklist

PCS Sample No(s) 746187 746188 **COC No.** 746187

Client/Company Name: CISD **Checklist Completed by:** AA

Sample Delivery to Lab Via:
Client Drop Off _____ Commercial Carrier: Bus _____ UPS _____ Lone Star _____ FedEx _____ USPS _____
PCS Field Services: Collection/Pick Up ✓ Other: _____

Sample Kit/Coolers
Sample Kit/Cooler? Yes ✓ No _____ Sample Kit/Cooler: Intact? Yes ✓ No ___
Custody Seals on Sample Kit/Cooler: Not Present ✓ If Present, Intact ___ Broken ___
Sample Containers Intact; Unbroken and Not Leaking? Yes ✓ No ___
Custody Seals on Sample Bottles: Not Present ✓ If Present, Intact ___ Broken ___
COC Present with Shipment or Delivery or Completed at Drop Off? Yes ✓ No ___
Has COC sample date/time and other pertinent information been provided by client/sampler? Yes: ✓ No: ___
Has COC been properly Signed when Received/Relinquished? Yes ✓ No ___
Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes ✓ No ___
All Samples Received before Hold Time Expiration? Yes ✓ No ___
Sufficient Sample Volumes for Analysis Requested? Yes ✓ No ___
Zero Headspace in VOA Vial? Yes ___ No ___

Sample Preservation:
* ***Cooling:*** **Not Required** ✓ or **Required** _____
If cooling required, record temperature of submitted samples Observed/Corrected 15 / 15 °C
Is Ice Present in Sample Kit/Cooler? ✓ Yes _____ No Samples received same day as collected? _____ Yes ✓ No
Lab Thermometer Make and Serial Number: Vaughan 1807009583 Other: _____

Acid Preserved Sample - If present, is pH <2? **Yes** ____ **No** ____ ** _____H_2SO_4 _____HNO_3 _____H_3PO_4
Base Preserved Sample - If present, is pH >12? Yes ____ No ____ _____NaOH
Other Preservation: _____ If Present, Meets Requirements? Yes_____ No_____
Sample Preservations Checked by: _____ Date _____ Time _____
pH paper used to check sample preservation (PCS log #): _____ (HEM pH checked at analysis).
Samples Preserved/Adjusted by Lab:

Lab #	Parameters Preserved	Preservative Used	Log #

Adjusted by Tech/Analyst: _____ Date : _____ Time: _____

Client Notification/ Documentation for "No" Responses Above/ Discrepancies/ RevisionComments
Person Notified: _____ Contacted by: _____
Notified Date: _____ Time: _____
Method of Contact: At Drop Off: _____ Phone ___ Left Voice Mail ____ E-Mail _____ Fax _____
Unable to Contact _____ Authorized Laboratory to Proceed : _____ (Lab Director)
Regarding / Comments: _____
_____
_____
Actions taken to correct problems/discrepancies: _____
_____
_____
Receiving qualifier needed (*requires client notification above*) Temp. ___ Holding Time ___ Initails: _____
Receiving qualifier entered into LIMS at login Initial/Date: _____
Revision Comments: _____
_____

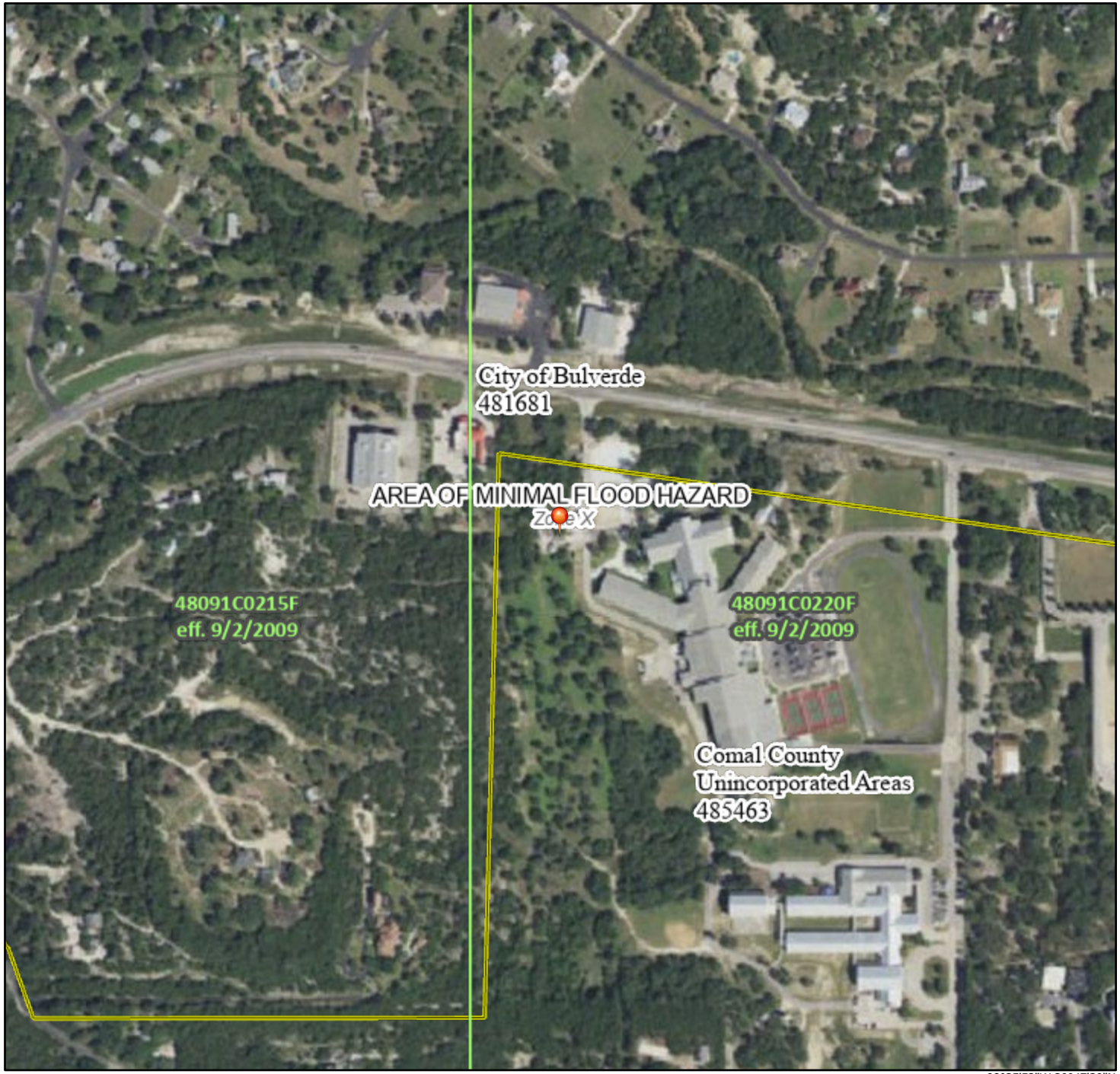
APPENDIX K

FEMA FLOOD MAP

National Flood Hazard Layer FIRMette

FEMA

98°26'31"W 29°48'10"N



98°25'53"W 29°47'39"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

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

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

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

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

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

N

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

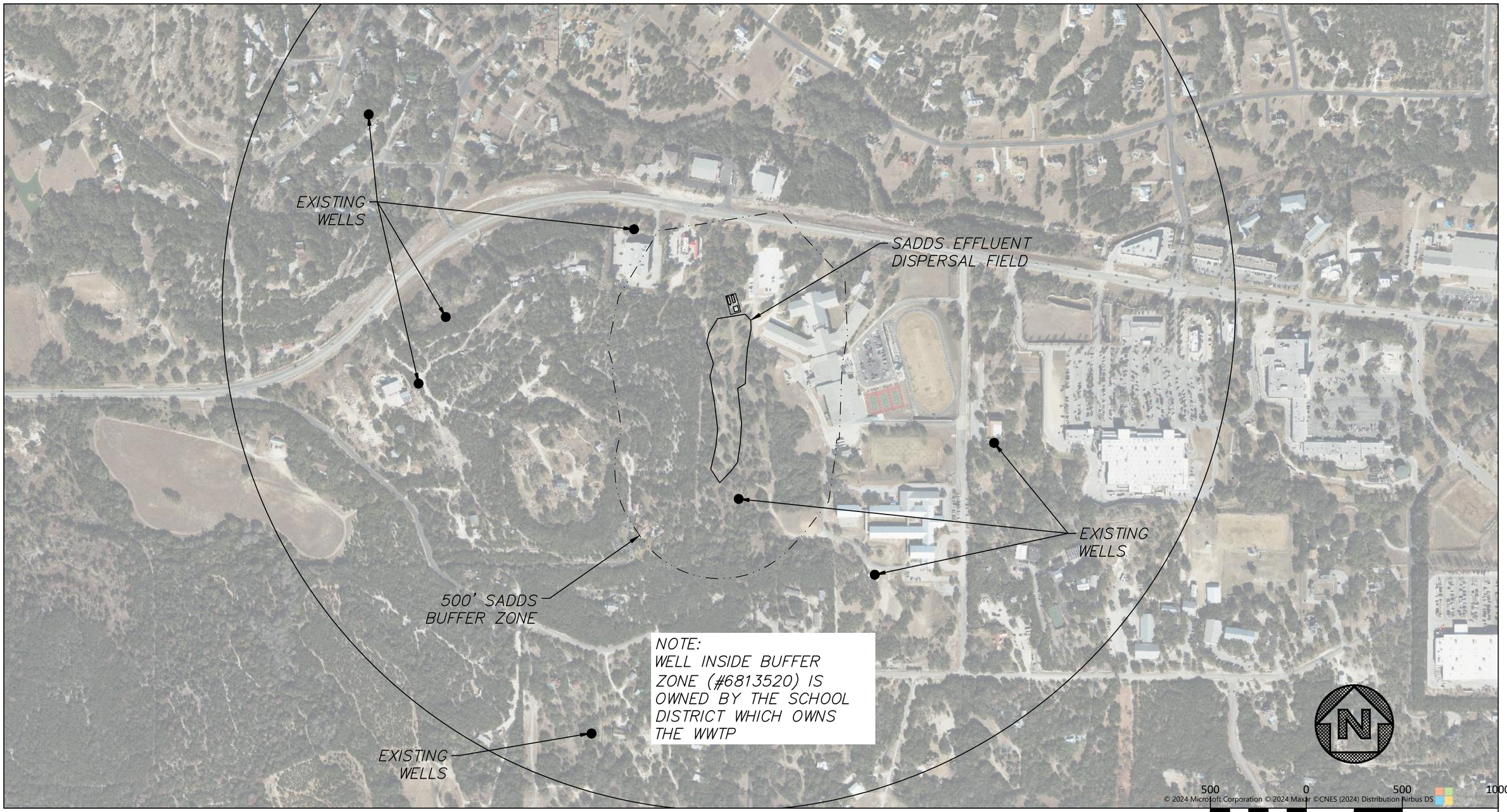
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/8/2024 at 11:18 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX L

SURFACE WATERS
BUFFER MAP



DUNAWAY
118 McKinney St. • P.O. Box 606 • Farmersville, Texas 75442
TEL: 972.784.7777
(TXENG FIRM F-1114)

SBMS SURFACE WATER BUFFER ZONE

Candice Calhoun

From: Cody Wootton <cwootton@dunaway.com>
Sent: Thursday, January 30, 2025 6:26 PM
To: Candice Calhoun
Cc: bradley.campbell@comalisd.org; Leah Whallon
Subject: Re: [EXTERNAL]Application to Renew Permit No. WQ0013812003 - Comal Independent School District
Attachments: NOD1 Response Letter.pdf; NORI Espanol.docx

Ms. Courville,

Attached are the relevant documents to respond to the NOD dated January 16, 2025.

Please note that I am working on obtaining the new signatures, and was advised by Ms. Whallon to send you what I have now so we can coordinate an extension for CISD to get me the new signatures to send to you. These files are fully complete as intended other than the PDF containing those updated files, and I informed them that I need the updated signatures ASAP.

Please let me know if there are any questions or comments in the meantime.

Thank you,
Cody Wootton, EIT
Graduate Engineer I
T 972.784.7777

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Thursday, January 16, 2025 3:05 PM
To: Cody Wootton <cwootton@dunaway.com>
Cc: bradley.campbell@comalisd.org <bradley.campbell@comalisd.org>
Subject: [EXTERNAL]Application to Renew Permit No. WQ0013812003 - Comal Independent School District

Good afternoon, Mr. Wootton,

The attached Notice of Deficiency (NOD) letter dated January 16, 2025, requests additional information needed to declare the application administratively complete. Please send complete response, via email, by January 30, 2025.

Please let me know if you have any questions.

Regards,

Dunaway No. 12320.001

January 30, 2025

Candice Courville
Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC148)
512-239-4312

Re: Application to Renew Permit No.: WQ0013812003
Applicant Name: Comal Independent School District (CN600249825)
Site Name: Spring Branch Middle School WWTP (RN102077542)
Type of Application: Renewal

Dear Ms. Courville:

This letter is to address the items listed in the Notice of Deficiency 1 sent via email on January 16th, 2024. The complete response is as follows:

Item 1: "Administrative Report 1.0 – Section 14 i) The signature page provided is insufficient. The individual signing the application, for school districts, must at least be the level of an assistant superintendent or board member. Please provide an updated…"

Response 1: Attached is updated pages that contained the old signature. They not have the signature of the new COO of CISD.

Item 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."

Response 2: This portion of the NORI seems accurate and complete.

Item 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…"

Response 3: Attached is a Word Document of the NORI translated into Spanish.

Please let us know if there is anything else needed to ensure the renewal application is administratively complete.

Sincerely,

DUNAWAY ASSOCIATES, LLC
a Texas limited liability company

Cody Wootton, EIT
Graduate Engineer

Candice Calhoun

From:	Candice Calhoun
Sent:	Friday, January 31, 2025 2:52 PM
To:	Cody Wootton
Cc:	bradley.campbell@comalisd.org; Erwin Madrid
Subject:	Application for Permit No. WQ0013812003 - Notice of Deficiency 30-Day Will Return Letter
Attachments:	WQ0013812003_Will Return Ltr.pdf
Importance:	High

Dear applicant,

The attached Notice of Deficiency 30-Day Will Return Letter was mailed on January 31, 2025, requesting additional information needed to declare the application administratively complete. The original will be sent by certified mail. Please send the complete response by March 2, 2025.

Regards,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

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

Candice Calhoun

From: Cody Wootton <cwootton@dunaway.com>
Sent: Wednesday, February 26, 2025 11:22 AM
To: Candice Calhoun
Cc: bradley.campbell@comalisd.org; Leah Whallon
Subject: Re: [EXTERNAL]Application to Renew Permit No. WQ0013812003 - Comal Independent School District
Attachments: NOD1 Response Letter.pdf; NORI Espanol.docx; Signature Updates.pdf

Ms. Courville,

I have received the new signature, attached to this email along with an updated NOD response and its attachments.

Please let me know if you have any questions or need anything else.

Thank you very much for your help,
Cody Wootton, EIT
Graduate Engineer I
T 972.784.7777

From: Candice Calhoun <Candice.Calhoun@tceq.texas.gov>
Sent: Friday, January 31, 2025 9:14 AM
To: Cody Wootton <cwootton@dunaway.com>
Cc: bradley.campbell@comalisd.org <bradley.campbell@comalisd.org>; Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Subject: RE: [EXTERNAL]Application to Renew Permit No. WQ0013812003 - Comal Independent School District

Mr. Wootton,

Thank you, your response for items 2, and 3 is sufficient. Once you have received the new signature page, please send that over. As stated in my previous email, I will have the 30-day letter issued to you no later than the close of business today.

Thank you,

Candice Courville
License & Permit Specialist
ARP Team | Water Quality Division
Texas Commission on Environmental Quality
512-239-4312
candice.calhoun@tceq.texas.gov

Dunaway No. 12320.001

February 26, 2025

Candice Courville
Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC148)
512-239-4312

Re: Application to Renew Permit No.: WQ0013812003
Applicant Name: Comal Independent School District (CN600249825)
Site Name: Spring Branch Middle School WWTP (RN102077542)
Type of Application: Renewal

Dear Ms. Courville:

This letter is to address the items listed in the Notice of Deficiency 1 sent via email on January 16th, 2024. The complete response is as follows:

Item 1: "Administrative Report 1.0 – Section 14 i) The signature page provided is insufficient. The individual signing the application, for school districts, must at least be the level of an assistant superintendent or board member. Please provide an updated…"

Response 1: Attached is updated pages that contained the old signature. These are: signature page, laboratory accreditation, and core data form signature. They now have the signature of the new COO of CISD.

Item 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."

Response 2: This portion of the NORI seems accurate and complete.

Item 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…"

Response 3: Attached is a Word Document of the NORI translated into Spanish.

Please let us know if there is anything else needed to ensure the renewal application is administratively complete.

Sincerely,

DUNAWAY ASSOCIATES, LLC
a Texas limited liability company

Cody Wootton, EIT
Graduate Engineer

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0013812003

Applicant: Comal Independent School 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): Mark Stahl

Signatory title: Chief Operations Officer

Signature: _____ Date: 2/26/2025

(Use blue ink)

Subscribed and Sworn to before me by the said Mark Stahl

on this 26 day of Feb, 20 25.

My commission expires on the 3 day of May, 20 26.

_____

Notary Public

[SEAL]

Comal County

County, Texas

SELMA GARCIA DEALBA
Notary Public, State of Texas
My Commission Expires
May 03, 2026
NOTARY ID 13155362-9

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Mark Stahl

Title: Chief Operations Officer

Signature: _____

Date: 2/26/2025

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:
	WQ0013812003			

SECTION IV: Preparer Information

40. Name:	Cody Wootton, EIT	**41. Title:**	Graduate Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(972) 784-7777		( ) -	cwootton@dunaway.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:	Comal ISD	**Job Title:**	Chief Operations Officer
Name *(In Print):*	Mark A. Stapp	**Phone:**	(830) 221-2150
Signature:		**Date:**	02/26/2025