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

Plain Language Summary

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

Berry Creek Land Investment, LLC, 40 East 94 St, Apt 26A. New York, NY 10128, has applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Land Application Permit (TLAP) to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 195,000 gallons per day via public access surface spray irrigation system with a minimum of 55.9 acres. This permit will not authorize a discharge of pollutants into water in the state.

The domestic wastewater treatment facility will be located approximately 1,500 feet northwest of the intersection of County Rd 194 and County Rd 140, near the city of Georgetown, in Williamson County, TX 78626. The permit application will be available for viewing and copying at Georgetown Public Library, 402 W 8th St, Georgetown in Williamson County, Texas.

Land application of domestic wastewater from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. The domestic wastewater will be treated by a conventional activated sludge process, and the system will have a primary screen, aeration basins, clarification zones, and sludge holding tanks. The facility will utilize chlorine disinfection.

Plain Language Summary

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

Berry Creek Land Investment, LLC, 40 East 94 St, Apt 26A, Nueva York, NY 10128, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) un Nuevo Permiso de Solicitud de Tierras de Texas (TLAP) para autorizar la eliminación de aguas residuales tratadas en un volumen que no exceda un caudal promedio diario de 195,000 galones por día mediante un sistema de riego por aspersión superficial de acceso público con un mínimo de 55.9 acres. Este permiso no autoriza la descarga de contaminantes al agua del estado.

La planta de tratamiento de aguas residuales domésticas se ubicará aproximadamente a 1,500 pies al noroeste de la intersección de County Rd 194 y County Rd 140, cerca de la ciudad de Georgetown, en el Condado de Williamson, TX 78626. La solicitud de permiso estará disponible para consulta y copia en la Biblioteca Pública de Georgetown, 402 W 8th St, Georgetown, Condado de Williamson, Texas.

Se espera que la aplicación al suelo de las aguas residuales domésticas de la planta contenga la demanda bioquímica de oxígeno carbonoso de cinco días (DOCB5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH_3-N) y Escherichia coli. Las aguas residuales domésticas se tratarán mediante un proceso convencional de lodos activados, y el sistema contará con un tamiz primario, tanques de aireación, zonas de clarificación y tanques de retención de lodos. La planta utilizará desinfección con cloro.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0016892001

APPLICATION. Berry Creek Land Investment LLC, 40 East 94th Street, Apartment 26A, New York, New York 10128, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016892001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 195,000 gallons per day via surface application on approximately 55.9 acres. The domestic wastewater treatment facility and disposal area will be located approximately 1,500 feet northwest of the intersection of County Road 140 and County Road 194, near the city of Georgetown, in Williamson County, Texas 78626. TCEQ received this application on October 3, 2025. The permit application will be available for viewing and copying at Georgetown Public Library, 402 West 8th Street, Georgetown, in Williamson 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=-97.609032,30.682632&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.**

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 Berry Creek Land Investment LLC at the address stated above or by calling Ms. Janela Revilla, P.E., JA Wastewater LLC, at 737-864-3476.

Issuance Date: October 21, 2025

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ0016892001

SOLICITUD. Berry Creek Land Investment LLC, 40 East 94th Street, Apartment 26A, New York, New York 10128, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016892001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 195.000 galones por día mediante aplicación superficial en aproximadamente 55,9 acres. La planta y el área de disposición estarán ubicados aproximadamente a 1500 pies al noroeste de la intersección de County Road 140 y County Road 194, cerca de la ciudad de Georgetown, en el condado de Williamson, Texas 78626. La TCEQ recibió esta solicitud el 3 de octubre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Pública de Georgetown, 402 West 8th Street, Georgetown, Condado de Williamson, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.609032,30.682632&level=18

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

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

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

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

LISTA DE CORREO. Si somete comentarios públicos, un pedido para una audiencia administrativa de lo contencioso o una reconsideración de la decisión del Director Ejecutivo, la Oficina del Secretario Principal enviará por correo los avisos públicos en relación con la solicitud. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante

indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Berry Creek Land Investment LLC a la dirección indicada arriba o llamando a Ms. Janela Revilla, P.E., JA Wastewater LLC, al 737-864-3476.

Fecha de emisión: 21 de octubre de 2025

Brooke T. Paup, *Chairwoman*
Bobby Janecka, *Commissioner*
Catarina R. Gonzales, *Commissioner*
Kelly Keel, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

October 3, 2025

Re: Confirmation of Submission of the New Private Domestic Wastewater Individual Permit Application

Dear Applicant:

This is an acknowledgement that you have successfully completed Private Domestic Wastewater Individual Permit Application.

ER Account Number: ER114629
Application Reference Number: 822387
Authorization Number: WQ0016892001
Site Name: Wenzel Water Resource Recovery Facility Wrrf
Regulated Entity: RN112296173 - WENZEL WATER RESOURCE RECOVERY FACILITY WRRF
Customer(s): CN606436004 - Berry Creek Land Investment LLC

Please be aware that TCEQ staff may contact your designated contact for any additional information.

If you have any questions, you may contact the Applications Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by telephone at (512) 239-4671.

Sincerely,
Applications Review and Processing Team
Water Quality Division

Texas Commission on Environmental Quality

New Domestic or Industrial Individual Permit

Site Information (Regulated Entity)

What is the name of the site to be authorized?	WENZEL WATER RESOURCE RECOVERY FACILITY (WRRF)
Does the site have a physical address?	No
Because there is no physical address, describe how to locate this site:	APPROXIMATELY 1,500 FEET NORTHWEST OF THE INTERSECTION OF COUNTY RD 194 AND COUNTY RD 140
City	GEORGETOWN
State	TX
ZIP	78626
County	WILLIAMSON
Latitude (N) (##.######)	30.682632
Longitude (W) (-###.######)	-97.609032
Primary SIC Code	4952
Secondary SIC Code	
Primary NAICS Code	
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	WENZEL WATER RESOURCE RECOVERY FACILITY (WRRF)
Does the RE site have a physical address?	No
Because there is no physical address, describe how to locate this site:	APPROXIMATELY 1,500 FEET NORTHWEST OF THE INTERSECTION OF COUNTY RD 194 AND COUNTY RD 140
City	GEORGETOWN
State	TX
ZIP	78626
County	WILLIAMSON
Latitude (N) (##.######)	30.682632
Longitude (W) (-###.######)	-97.609032
Facility NAICS Code	
What is the primary business of this entity?	WASTEWATER TREATMENT

BERRY C-Customer (Applicant) Information (Owner)

How is this applicant associated with this site?	Owner
What is the applicant's Customer Number (CN)?	
Type of Customer	Corporation
Full legal name of the applicant:	
Legal Name	BERRY CREEK LAND INVESTMENT LLC
Texas SOS Filing Number	805582687
Federal Tax ID	
State Franchise Tax ID	32095447416
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	0-20
Independently Owned and Operated?	Yes
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	BERRY CREEK LAND INVESTMENT LLC
Prefix	MR
First	JINSONG
Middle	
Last	LIU
Suffix	
Credentials	
Title	CEO
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	40 E 94TH ST
Routing (such as Mail Code, Dept., or Attn:)	APT 26A
City	NEW YORK
State	NY
ZIP	10128
Phone (###-###-####)	9173024532
Extension	

Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JL@BLOSSOMSDEVELOPMENT.COM

Billing Contact

Responsible contact for receiving billing statements:	
Select the permittee that is responsible for payment of the annual fee.	BERRY CREEK LAND INVESTMENT LLC
Organization Name	BERRY CREEK LAND INVESTMENT LLC
Prefix	MR
First	JINSONG
Middle	
Last	LIU
Suffix	
Credentials	
Title	CEO
Enter new address or copy one from list:	BERRY CREEK LAND INVESTMENT LLC
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	40 E 94TH ST
Routing (such as Mail Code, Dept., or Attn:)	APT 26A
City	NEW YORK
State	NY
ZIP	10128
Phone (###-###-####)	9173024532
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JL@BLOSSOMSDEVELOPMENT.COM

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	
Organization Name	JA WASTEWATER LLC
Prefix	MS
First	JANELA

Middle	
Last	REVILLA
Suffix	
Credentials	PE
Title	PROJECT ENGINEER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
Routing (such as Mail Code, Dept., or Attn:)	STE 170
City	AUSTIN
State	TX
ZIP	78731
Phone (###-###-####)	7378643476
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JREVILLA@JAWASTEWATER.COM

Technical Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	Application Contact
Organization Name	JA WASTEWATER LLC
Prefix	MS
First	JANELA
Middle	
Last	REVILLA
Suffix	
Credentials	PE
Title	PROJECT ENGINEER
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
Routing (such as Mail Code, Dept., or Attn:)	STE 170
City	AUSTIN

State	TX
ZIP	78731
Phone (###-###-####)	7378643476
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JREVILLA@JAWASTEWATER.COM

DMR Contact

Person responsible for submitting Discharge Monitoring Report Forms:	
Same as another contact?	BERRY CREEK LAND INVESTMENT LLC
Organization Name	BERRY CREEK LAND INVESTMENT LLC
Prefix	MR
First	JINSONG
Middle	
Last	LIU
Suffix	
Credentials	
Title	CEO
Enter new address or copy one from list:	
Mailing Address:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	40 E 94TH ST
Routing (such as Mail Code, Dept., or Attn:)	APT 26A
City	NEW YORK
State	NY
ZIP	10128
Phone (###-###-####)	9173024532
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	JL@BLOSSOMSDEVELOPMENT.COM

Section 1# Permit Contact

Permit Contact#: 1

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	Application Contact
2) Organization Name	JA WASTEWATER LLC
3) Prefix	MS
4) First	JANELA
5) Middle	
6) Last	REVILLA
7) Suffix	
8) Credentials	PE
9) Title	PROJECT ENGINEER

Mailing Address

10) Enter new address or copy one from list	
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
11.2) Routing (such as Mail Code, Dept., or Attn:)	STE 170
11.3) City	AUSTIN
11.4) State	TX
11.5) ZIP	78731
12) Phone (###-###-####)	7378643476
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	JREVILLA@JAWASTEWATER.COM

Section 2# Permit Contact

Permit Contact#: 2

Person TCEQ should contact throughout the permit term.

1) Same as another contact?	
2) Organization Name	JA WASTEWATER LLC
3) Prefix	MS
4) First	JAMIE
5) Middle	
6) Last	MILLER
7) Suffix	
8) Credentials	PE
9) Title	PRESIDENT

Mailing Address

10) Enter new address or copy one from list	Application Contact
11) Address Type	Domestic
11.1) Mailing Address (include Suite or Bldg. here, if applicable)	3410 FAR WEST BLVD
11.2) Routing (such as Mail Code, Dept., or Attn:)	STE 170
11.3) City	AUSTIN
11.4) State	TX
11.5) ZIP	78731
12) Phone (###-###-####)	9704439096
13) Extension	
14) Alternate Phone (###-###-####)	
15) Fax (###-###-####)	
16) E-mail	JMILLER@JAWASTEWATER.COM

Public Notice Information

Individual Publishing the Notices

1) Prefix	MS
2) First and Last Name	JANELA REVILLA
3) Credential	PE
4) Title	PROJECT ENGINEER
5) Organization Name	JA WASTEWATER LLC
6) Mailing Address	3410 FAR WEST BLVD
7) Address Line 2	STE 170
8) City	AUSTIN
9) State	TX
10) Zip Code	78731
11) Phone (###-###-####)	7378643476
12) Extension	
13) Fax (###-###-####)	
14) Email	JREVILLA@JAWASTEWATER.COM

Contact person to be listed in the Notices

15) Prefix	MS
16) First and Last Name	JANELA REVILLA
17) Credential	PE
18) Title	PROJECT ENGINEER
19) Organization Name	JA WASTEWATER LLC

20) Phone (###-###-####)	7378643476
21) Fax (###-###-####)	
22) Email	JREVILLA@JAWASTEWATER.COM

Bilingual Notice Requirements

23) 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
23.1) Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?	Yes
23.2) Do the students at these schools attend a bilingual education program at another location?	No
23.3) 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)?	No
23.4) Which language is required by the bilingual program?	SPANISH

Section 1# Public Viewing Information

County#: 1

1) County	WILLIAMSON
2) Public building name	GEORGETOWN PUBLIC LIBRARY
3) Location within the building	CIRCULATION DESK
4) Physical Address of Building	402 W 8TH ST
5) City	GEORGETOWN
6) Contact Name	
7) Phone (###-###-####)	5129303551
8) Extension	
9) Is the location open to the public?	Yes

Owner Information

Owner of Treatment Facility

1) Prefix	
2) First and Last Name	
3) Organization Name	BERRY CREEK LAND INVESTMENT LLC
4) Mailing Address	40 EAST 94 ST, APT 26A
5) City	NEW YORK
6) State	TX
7) Zip Code	10128
8) Phone (###-###-####)	9173024532

9) Extension	
10) Email	JL@BLOSSOMSDEVELOPMENT.COM
11) What is ownership of the treatment facility?	Private
Owner of Land (where treatment facility is or will be)	
12) Prefix	
13) First and Last Name	
14) Organization Name	BERRY CREEK LAND INVESTMENT LLC
15) Mailing Address	40 EAST 94 ST, APT 26A
16) City	NEW YORK
17) State	TX
18) Zip Code	10128
19) Phone (###-###-####)	9173024532
20) Extension	
21) Email	JL@BLOSSOMSDEVELOPMENT.COM
22) Is the landowner the same person as the facility owner or co-applicant?	Yes

Admin General Information

1) Is the facility located on or does the treated effluent cross American Indian Land?	No
2) What is the authorization type that you are seeking?	Private Domestic Wastewater
2.1) Is the facility previously authorized under a Water Quality individual permit?	No
2.2) What is the proposed total flow in MGD discharged at the facility?	0.195
2.3) Select the applicable fee	>=0.10 MGD but < 0.25 MGD - $850
3) What is your facility operational status?	Inactive
4) What is the classification for your authorization?	TLAP
4.1) Provide an accurate description of the effluent disposal site location:	APPROXIMATELY 0.9 WEST OF THE INTERSECTION OF COUNTY RD 194 AND COUNTY RD 140
4.2) City nearest the disposal site:	GEORGETOWN
4.3) County in which the disposal site is located:	WILLIAMSON
4.4) Describe the routing of effluent from the treatment facility to the disposal site:	THE TREATED EFFLUENT WILL BE ROUTED FROM THE FACILITY TO THE DISPOSAL AREA VIA PIPE.
4.5) Identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:	BERRY CREEK SEGMENT 1248A
4.6) Is onsite sludge disposal requested?	No
Owner of Effluent TLAP Disposal Site	
4.7) Prefix	

4.8) First and Last Name	
4.9) Organization Name	BERRY CREEK LAND INVESTMENT LLC
4.10) Mailing Address	40 EAST 94 ST, APT 26A
4.11) City	NEW YORK
4.12) State	TX
4.13) Zip Code	10128
4.14) Phone (###-###-####)	9173024532
4.15) Extension	
4.16) Email	JL@BLOSSOMSDEVELOPMENT.COM
4.17) Is the landowner the same person as the facility owner or co-applicant?	Yes
5) Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?	No

Plain Language

1) Plain Language	
[File Properties]	
File Name	LANG_4 Plain Language Summary.pdf
Hash	5395D2DD86FFD892B0209F930FF423BA43156C65B8C0FCF421956C281979066C
MIME-Type	application/pdf

Domestic Attachments

1) Have you clearly outlined and labeled the required information on the original full size USGS Topographic Map?	Yes
1.1) I certify that I have clearly outlined and labeled the required information on the Topographic map and attached here.	
[File Properties]	
File Name	MAP_9 USGS Map.pdf
Hash	A9BF1C79480D2E59A0C64F4C673E0C8699FCB603FA4B75267EEECAF24EE4C903
MIME-Type	application/pdf
[File Properties]	
File Name	MAP_10 Well Data.pdf
Hash	BD6CCC5605DFFF4C01529ADCDE73C90551C87B7593E4A9B9B1AD45659572E48A
MIME-Type	application/pdf
2) Public Involvement Plan attachment (TCEQ Form 20960)	

[File Properties]

File Name	PIP_5 PIP Form.pdf
Hash	65B5EB3293D322EEF6584F3C97D32FD516B2E76594645805D966662B91A8FDEB
MIME-Type	application/pdf

3) Administrative Report 1.1

[File Properties]

File Name	ARPT_2 Admin Report 1.1.pdf
Hash	FDB4FD75B291107618F091F5BB153E8E81F54BA39EF90D74D81F111280926154
MIME-Type	application/pdf

4) I confirm that all required sections of Technical Report 1.0 are complete and will be included in the Technical Attachment.	Yes
4.1) I confirm that Technical Report 1.1 is complete and included in the Technical Attachment.	Yes
4.2) Are you planning to include Worksheet 2.1 (Stream Physical Characteristics) in the Technical Attachment?	No
4.3) I confirm that Worksheet 3.0 (Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
4.4) I confirm that Worksheet 3.1 (Surface Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
4.5) I confirm that Worksheet 3.2 (Subsurface Land Disposal of Effluent) is complete and included in the Technical Attachment.	Yes
4.6) Are you planning to include Worksheet 4.0 (Pollutant Analyses Requirements) in the Technical Attachment?	No
4.7) Are you planning to include Worksheet 5.0 (Toxicity Testing Requirements) in the Technical Attachment?	No
4.8) Are you planning to include Worksheet 7.0 (Class V Injection Well Inventory/Authorization Form) in the Technical Attachment?	No

4.9) Technical Attachment

[File Properties]

File Name	TECH_11 Technical Report.pdf
Hash	DD22FD027C0CE087A94C82BC1F845541D0A05D84032F55C0E5F52587FDD2B420
MIME-Type	application/pdf

5) Affected Landowners Map

[File Properties]

File Name	LANDMP_6 Affected Landowner Map.pdf
Hash	0B017D9FC2184D53E688D7AA09BAF24D45FD240DE6DE4343D919CC50669B4A67
MIME-Type	application/pdf

6) Landowners Cross Reference List

[File Properties]

File Name	LANDCRL_7 Affected Landowner List.pdf
Hash	7439C4B9AD4EF0319E30E715D864DCD75C93CE3067CAA50857B2303F48243675
MIME-Type	application/pdf

7) Landowner Avery Template

[File Properties]

File Name	LANDAT_8 Mailing Labels.docx
Hash	7620A9D6ED1B8C1E89F6AE60A31AF949ED601754C08D6F5749266DE1F47F937E
MIME-Type	application/vnd.openxmlformats-officedocument.wordprocessingml.document

8) Buffer Zone Map

[File Properties]

File Name	BUFF_ZM_17 Buffer Zone Map.pdf
Hash	94E16E13C457BD303F30948DF52D117651520F451615B621BF1CF1C1433B55B4
MIME-Type	application/pdf

9) Flow Diagram

[File Properties]

File Name	FLDIA_12 Flow Diagram.pdf
Hash	0CE2A1ADFA425A13887284D033928074ADCEF4A779A72FE6EAACDBD23B6F2F3A
MIME-Type	application/pdf

10) Site Drawing

[File Properties]

File Name	SITEDR_18 Site Map.pdf
Hash	CD7A349D9D322AD54A5946EE2BCD86F381E4AEA026F433AB10C6759E4D7CE0A9
MIME-Type	application/pdf

11) Original Photographs

[File Properties]

File Name	ORIGPH_20 Original Photos Map.pdf
Hash	6B1F5AC864A79E241ADA9AC16E3B53A19161F6732790D553CEB272F59CC2C2B3
MIME-Type	application/pdf

[File Properties]

File Name	ORIGPH_20 Original Photos.pdf
Hash	4E71C9E56C60BBBAACA4480041768667667B632FC76337D9D7BE4E79AF95B158
MIME-Type	application/pdf

12) Design Calculations

[File Properties]	
File Name	DES_CAL_14 Design Calculations.pdf
Hash	7697CB5D9F21AD5709B1A9CF0BD681E391693C078F6B19C7B9DF618B2E083F6C
MIME-Type	application/pdf

[File Properties]	
File Name	DES_CAL_13 Treatment Process and Unit Sizing.pdf
Hash	DD4C5116D0512733098D75EF8D111FA06F18E7F99A84C4ECD3E070F40248AD3C
MIME-Type	application/pdf

13) Solids Management Plan

[File Properties]	
File Name	SMP_15 Solids Management Plan.pdf
Hash	6225C20C86B4C2A42B27EF6A3767EB075E51E2271AD15724EE6FAA19DDE7C86A
MIME-Type	application/pdf

14) Water Balance

[File Properties]	
File Name	WB_24 Water Balance.pdf
Hash	EB513A035F98C0806EB5036C8D824620518AF0BD53DBE2A80E8E268EC0FC3CA4
MIME-Type	application/pdf

[File Properties]	
File Name	WB_25 Engineering Report.pdf
Hash	CD1A8DF6EA58A75F623ED2926BF28DC2000AE88F03916F1F99DF96D27F45E0F0
MIME-Type	application/pdf

15) Other Attachments

[File Properties]	
File Name	OTHER_16 Wind Rose.pdf
Hash	E44730CA24038C53B5D1A3FCC7A1B6B05698C5D7CB2DF0074BD69F3746003C98
MIME-Type	application/pdf

[File Properties]
File Name OTHER_19 Disposal Area Map.pdf
Hash 32FA00A3D695FC2F084E2B7170B3176EDA9CB77FA0C281330ADB4EDAC9293CC9
MIME-Type application/pdf

[File Properties]
File Name OTHER_21 Liner Certification Letter.pdf
Hash 2A0669D0E3228F4E3C25ABA30A36AAA403F77F526E2573A49060EBEBD46EB4D4
MIME-Type application/pdf

[File Properties]
File Name OTHER_21 Storage Variance Letter.pdf
Hash 39F89BDD8D5EB4B76C921A1F46D7927B3AF0C3E2893535AB1B7F2EB05A4B5703
MIME-Type application/pdf

[File Properties]
File Name OTHER_22 Annual Cropping Plan.pdf
Hash 89C6136CAEF51CE1B5516E1EA465F00ED331C6B2557C2316E54708ED7143FBE8
MIME-Type application/pdf

[File Properties]
File Name OTHER_23 Groundwater Quality Report.pdf
Hash 830E97ED87092A4BEB62B995D2912871FBF2704695269807389D9C6194A459DD
MIME-Type application/pdf

[File Properties]
File Name OTHER_29 USDA Report.pdf
Hash 2041E37C179165FDCFD158BDA44913A5C7F3F061F980F5F16897EFEF1AAB4697
MIME-Type application/pdf

[File Properties]
File Name OTHER_TLAP Map Water Well Data Well Reports.pdf
Hash F215662DE90F775DD8144514BA14CE50272C14CFC58997893999C0F46D25CA7F
MIME-Type application/pdf

[File Properties]
File Name OTHER_30 Pinnacle Tract_Geologic Assessment_2022-06-09.pdf
Hash 4AF1947FC2BBAD446F7B227923584FD78F0403166CBE89D6193ACFE1C00CCD9E

MIME-Type	application/pdf

Certification

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

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.

1. I am Jinsong Liu, the owner of the STEERS account ER116189.
2. I have the authority to sign this data on behalf of the applicant named above.
3. I have personally examined the foregoing and am familiar with its content and the content of any attachments, and based upon my personal knowledge and/or inquiry of any individual responsible for information contained herein, that this information is true, accurate, and complete.
4. I further certify that I have not violated any term in my TCEQ STEERS participation agreement and that I have no reason to believe that the confidentiality or use of my password has been compromised at any time.
5. I understand that use of my password constitutes an electronic signature legally equivalent to my written signature.
6. I also understand that the attestations of fact contained herein pertain to the implementation, oversight and enforcement of a state and/or federal environmental program and must be true and complete to the best of my knowledge.
7. I am aware that criminal penalties may be imposed for statements or omissions that I know or have reason to believe are untrue or misleading.
8. I am knowingly and intentionally signing New Domestic or Industrial Individual Permit.
9. My signature indicates that I am in agreement with the information on this form, and authorize its submittal to the TCEQ.

OWNER Signature: Jinsong Liu OWNER	
Customer Number:	
Legal Name:	BERRY CREEK LAND INVESTMENT LLC
Account Number:	ER116189
Signature IP Address:	67.79.223.134
Signature Date:	2025-10-02
Signature Hash:	BC60273EA9E747F684D5101BA7BC9C3F706FF63240221418747EC80B11EB6357
Form Hash Code at time of Signature:	DB6DEC9526B08FCBCE7CD0FD1ACE52E5DF71EDF28A35D22C04A8F4E366618910

Fee Payment

Transaction by:	The application fee payment transaction was made by ER116189/Jinsong Liu
Paid by:	The application fee was paid by JINSONG LIU
Fee Amount:	$800.00
Paid Date:	The application fee was paid on 2025-10-02
Transaction/Voucher number:	The transaction number is 582EA000687439 and the voucher number is 785992

Submission

Reference Number:	The application reference number is 822387
Submitted by:	The application was submitted by ER114629/Janela Revilla
Submitted Timestamp:	The application was submitted on 2025-10-03 at 10:19:34 CDT
Submitted From:	The application was submitted from IP address 68.203.214.22
Confirmation Number:	The confirmation number is 682678
Steers Version:	The STEERS version is 6.93

Additional Information

Application Creator: This account was created by Janela Revilla

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

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

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

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

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

D. Provide the source of the landowners' names and mailing addresses: Williamson County Appraisal District

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):

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

Plain Language Summary

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

Berry Creek Land Investment, LLC, 40 East 94 St, Apt 26A. New York, NY 10128, has applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Land Application Permit (TLAP) to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 195,000 gallons per day via public access surface spray irrigation system with a minimum of 55.9 acres. This permit will not authorize a discharge of pollutants into water in the state.

The domestic wastewater treatment facility will be located approximately 1,500 feet northwest of the intersection of County Rd 194 and County Rd 140, near the city of Georgetown, in Williamson County, TX 78626. The permit application will be available for viewing and copying at Georgetown Public Library, 402 W 8th St, Georgetown in Williamson County, Texas.

Land application of domestic wastewater from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), and Escherichia coli. The domestic wastewater will be treated by a conventional activated sludge process, and the system will have a primary screen, aeration basins, clarification zones, and sludge holding tanks. The facility will utilize chlorine disinfection.

Plain Language Summary

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

Berry Creek Land Investment, LLC, 40 East 94 St, Apt 26A, Nueva York, NY 10128, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) un Nuevo Permiso de Solicitud de Tierras de Texas (TLAP) para autorizar la eliminación de aguas residuales tratadas en un volumen que no exceda un caudal promedio diario de 195,000 galones por día mediante un sistema de riego por aspersión superficial de acceso público con un mínimo de 55.9 acres. Este permiso no autoriza la descarga de contaminantes al agua del estado.

La planta de tratamiento de aguas residuales domésticas se ubicará aproximadamente a 1,500 pies al noroeste de la intersección de County Rd 194 y County Rd 140, cerca de la ciudad de Georgetown, en el Condado de Williamson, TX 78626. La solicitud de permiso estará disponible para consulta y copia en la Biblioteca Pública de Georgetown, 402 W 8th St, Georgetown, Condado de Williamson, Texas.

Se espera que la aplicación al suelo de las aguas residuales domésticas de la planta contenga la demanda bioquímica de oxígeno carbonoso de cinco días (DOCB5), sólidos suspendidos totales (SST), nitrógeno amoniacal (NH_3-N) y Escherichia coli. Las aguas residuales domésticas se tratarán mediante un proceso convencional de lodos activados, y el sistema contará con un tamiz primario, tanques de aireación, zonas de clarificación y tanques de retención de lodos. La planta utilizará desinfección con cloro.

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☒ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☒ Requires public notice,

☐ Considered to have significant public interest, **and**

☒ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

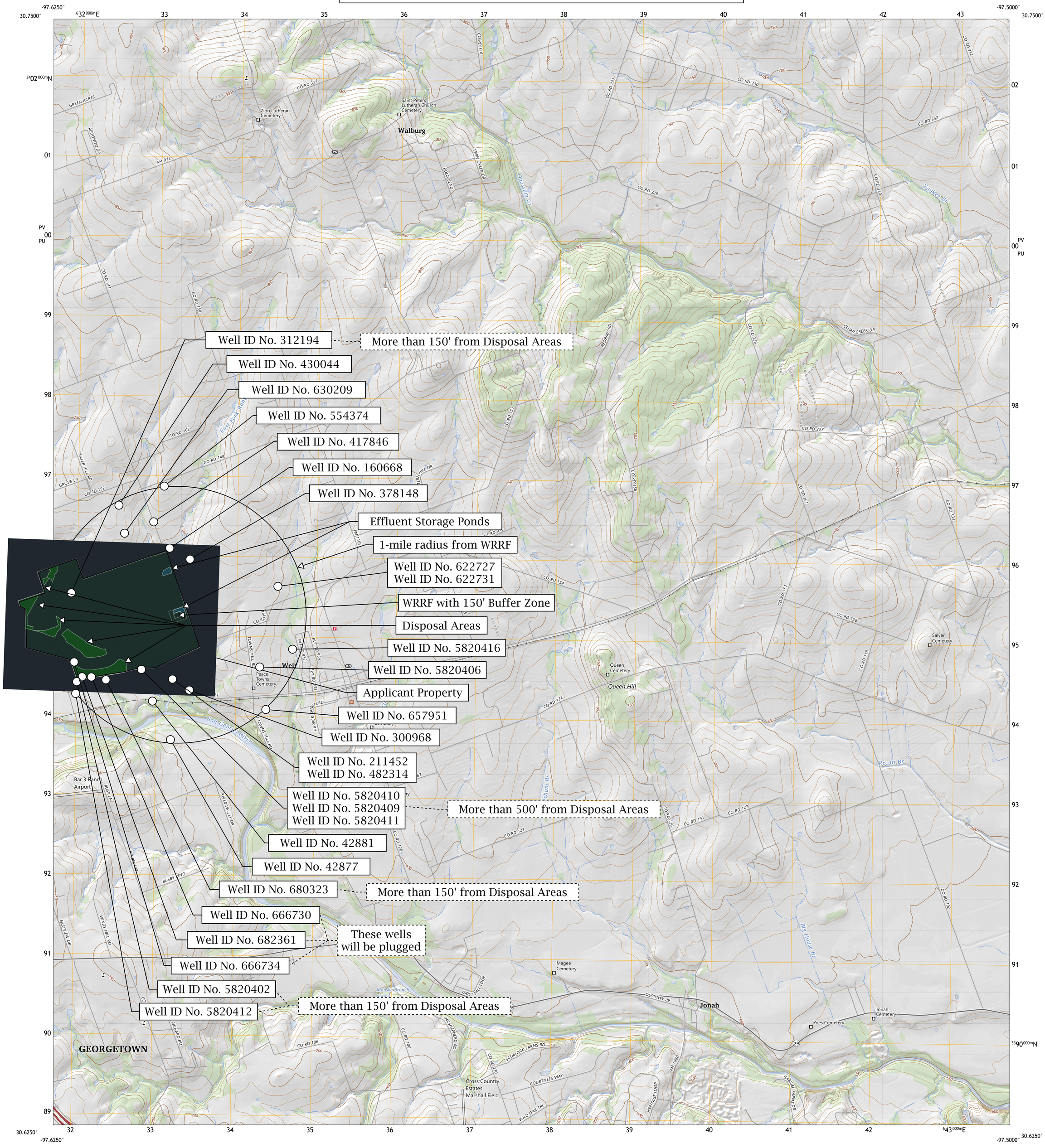
☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

The project is not considered to have significant public interest.

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

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
USGS Map

WEIR QUADRANGLE
TEXAS - WILLIAMSON
7.5-MINUTE TOPO



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R

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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

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

MN
GN
3°5′ 55 MILS
0°44′ 13 MILS
UTM GRID AND 2025 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PV
34 00
PU
Grid Zone Designation
14R

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

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

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

Cobbs Cavern	Jarrell	Bartlett
Georgetown	Weir	Granger
Round Rock	Hutto	Taylor

ADJOINING QUADRANGLES

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

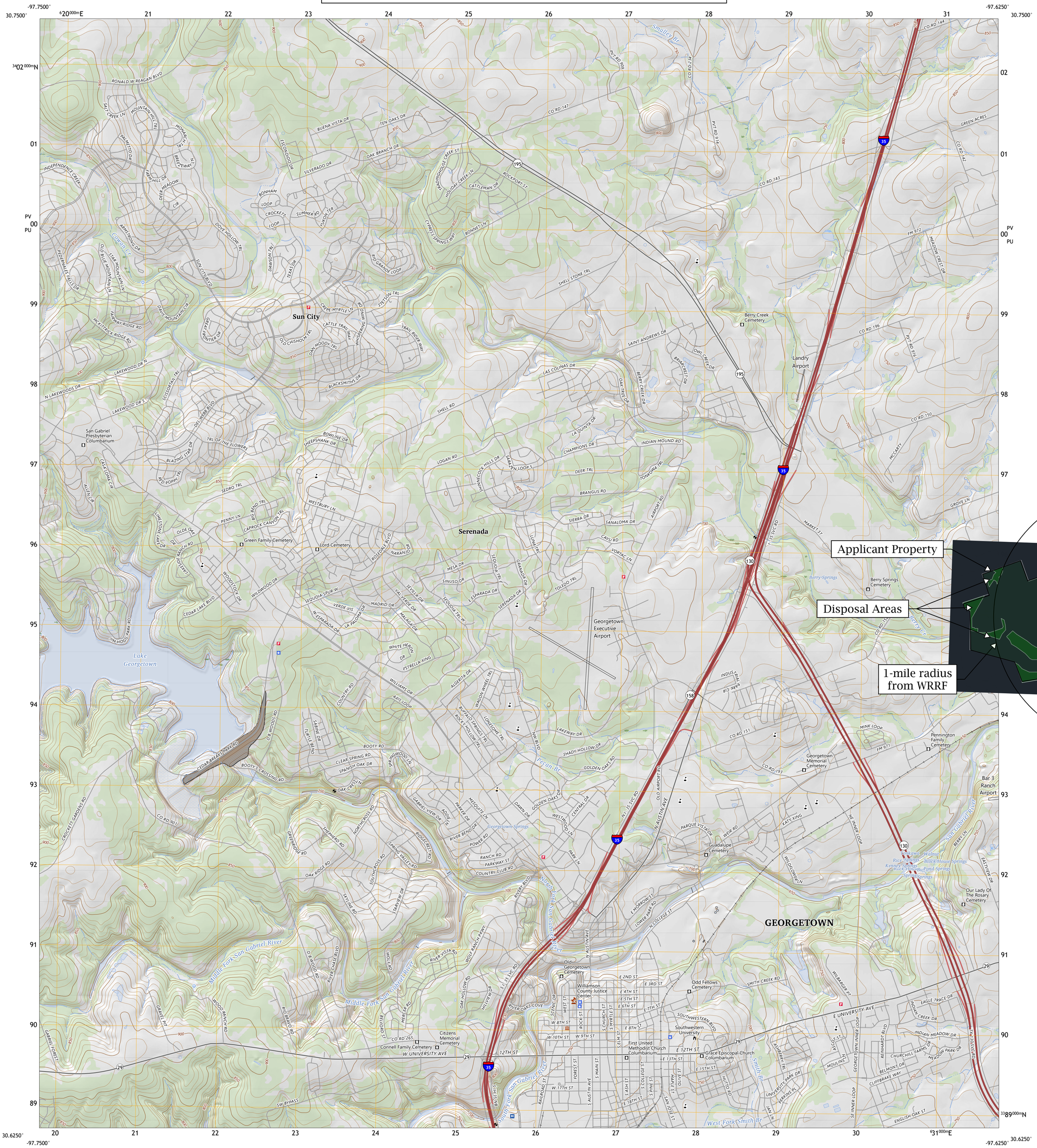
WEIR, TX
2025

j&a WASTEWATER

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

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
USGS Map

GEORGETOWN QUADRANGLE
TEXAS - WILLIAMSON
7.5-MINUTE TOPO



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R

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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

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

MN
GN
3°9′ 56 MILS
0°40′ 12 MILS
UTM GRID AND 2025 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PV
34 00
PU
Grid Zone Designation
14R

SCALE 1:24 000

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

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

USER DEFINED CONTENT

TEXAS
QUADRANGLE LOCATION

Florence	Cobbs Cavern	Jarrell
Leander NE	Georgetown	Weir
Leander	Round Rock	Hutto

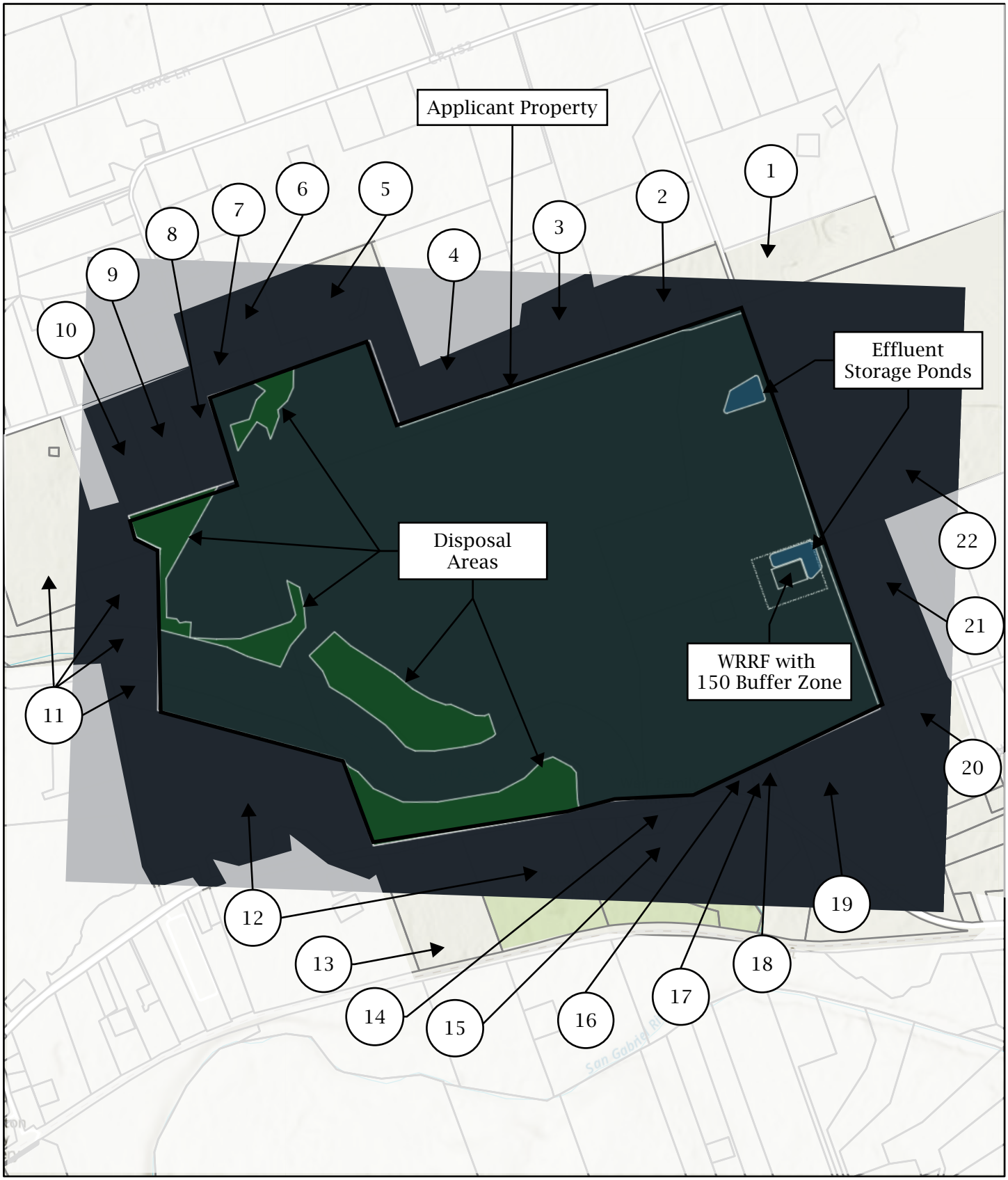
ADJOINING QUADRANGLES

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

GEORGETOWN, TX
2025

J&A WASTEWATER

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
Affected Landowner Map



5/27/2025, 1:51:20 PM

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

Parcels

J&A WASTEWATER

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Williamson Central Appraisal District

Esri, NASA, NGA, USGS, FEMA | City of Round Rock GIS/IT Department | Esri Community Maps Contributors, Baylor University, County of Williamson, Texas Parks & Wildlife, © OpenStreetMap,

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Affected Landowners

The following information is from https://publicdata.wcad.org/parcelmap/ (May 2025)

Map Label	Property ID	Owner Name	Mailing Address
1	R337402	CONRAD, SHALENE MUELLER	900 COUNTY ROAD 140 GEORGETOWN, TX 78626-2073
2	R039692	HANUSCH DAVID W & BARBARA LOUISE TRUSTEES HANUSCH FAMILY TRUST	785 CR 140 GEORGETOWN, TX 78626
3	R462657	MICHALK, BETTY A & WILBERN	775 CR 140 GEORGETOWN, TX 78626
4	R619623	DUBE, DENISE S	1209 QUAIL AVE MCALLEN, TX 78504
5	R321687	TULK, JAMES B & JENNIFER E H	2580 COUNTY ROAD 152 GEORGETOWN, TX 78626-1980
6	R039740	JANKE, WILLIAM JOSEPH & MAURINE ANN	2520 COUNTY ROAD 152 GEORGETOWN, TX 78626-1980
7	R376509	ARNOLD, CHESTER & KAREN E	19606 ALINAWOOD DR HUMBLE, TX 77346-1955
8	R039067	BURKETT JERRY M & LISA	2450 COUNTY ROAD 152 GEORGETOWN, TX 78626-1980
9	R431097	PIERCE, JASON LINLEY	2446 COUNTY ROAD 152 GEORGETOWN, TX 78626-1980
10	R431096	PARKER, CHRISTOPHER C & AMY N	2272 COUNTY ROAD 152 GEORGETOWN, TX 78626-1979
11	R039054	GT BERRY SPRINGS LLC	26603 CLEAR MILL LN KATY, TX 77494
12	R038968	CITY OF GEORGETOWN	C/O CITY MANAGER PO BOX 409 GEORGETOWN, TX 78627
13	R332247	KALLUS THEODORE J & MARY E TRS OF REVOCABLE LIVING TRUST	PO BOX 115 GRANGER, TX 76530-0115
14	R396095	WHISNANT, JOCELYN & BYRON	4010 FM 971 GEORGETOWN, TX 78626
15	R306664	EPPINGER, JOCELYN	4010 FM 971 GEORGETOWN, TX 78626
16	R324687	IVESIA LLC	4000 FM 971 GEORGETOWN, TX 78626
17	R310926	YEARY, KAREN D	4001 FM 971 GEORGETOWN, TX 78626
18	R039096	FEUERBACHER WAYNE & DOROTHY	150 COUNTY ROAD 194 GEORGETOWN, TX 78626-1985
19	R357757	ANUPINDI, RAMESH M & RENU ANUPINDI, KRISHNA R & RAJI L AKELLA	10200 PICKFAIR DR AUSTIN, TX 78750
20	R040149	HART, GIFFORD & EMMA L	400 COUNTY ROAD 194 GEORGETOWN, TX 78626-1986
21	R327066	SAI PEARL INVESTMENTS LLC	2400 LOUIS HENNA BLVD 301 ROUND ROCK, TX 78664
22	R040224	THE VANTAGE AUSTIN LLC	1413 MILAGRO DR AUSTIN, TX 78733

CONRAD, SHALENE MUELLER
900 COUNTY ROAD 140
GEORGETOWN, TX 78626

DUBE, DENISE S
1209 QUAIL AVE
MCALLEN, TX 78504

ARNOLD, CHESTER & KAREN E
19606 ALINAWOOD DR
HUMBLE, TX 77346

PARKER, CHRISTOPHER C & AMY N
2272 COUNTY ROAD 152
GEORGETOWN, TX 78626

KALLUS THEODORE J & MARY E TRS OF REVOCABLE LIVING TRUST
PO BOX 115
GRANGER, TX 76530

IVESIA LLC
4000 FM 971
GEORGETOWN, TX 78626

ANUPINDI, RAMESH M & RENU ANUPINDI, KRISHNA R & RAJI L AKELLA
10200 PICKFAIR DR
AUSTIN, TX 78750

THE VANTAGE AUSTIN LLC
1413 MILAGRO DR
AUSTIN, TX 78733

HANUSCH DAVID W & BARBARA LOUISE TRUSTEES HANUSCH FAMILY TRUST
785 CR 140
GEORGETOWN, TX 78626

TULK, JAMES B & JENNIFER E H
2580 COUNTY ROAD 152
GEORGETOWN, TX 78626

BURKETT JERRY M & LISA
2450 COUNTY ROAD 152
GEORGETOWN, TX 78626

GT BERRY SPRINGS LLC
26603 CLEAR MILL LN
KATY, TX 77494

WHISNANT, JOCELYN & BYRON
4010 FM 971
GEORGETOWN, TX 78626

YEARY, KAREN D
4001 FM 971
GEORGETOWN, TX 78626

HART, GIFFORD & EMMA L
400 COUNTY ROAD 194
GEORGETOWN, TX 78626

MICHALK, BETTY A & WILBERN
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GEORGETOWN, TX 78626

JANKE, WILLIAM JOSEPH & MAURINE ANN
2520 COUNTY ROAD 152
GEORGETOWN, TX 78626

PIERCE, JASON LINLEY
2446 COUNTY ROAD 152
GEORGETOWN, TX 78626

CITY OF GEORGETOWN
C/O CITY MANAGER PO BOX 409
GEORGETOWN, TX 78626

EPPINGER, JOCELYN
4010 FM 971
GEORGETOWN, TX 78626

FEUERBACHER WAYNE & DOROTHY
150 COUNTY ROAD 194
GEORGETOWN, TX 78626

SAI PEARL INVESTMENTS LLC
2400 LOUIS HENNA BLVD 301
ROUND ROCK, TX 78664

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

Section 1. Permitted or Proposed Flows (Instructions Page 42)

A. Existing/Interim I Phase

Design Flow (MGD): 0.0575

2-Hr Peak Flow (MGD): 0.23

Estimated construction start date: September 2026

Estimated waste disposal start date: April 2027

B. Interim II Phase

Design Flow (MGD): 0.115

2-Hr Peak Flow (MGD): 0.46

Estimated construction start date: September 2027

Estimated waste disposal start date: April 2028

C. Final Phase

Design Flow (MGD): 0.195

2-Hr Peak Flow (MGD): 0.78

Estimated construction start date: September 2028

Estimated waste disposal start date: April 2029

D. Current Operating Phase

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

Please see Attachment – Treatment Process and Unit Sizing

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)
Please see Attachment – Treatment Process and Unit Sizing		

C. Process Flow Diagram

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

Attachment: Process Flow Diagram

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

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

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

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

- Latitude: 30.679321
- Longitude: -97.620879

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

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

disposal site.

Attachment: Site Map

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

The treatment facility will serve a new residential subdivision in Williamson County.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Wenzel Collection System	Berry Creek Land Investments, LLC	Privately-Owned	Estimated 2,900+

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☐ Yes ☒ No

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

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**.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

The buffer zone will be met by ownership.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

4. Grease and decanted liquid disposal

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

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

E. Stormwater management

1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☐ Yes ☐ No

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

TXR05 _ or TXRNE

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

☐ Yes ☐ No

3. ***Conditional exclusion***

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

☐ Yes ☐ No

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

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

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

☐ Yes ☐ No

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

5. ***Zero stormwater discharge***

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

☐ Yes ☐ No

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

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

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

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

☐ Yes ☐ No

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

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

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

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

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

☐ Yes ☒ No

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

Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 49)

Is the facility in operation?

☐ Yes ☒ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). **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					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: To be determined

Facility Operator's License Classification and Level: To be determined

Facility Operator's License Number: To be determined

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

☐ Other Treatment Process:

C. Sewage Sludge or Biosolids Management

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

Biosolids Management

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

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

D. Disposal site

Disposal site name: To be determined

TCEQ permit or registration number: To be determined

County where disposal site is located: To be determined

E. Transportation method

Method of transportation (truck, train, pipe, other): To be determined

Name of the hauler: To be determined

Hauler registration number: To be determined

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

  Attachment:
- USDA Natural Resources Conservation Service Soil Map:

  Attachment:
- Federal Emergency Management Map:

  Attachment:
- Site map:

  Attachment:

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment:

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

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

D. Site development plan

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

Attach the following documents to the application.

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

  Attachment:
- Copy of the closure plan

  Attachment:
- Copy of deed recordation for the site

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

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

  Attachment:
- Procedures to prevent the occurrence of nuisance conditions

  Attachment:

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment:

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

A. Additional authorizations

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

☐ Yes ☒ No

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

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

CERTIFICATION:

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

Printed Name: Jinsong Liu

Title: CEO (Authorized Signatory)

Signature: _____

Date: _____

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

The development will generate an estimated 57,500 gallons per day at Interim Phase I, 115,000 gallons per day at Interim Phase II, and 195,000 gallons per day of domestic-strength wastewater at full build-out. The usage rate of 175 gpd/LUE is derived from the average number of persons per household in Williamson County which is 2.65 according to census.gov, and the Daily Wastewater Flow for a residential subdivision, which is between 75 to 100 gallons/person according to Table B.1 of 30 TAC 217.32(a)(3).

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:

If yes, attach correspondence from the city.

Attachment:

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:

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:

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:

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:

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:

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☒ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application):

Average Influent Organic Strength or BOD_5 Concentration in mg/l:

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

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

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	0.195	350
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	0.195	
AVERAGE BOD_5 from all sources		350

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

A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: >2

Other:

B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: >2

Other:

C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: 20

Total Suspended Solids, mg/l: 20

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: >2

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: _ mg/l after 20 minutes detention time at peak flow

Dechlorination process:

☐ Ultraviolet Light: _ seconds contact time at peak flow

☐ Other:

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Design Calculations

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☒ Yes ☐ No

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

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

FEMA NFHL Viewer: 48491C0315F

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:

If no, provide the approximate date you anticipate submitting your application to the Corps:

B. Wind rose

Attach a wind rose: Wind Rose

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

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)**:

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

Attach a solids management plan to the application.

Attachment:

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 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

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

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

For existing authorizations, provide Registration Number:

Section 2. Land Application Site(s) (Instructions Page 67)

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

Table 3.0(1) – Land Application Site Crops

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Phase I Bermuda Grass and Winter Rye Community Green Space	16.5	57,500	Y
Phase II Bermuda Grass and Winter Rye Community Green Space	33.0	115,000	Y
Final Phase Bermuda Grass and Winter Rye Community Green Space	55.9	195,000	Y

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

Table 3.0(2) – Storage and Evaporation Ponds

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	2.0	42.0	See Site Map	Synthetic Membrane or Clay Liner
2	1.8	23.4	See Site Map	Synthetic Membrane or Clay Liner

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

Attachment: Liner Certification Letter

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

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

☒ Yes ☐ No

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

To protect against inundation, the land application site will be elevated with engineered berms and drainage controls designed to divert floodwaters. Additionally, effluent will not be applied during storm events, and storage ponds are available to hold effluent during such times.

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

FEMA NFHL Viewer: 48491C0315F

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

Tailwater is controlled using perimeter berms and grading to retain effluent within the land application site and prevent runoff. Rainfall run-on is managed with diversion ditches and site grading to prevent stormwater from adjacent areas from entering the land application site.

Section 5. Annual Cropping Plan (Instructions Page 67)

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

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

Section 6. Well and Map Information (Instructions Page 68)

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

- 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
Please see Attachment – Water Well Data				

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

Attachment: Water Well Data

Section 7. Groundwater Quality (Instructions Page 68)

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

Attachment: Groundwater Quality Report

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:

Section 8. Soil Map and Soil Analyses (Instructions Page 69)

A. Soil map

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

Attachment: USDA Soils Map

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: Soil Report

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

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
Please see Attachment – Soil Report				

Section 9. Effluent Monitoring Data (Instructions Page 70)

Is the facility in operation?

☐ Yes ☒ No

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

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

Table 3.0(5) – Effluent Monitoring Data

Date	30 Day Avg Flow MGD	BOD5 mg/l	TSS mg/l	pH	Chlorine Residual mg/l	Acres irrigated

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

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

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

Section 1. Surface Disposal (Instructions Page 71)

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

A. Irrigation

Area under irrigation, in acres: 55.9

Design application frequency:

hours/day 0.33 (20min/d) **And** days/week 7

Land grade (slope):

average percent (%): 3-5

maximum percent (%): 8-10

Design application rate in acre-feet/acre/year: 3.9

Design total nitrogen loading rate, in lbs N/acre/year: 318

Soil conductivity (mmhos/cm): See Soil Report

Method of application: Spray Irrigation

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

Attachment: Water Balance and 3.1 Surface Land Disposal Engineering Report

B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day:

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

Attachment:

C. Evapotranspiration beds

Number of beds:

Area of bed(s), in acres:

Depth of bed(s), in feet:

Void ratio of soil in the beds:

Storage volume within the beds, in acre-feet:

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

Attachment:

D. Overland flow

Area used for application, in acres:

Slopes for application area, percent (%):

Design application rate, in gpm/foot of slope width:

Slope length, in feet:

Design BOD_5 loading rate, in lbs BOD_5/acre/day:

Design application frequency:

hours/day: _ **And** days/week:

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

Attachment:

Section 2. Edwards Aquifer (Instructions Page 72)

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

Attachment: Geologic Assessment

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
Site Map

APPLICANT PROPERTY

150' SETBACK
FROM PRIVATE WELL

DISPOSAL AREAS

EFFLUENT STORAGE PONDS

100-YR FLOODPLAIN

WELLS WILL BE PLUGGED

WATER RESOURCE
RECOVERY FACILITY

150' BUFFER ZONE

150' SETBACK
FROM PRIVATE WELL

500' SETBACK
FROM PUBLIC WELL

0 300 600 1200
SCALE: 1" = 600 FT.

N

j & a WASTEWATER

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WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
Buffer Zone Map

APPLICANT PROPERTY BOUNDARY

EFFLUENT STORAGE POND

WATER RESOURCE RECOVERY FACILITY

150' BUFFER ZONE

0 50 100 200
SCALE: 1" = 100 FT.

N

j & a WASTEWATER

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WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
Disposal Phasing Map

APPLICANT PROPERTY

150' SETBACK
FROM PRIVATE WELL

FINAL PHASE
55.9 ACRES
WILL BE USED
AS DISPOSAL AREA

EFFLUENT STORAGE PONDS

100-YR FLOODPLAIN

PHASE II
A MINIMUM OF 33 ACRES OF 38 ACRES
SHOWN WILL BE USED AS DISPOSAL AREA

PHASE I
A MINIMUM OF 16.5 ACRES OF 18.3 ACRES
SHOWN WILL BE USED AS DISPOSAL AREA

WELLS WILL BE PLUGGED

WATER RESOURCE
RECOVERY FACILITY

150' BUFFER ZONE

150' SETBACK
FROM PRIVATE WELL

500' SETBACK
FROM PUBLIC WELL

0 300 600 1200
SCALE: 1" = 600 FT.

N

j & a WASTEWATER

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STATE OF TEXAS PLUGGING REPORT for Tracking #160668

Owner:	**STEVEN D TURNER**	Owner Well #:	**No Data**
Address:	**1021 COUNTY ROAD 140 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**1021 COUNTY ROAD 140 GEORGETOWN, TX 78626**	Latitude:	**30° 41' 24" N**
		Longitude:	**097° 36' 36" W**
Well County:	**Williamson**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

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

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

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**30**	**0**	**24**

Plugging Information

Date Plugged: **7/16/2016** Plugger: **STEVEN D TURNNER-WELL OWNER**

Plug Method: **Large diameter well filled with clay material from top to bottom**

Casing Left in Well:

DIa (in.)	*Top (ft.)*	*Bottom (ft.)*
30	**3**	**18**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
3	**24**	**CLAY**

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

Company Information: **Landowner Plugged**
1021 COUNTY ROAD 140
GEORGETOWN, TX 78626

Driller Name: **STEVEN D TURNER.** License Number: **N/A**

Comments: **Well was 24' deep, 30" concrete casing went to a depth of 18'. Removed casing 3' below ground level. Filled (after disinfecting) w/clay material.**

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-402

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820402
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.675
Latitude (degrees minutes seconds)	30° 40' 30" N
Longitude (decimal degrees)	-97.622222
Longitude (degrees minutes seconds)	097° 37' 20" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	640
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	243
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	11/16/1974
Drilling Method	Cable Tool
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Jimmy Jordan
Driller	Bob J. Smith
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/23/1974
Last Update Date	3/4/2020

Remarks	Bailed 60 GPM in 1974. Flowed in 1974.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	70
6	Open Hole				70	243

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

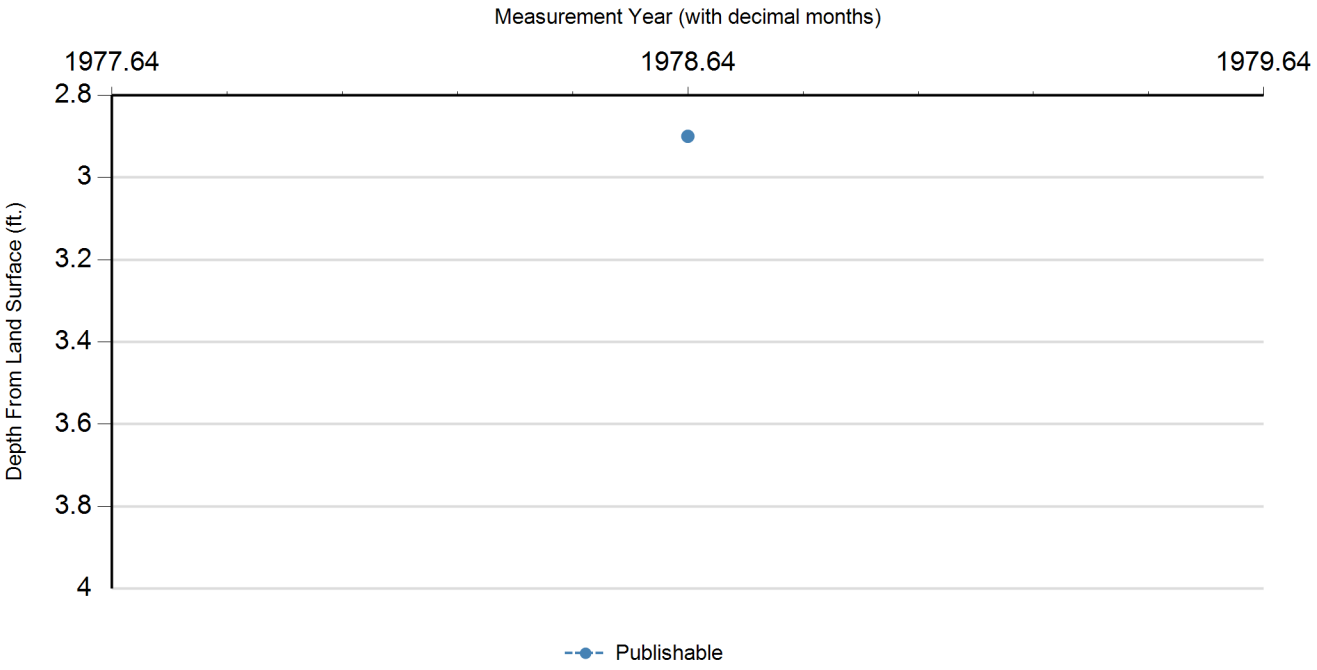
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/23/1978		2.9		637.1	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

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

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		235	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		286.78	mg/L	
00910	CALCIUM (MG/L)		52	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		48	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		261	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		32	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.9	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		11	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.51		
00932	SODIUM, CALCULATED, PERCENT		31	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		56	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		798	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		72	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		415	mg/L	

Water Quality Analysis

Sample Date: 5/22/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		251	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		306.31	mg/L	
00910	CALCIUM (MG/L)		47	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		47	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		249	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		32	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.04	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		5	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.04		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.63		
00932	SODIUM, CALCULATED, PERCENT		34	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		59	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		800	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		58	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		414	mg/L	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-406

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820406
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676667
Latitude (degrees minutes seconds)	30° 40' 36" N
Longitude (decimal degrees)	-97.598056
Longitude (degrees minutes seconds)	097° 35' 53" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	695
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	400
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	0/0/1973
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	W.O. Fletcher
Driller	Verley Hunt
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/23/1978
Last Update Date	3/4/2020

Remarks	Cemented from 90 to 102 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	102
6	Open Hole				102	400

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	0/0/1973		180		515	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 8/20/1980 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		4	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		261	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		308.75	mg/L	
00910	CALCIUM (MG/L)		49	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		4.8	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		51	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		229	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		26	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		1.8	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.5	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.64		
00955	SILICA, DISSOLVED (MG/L AS SI02)		13	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		2.73		
00932	SODIUM, CALCULATED, PERCENT		47	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		95	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		902	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		92	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		488	mg/L	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-409

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820409
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676389
Latitude (degrees minutes seconds)	30° 40' 35" N
Longitude (decimal degrees)	-97.613612
Longitude (degrees minutes seconds)	097° 36' 49" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	655
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	200
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	11/14/1986
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	USGS TH BC-1
Driller	TWDB
Other Data Available	Electric Log; Gamma Ray; Geologists or Sample
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/15/1987
Last Update Date	3/4/2020

Remarks	Measured yield .897 GPM with 107 feet drawdown after pumping 5 hours in 1987. Specific capacity 0.00838 GPM/ft. Cemented from 0 to 161 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	161
	Open Hole				161	200

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

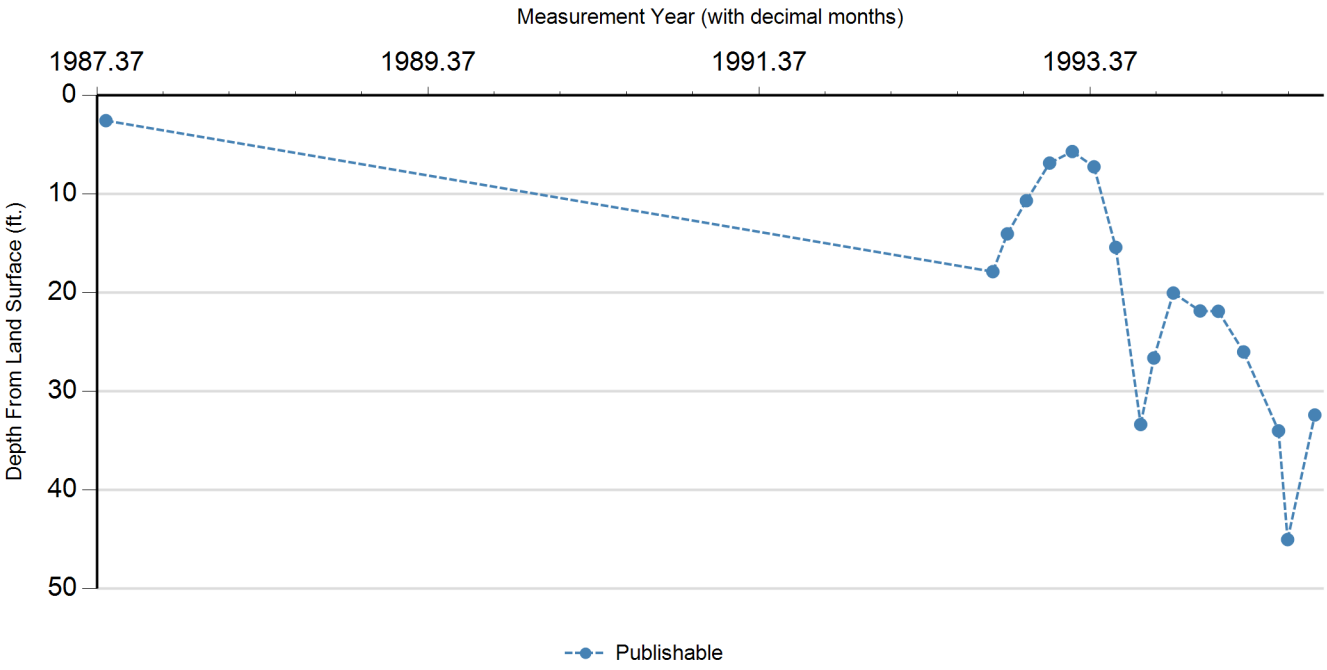
Borehole - No Data

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	6/5/1987		2.58		652.42	1	U.S. Geological Survey	Steel Tape		
P	10/16/1992		17.88	15.30	637.12	1	U.S. Geological Survey	Steel Tape		
P	11/18/1992		14.05	(3.83)	640.95	1	U.S. Geological Survey	Steel Tape		
P	12/30/1992		10.69	(3.36)	644.31	1	U.S. Geological Survey	Steel Tape		
P	2/16/1993		6.88	(3.81)	648.12	1	U.S. Geological Survey	Steel Tape		
P	4/6/1993		5.71	(1.17)	649.29	1	U.S. Geological Survey	Steel Tape		
P	5/24/1993		7.26	1.55	647.74	1	U.S. Geological Survey	Steel Tape		
P	7/12/1993		15.42	8.16	639.58	1	U.S. Geological Survey	Steel Tape		
P	9/7/1993		33.36	17.94	621.64	1	U.S. Geological Survey	Steel Tape		
P	10/6/1993		26.63	(6.73)	628.37	1	U.S. Geological Survey	Steel Tape		
P	11/19/1993		20.04	(6.59)	634.96	1	U.S. Geological Survey	Steel Tape		
P	1/13/1994		21.86	1.82	633.14	1	U.S. Geological Survey	Steel Tape		
P	2/23/1994		21.89	0.03	633.11	1	U.S. Geological Survey	Steel Tape		
P	4/19/1994		26.01	4.12	628.99	1	U.S. Geological Survey	Steel Tape		
P	7/6/1994		34	7.99	621	1	U.S. Geological Survey	Steel Tape		
P	7/26/1994		45.02	11.02	609.98	1	U.S. Geological Survey	Steel Tape		
P	9/26/1994		32.4	(12.62)	622.6	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-410

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820410
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676389
Latitude (degrees minutes seconds)	30° 40' 35" N
Longitude (decimal degrees)	-97.613612
Longitude (degrees minutes seconds)	097° 36' 49" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GRGN - Georgetown Limestone
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	655
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	128
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	11/15/1986
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	USGS TH BC-2
Driller	TWDB
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/15/1987
Last Update Date	3/4/2020

Remarks	Owner's Test Bx-2 well. Cemented from 0 to 120 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	120
6	Open Hole				120	128

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	6/5/1987		118.94		536.06	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-411

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820411
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676389
Latitude (degrees minutes seconds)	30° 40' 35" N
Longitude (decimal degrees)	-97.613612
Longitude (degrees minutes seconds)	097° 36' 49" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GRGN - Georgetown Limestone
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	655
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	72
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	11/0/1986
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	USGS TH BC-3
Driller	TWDB
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/16/1987
Last Update Date	3/4/2020

Remarks	Owner's Test BC-3 well.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	62
	Open Hole				62	72

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	6/5/1987		63.45		591.55	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-412

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820412
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.673611
Latitude (degrees minutes seconds)	30° 40' 25" N
Longitude (decimal degrees)	-97.622222
Longitude (degrees minutes seconds)	097° 37' 20" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218EDRD - Edwards Limestone
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	652
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Mrs. Gibson
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	4/25/1986
Last Update Date	3/4/2020

Remarks	

Casing

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

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

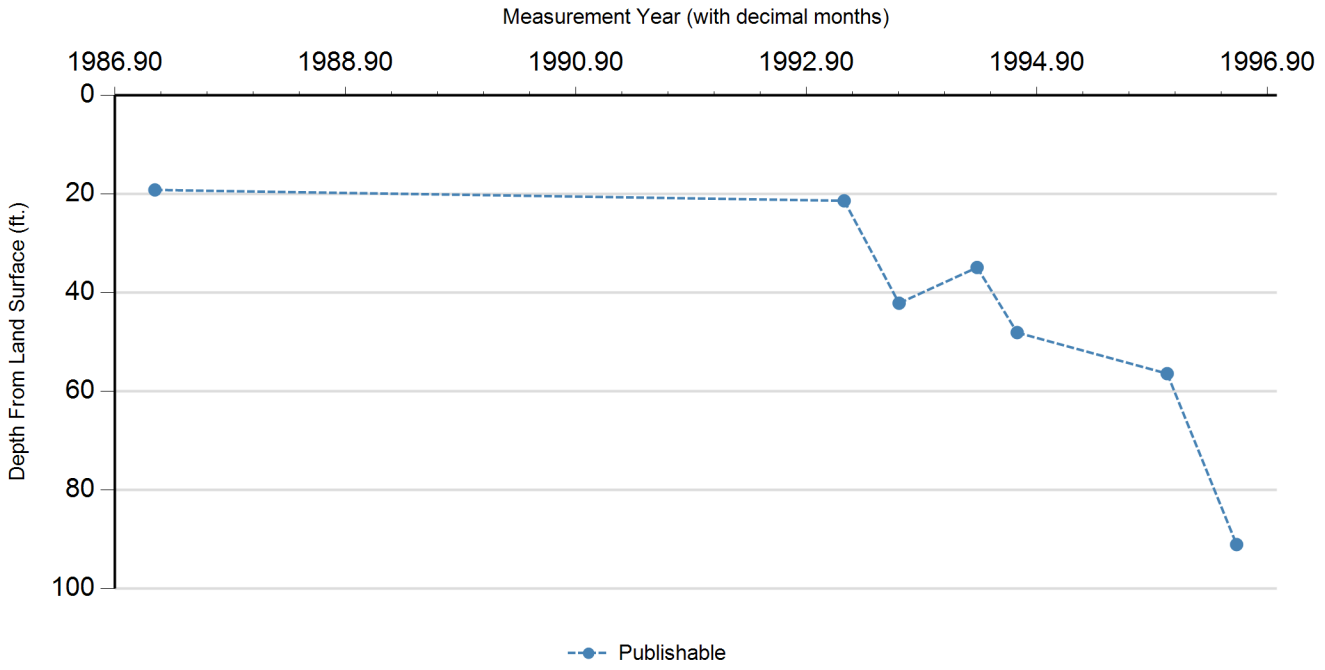
Borehole - No Data

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	3/30/1987		19.2		632.8	1	U.S. Geological Survey	Steel Tape		
P	3/23/1993		21.4	2.20	630.6	1	U.S. Geological Survey	Steel Tape		
P	9/17/1993		42.15	20.75	609.85	1	U.S. Geological Survey	Steel Tape		
P	5/19/1994		34.91	(7.24)	617.09	1	U.S. Geological Survey	Steel Tape		
P	9/26/1994		48.1	13.19	603.9	1	U.S. Geological Survey	Steel Tape		
P	1/11/1996		56.42	8.32	595.58	1	U.S. Geological Survey	Steel Tape		
P	8/21/1996		91.05	34.63	560.95	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 2/17/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards Limestone

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.4	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		828	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	

Water Quality Analysis

Sample Date: 8/12/1988 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards Limestone

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		688	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-412

Water Quality Analysis

Sample Date: 9/13/1990 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards Limestone

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		635	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-416

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820416
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.6785
Latitude (degrees minutes seconds)	30° 40' 42.6" N
Longitude (decimal degrees)	-97.5938889
Longitude (degrees minutes seconds)	097° 35' 38" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	979
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	
Well Use	
Water Level Observation	
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Jonah Water SUD
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/2/2023
Last Update Date	2/8/2024

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #42877

Owner:	**THERON VAUGHN**	Owner Well #:	**No Data**
Address:	**PO BOX 371 GEORGETOWN, TX 78627**	Grid #:	**58-20-4**
Well Location:	**1880 CR 103 GEORGETOWN, TX 78627**	Latitude:	**30° 40' 07" N**
		Longitude:	**097° 36' 35" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **3/19/2004** Drilling End Date: **4/3/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**22**
6	**22**	**175**
4.75	**175**	**331**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**22**	**9**

Seal Method: **HAND POURED**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **140**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **22 ft.** below land surface on **2004-04-03** Measurement Method: **Unknown**

Packers: **SHALE TRAP 175'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

1147 CR 170
ROUND ROCK, TX 78664

Driller Name: **TOMMY D ARNOLD** License Number: **2096**

Comments: **^DG**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**TOP SOIL**
2	**5**	**YELLOW CLAY**
5	**8**	**GRAVEL**
8	**10**	**YELLOW CLAY**
10	**13**	**GRAVEL**
13	**89**	**BLUE CLAY**
89	**260**	**GRAY LIMESTONE**
260	**330**	**BROWN LIMESTONE**
330	**331**	**GRAY LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**STEEL**	**0-22**
4	**N**	**PLASTIC**	**0-195**

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STATE OF TEXAS WELL REPORT for Tracking #42881

Owner:	**CHRISPIN TEJADA**	Owner Well #:	**No Data**
Address:	**2013 VIVIAN ROUND ROCK, TX 78681**	Grid #:	**58-20-4**
Well Location:	**1881 CR 103 GEORGETOWN, TX 78627**	Latitude:	**30° 40' 22" N**
		Longitude:	**097° 36' 44" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **3/24/2004** Drilling End Date: **4/13/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**25**
6	**25**	**195**
4.75	**195**	**335**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**25**	**10**

Seal Method: **HAND POURED**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **142**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **23 ft.** below land surface on **2004-04-13** Measurement Method: **Unknown**

Packers: **SHALE TRAP 195**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 100 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

1147 CR 170
ROUND ROCK, TX 78664

Driller Name: **TOMMY D ARNOLD** License Number: **2096**

Comments: **^DG**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**23**	**GRAVEL & LOAM**
23	**89**	**BLUE CLAY**
89	**181**	**BROWN LIMESTONE**
181	**325**	**BROWN LIMESTONE**
325	**335**	**GRAY LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**STEEL**	**0-25**
4	**N**	**PLASTIC**	**0-205**

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P.O. Box 12157
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STATE OF TEXAS WELL REPORT for Tracking #211452

Owner:	**Larry Bell**	Owner Well #:	**No Data**
Address:	**4010 FM 971 Georgetown, TX 78626**	Grid #:	**58-20-4**
		Latitude:	**30° 40' 30" N**
Well Location:	**4010 FM 971 Georgetown, TX 78626**	Longitude:	**097° 36' 34" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**Reconditioning**	Proposed Use:	**Domestic**

Drilling Start Date: **4/22/2005** Drilling End Date: **4/22/2005**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**260**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**20**	**4**

Seal Method: **Gravity Feed**

Sealed By: **Alpine**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **60 ft.** below land surface on **2005-04-22** Measurement Method: **Unknown**

Packers: **Rubber 20'**

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Estimated** **Yield: 50 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine Water Well**

10121 IH 35
Jarrell, TX 76537

Driller Name: **Bob Stork** License Number: **2912**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
Cleaned out old well		
No Returns		

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	**New**	**PVC**	**+2 200**
4 1/2	**New**	**PVC Slotted**	**200 260**

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STATE OF TEXAS WELL REPORT for Tracking #300968

Owner:	**Bobby Stork**	Owner Well #:	**1**
Address:	**4200 FM 971 Georgetown, TX 78626**	Grid #:	**58-20-4**
		Latitude:	**30° 40' 27" N**
Well Location:	**4200 FM 971 Georgetown, TX 78626**	Longitude:	**097° 36' 27" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/17/2012** Drilling End Date: **7/18/2012**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**300**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**10 Cement**

Seal Method: **Gravity**

Sealed By: **Alpine**

Distance to Property Line (ft.): **125+**

Distance to Septic Field or other concentrated contamination (ft.): **200+**

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **60 ft.** below land surface on **2012-07-18** Measurement Method: **Unknown**

Packers: **Rubber 50', 100' and 200'**

Type of Pump: **Submersible** Pump Depth (ft.): **220**

Well Tests: **Estimated** **Yield: 100+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
240-260	**Edwards**

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: **Alpine Water Well**

10121 IH-35
Jarrell, TX 76537

Driller Name: **Bobby Stork** License Number: **2912**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**brown topsoil**
2	**8**	**clay & caliche**
8	**16**	**sand & gravel**
16	**21**	**limestone**
21	**180**	**grey shale**
180	**240**	**limestone**
240	**280**	**broken lime water**
280	**300**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 5/8"	**N**	**Steel**	**+2'-20'**
4 1/2"	**N**	**PVC**	**+1'-260'**
4 1/2"	**N**	**PVC Slotted**	**260'-300'**

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STATE OF TEXAS WELL REPORT for Tracking #312194

Owner:	**Harold Darnel**	Owner Well #:	**1**
Address:	**1500 FM 1105 Georgetown, TX 78628**	Grid #:	**58-20-4**
Well Location:	**1500 FM 1105 Georgetown, TX 78628**	Latitude:	**30° 41' 06" N**
		Longitude:	**097° 37' 22" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **9/28/2006** Drilling End Date: **9/30/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**440**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**5 Cement**

Seal Method: **Gravity Feed**

Sealed By: **Alpine**

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

Distance to Septic Field or other concentrated contamination (ft.): **None**

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **200 ft.** below land surface on **2006-09-30** Measurement Method: **Unknown**

Packers: **Rubber 40'**
Rubber 100'
Rubber 300'

Type of Pump: **Submersible** Pump Depth (ft.): **400**

Well Tests: **Estimated** **Yield: 50+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
400	**Edwards**

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: **Alpine Water Well**

10121 IH-35
Jarrell, TX 76537

Driller Name: **Bobby Stork** License Number: **2912**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**brown topsoil**
2	**10**	**clay & caliche**
10	**18**	**limestone**
18	**260**	**grey shale**
260	**360**	**grey shale & limestone**
360	**400**	**white limestone**
400	**440**	**broken limestone water**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 5/8"	**N**	**Steel**	**+2'-20'**
4 1/2"	**N**	**PVC**	**+1'-400'**
4 1/2"	**N**	**PVC Slotted**	**400'-440'**

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STATE OF TEXAS WELL REPORT for Tracking #378148

Owner:	**Wilde Wood Construction, LLC**	Owner Well #:	**1**
Address:	**40105 Industrial Park Cir Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**955 CR 140 Georgetown, TX 78626**	Latitude:	**30° 41' 19" N**
		Longitude:	**097° 36' 26" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **8/20/2014** Drilling End Date: **8/21/2014**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**20**
6	**20**	**305**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**4 Benseal**

Seal Method: **Hand Poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **132 ft.** below land surface on **2014-09-23** Measurement Method: **Unknown**

Packers: **Rubber 190,230**

Type of Pump: **Submersible** Pump Depth (ft.): **240**

Well Tests: **Estimated** **Yield: 100 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **B & B Water Well Service, Inc**

PO Box 232
Bertram, TX 78605

Driller Name: **Joshua Dickinson** License Number: **54204**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Topsoil**
1	**13**	**Yellow Limestone**
13	**26**	**Blue Limestone**
26	**73**	**Grey Limestone**
73	**81**	**Black Shale**
81	**83**	**White Limestone**
83	**118**	**Black Shale**
118	**127**	**Blue Clay**
127	**141**	**White Limestone**
141	**210**	**Blue Clay**
210	**305**	**Grey Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" New PVC Casing 2-305			
4.5" Factory Slotted Screen 260,280,300			

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STATE OF TEXAS WELL REPORT for Tracking #417846

Owner:	**Steve Turner**	Owner Well #:	**1**
Address:	**1021 CR 140 Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**1021 CR 140 Georgetown, TX 78626**	Latitude:	**30° 41' 35.05" N**
		Longitude:	**097° 36' 43.77" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/25/2016** Drilling End Date: **1/25/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**21**
6.75	**21**	**320**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**6**	**Cement 4 Bags/Sacks**
6	**60**	**Bentonite 4 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **>100**

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

Method of Verification: **measured**

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

Water Level: **114 ft.** below land surface on **2016-01-25** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 60 ft.**
Rubber at 190 ft.
Rubber at 200 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 100+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
225 - 320	**Edwards**

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: **Tom Lovelace Water Well Service**

4997 Elm Grove Road
Belton, TX 76513

Driller Name: **Tommy Lovelace** License Number: **4920**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**18**	**Overburden**
18	**40**	**Eagle Ford Shale**
40	**50**	**Buda Lime**
50	**130**	**Del Rio Clay**
130	**225**	**Georgetown Lime**
225	**320**	**Edwards Lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**-2**	**260**
4.5	**Screen**	**New Plastic (PVC)**	**SDR 17 0.032**	**260**	**320**

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STATE OF TEXAS WELL REPORT for Tracking #430044

Owner:	**Logan McLeod**	Owner Well #:	**1**
Address:	**1101 CR 140 Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**1101 CR 140 Georgetown, TX 78626**	Latitude:	**30° 41' 41.33" N**
		Longitude:	**097° 36' 59.36" W**
Well County:	**Williamson**	Elevation:	**737 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/7/2016** Drilling End Date: **7/7/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**20**
6.75	**20**	**340**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**4**	**Cement 3 Bags/Sacks**
4	**50**	**Bentonite 4 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **55**

Distance to Septic Field or other concentrated contamination (ft.): **>100**

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

Method of Verification: **MEASURED**

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

Water Level: **140 ft.** below land surface on **2016-07-07**

Packers: **Rubber at 50 ft.**
Rubber at 200 ft.
Rubber at 220 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 100+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
240 - 340	**Edwards**

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: **Tom Lovelace Water Well Service**

4997 Elm Grove Road
Belton, TX 76513

Driller Name: **Tommy Lovelace** License Number: **4920**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**Overburden**
15	**50**	**Eagle Ford Shale**
50	**60**	**Buda Lime**
60	**140**	**Del Rio Clay**
140	**245**	**Georgetown Lime**
245	**340**	**Edwards Lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**-2**	**260**
4.5	**Screen**	**New Plastic (PVC)**	**SDR 17 0.032**	**260**	**340**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #482314

Owner:	**BYRON WHISNONT**	Owner Well #:	**1**
Address:	**4010 FM 971 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**4010 FM 971 GEORGETOWN, TX 78626**	Latitude:	**30° 40' 31.66" N**
		Longitude:	**097° 36' 34.71" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/10/2018** Drilling End Date: **5/10/2018**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**220**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **60 ft.** below land surface on **2018-05-11** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 80 ft.**
Rubber at 140 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **180**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**TOP SOIL**
15	**200**	**GREY SHALE**
200	**220**	**FRACTURED LIMESTONE AND WATER**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**		**-2**	**20**
4.5		**New Plastic (PVC)**		**0**	**160**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**		**160**	**220**

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STATE OF TEXAS WELL REPORT for Tracking #554374

Owner:	**JUAN GOMEZ JR**	Owner Well #:	**1**
Address:	**250 CR 149 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**250 CR 149 GEORGETOWN, TX 78626**	Latitude:	**30° 41' 49.56" N**
		Longitude:	**097° 36' 38.52" W**
Well County:	**Williamson**	Elevation:	**780 ft. above sea level**

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

Drilling Start Date: **8/24/2020** Drilling End Date: **8/24/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**340**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **100 ft.** below land surface on **2020-08-26** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 160 ft.**
Rubber at 260 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **240**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**TOP SOIL**
5	**20**	**CLAY**
20	**90**	**BLACK SHALE**
90	**260**	**GREY SHALE**
260	**300**	**LIMESTONE**
300	**340**	**LIMESTONE AND WATER**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**		**-2**	**20**
4.5		**New Plastic (PVC)**		**0**	**300**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**		**300**	**340**

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STATE OF TEXAS WELL REPORT for Tracking #622727

Owner:	**2126 CR 154 24 LLC #2**	Owner Well #:	**No Data**
Address:	**100 E. Whitestone blvd ste 148 cedar park, TX 78613**	Grid #:	**58-20-4**
Well Location:	**CR 154 Weir, TX 78626**	Latitude:	**30° 41' 09" N**
		Longitude:	**097° 35' 44" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **4/14/2022** Drilling End Date: **4/14/2022**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**19**
6.5	**19**	**550**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **hand poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **tape measure**

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

Water Level: **165 ft.** below land surface on **2022-04-15**

Packers: **shale trap at 20 ft.**
shale trap at 430 ft.
shale trap at 450 ft.

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tom Arnold** License Number: **2096**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**top soil**
1	**20**	**yellow limestone**
20	**170**	**gray limestone**
170	**222**	**black shale**
222	**237**	**blue clay**
237	**255**	**white limestone**
255	**327**	**blue clay**
327	**410**	**gray limestone**
410	**470**	**brown limestone**
470	**530**	**brown limestone and fractures**
530	**550**	**gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5		**New Plastic (PVC)**		**0**	**550**
4.5	**Screen**	**New**	**0.032**	**490**	**530**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #622731

Owner:	**2126 CR 154 24 LLC #2**	Owner Well #:	**No Data**
Address:	**100 E. Whitestone blvd ste 148 cedar park, TX 78613**	Grid #:	**58-20-4**
Well Location:	**CR 154 Weir, TX 78626**	Latitude:	**30° 41' 08" N**
		Longitude:	**097° 35' 45" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **4/13/2022** Drilling End Date: **4/13/2022**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**19**
6.5	**19**	**550**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **hand poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **tape measure**

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

Water Level: **182 ft.** below land surface on **2022-04-14**

Packers: **shale trap at 20 ft.**
shale trap at 430 ft.
shale trap at 450 ft.

Type of Pump: **Submersible**

Well Tests: **Pump** **Yield: 46 GPM with 3.3 ft. drawdown after 24 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: **TOM ARNOLD DRILLING**

2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tom Arnold** License Number: **2096**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**top soil**
1	**8**	**yellow limestone**
8	**185**	**gray limestone**
185	**237**	**black shale**
237	**251**	**blue clay**
251	**270**	**white limestone**
270	**355**	**blue clay**
355	**450**	**gray limestone**
450	**510**	**brown limestone and fractures**
510	**550**	**gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5		**New Plastic (PVC)**		**0**	**550**
4.5	**Screen**	**New**	**0.032**	**490**	**530**

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STATE OF TEXAS WELL REPORT for Tracking #630209

Owner:	**CHRIS YOUNG**	Owner Well #:	**No Data**
Address:	**3920 CR 152 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**3920 CR 152 GEORGETOWN, TX 78626**	Latitude:	**30° 41' 31" N**
		Longitude:	**097° 36' 57" W**
Well County:	**Williamson**	Elevation:	**730 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/2/2023** Drilling End Date: **1/2/2023**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**320**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 5 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **NONE**

Method of Verification: **OWNER**

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

Water Level: **80 ft.** below land surface on **2023-01-03** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 100 ft.**
Rubber at 200 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY WAYNE STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**TOPSOIL**
4	**14**	**CLAY AND CALICHE**
14	**180**	**GREY SHALE**
180	**300**	**LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**	**40**	**-2**	**20**
4.5		**New Plastic (PVC)**	**SDR17**	**-1**	**240**
4.5		**New Plastic (PVC)**	**SDR17**	**240**	**320**

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STATE OF TEXAS WELL REPORT for Tracking #657951

Owner:	**Justin Kacir**	Owner Well #:	**1**
Address:	**75 S Towns Mill Rd Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**75 S Towns Mill Rd Georgetown, TX 78626**	Latitude:	**30° 40' 19" N**
		Longitude:	**097° 35' 50" W**
Well County:	**Williamson**	Elevation:	**203 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **9/13/2023** Drilling End Date: **9/20/2023**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9**	**0**	**67**

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**67**	**Cement 21 Bags/Sacks**

Seal Method: **Tremie**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **>100**

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

Method of Verification: **GPS**

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

Water Level: **153 ft.** below land surface on **2023-09-20** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 260 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 30 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
280 - 360	**Edwards**

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: **Trinity Water Solutions**

PO BOX 328
JARRELL, TX 76537

Driller Name: **Mike Griffin** License Number: **60683**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**black soil**
10	**30**	**clay**
30	**60**	**sand and gravel**
60	**67**	**grey shale**
67	**280**	**sand and shale**
280	**360**	**multi color limestone and sandstone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
No Data			

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STATE OF TEXAS WELL REPORT for Tracking #666730

Owner:	**City of Georgetown**	Owner Well #:	**St-10+50**
Address:	**300 Industrial Ave Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 32.58" N**
		Longitude:	**097° 37' 12.46" W**
	Piezo is 1880-feet east of the FM 971 Dry Berry Creek bridge, approx 75 feet north of the roadway	Elevation:	**639 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **5/20/2024** Drilling End Date: **5/21/2024**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**3**	**30**	**Sand**	**16/30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 2 Bags/Sacks**
	2	**3**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Brown sandy clay**
20	**30**	**Firm grey dry clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #666734

Owner:	**City of Georgetown**	Owner Well #:	**St-23**
Address:	**300 Industrial Ave Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 38.47" N**
		Longitude:	**097° 37' 21.32" W**
	Piezo is 2400-feet east of the FM 971 bridge and approximately 800-feet north of FM 971	Elevation:	**628 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **5/17/2024** Drilling End Date: **5/17/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
6	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
3	**30**	**Sand**	**16/30**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**3**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**Brown clay w/ sandy gravel**
15	**28**	**Gray shale**
28	**30**	**Gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #680323

Owner:	**Ward & Burke Tunneling Inc**	Owner Well #:	**PZ-ST-3**
Address:	**21 E State St, Suite 200 Columbus, OH 43215**	Grid #:	**58-20-4**
		Latitude:	**30° 40' 31.2" N**
Well Location:	**3500 FM 971 Georgetown, TX 78626**	Longitude:	**097° 37' 05.78" W**
Well County:	**Williamson**	Elevation:	**637 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **9/24/2024** Drilling End Date: **9/24/2024**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**40**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**13**	**Bentonite 5 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No water encountered.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**Brown Clay**
15	**40**	**Sandy Gravel**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**15**
2	**Screen**	**New Plastic (PVC)**	**40**	**15**	**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 #682361

Owner:	**Ward Burke**	Owner Well #:	**No Data**
Address:	**21 E. State Street Suite 200 Columbus, OH 43215**	Grid #:	**58-20-4**
Well Location:	**3400 FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 32" N**
		Longitude:	**097° 37' 18" W**
Well County:	**Williamson**	Elevation:	**650 ft. above sea level**

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

Drilling Start Date: **9/13/2024** Drilling End Date: **9/13/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**19**
8	**19**	**35**
6.5	**35**	**272**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 8 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **120**

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

Distance to Septic Tank (ft.): **300+**

Method of Verification: **Tape**

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

Water Level: **85 ft.** below land surface on **2024-09-13** Measurement Method: **Sonic/Radar**

Packers: **No Data**

Type of Pump: **Unknown**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments: **No Septic on Property**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**Brown Clay**
3	**19**	**Yellow Clay & Gravel**
19	**144**	**Gray Limestone**
144	**165**	**Tan Limestone**
165	**204**	**Brown Limestone**
204	**248**	**Brown & White Limestone**
248	**270**	**Brown Limestone**
270	**272**	**Gray Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**Blank**	**New Plastic (PVC)**	**40**	**0**	**55**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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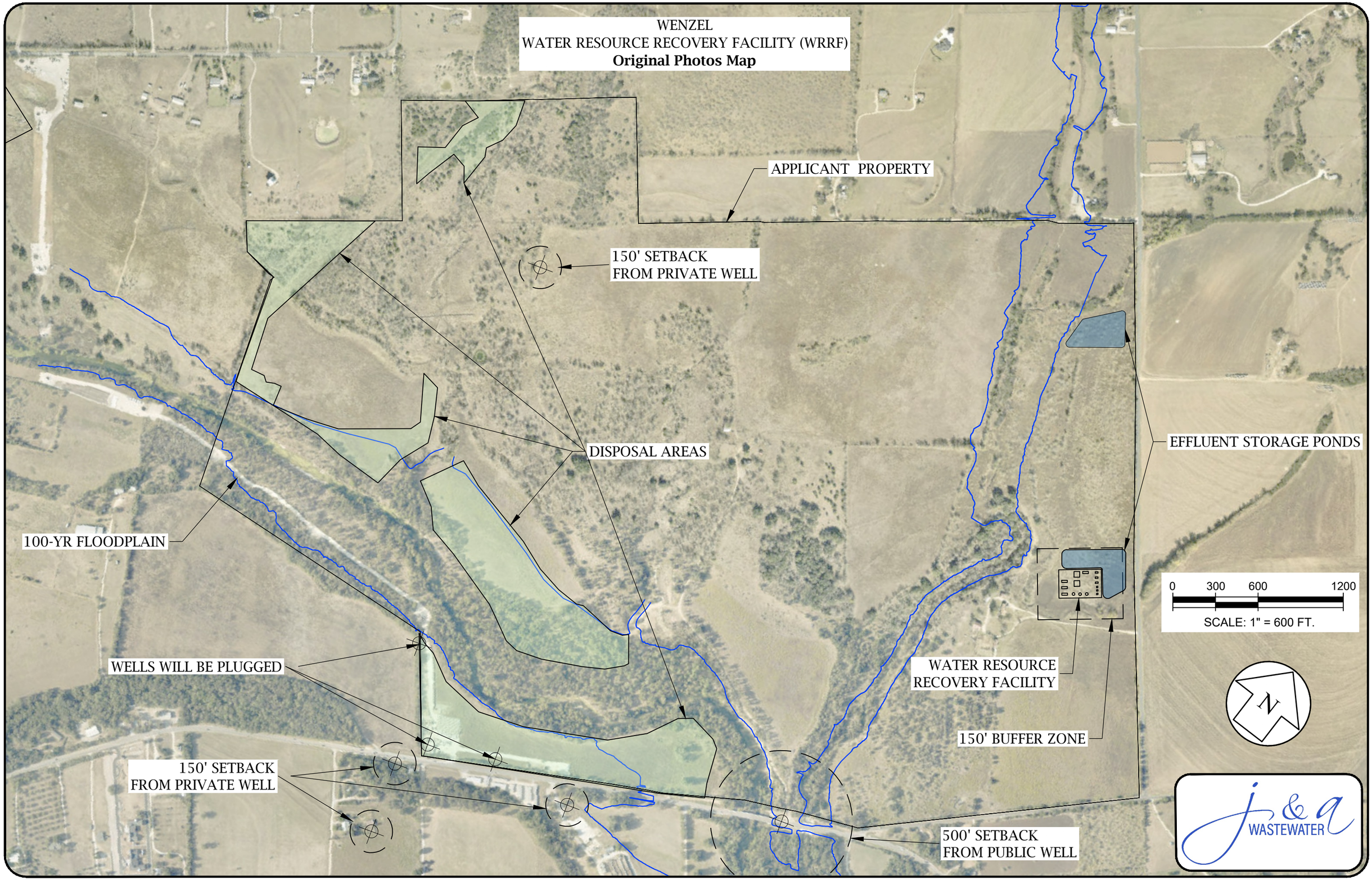
Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

Original Photos

1. WWTF Site

2. Disposal Area

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
Original Photos Map



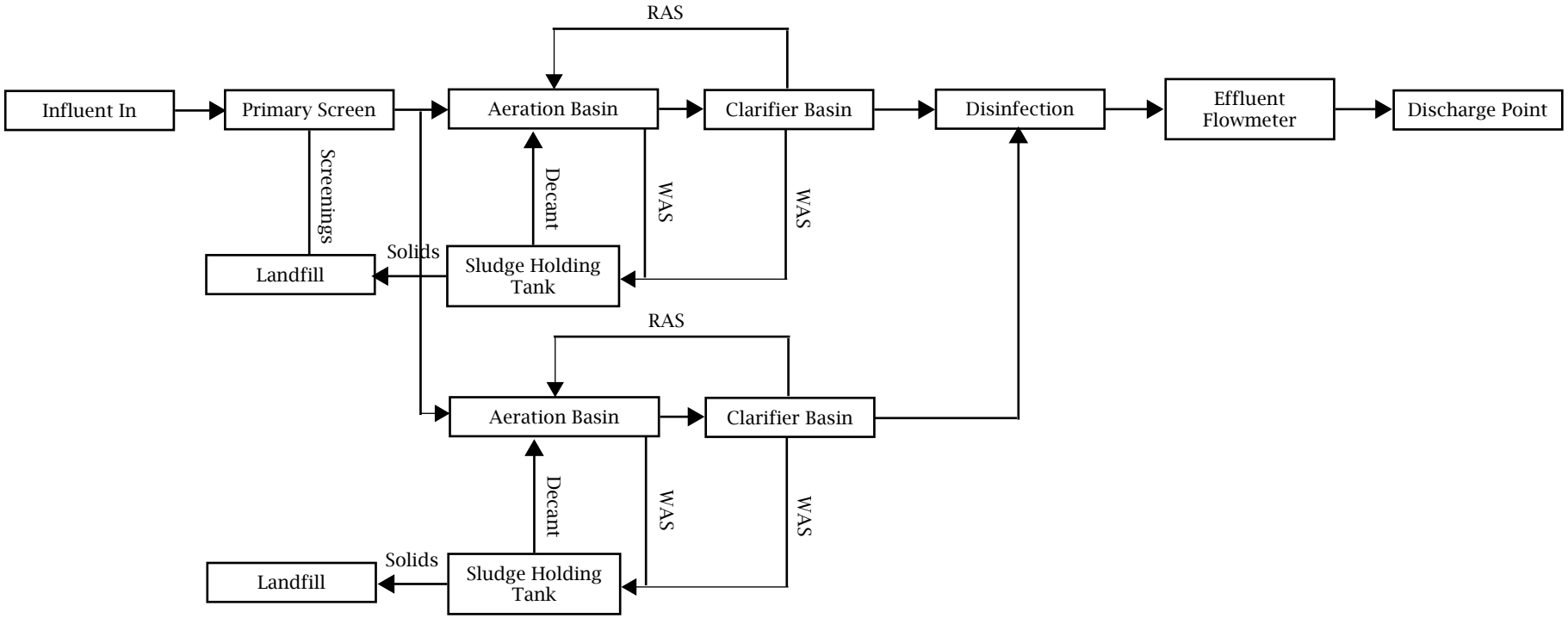
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C:\Users\JanelaRevilla\DC\ACCDocs\JAWastewater\198 - Wenzel WRRF Permitting\Project Files\DWGs\Wenzel-WRRF-Permiting.dwg, 9/25/2025 10:05 AM Janela Revilla

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Process Flow Diagram

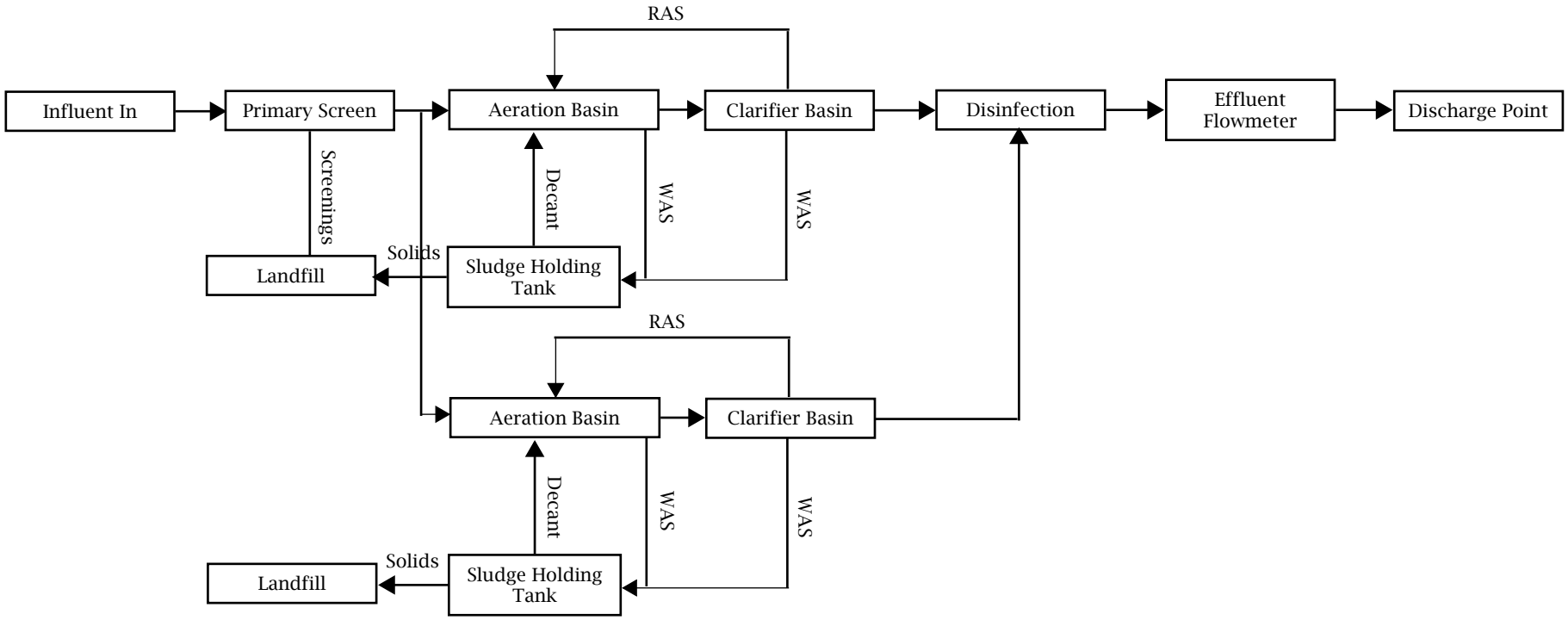
Phase I (0.0575 MGD)



WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Process Flow Diagram

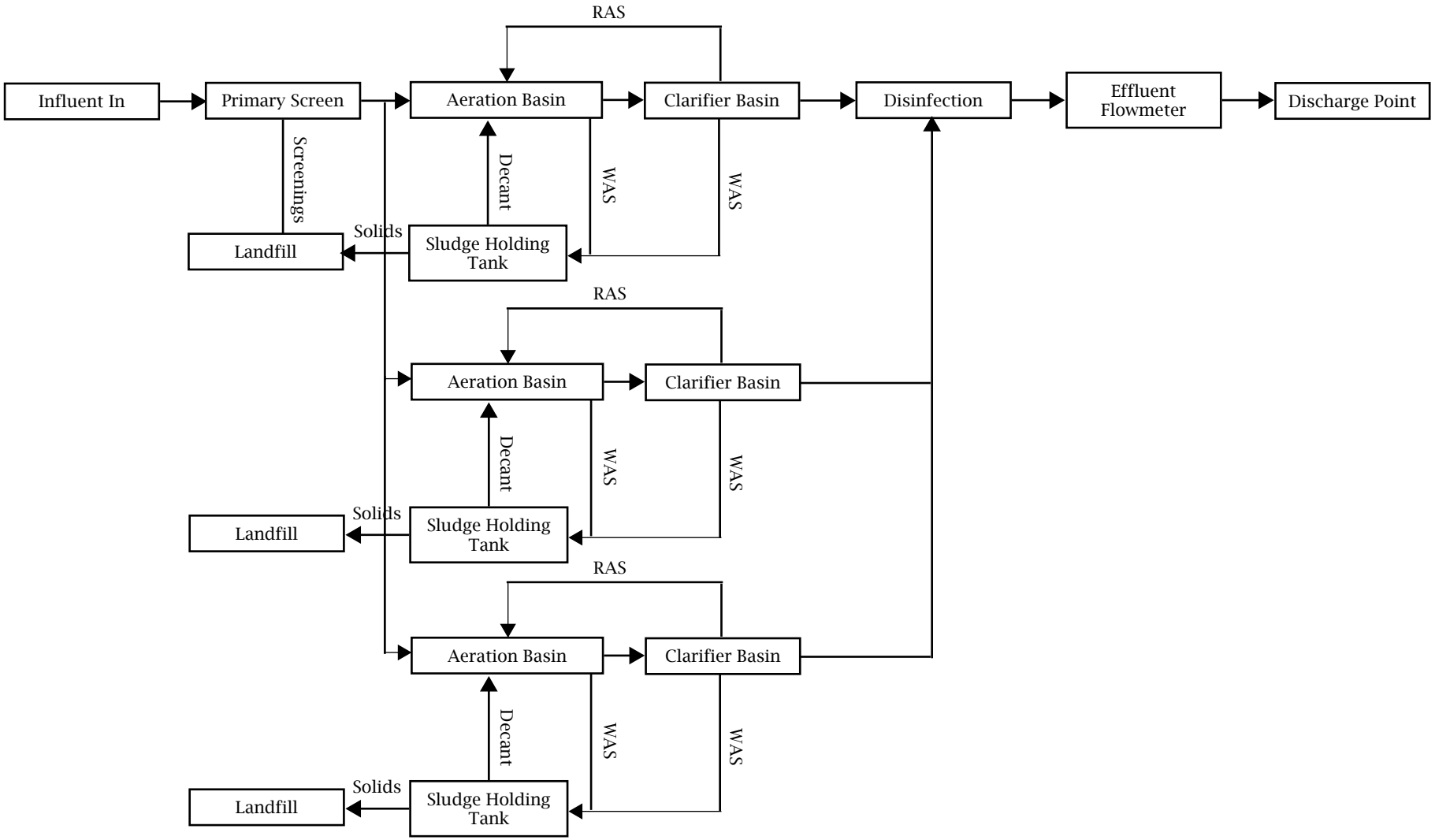
Phase II (0.115 MGD)



WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Process Flow Diagram

Final Phase (0.195 MGD)



Treatment Process and Unit Sizing

Treatment Process

Wenzel Water Resource Recovery Facility will be conventional activated sludge facility consisting of aeration, clarification zones, and sludge holding tanks. The facility will utilize chlorine disinfection. The design will be in accordance with Texas Administrative Code Title 30, Part 1: Texas Commission on Environmental Quality (TCEQ) Chapter 217 (Design Criteria for Domestic Wastewater Systems).

Treatment Unit Sizing

Phase I (0.0575 MGD)

Headworks with Screening	
Aeration Basin	(2) 40’ x 15’ x 10’ SWD = 89,760 gallons
Sludge Holding Tank	(2) 20’ x 10’ x 8’ SWD = 23,936 gallons
Clarifier Basin	(2) 18.5’ dia x 10’ SWD = 40,192 gallons
Chlorine Contact Chamber	(2) 10’ x 10’ x 5’ SWD = 7,480 gallons

Phase II (0.115 MGD)

Headworks with Screening	
Aeration Basin	(2) 40’ x 15’ x 10’ SWD = 89,760 gallons
Sludge Holding Tank	(2) 20’ x 10’ x 8’ SWD = 23,936 gallons
Clarifier Basin	(2) 18.5’ dia x 10’ SWD = 40,192 gallons
Chlorine Contact Chamber	(2) 10’ x 10’ x 5’ SWD = 7,480 gallons

Final Phase (0.195 MGD)

Headworks with Screening	
Aeration Basin	(3) 40’ x 15’ x 10’ SWD = 134,640 gallons
Sludge Holding Tank	(3) 20’ x 10’ x 8’ SWD = 35,904 gallons
Clarifier Basin	(3) 18.5’ dia x 10’ SWD = 60,288 gallons
Chlorine Contact Chamber	(3) 10’ x 10’ x 5’ SWD = 11,220 gallons

CAMINO REAL
WASTEWATER TREATMENT PLANT (WWTP)

Design Calculations

The following criteria and equations were used for the calculations:

Minimum Aearation Basin Volume
Per 30 TAC 217.154(b)(2), it cannot exceed 35lb BOD/day/1,000cf

Minimum Sludge Holding Tank Volume

V = 0.02Qt, where Q = phase flow (gpd)
t = 10 days

Chlorine Contact Chamber Volume
V = 4Qt, where Q = phase flow (gpd)
t = 20 min = 0.0138 days

Phase 1

Flow	57,500	gpd
2-hour Peak Flow	230,000	gpd
Aeration Basin	35,842	gallons
Sludge Holding Tank	11,500	gallons
Disinfection Chamber	3,194	gallons

Phase II

Flow	115,000	gpd
2-hour Peak Flow	460,000	gpd
Aeration Basin	71,685	gallons
Sludge Holding Tank	23,000	gallons
Disinfection Chamber	6,389	gallons

Final Phase

Flow	195,000	gpd
2-hour Peak Flow	780,000	gpd
Aeration Basin	121,552	gallons
Sludge Holding Tank	39,000	gallons
Disinfection Chamber	10,833	gallons

Design Calculations

The following criteria and equations were used for the calculations:

Minimum Clarifier Basin Volume

(A) Surface loading rates, excluding recirculation flow, must not exceed:
(i) 1,800 gallons per day per square foot at peak flow
(ii) 1,000 gallons per day per square foot at design flow

SA = Q/(SLR), where SA = surface area (sqft)
Q = flow (gpd)
SLR = Surface Loading Rate (gpd/sqft)

(B) Detention Time.
(i) Detention time at peak flow must be at least 54 minutes (0.9 hour).
(ii) Detention time at design flow must be at least 108 minutes (1.8 hours).
(iii) Side water depth may be adjusted from a minimum of 10 feet to a maximum of 18 feet, as long as the detention time remains unchanged.

*SWD = (Q * t)/(7.48)/(SA), where SWD = side water depth (ft)*
Q = flow (gpd)
t = detention time (days)
SA = surface area (sqft)
*V = SA * SWD * 7.48, where V = minimum volume (gallons)*
SA = surface area (sqft)

Phase I

Design Flow	57,500	gpd	
2-hour Peak Flow	230,000	gpd	
Surface Area	58	sqft	*(per Design Flow)*
	128	sqft	*(per Peak Flow)*
Side Water Depth	5.01	ft	*(per Design Flow)*
	18.05	ft	*(per Peak Flow)*
Clarifier Basin	2,156	gallons	*(per Design Flow)*
	17,250	gallons	*(per Peak Flow)*

Peak Flow Volume > Design Flow Volume

Phase II

Design Flow	115,000	gpd	
2-hour Peak Flow	460,000	gpd	
Surface Area	115	sqft	*(per Design Flow)*
	256	sqft	*(per Peak Flow)*
Side Water Depth	5.01	ft	*(per Design Flow)*
	18.05	ft	*(per Peak Flow)*
Clarifier Basin	4,313	gallons	*(per Design Flow)*
	34,500	gallons	*(per Peak Flow)*

Peak Flow Volume > Design Flow Volume

J&A WASTEWATER

Design Calculations

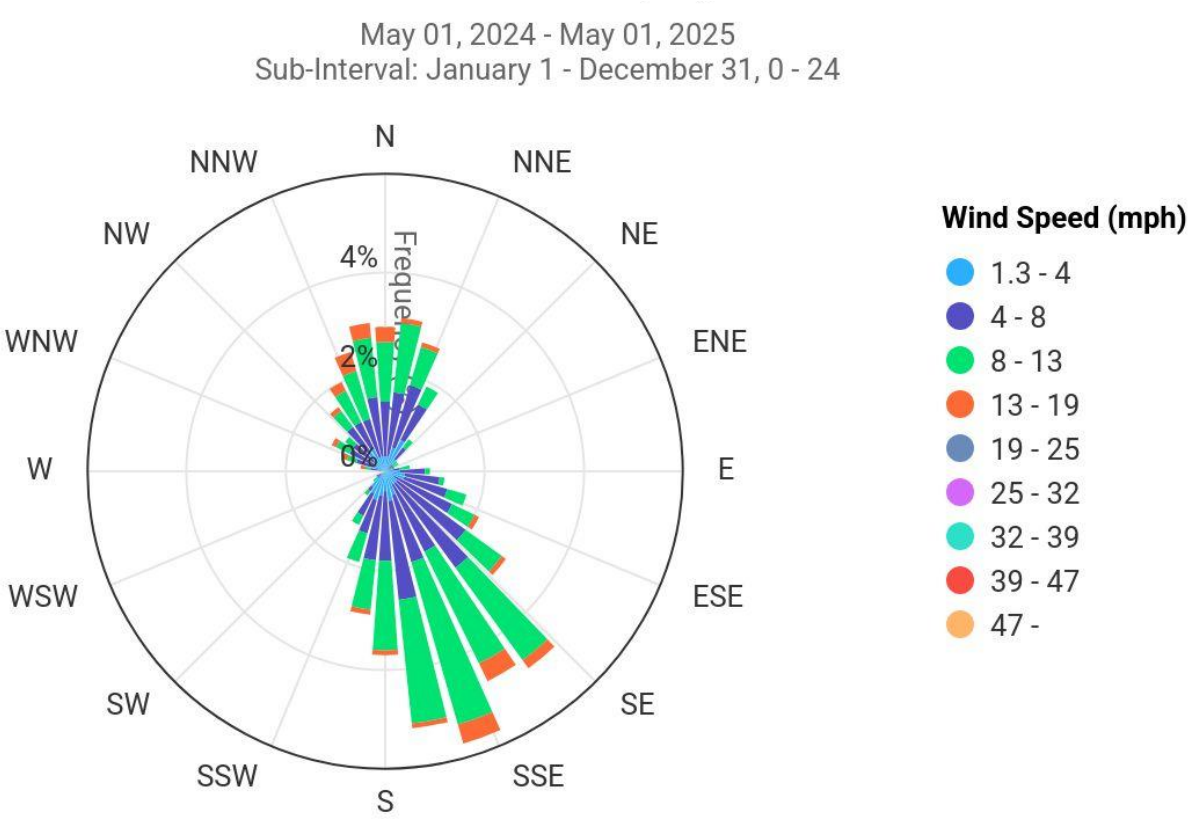
Final Phase

Design Flow	195,000	gpd	
2-hour Peak Flow	780,000	gpd	
Surface Area	195	sqft	*(per Design Flow)*
	433	sqft	*(per Peak Flow)*
Side Water Depth	5.01	ft	*(per Design Flow)*
	18.05	ft	*(per Peak Flow)*
Clarifier Basin	7,313	gallons	*(per Design Flow)*
	58,500	gallons	*(per Peak Flow)*

Peak Flow Volume > Design Flow Volume

Wind Rose

The following Austin-Camp Mabry (TX) Wind Rose is generated from https://mrcc.purdue.edu



September 2025

Texas Commission on Environmental Quality
Applications Review and Processing Team (MC-148)
12100 Park Thirty-Five Circle
Austin, TX 78753

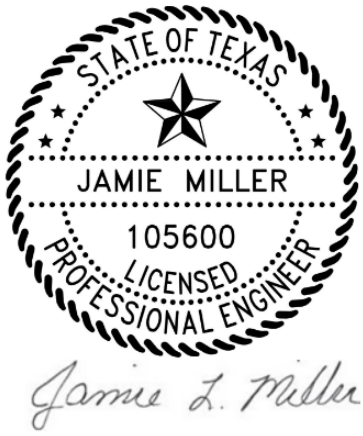
Subject: Liner Certification for Wenzel Water Resource Recovery Facility

To Whom it May Concern,

The proposed liner for the storage pond for the Wenzel Water Resource Recovery Facility will be required to be designed to meet the liner requirements of 30 TAC Chapters 309 and 217. The liner system will consist of either a synthetic membrane, or a clay liner.

Sincerely,

Jamie L. Miller, P.E.
President
Firm Number F-23372



September 2025

Texas Commission on Environmental Quality
Applications Review and Processing Team (MC-148)
12100 Park Thirty-Five Circle
Austin, TX 78753

Subject: Request for Reduction in Effluent Storage Requirement

To Whom It May Concern,

I am writing to formally request a modification to the storage requirements for the TLAP Application for Wenzel Water Resource Recovery Facility. Specifically, we are requesting a reduction in the required storage duration from 109 days shown on the water balance to 60 days of storage.

While our water balance calculations indicate a need for 109 days of storage, experience with similar facilities in the area show that these systems typically remain empty. For example, the wastewater treatment facility serving the Lariat Subdivision (WQ0015559001) in Liberty Hill has consistently operated without the need to maintain storage for 50 days' worth of effluent. The pond has maintained minimal levels, with an estimated maximum storage capacity of only 10 to 20 days—never reaching 50 days' worth.

Additionally, it is important to note that extreme weather events have occurred in certain years, which skews the water balance, exaggerating the required pond size.

Based on this regional operational data and an analysis of flows, we believe that a 60-day storage capacity is sufficient for Wenzel Water Resource Recovery Facility. In the event that the 60-day threshold is exceeded, we are fully prepared to implement pump and haul procedures to manage any excess volume as needed.

We kindly request your consideration of this adjustment and look forward to your feedback. If additional information or documentation is needed, please do not hesitate to contact me directly.

Sincerely,

Jamie L. Miller

Jamie L. Miller, P.E.
President
Firm Number F-23372

Annual Cropping Plan

a. Soils map depicting the location of the crops proposed or currently being grown. These locations should be identified by field and crop on the soils map.

A USDA Soils Map has been provided with the permit application.

b. All types of crops and acreage irrigated for each crop, including warm and cool season crops.

The 55.9-acre area will be seeded with Bermuda and Winter Rye grasses.

c. Crop yield goals or estimates.

Yield estimate: Bermuda grass will produce about 1 ton per acre with no applied fertilizer. Winter Rye produces 2 to 3 tons per acres.

d. Growing seasons for each crop including months the field is left fallow (no crops).

Growing season for Bermuda grass is from April through October. The growing season for Winter Rye is November through March, the fields are never left fallow.

e. Nutrient requirements for each crop, including additional fertilizer requirements for each crop, proposed additional fertilizer applications for each crop, and methods of fertilizer application for each crop, based on annual soil sampling and analysis.

The proposed design total nitrogen loading rate is 318 lb/acre/day or 0.87 lb/acre/year. Bermuda grass can utilize large amounts of nitrogen, with excellent yield response at 400 lbs/ acre/ year. (See Nutrient Demand High in Bermudagrass by Darst, et al. 1996). To most effectively use nitrogen, other nutrients are required such as phosphorus and potassium. These nutrient levels will be monitored through annual soil analysis and supplemented if required. Additional fertilizer is not anticipated but a manual spreader would be used if needed.

f. Provide the minimum and maximum harvest height for the crop (e.g. mowing height of grasses).

Minimum mowing height will be such that the grass is not scorched, approximately 3”. The maximum growing height will be determined by the operator, 18” is anticipated maximum height prior to mowing.

g. Supplemental watering requirements for each crop.

No supplemental watering is anticipated.

h. Salt tolerances of each crop.

Bermuda grass is highly salt tolerant, Winter Rye is considered to be intermediate in salt tolerance.

i. Describe the harvesting method and the proposed number of harvests for each crop.

The irrigation fields will be regularly mowed with clippings hauled off.

Annual Cropping Plan

j. If the proposed crop is existing native vegetation that will not be harvested, include a justification that the non-removal of crops will not lead to a buildup in nutrients. If the proposed system is drip irrigation with a proposal to use the existing forested vegetation as a crop, then provide a vegetation survey by a certified arborist describing at a minimum: (1) the number of mature ashe juniper (Juniperus ashei) and oaks (Quercus viginiana) trees per acre, (2) the number of other trees per acre, (3) percent of overstory canopy cover, (4) the extent of open spaces, and (5) areas with forbs and grasses expressed as percent of the land of each application site. A mature tree is one with a minimum height of 14 feet.

Varies

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

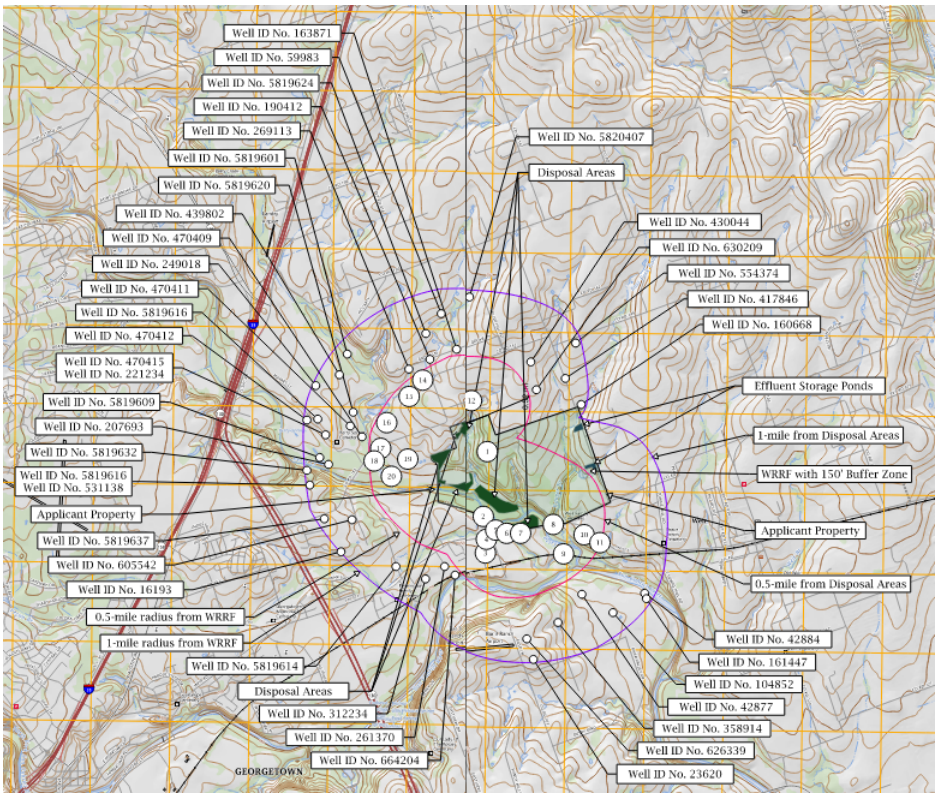
Groundwater Quality Report

Background
The Wenzel Water Resource Recovery Facility will serve a new development that generates 195,000 gpd at full buildout. The treated effluent will be disposed of via surface spray irrigation of 55.9 acres at full buildout.

Aquifer
The development is on the Edwards-Trinity (Plateau) Aquifer.

Nearby Well Information
A USGS map showing all wells within 1 mile of the property boundaries has been included with the application. A well reference list with well attributes such as the well ID number, well depth, well status, and proposed management practice is provided with this application. There are three wells within the disposal areas, and they will be plugged. The well logs for the wells on the reference list are included with this application. There are no monitoring wells available, and therefore no groundwater quality baseline data has been established. Below is a portion of the USGS map depicting the WWTF site, effluent disposal areas, 0.5 mi and 1-mile radius from the property boundaries, and well locations.

Impact on Local Groundwater Resources
The wastewater effluent is used to irrigate publicly accessible fields. The effluent applied to the land has a maximum application rate of 0.08 gal/sqft/day to ensure the effluent is taken up by the crop root systems and that potential contaminants do not migrate below the root zone. The treated effluent will be stored in a pond with a liner certified by a Texas Professional Engineer prior to being conveyed to the disposal areas.



United States Department of Agriculture

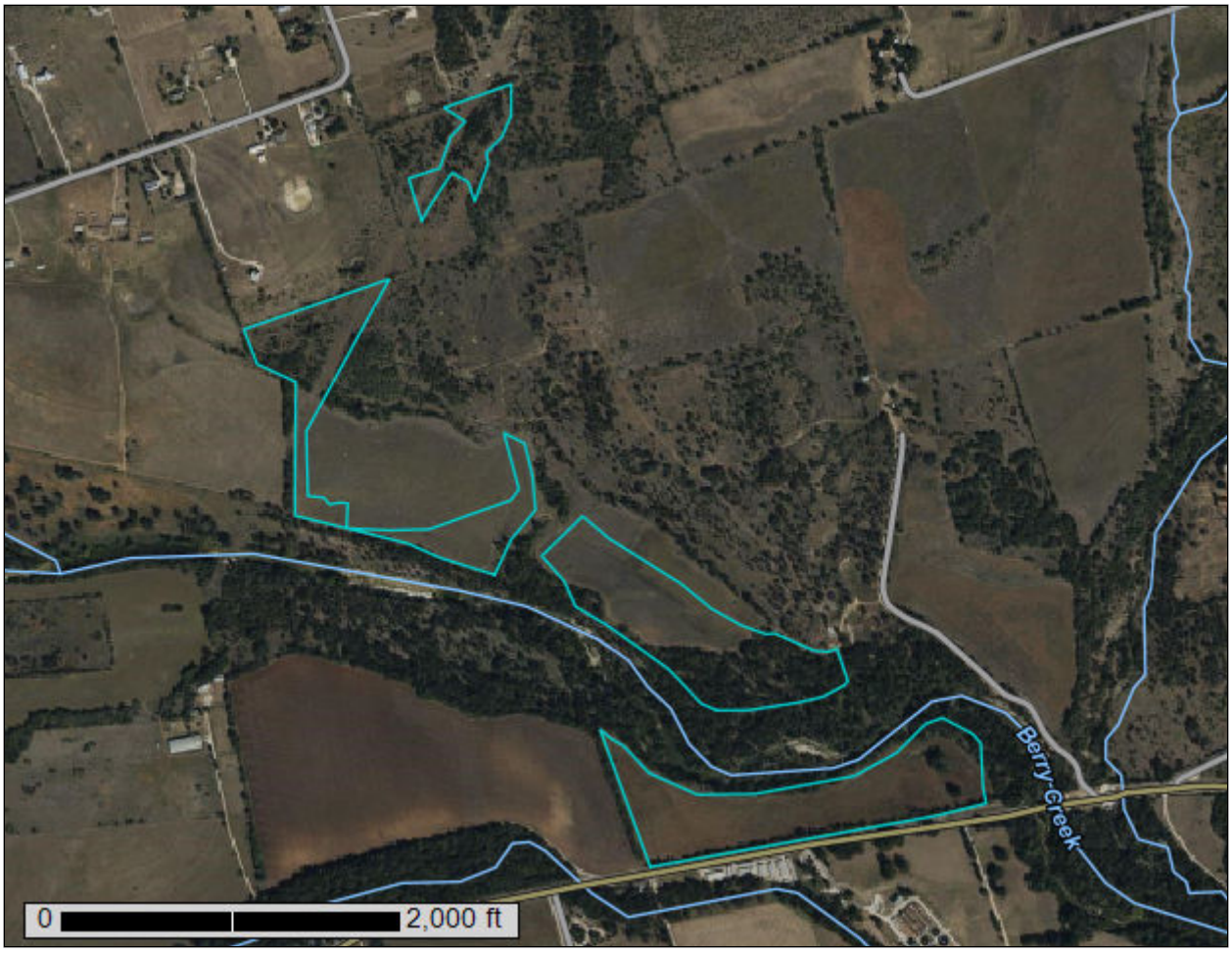
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Williamson County, Texas

Disposal Areas for TLAP Application



September 24, 2025

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

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

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:10,300 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1000 2000 3000

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: Williamson County, Texas
Survey Area Data: Version 25, 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: Data not available.

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
BrB	Branyon clay, 1 to 3 percent slopes	0.0	0.0%
FhF2	Ferris-Heiden complex, 5 to 15 percent slopes, moderately eroded	0.9	1.6%
HedC2	Heiden clay, 2 to 5 percent slopes, moderately eroded	8.2	14.7%
KrA	Krum silty clay, 0 to 1 percent slopes	7.1	12.7%
KrB	Krum silty clay, 1 to 3 percent slopes	19.8	35.4%
OaA	Oakalla silty clay loam, 0 to 2 percent slopes, occasionally flooded	13.0	23.2%
OkA	Oakalla silty clay loam, 0 to 2 percent slopes, frequently flooded	4.6	8.2%
QuC	Queeny clay loam, 1 to 5 percent slopes	2.3	4.2%
Totals for Area of Interest		**55.9**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They

generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Williamson County, Texas

BrB—Branyon clay, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2shgw
Elevation: 290 to 1,040 feet
Mean annual precipitation: 33 to 39 inches
Mean annual air temperature: 66 to 70 degrees F
Frost-free period: 243 to 288 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Branyon and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Branyon

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Calcareous clayey alluvium derived from mudstone of pleistocene age

Typical profile

Ap - 0 to 12 inches: clay
Bkss - 12 to 72 inches: clay
BCkss - 72 to 80 inches: clay

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 7.0
Available water supply, 0 to 60 inches: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: D
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Minor Components

Houston black

Percent of map unit: 5 percent
Landform: Ridges
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Burleson

Percent of map unit: 5 percent
Landform: Stream terraces, stream terraces
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai, circular gilgai
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

Lewisville

Percent of map unit: 5 percent
Landform: Stream terraces
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

FhF2—Ferris-Heiden complex, 5 to 15 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 2s1r4
Elevation: 330 to 700 feet
Mean annual precipitation: 34 to 37 inches
Mean annual air temperature: 67 to 69 degrees F
Frost-free period: 255 to 266 days
Farmland classification: Not prime farmland

Map Unit Composition

Ferris, moderately eroded, and similar soils: 48 percent
Heiden, moderately eroded, and similar soils: 32 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Ferris, Moderately Eroded

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Microfeatures of landform position: Linear gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Clayey residuum weathered from mudstone

Typical profile

Ap - 0 to 10 inches: clay
Bkss1 - 10 to 30 inches: clay
Bkss2 - 30 to 45 inches: clay
Cdk - 45 to 60 inches: clay

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: 39 to 59 inches to densic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Ecological site: R086AY009TX - Southern Eroded Blackland
Hydric soil rating: No

Description of Heiden, Moderately Eroded

Setting

Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Microfeatures of landform position: Linear gilgai
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Clayey residuum weathered from mudstone

Typical profile

Ap - 0 to 5 inches: clay
A - 5 to 15 inches: clay
Bkss1 - 15 to 38 inches: clay
Bkss2 - 38 to 64 inches: clay

CBdk - 64 to 80 inches: clay

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: 48 to 65 inches to densic material
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Ecological site: R086AY009TX - Southern Eroded Blackland
Hydric soil rating: No

Minor Components

Vertel

Percent of map unit: 10 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Microfeatures of landform position: Linear gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY009TX - Southern Eroded Blackland
Hydric soil rating: No

Tinn

Percent of map unit: 10 percent
Landform: Flood plains
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Concave, linear
Ecological site: R086AY013TX - Clayey Bottomland
Hydric soil rating: No

HedC2—Heiden clay, 2 to 5 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 2sshp
Elevation: 320 to 750 feet
Mean annual precipitation: 37 to 40 inches
Mean annual air temperature: 67 to 68 degrees F
Frost-free period: 245 to 260 days
Farmland classification: Not prime farmland

Map Unit Composition

Heiden, moderately eroded, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Heiden, Moderately Eroded

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Microfeatures of landform position: Linear gilgai
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Clayey residuum weathered from mudstone

Typical profile

Ap - 0 to 6 inches: clay
Bkss1 - 6 to 18 inches: clay
Bkss2 - 18 to 58 inches: clay
CBdk - 58 to 80 inches: clay

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: 40 to 65 inches to densic material
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Gypsum, maximum content: 5 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 12.0
Available water supply, 0 to 60 inches: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Ecological site: R086AY009TX - Southern Eroded Blackland
Hydric soil rating: No

Minor Components

Ferris, moderately eroded

Percent of map unit: 8 percent
Landform: Ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Microfeatures of landform position: Linear gilgai
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R086AY009TX - Southern Eroded Blackland
Hydric soil rating: No

Heiden

Percent of map unit: 7 percent
Landform: Ridges
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Microfeatures of landform position: Linear gilgai
Down-slope shape: Convex
Across-slope shape: Convex
Ecological site: R086AY011TX - Southern Blackland
Hydric soil rating: No

KrA—Krum silty clay, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: djqd
Elevation: 600 to 1,300 feet
Mean annual precipitation: 26 to 36 inches
Mean annual air temperature: 63 to 70 degrees F
Frost-free period: 230 to 250 days
Farmland classification: All areas are prime farmland

Map Unit Composition

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

Description of Krum

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread

Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Clayey alluvium of pleistocene age derived from mixed sources

Typical profile

H1 - 0 to 6 inches: silty clay
H2 - 6 to 44 inches: silty clay
H3 - 44 to 72 inches: silty clay

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: C
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

KrB—Krum silty clay, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: djqf
Elevation: 600 to 1,300 feet
Mean annual precipitation: 26 to 36 inches
Mean annual air temperature: 63 to 70 degrees F
Frost-free period: 230 to 250 days
Farmland classification: All areas are prime farmland

Map Unit Composition

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

Description of Krum

Setting

Landform: Stream terraces
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Convex

Parent material: Clayey alluvium of pleistocene age derived from mixed sources

Typical profile

H1 - 0 to 6 inches: silty clay
H2 - 6 to 44 inches: silty clay
H3 - 44 to 72 inches: silty clay

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: R086AY007TX - Southern Clay Loam
Hydric soil rating: No

OaA—Oakalla silty clay loam, 0 to 2 percent slopes, occasionally flooded

Map Unit Setting

National map unit symbol: 2wg93
Elevation: 400 to 1,070 feet
Mean annual precipitation: 32 to 35 inches
Mean annual air temperature: 66 to 70 degrees F
Frost-free period: 271 to 278 days
Farmland classification: Not prime farmland

Map Unit Composition

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

Description of Oakalla, Occasionally Flooded

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear

Parent material: Loamy alluvium derived from limestone

Typical profile

Ap - 0 to 8 inches: silty clay loam
Ak - 8 to 23 inches: silty clay loam
Bk1 - 23 to 53 inches: silty clay loam
Bk2 - 53 to 80 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: R086AY012TX - Loamy Bottomland
Hydric soil rating: No

Minor Components

Frio, occasionally flooded

Percent of map unit: 5 percent
Landform: Flood plains, flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R086AY012TX - Loamy Bottomland
Hydric soil rating: No

Tinn, frequently flooded

Percent of map unit: 4 percent
Landform: Flood plains, flood plains
Landform position (three-dimensional): Tread
Microfeatures of landform position: Circular gilgai
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R086AY013TX - Clayey Bottomland
Hydric soil rating: No

Gladewater, frequently flooded

Percent of map unit: 1 percent
Landform: Flood plains, flood plains
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R086AY013TX - Clayey Bottomland
Hydric soil rating: Yes

OkA—Oakalla silty clay loam, 0 to 2 percent slopes, frequently flooded

Map Unit Setting

National map unit symbol: 2t26p
Elevation: 370 to 1,450 feet
Mean annual precipitation: 24 to 35 inches
Mean annual air temperature: 64 to 69 degrees F
Frost-free period: 210 to 250 days
Farmland classification: Not prime farmland

Map Unit Composition

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

Description of Oakalla

Setting

Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy alluvium derived from limestone

Typical profile

Ap - 0 to 8 inches: silty clay loam
Ak - 8 to 23 inches: silty clay loam
Bk1 - 23 to 53 inches: silty clay loam
Bk2 - 53 to 80 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Calcium carbonate, maximum content: 60 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 5w
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B
Ecological site: R081CY561TX - Loamy Bottomland 29-35 PZ
Hydric soil rating: No

Minor Components

Oakalla, occasionally flooded
Percent of map unit: 4 percent
Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R081CY561TX - Loamy Bottomland 29-35 PZ
Hydric soil rating: No

Dev
Percent of map unit: 3 percent
Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R081CY561TX - Loamy Bottomland 29-35 PZ
Hydric soil rating: No

Krum
Percent of map unit: 2 percent
Landform: Flood plains
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R081CY357TX - Clay Loam 29-35 PZ
Hydric soil rating: No

Unnamed, hydric
Percent of map unit: 1 percent
Landform: Flood-plain steps, depressions
Landform position (three-dimensional): Tread
Down-slope shape: Linear, concave
Across-slope shape: Concave
Hydric soil rating: Yes

QuC—Queeny clay loam, 1 to 5 percent slopes

Map Unit Setting
National map unit symbol: djql
Elevation: 450 to 800 feet
Mean annual precipitation: 29 to 34 inches
Mean annual air temperature: 64 to 70 degrees F
Frost-free period: 235 to 255 days
Farmland classification: Not prime farmland

Map Unit Composition
Queeny and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Queeny

Setting

Landform: Paleoterraces
Landform position (three-dimensional): Riser
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Gravelly alluvium of quaternary age derived from mixed sources

Typical profile

H1 - 0 to 18 inches: clay loam
H2 - 18 to 32 inches: cemented material
H3 - 32 to 99 inches: variable

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 10 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4s
Hydrologic Soil Group: D
Ecological site: R086AY002TX - Southern Chalky Ridge
Hydric soil rating: No

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Solids Management Plan

a. The dimensions (length x width x height) and capacities (gallons or cubic feet) of all sewage sludge handling and treatment units and processes.

Phase I	Sludge Holding Tank – (2) 20' x 10' x 8' SWD
Phase II	Sludge Holding Tank – (2) 20' x 10' x 8' SWD
Final Phase	Sludge Holding Tank – (3) 20' x 10' x 8' SWD

b. Calculations showing the amount of solids generated at design flow and at 75%, 50%, and 25% of design flow.

Calculations are based on the average influent BOD, as stipulated in Chapter 217.250 for firm dewatering capacity:

Solids Generation = (Influent BOD) x (Design Flow) x (0.98)

Phase 1 Flow	*0.0575 MGD*
Phase II Flow	*0.115 MGD*
Final Phase Flow	*0.195 MGD*
Average Influent BOD	*350 mg/L*
Design Influent BOD	*350 mg/L*
Solids Generated	*0.98 Pound Solids per Pound of BOD applied*

Phase I at 100% Flow	164 lb/day
at 75% Flow	123 lb/day
at 50% Flow	82 lb./day
at 25% Flow	41 lb/day
Phase II at 100% Flow	329 lb/day
at 75% Flow	247 lb/day
at 50% Flow	164 lb./day
at 25% Flow	82 lb/day
Final Phase at 100% Flow	558 lb/day
at 75% Flow	418 lb/day
at 50% Flow	279 lb/day
at 25% Flow	139 lb/day

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

Phase I	8000 – 12,000 mg/L
Phase II	8000 – 12,000 mg/L
Final Phase	8000 – 12,000 mg/L

d. A description of the procedure and method of solids removal from both the wastewater and sludge treatment processes.

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

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

Solids will be removed from the sludge holding tank on a 10-day rotation during final phase. The Wenzel WRRF currently does not plan to process waste activated sludge from other facilities in liquid or cake form through its sludge processing facilities.

f. Identification and ownership of the ultimate disposal site and a system of documenting the amount of solids disposed of, recorded in dry weight.

The facility contracted for ultimate disposal is to be determined.

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Calculations
Phase 1 (57,500 GPD)

1	2	3	4	5	6	7	8		9	10	11
	Average Rain	Average Runoff	Average Infiltrated Rainfall	Evapo-transpiration	Required Leaching	Total Water Needs	Effluent Req'd in Root Zone	Average Evaporation	Evaporation from Reservoir	Effluent Applied to Land	Consumption from Reservoir
JAN	2.46	0.86	1.60	1.30	0.00	1.30	0.00	2.20	0.27	0.00	0.27
FEB	1.95	0.53	1.42	2.30	0.35	2.65	1.23	2.31	0.28	1.45	1.73
MAR	2.88	1.16	1.72	5.70	1.59	7.29	5.57	3.38	0.41	6.56	6.97
APR	2.63	0.98	1.65	3.42	0.71	4.13	2.48	4.19	0.51	2.92	3.42
MAY	4.31	2.30	2.01	6.12	1.64	7.76	5.75	4.62	0.56	6.77	7.33
JUN	2.96	1.22	1.74	6.48	1.90	8.38	6.64	6.11	0.74	7.81	8.55
JUL	2.21	0.69	1.51	6.66	2.06	8.72	7.20	6.94	0.84	8.48	9.32
AUG	2.36	0.79	1.57	4.59	1.21	5.80	4.23	7.02	0.85	4.98	5.83
SEP	3.13	1.35	1.78	5.13	1.34	6.47	4.69	5.31	0.64	5.51	6.16
OCT	4.20	2.21	1.99	4.05	0.82	4.87	2.88	4.03	0.49	3.39	3.88
NOV	2.81	1.11	1.70	1.60	0.00	1.60	0.00	2.84	0.34	0.00	0.34
DEC	2.25	0.72	1.53	1.30	0.00	1.30	0.00	2.11	0.26	0.00	0.26
TOTAL	**34.15**	**13.93**	**20.22**	**48.65**	**11.62**	**60.27**	**40.68**	**51.07**	**6.19**	**47.86**	**54.05**

12	13	14a	14b	15	16	17	18a		18b	19	20
	Effluent Applied to Land (in)	Mean Rainfall Distribution (%)	Maximum Rainfall (in)	Maximum Runoff (in)	Infiltrated Rainfall (in)	Total Avail H2O (in)	% Distribution of Mean	Min Annual Net Evap Proportionally Distributed (in)	Net Evaporation (min) (in)	Storage (in-ac/ac)	Accumulated Storage (in-ac/ac)
JAN	3.904	7.2	3.74	1.83	1.91	5.81	4.32	1.76	0.21	3.69	11.02
FEB	3.904	5.7	2.97	1.23	1.74	5.65	4.52	1.84	0.22	2.61	13.63
MAR	3.904	8.4	4.38	2.36	2.02	5.92	6.62	2.70	0.33	-2.63	11.00
APR	3.904	7.7	3.99	2.03	1.96	5.86	8.20	3.34	0.40	0.94	11.95
MAY	3.904	12.6	6.55	4.28	2.27	6.17	9.05	3.68	0.45	-3.01	8.94
JUN	3.904	8.7	4.49	2.45	2.04	5.94	11.96	4.87	0.59	-4.14	4.80
JUL	3.904	6.5	3.35	1.52	1.83	5.74	13.59	5.53	0.67	-4.87	-0.07
AUG	3.904	6.9	3.59	1.71	1.88	5.79	13.74	5.59	0.68	-1.38	-1.46
SEP	3.904	9.2	4.76	2.68	2.08	5.98	10.40	4.24	0.51	-1.78	-3.23
OCT	3.904	12.3	6.39	4.13	2.25	6.16	7.89	3.21	0.39	0.43	-2.80
NOV	3.904	8.2	4.26	2.26	2.00	5.91	5.57	2.27	0.27	3.63	3.63
DEC	3.904	6.6	3.42	1.57	1.85	5.75	4.14	1.68	0.20	3.70	7.33
TOTAL	**46.85**	**100.00**	**51.88**	**28.05**	**23.83**	**70.67**	**100.00**	**40.71**	**4.93**		

Hydro Group	D	
Curve Number (N)	80	
S = 1000/N - 10	2.50	
C_E	2	
C_1	7	
Irrigation Efficiency	0.85	
Effluent Quantity	57,500	gpd
Pond Area	2.0	acres
Disposal area	16.5	acres
Max Year Annual Rainfall	51.88	inches
Min Year Annual Evaporation	40.71	inches

Application Rate	0.08	gal/sqft/day
	3.9	ac-ft/ac/yr

Required Pond Capacity	18.74	acre-ft
	6.11	MG
	6,106,199.1	gallons
	106	days

60-day Pond Capacity	3.45	MG
	10.6	acre-ft

j&a WASTEWATER

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Calculations
Phase 2 (115,000 GPD)

1	2	3	4	5	6	7	8		9	10	11
	Average Rain	Average Runoff	Average Infiltrated Rainfall	Evapo-transpiration	Required Leaching	Total Water Needs	Effluent Req'd in Root Zone	Average Evaporation	Evaporation from Reservoir	Effluent Applied to Land	Consumption from Reservoir
JAN	2.46	0.86	1.60	1.30	0.00	1.30	0.00	2.20	0.25	0.00	0.25
FEB	1.95	0.53	1.42	2.30	0.35	2.65	1.23	2.31	0.27	1.45	1.72
MAR	2.88	1.16	1.72	5.70	1.59	7.29	5.57	3.38	0.39	6.56	6.95
APR	2.63	0.98	1.65	3.42	0.71	4.13	2.48	4.19	0.48	2.92	3.40
MAY	4.31	2.30	2.01	6.12	1.64	7.76	5.75	4.62	0.53	6.77	7.30
JUN	2.96	1.22	1.74	6.48	1.90	8.38	6.64	6.11	0.70	7.81	8.51
JUL	2.21	0.69	1.51	6.66	2.06	8.72	7.20	6.94	0.80	8.48	9.28
AUG	2.36	0.79	1.57	4.59	1.21	5.80	4.23	7.02	0.81	4.98	5.79
SEP	3.13	1.35	1.78	5.13	1.34	6.47	4.69	5.31	0.61	5.51	6.13
OCT	4.20	2.21	1.99	4.05	0.82	4.87	2.88	4.03	0.46	3.39	3.85
NOV	2.81	1.11	1.70	1.60	0.00	1.60	0.00	2.84	0.33	0.00	0.33
DEC	2.25	0.72	1.53	1.30	0.00	1.30	0.00	2.11	0.24	0.00	0.24
TOTAL	**34.15**	**13.93**	**20.22**	**48.65**	**11.62**	**60.27**	**40.68**	**51.07**	**5.88**	**47.86**	**53.74**

12	13	14a	14b	15	16	17	18a		18b	19	20
	Effluent Applied to Land (in)	Mean Rainfall Distribution (%)	Maximum Rainfall (in)	Maximum Runoff (in)	Infiltrated Rainfall (in)	Total Avail H2O (in)	% Distribution of Mean	Min Annual Net Evap Proportionally Distributed (in)	Net Evaporation (min) (in)	Storage (in-ac/ac)	Accumulated Storage (in-ac/ac)
JAN	3.904	7.2	3.74	1.83	1.91	5.81	4.32	1.76	0.20	3.70	11.05
FEB	3.904	5.7	2.97	1.23	1.74	5.65	4.52	1.84	0.21	2.62	13.68
MAR	3.904	8.4	4.38	2.36	2.02	5.92	6.62	2.70	0.31	-2.61	11.07
APR	3.904	7.7	3.99	2.03	1.96	5.86	8.20	3.34	0.38	0.96	12.03
MAY	3.904	12.6	6.55	4.28	2.27	6.17	9.05	3.68	0.42	-2.99	9.04
JUN	3.904	8.7	4.49	2.45	2.04	5.94	11.96	4.87	0.56	-4.11	4.93
JUL	3.904	6.5	3.35	1.52	1.83	5.74	13.59	5.53	0.64	-4.83	0.10
AUG	3.904	6.9	3.59	1.71	1.88	5.79	13.74	5.59	0.64	-1.35	-1.25
SEP	3.904	9.2	4.76	2.68	2.08	5.98	10.40	4.24	0.49	-1.75	-3.01
OCT	3.904	12.3	6.39	4.13	2.25	6.16	7.89	3.21	0.37	0.45	-2.55
NOV	3.904	8.2	4.26	2.26	2.00	5.91	5.57	2.27	0.26	3.64	3.64
DEC	3.904	6.6	3.42	1.57	1.85	5.75	4.14	1.68	0.19	3.71	7.35
TOTAL	**46.85**	**100.00**	**51.88**	**28.05**	**23.83**	**70.67**	**100.00**	**40.71**	**4.69**		

Hydro Group	D	
Curve Number (N)	80	
S = 1000/N - 10	2.50	
C_E	2	
C_1	7	
Irrigation Efficiency	0.85	
Effluent Quantity	115,000	gpd
Pond Area	3.8	acres
Disposal area	33	acres
Max Year Annual Rainfall	51.88	inches
Min Year Annual Evaporation	40.71	inches

Application Rate	0.08	gal/sqft/day
	3.9	ac-ft/ac/yr

Required Pond Capacity	37.61	acre-ft
	12.25	MG
	12,253,387.6	gallons
	107	days

60-day Pond Capacity	6.90	MG
	21.2	acre-ft

j&a WASTEWATER

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Calculations
Final Phase (195,000 GPD)

1	2	3	4	5	6	7	8		9	10	11
	Average Rain	Average Runoff	Average Infiltrated Rainfall	Evapo-transpiration	Required Leaching	Total Water Needs	Effluent Req'd in Root Zone	Average Evaporation	Evaporation from Reservoir	Effluent Applied to Land	Consumption from Reservoir
JAN	2.46	0.86	1.60	1.30	0.00	1.30	0.00	2.20	0.15	0.00	0.15
FEB	1.95	0.53	1.42	2.30	0.35	2.65	1.23	2.31	0.16	1.45	1.61
MAR	2.88	1.16	1.72	5.70	1.59	7.29	5.57	3.38	0.23	6.56	6.79
APR	2.63	0.98	1.65	3.42	0.71	4.13	2.48	4.19	0.28	2.92	3.20
MAY	4.31	2.30	2.01	6.12	1.64	7.76	5.75	4.62	0.31	6.77	7.08
JUN	2.96	1.22	1.74	6.48	1.90	8.38	6.64	6.11	0.42	7.81	8.22
JUL	2.21	0.69	1.51	6.66	2.06	8.72	7.20	6.94	0.47	8.48	8.95
AUG	2.36	0.79	1.57	4.59	1.21	5.80	4.23	7.02	0.48	4.98	5.46
SEP	3.13	1.35	1.78	5.13	1.34	6.47	4.69	5.31	0.36	5.51	5.88
OCT	4.20	2.21	1.99	4.05	0.82	4.87	2.88	4.03	0.27	3.39	3.66
NOV	2.81	1.11	1.70	1.60	0.00	1.60	0.00	2.84	0.19	0.00	0.19
DEC	2.25	0.72	1.53	1.30	0.00	1.30	0.00	2.11	0.14	0.00	0.14
TOTAL	**34.15**	**13.93**	**20.22**	**48.65**	**11.62**	**60.27**	**40.68**	**51.07**	**3.47**	**47.86**	**51.33**

12	13	14a	14b	15	16	17	18a		18b	19	20
	Effluent Applied to Land (in)	Mean Rainfall Distribution (%)	Maximum Rainfall (in)	Maximum Runoff (in)	Infiltrated Rainfall (in)	Total Avail H2O (in)	% Distribution of Mean	Min Annual Net Evap Proportionally Distributed (in)	Net Evaporation (min) (in)	Storage (in-ac/ac)	Accumulated Storage (in-ac/ac)
JAN	3.908	7.2	3.74	1.83	1.91	5.82	4.32	1.76	0.12	3.79	11.34
FEB	3.908	5.7	2.97	1.23	1.74	5.65	4.52	1.84	0.13	2.71	14.05
MAR	3.908	8.4	4.38	2.36	2.02	5.93	6.62	2.70	0.18	-2.48	11.57
APR	3.908	7.7	3.99	2.03	1.96	5.86	8.20	3.34	0.23	1.13	12.69
MAY	3.908	12.6	6.55	4.28	2.27	6.18	9.05	3.68	0.25	-2.81	9.89
JUN	3.908	8.7	4.49	2.45	2.04	5.95	11.96	4.87	0.33	-3.88	6.01
JUL	3.908	6.5	3.35	1.52	1.83	5.74	13.59	5.53	0.38	-4.57	1.44
AUG	3.908	6.9	3.59	1.71	1.88	5.79	13.74	5.59	0.38	-1.08	0.35
SEP	3.908	9.2	4.76	2.68	2.08	5.98	10.40	4.24	0.29	-1.55	-1.20
OCT	3.908	12.3	6.39	4.13	2.25	6.16	7.89	3.21	0.22	0.61	-0.59
NOV	3.908	8.2	4.26	2.26	2.00	5.91	5.57	2.27	0.15	3.75	3.75
DEC	3.908	6.6	3.42	1.57	1.85	5.75	4.14	1.68	0.11	3.79	7.55
TOTAL	**46.89**	**100.00**	**51.88**	**28.05**	**23.83**	**70.72**	**100.00**	**40.71**	**2.77**		

Hydro Group	D	
Curve Number (N)	80	
S = 1000/N - 10	2.50	
C_E	2	
C_1	7	
Irrigation Efficiency	0.85	
Effluent Quantity	195,000	gpd
Pond Area	3.8	acres
Disposal area	55.9	acres
Max Year Annual Rainfall	51.88	inches
Min Year Annual Evaporation	40.71	inches

Application Rate	0.08	gal/sqft/day
	3.9	ac-ft/ac/yr

Required Pond Capacity	65.4	acre-ft
	21.3	MG
	21,320,899.3	gallons
	109	days

60-day Pond Capacity	11.70	MG
	35.9	acre-ft

j&a WASTEWATER

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)

Water Balance Engineering Report

Water balance and storage volume calculations have been completed for final phase. The effluent storage pond required is 65.4 acre-ft or 109 days of storage. At full buildout of 195,000 gpd, 55.9 acres of disposal area is required. The following is a summary providing references/sources for the data used to develop the tables. Also enclosed are the irrigation efficiency assumptions, summary of the application rates per month per acre, nitrogen loading, and water balance. The clarifications are below, water balance with storage volume calculations is presented separately as their own attachments titled "Water Balance".

Water Balance Table Column	Assumptions and References/Sources
Column 2: Average Rainfall	Data obtained from Texas Water Development Board Quadrangle 710; https://waterdatafortexas.org/lake-evaporation-rainfall; years 1998 – 2023.
Column 3: Average Runoff	Curve number (CN) was obtained from SCS Technical Release No. 55. A curve number of 80 was used, considering lawns and parks in fair condition (grass cover between 50% to 75%) in soils that fall into hydro groups D.
Column 4: Average Infiltrated Rainfall	Obtained by subtracting average runoff from average rainfall.
Column 5: Evapotranspiration	Data obtained from Texas Board of Water Engineers, Bulletin 6019 (Consumptive Use of Water by Major Crops in Texas). Average monthly and annual consumptive use, Table 5 – Area 7C for Warm Season (April-October), Kc of 0.9 used for Bermuda grass. Table 8 – Area 7C for Cool Season (November-March), used for small grain, Winter Rye.
Column 6: Required Leaching	Ce (electrical conductivity) was based on a close by groundwater well, a value of 2 mmhos/cm was used. Cl (allowable conductivity of soil) = 7 based on 30 TAC 309.20, Table 3, Winter Rye and Bermuda grass.
Column 7: Total Water Needs	Obtained by adding evapotranspiration and required leaching.
Column 8: Effluent Needed in Root Zone	Obtained by subtracting average infiltrated rainfall from total water needs (assume zero if value is less than zero).
Column 9: Net Evaporation from Reservoir Surface	Data obtained from Texas Water Development Board Quadrangle 710; https://waterdatafortexas.org/lake-evaporation-rainfall; years 1998 – 2023.
Column 10: Effluent Applied to Land	Obtained by dividing the effluent needed in root zone by the irrigation efficiency, K, assumed to be 0.85 or 85%
Column 11: Consumption from Reservoir	Obtained by adding net evaporation and effluent applied to land.
Column 13: Effluent Received for Application or Storage	Based on full buildout flows of 195,000 gpd and 55.9 acres of TLAP disposal area.
Column 14: Rainfall (Maximum)	Data on maximum rainfall year in the past 25 years was obtained from Texas Water Development Board Quadrangle 710 Precipitation (inches)

	from 1998 to 2023, 51.88 inches in 2004. The total was distributed proportionally to monthly average rainfall.
Column 15: Runoff (Maximum)	Calculated as shown above for Column 3 using maximum rainfall numbers from Column 14.
Column 16: Infiltrated Rainfall	Obtained by subtracting maximum runoff (Column 15) from maximum rainfall (Column 14).
Column 17: Available Water	Obtained by adding effluent received (Column 13) and infiltrated rainfall (Column 16).
Column 18b: Lowest Annual Net Evaporation	Data on minimum net evaporation year in the past 25 years was obtained from Texas Water Development Board Quadrangle 710, Monthly Evaporation (inches) from 1998 to 2023: 40.71 inches in 2021. The total was distributed proportionally to monthly average evaporation.
Column 19: Storage	Obtained by subtracting lowest annual net evaporation (Column 18b) from effluent received (Column 13), then subtracting total water needs (Column 7) – infiltrated rainfall (Column 16) divided by k (irrigation efficiency of 0.85). If total water needs (Column 7) – infiltrated rainfall (Column 16) divided by k (irrigation efficiency of 0.85) is < 0, then storage = Column 13 – Column 18b).
Column 20: Accumulated Storage	Summation beginning with the first consecutive month of possible values from Column 19.

Irrigation Efficiency

Based on Howell 2003, average irrigation efficiency for spray irrigation in a field environment ranges from 85 to 90 percent. Therefore, an efficiency of 85 percent was assumed for water balance and storage calculations.

Nitrogen Balance

It is anticipated that total nitrogen in the effluent will be ≤30 mg/L. Loading will be as follows:

30 mg/L x 195,000 gallons/day x 3.78 L/g / 453,592 lbs/mg x 365 day/year =

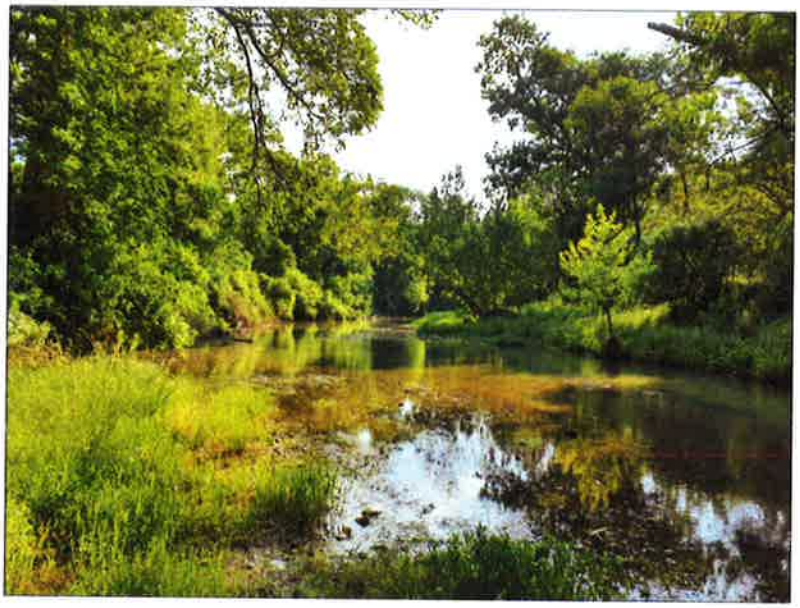
17,794 lbs/year spread across 55.9 acres = 318 lbs/acre/year

Bermuda grass is able to utilize large amounts of nitrogen, with excellent yield response at around 400 pounds per acre per year. (See: Nutrient Demand High In Bermuda grass by Darst, et al. 1996).

Geologic Assessment – Site Geology Report

Approximate 577-acres
Pinnacle Tract
Williamson County, Texas

Prepared For:
HK Real Estate Development, LLC



Prepared By:

BGE, Inc.
101 West Louis Henna Blvd., Suite 400
Austin, TX 78728
BGE PN: 10216-00
June 2022

4/9/22

STATE OF TEXAS
CRYSTAL HALL
GEOLOGY
11409
LICENSED
PROFESSIONAL GEOSCIENTIST

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Attachments

Attachment A: **Geologic Assessment Form**
Attachment B: **Geologic Assessment Table**
Attachment C: **Site Soils Map**
Attachment D: **Site Geologic Map**
Attachment E: **Endangered Species Act 4(d) Rule Stream Buffer Map**
Attachment F: **Subject Property Photographs**

Section 1 Introduction

A geologic assessment (GA) was conducted by Ms. Crystal Hall, P.G. and environmental scientists of BGE, Inc. (BGE) on May 24 through 26, 2022, and June 1, 2022, on the Pinnacle Tract, herein referred to as "subject property". The subject property is an approximately 577-acre subject property located north of Farm to Market (FM) 971 and west of County Road (CR) 140 in Williamson County, Texas. The subject property is located within the *Georgetown* and *Weir*, TX U.S. Geological Survey (USGS) 7.5-minute topographic maps (2019). Sixteen geologic features (CD-1 through CD-13, F-1, SF-1, and MB-1) were identified on the subject property. None of these features would be considered sensitive according to the Texas Commission on Environmental Quality's (TCEQ) Edwards Aquifer Rules.

Section 2 Methodology

The GA was completed on the subject property following the methods described in the *TCEQ Instruction to Geologists for Geologic Assessments on the Edwards Aquifer Recharge Zone* (hereafter Instructions to Geologists) and augmented with the TCEQ Edwards Aquifer Guidance Manual.

BGE scientists, including a Texas Licensed Professional Geologist (PG), conducted a 100 percent pedestrian survey during the site visits on May 24 through 26, 2022, and June 1, 2022. During the site visits, transects spaced no more than 50-feet apart and drainages were systematically walked to observe surface features. BGE surveyed 420-acres of the 577-acre subject property located within the Edwards Aquifer Recharge Zone. Surface soil and visible geology were recorded during the field visit. Data was collected in the field with a Samsung tablet with a GPS internal receiver. The technique used to determine the depth, thickness, and consistency of fill material of identified features included probing with a digging implement. Although not found, air flow from features was also analyzed, to identify the presence of a sub-surface void space.

Following the field investigations, BGE completed a Geologic Assessment Form (**Attachment A: Geologic Assessment Form**) and a Geologic Assessment Table (**Attachment B: Geologic Assessment Table**) according to the standards in the TCEQ Instructions to Geologists in addition to all maps and attachments required by the TCEQ Edwards Aquifer Rules.

Section 3 Results

3.1 Overview

The subject property occurs on partially developed land currently used for agriculture and two homesteads. Numerous plowed fields, native woodland, and recently cleared areas are present. Herbaceous and tree upland communities were observed on the undeveloped sections of the subject property including mesquite (*Prosopis glandulosa*), annual ragweed (*Ambrosia artemisiifolia*), and perennial rye grass (*Lolium perenne*). Review of historic aerial photographs indicate that the subject property has been actively farmed since at least 1941. Berry Creek flows along the southern property boundary with Ranger Branch along the eastern edge.

3.2 Soils

The subject property is mapped within the Soil Survey of Williamson County (**Attachment C: Site Soils Map**) Soil survey data was utilized to establish the geomorphological setting and soil types present. Detailed soil map unit descriptions and soil characteristics were derived from information available in the online NRCS Web Soil Survey, and soil series locations were determined from information available in the online NRCS Soil Survey Geographic Database (SSURGO). The NRCS National Hydric Soils List was also used to identify the limits of mapped hydric soils within the subject property. The soil map units identified in the subject property and the characteristics of each soil map unit are provided in **Table 1.**

Table 1: Soil Units, Infiltration Characteristics, and Thickness

Soil Map Unit	Group	Thickness (feet)	Drainage Class	Permeability	Surface Runoff	Hydric
Austin silty clay, 1 to 3 percent slopes	D	2.42	Well drained	Low to moderately high	High	No
Austin-Whitewright complex, 2 to 6 percent slopes, eroded	D	2.42	Well drained	Low to moderately high	High	No
Castephen silty clay, 1 to 3 percent slopes	D	1.33	Well drained	Low to moderately high	Very high	No
Eckrant stony clay, 0 to 3 percent slopes, stony	D	0.92	Well drained	Moderately low to moderately high	Medium	No
Eckrant-Rock outcrop association, 1 to 10 percent slopes	D	0.92	Well drained	Moderately low to moderately high	Medium	No
Fairlie clay, 1 to 2 percent slopes	D	3.83	Moderately well drained	Very low to moderately low	Very high	No
Ferris-Heiden complex, 5 to 15 percent slopes, moderately eroded	D	5.00	Well drained	Very low to moderately low	Very high	No
Heiden clay, 2 to 5 percent slopes, moderately eroded	D	6.67	Well drained	Very low to moderately low	Very high	No
Houston Black clay, 1 to 3 percent slopes	D	6.67	Moderately well drained	Very low to moderately low	Very high	No
Houston Black clay, 3 to 5 percent slopes, moderately eroded	D	6.67	Moderately well drained	Very low to moderately low	Very high	No

Table 1: Soil Units, Infiltration Characteristics, and Thickness

Soil Map Unit	Group	Thickness (feet)	Drainage Class	Permeability	Surface Runoff	Hydric
Krum silty clay, 0 to 1 percent slopes	C	6.00	Well drained	Moderately high	Low	No
Krum silty clay, 1 to 3 percent slopes	C	6.00	Well drained	Moderately high	Medium	No
Oakalla silty clay loam, 0 to 2 percent slopes, occasionally flooded	B	6.67	Well drained	Moderately high to high	Negligible	No
Oakalla silty clay loam, 0 to 2 percent slopes, frequently flooded	B	6.67	Well drained	Moderately high to high	Negligible	No
Pits, quarries, 0 to 45 percent slopes	D	N/A	N/A	N/A	N/A	No
Queeny clay loam, 1 to 5 percent slopes	D	8.25	Well drained	Moderately low to moderately high	Medium	No
Sunev silty clay loam, 1 to 3 percent slopes	B	5.00	Well drained	Moderately high to high	Low	No

Source: SSURGO

3.3 Geology

The Llano Sheet of the Geologic Atlas of Texas was utilized to identify underlying geology. The geologic units present on the subject property have been identified as Alluvium, Buda Limestone, Eagle Ford Group, and Fluviatile terrace deposits (**Attachment D: Site Geologic Map**). The Alluvium and Fluviatile Terrace Deposits have a thickness that varies while the Buda Limestone has an approximate thickness of up to 45 feet, and the Eagle Ford Group has a thickness approximately between 25 to 65 feet. The lithology of Alluvium and Fluviatile Terrace Deposits includes gravel, sand, silt, and clay. The lithology of Buda Limestone is micritic limestone, and the lithology of Eagle Ford Group is shale and limestone. Due to weathering and the nature of alternating resistant and recessive beds, stairstep topography is commonly formed

Per review of published literature, one fault occurs on the subject property, it is mapped as a normal fault and is 0.2 miles in length on the northeast side of the subject property. This feature is discussed further in **Section 4**. The **Stratigraphic Column** outlining the geologic features on the subject property is provided below in **Table 2**. Alluvium, Fluviatile terrace deposits, and Buda Limestone were seen in the field.

Table 2: Stratigraphic Column

Age	Approximate Thickness	Geologic Unit
Quaternary	Varied thickness	Alluvium
	Varied thickness	Fluviatile terrace deposits
Upper Cretaceous	25 to 65 feet thick	Eagle Ford Group
	Up to 45 feet thick	Buda Limestone

Source: USGS 2022

3.4 Hydrogeologic Assessment

According to the National Hydrography Dataset, Berry Creek, a tributary of the Brazos River, flows across the southwestern boundary of the subject property. Six intermittent streams are also mapped on the subject property as tributaries of the creek. The elevation on the subject property range between approximately 600 feet above mean sea level (msl) to about 660 feet above msl.

No wells were identified on the subject property at the time of the site visits. However, the current owner indicated that there is a water well (MB-1) that services the old farmhouse found near the center of the subject property. Per review of data from TCEQ and the Texas Water Development Board (TWDB), two water wells are recorded within 500 feet of the subject property.

The subject property is located within the Edwards Aquifer Recharge Zone. U.S. Fish and Wildlife (USFWS) karst zone data obtained for Williamson County indicates that the subject property is mapped within Karst Zone 4. Karst Zone 4 is defined as an area which does not contain endangered cave fauna.

3.5 Endangered Species Act 4(d) Rule Compliance

Geologic assessments completed within the jurisdiction of the City of Georgetown are also required to consider the Endangered Species Act 4(d) Rule for the threatened Georgetown Salamander (*Eurycea naufragia*). Additional requirements include the identification of all springs and streams on the subject property. No springs were identified during the site visits within the subject property; however, six streams were identified and mapped. A stream buffer is established for all streams over the Edwards Aquifer Recharge Zone that drain more than 64 acres. Generally, the stream buffer coincides with the boundaries of the FEMA 1 percent floodplain or a calculated 1 percent floodplain, whichever is smaller. Three of the six streams present appear to drain over 64 acres. The 1 percent FEMA floodplain represents the stream buffer to comply with USFWS requirements (**Attachment E: Endangered Species Act 4(d) Rule Stream Buffer Map**).

Section 4 Feature Descriptions

BGE identified 16 geologic features within the subject property. Per the required calculations, none of these features are considered sensitive. Geologic features identified within the subject property are described below. Photographs were taken to characterize site conditions and the identified features (**Attachment F: Subject Property Photographs**).

Features CD-1 through 13 are non-karst closed depressions. These features consisted of root balls and animal burrows occurring within Alluvium, Eagle Ford Group, Buda Limestone, and Fluviatile terrace deposits. Mapped soils included various clays. These features were relatively small with diameters less than two feet. The infill material within the depressions consisted of organics (leaf litter, twigs, and other breakdown), roots, and moderately compacted clay-rich sediment. Due to the low infiltration rate and lack of connectivity to the subsurface, these features are not considered to be sensitive. Catchment areas were less than 1.6 acres.

MB-1 is a manmade feature (well) in bedrock mapped in the Buda Limestone. BGE was unable to identify the well while completing transects; however, the current owner indicated the well serviced the farmhouse in the center of the subject property. Infiltration is assumed to be low and was not determined to be sensitive. Additionally, the TWDB public water well viewer does not show any registered water wells within the subject property, so it is unknown how deep the well extends into the subsurface.

A solution-enlarged fracture (SF-1) was identified north of Ranger Branch in the southeastern portion of the subject property. The feature, approximately 35 feet wide and 147 feet long occurs within Buda Limestone. Fractures within the limestone were visible; however, infiltration appeared to be low with compacted clay infill. Changes in the surface tributary system appear to have minimized surface flow to this feature allowing infill and reducing water infiltration. The potential catchment area was above 1.6 acres; however, this does not appear to be a sensitive feature.

F-1 was identified as a normal fault approximately 0.2-mile in length occurring in the eastern portion of the subject property paralleling CR 140. As seen on aerials and noted during the site visit, this fault occurs within an agricultural field and no surface expression was seen. Normal faults occur when the hanging wall moves downward relative to the footwall. This feature was not determined to be sensitive due to the thickness of the overlaying Houston Black Clay and lack of surface visibility.

Section 5 Conclusion

Site visits to perform a GA for the Pinnacle Tract were conducted on May 24 through 26, 2022, and June 1, 2022, by BGE scientists, including a Texas License PG, over the approximate 577-acre subject property. BGE identified 16 geologic features (CD-1 – CD-13 F-1, SF-1, and MB-1). None of these features met the criteria to be considered sensitive features according to the TCEQ Instructions for Geologists standards. BGE recommends implementing the FEMA 100-year protective stream buffers on three of the delineated streams in order to comply with the Endangered Species Act 4(d) Rule for Threatened Georgetown Salamander for City of Georgetown UDC section 11.07.003.

Attachment A: Geologic Assessment Form

Geologic Assessment

Texas Commission on Environmental Quality

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.

Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.

Signature

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Crystal Hall

Telephone: (512) 879-0468

Date: 06/06/2022

Fax: (512) 879-0499

Representing: BGE, Inc. TBPG Registration #50560 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:

C Hall

C Hall
4/9/22

STATE OF TEXAS
CRYSTAL HALL
GEOLOGY
11409
LICENSED
PROFESSIONAL GEOSCIENTIST

Regulated Entity Name: Pinnacle Tract

Project Information

1. Date(s) Geologic Assessment was performed: May 24, 2022 and June 1, 2022
2. Type of Project:

   ☒ WPAP
   ☐ SCS
   ☐ AST
   ☐ UST

3. Location of Project:

   ☒ Recharge Zone
   ☐ Transition Zone
   ☐ Contributing Zone within the Transition Zone

4. ☒ **Attachment A - Geologic Assessment Table**. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

5. ☒ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

Soil Name	Group*	Thickness(feet)

Soil Name	Group*	Thickness(feet)
Please see Table 1 in the site geology report		

** Soil Group Definitions (Abbreviated)*

A. *Soils having a high infiltration rate when thoroughly wetted.*
B. *Soils having a moderate infiltration rate when thoroughly wetted.*
C. *Soils having a slow infiltration rate when thoroughly wetted.*
D. *Soils having a very slow infiltration rate when thoroughly wetted.*

6. ☒ **Attachment B – Stratigraphic Column**. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.

7. ☒ **Attachment C – Site Geology**. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☒ **Attachment D – Site Geologic Map(s)**. The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

   Applicant's Site Plan Scale: 1" = 600'
   Site Geologic Map Scale: 1" = 600'
   Site Soils Map Scale (if more than 1 soil type): 1" = 600'

9. Method of collecting positional data:

   ☒ Global Positioning System (GPS) technology.
   ☐ Other method(s). Please describe method of data collection: _____

10. ☒ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. ☒ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☒ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

    ☐ Geologic or manmade features were not discovered on the project site during the field investigation.

13. ☒ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☒ There are 1 (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☐ The wells are in use and comply with 16 TAC Chapter 76.

    ☐ There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

15. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

Attachment B: Geologic Assessment Table

GEOLOGIC ASSESSMENT TABLE

PROJECT NAME: Pinnacle Tract

LOCATION			FEATURE CHARACTERISTICS												EVALUATION			PHYSICAL SETTING		
1A	1B *	1C*	2A	2B	3	4			5	5A	6	7	8A	8B	9	10		11		12
FEATURE ID	LATITUDE	LONGITUDE	FEATURE TYPE	POINTS	FORMATION	DIMENSIONS (FEET)			TREND (DEGREES)	RQD	DENSITY (NO/FT)	APERTURE (FEET)	INFILL	RELATIVE INFILTRATION RATE	TOTAL	SENSITIVITY		CATCHMENT AREA (ACRES)		TOPOGRAPHY
						X	Y	Z		10						<40	>40	<1.6	>1.6	
CD-1	30.686973°N	-97.611537°W	CD	5	Ql	1	1	1.5	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-2	30.681027°N	-97.615527°W	CD	5	Ql	3	1	0.5	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-3	30.681438°N	-97.615478°W	CD	5	Ql	2	2	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-4	30.68215°N	-97.615375°W	CD	5	Kbu	3	3	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-5	30.681557°N	-97.614993°W	CD	5	Kbu	3	1	0.5	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-6	30.68158°N	-97.614835°W	CD	5	Kbu	1	0.5	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-7	30.680653°N	-97.614528°W	CD	5	Ql	3	1	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-8	30.676915°N	-97.613162°W	CD	5	Ql	1	0.5	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-9	30.677743°N	-97.613368°W	CD	5	Ql	2	1	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-10	30.677108°N	-97.62019°W	CD	5	Qal	1	0.5	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-11	30.677943°N	-97.621538°W	CD	5	Qal	1	1	0.5	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-12	30.680315°N	-97.626292°W	CD	5	Qal	1.5	1	1	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
CD-13	30.680558°N	-97.627935°W	CD	5	Qal	4	3	2	–	0	N/A	N/A	O,F	5	10	X		X		Hillside
F-1	30.685492°N	-97.614465°W	F	20	Ql	1056	-	-	–	0	N/A	N/A	F	5	25	X		X		Hillside
SF-1	30.682856°N	-97.610217°W	SF	20	Kbu	147	35	0.3	–	0	N/A	N/A	F	10	35	X			X	Streambed
MB-1	30.683192°N	-97.617682°W	MB	30	Kbu	1	1	-	–	0	N/A	N/A	N	5	35	X		X		Hillside

* DATUM: WGS84

5

2A TYPE	TYPE	2B POINTS
C	Cave	30
SC	Solution cavity	20
SF	Solution-enlarged fracture(s)	20
F	Fault	20
O	Other natural bedrock features	5
MB	Manmade feature in bedrock	30
SW	Swallow hole	30
SH	Sinkhole	20
CD	Non-karst closed depression	5
Z	Zone, clustered or aligned features	30

8A INFILLING	
N	None, exposed bedrock
C	Coarse - cobbles, breakdown, sand, gravel
O	Loose or soft mud or soil, organics, leaves, sticks, dark colors
F	Fines, compacted clay-rich sediment, soil profile, gray or red colors
V	Vegetation. Give details in narrative description
FS	Flowstone, cements, cave deposits
X	Other materials

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood, and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field.
My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Date: 06/06/2022

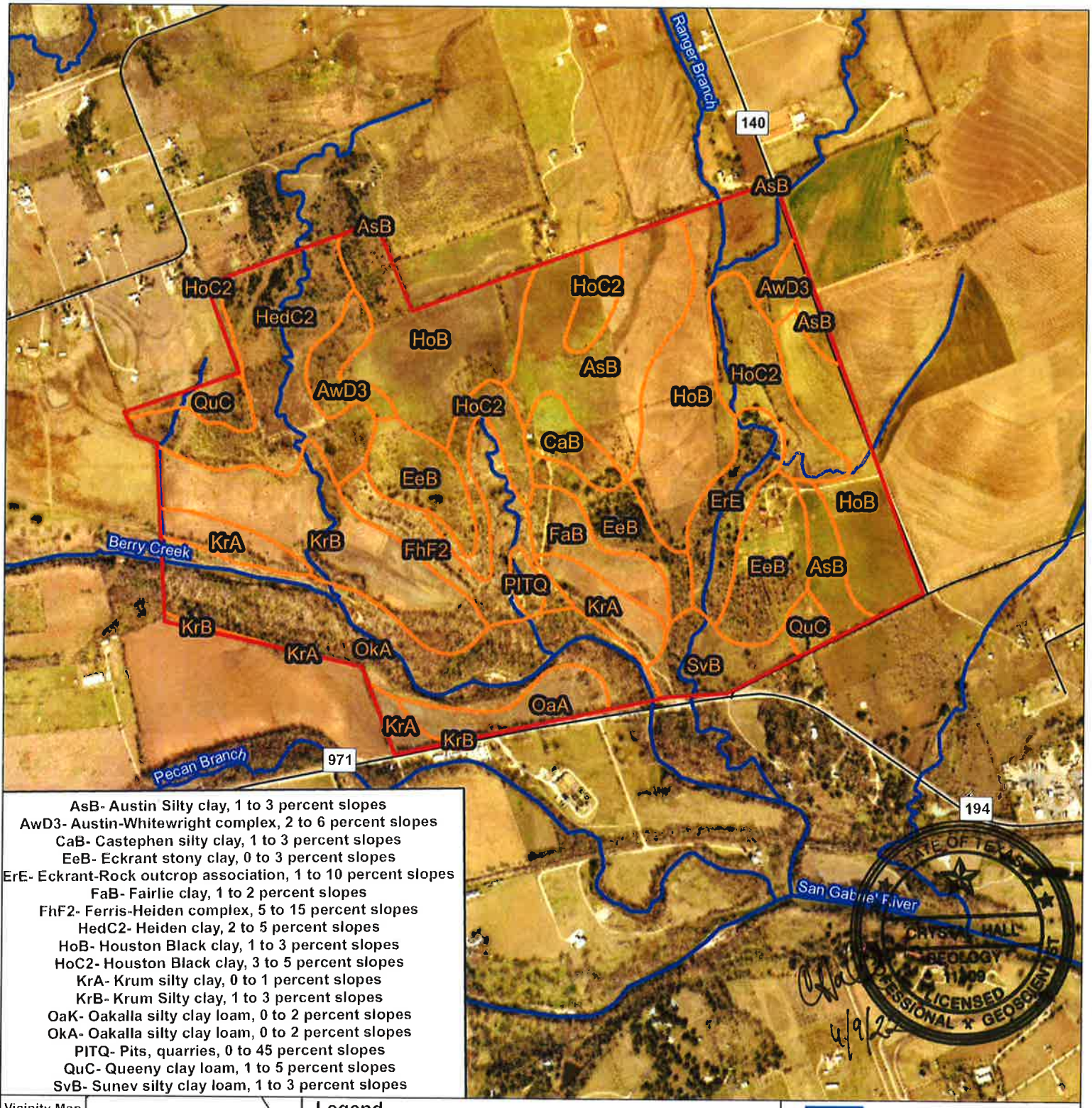
Sheet 1 of 1

TCEQ-0585-Table (Rev. 10-01-04)

STATE OF TEXAS
CRYSTAL HALL
GEOLOGY
11409
LICENSED
PROFESSIONAL GEOSCIENTIST

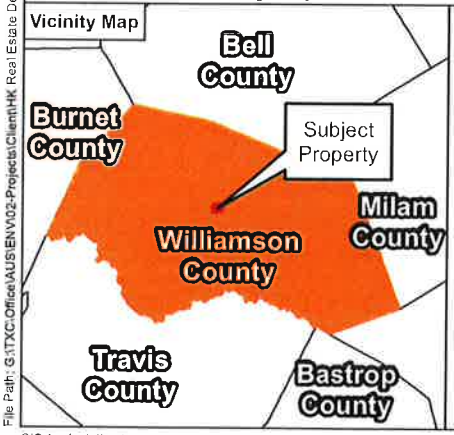
4/9/22

Appendix C: Site Soils Map



AsB- Austin Silty clay, 1 to 3 percent slopes
AwD3- Austin-Whitewright complex, 2 to 6 percent slopes
CaB- Castephen silty clay, 1 to 3 percent slopes
EeB- Eckrant stony clay, 0 to 3 percent slopes
ErE- Eckrant-Rock outcrop association, 1 to 10 percent slopes
FaB- Fairlie clay, 1 to 2 percent slopes
FhF2- Ferris-Heiden complex, 5 to 15 percent slopes
HedC2- Heiden clay, 2 to 5 percent slopes
HoB- Houston Black clay, 1 to 3 percent slopes
HoC2- Houston Black clay, 3 to 5 percent slopes
KrA- Krum silty clay, 0 to 1 percent slopes
KrB- Krum Silty clay, 1 to 3 percent slopes
OaK- Oakalla silty clay loam, 0 to 2 percent slopes
OkA- Oakalla silty clay loam, 0 to 2 percent slopes
PITQ- Pits, quarries, 0 to 45 percent slopes
QuC- Queeny clay loam, 1 to 5 percent slopes
SvB- Sunev silty clay loam, 1 to 3 percent slopes

Vicinity Map



Legend

- Subject Property
- Soils (NRCS)
- Stream (NHD)
- Roadways (TxDOT)

0 300 600
Feet

BGE, Inc.
101 West Louis Henna Blvd, Suite 400
Austin, TX 78728
Tel: 512-879-0400 Fax: 512-879-0499
www.bgeinc.com

Pinnacle Tract

Site Soils Map
Williamson County, TX

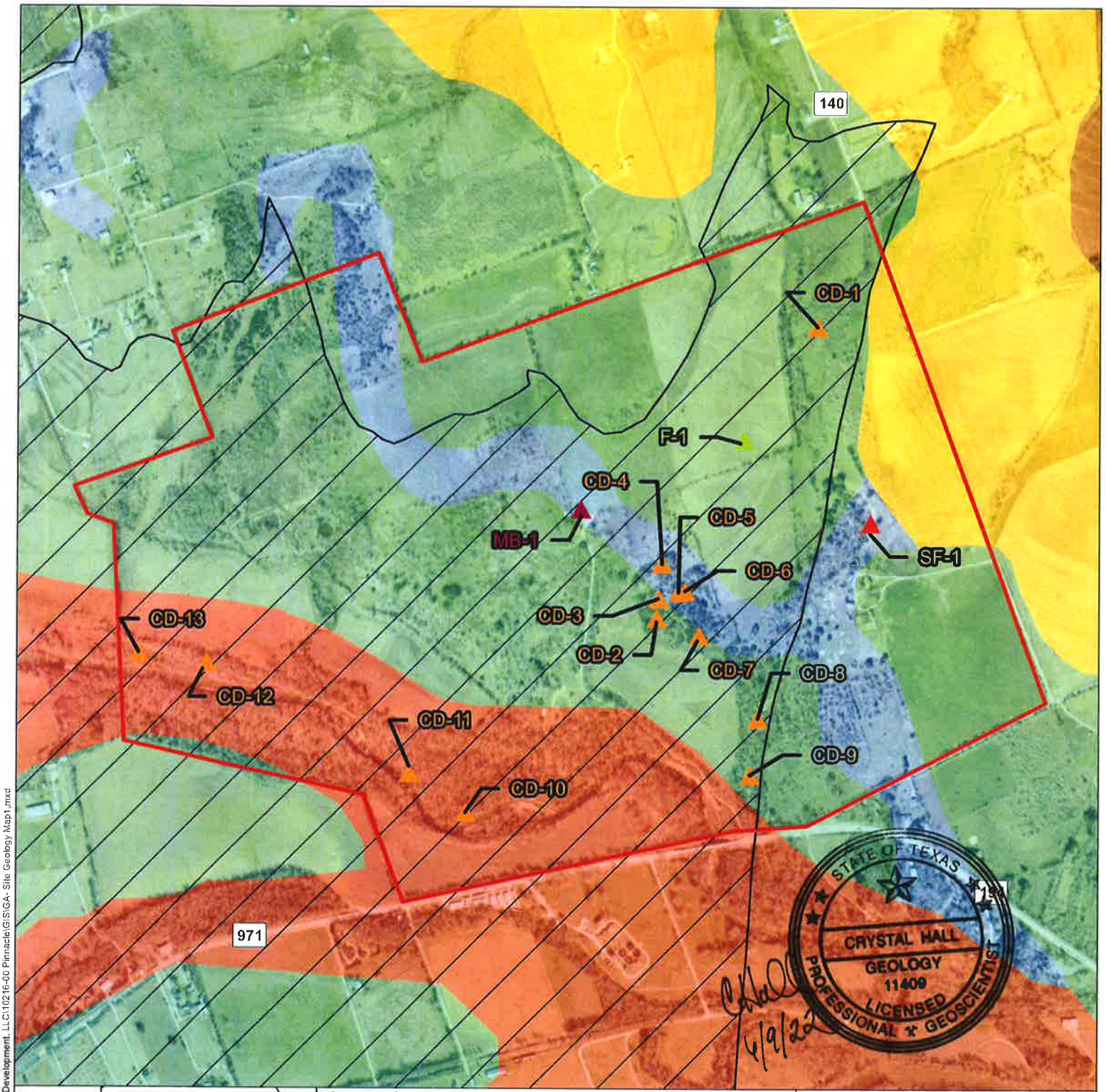
Date: June 2022 | Proj. No: 10216-00

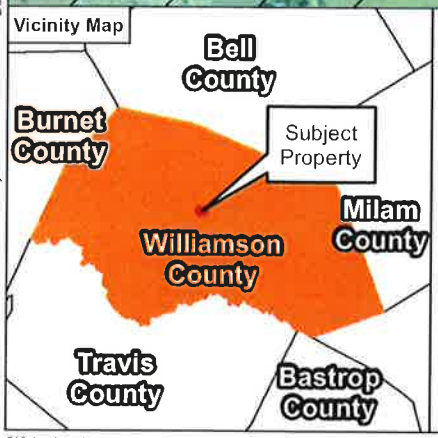
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GIS Analyst: lbach

Data Source: ESRI 2022, FEMA 2021, NHD 2021, NWI 2021, TxDOT 2021

Attachment D: Site Geologic Map





Legend

- Subject Property
- Fault (F)
- Solution-enlarged fracture (SF)
- Non-karst closed depression (CD)
- Manmade feature in bedrock (MB)
- Edwards Aquifer Recharge Zone
- Buda Limestone (Kbu)
- Eagle Ford Group (Kef)
- Alluvium (Qal)
- Fluviatile Terrace Deposits (Qt)

N

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Feet

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Austin, TX 78728
Tel: 512-879-0400 Fax: 512-879-0499
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Site Geologic Map

Williamson County, TX

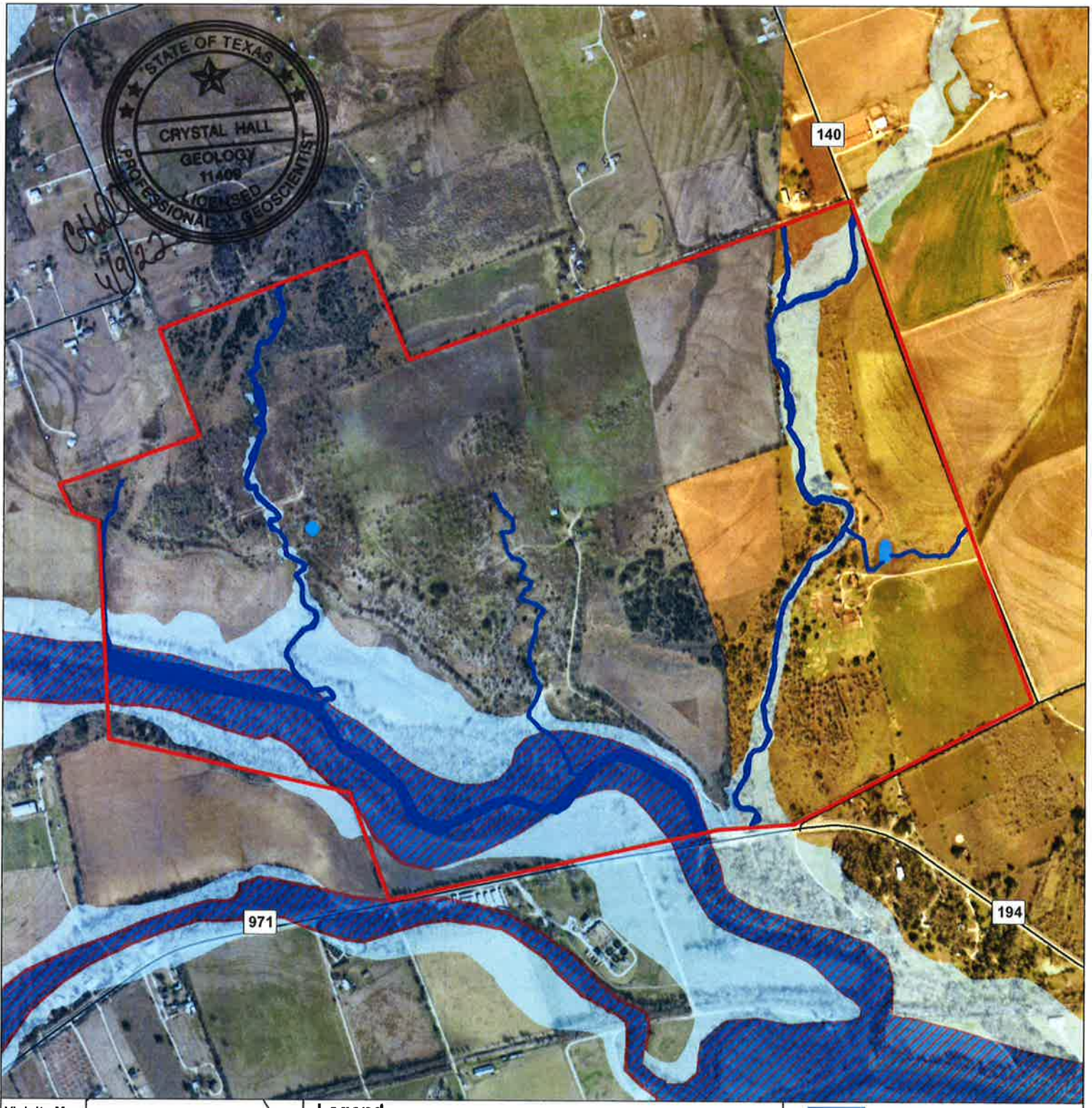
Date: June 2022 | Proj. No: 10216-00

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GIS Analyst: tbach

Data Source: ESRI 2022, TxDOT 2021

Attachment E: Endangered Species Act 4(d) Rule Stream Buffer Map





Legend

- Subject Property
- Stream
- Pond
- Floodway
- 100-yr Floodplain
- Georgetown Extraterritorial Jurisdiction Boundary
- Roadways (TxDOT)

N

0 300 600
Feet

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Endangered Species Act 4 (d) Rule Stream Buffer Map

Williamson County, TX

Date: June 2022 | Proj. No: 10216-00

File Path: G:\TXC\Office\AUS\ENV\02-Projects\Client\HK Real Estate Development, LLC\10216-00 Pinnacle\GIS\GA - Endangered Species Act 4(d) Rule Stream Buffer Mapp.mxd

GIS Analyst: Ibach

Data Source: ESRI 2022, TxDOT 2021

Attachment F: Subject Property Photographs

Subject Property Photographs

Pinnacle Geological Assessment
Client: HK Real Estates Development, LLC
10241-00



Photograph 1: Facing south, view of an animal burrow, non- karst closed depression 1 (CD-1) found on the northeast side of the subject property.



Photograph 2: Facing north, view of a non-karst closed depression (CD-2) found near the center of the subject property.

Pinnacle Geological Assessment
Client: HK Real Estates Development, LLC
10241-00



Photograph 3: Facing south, view of a root ball (CD-3) found near the center of the subject property.



Photograph 4: Facing south, view of a root ball (CD-4) found near the center of the subject property.



Photograph 5: Facing south, view of a non-karst closed depression (CD-5) found near the center of the subject property.



Photograph 6: Facing south, view of a non-karst closed depression (CD-6) found near the center of the subject property.



Photograph 7: Facing south, view of non-karst closed depression (CD-7) found near the center of the subject property.



Photograph 8: Facing south, view of an animal burrow (CD-8) found on the southern side of the subject property.



Photograph 9: Facing west, view of an animal burrow (CD-9) found on the southern side of the subject property.



Photograph 10: Facing south, view of an animal burrow (CD-10) found on the southwestern side of the subject property.



Photograph 11: Facing south, view of an animal burrow (CD-11) found on the southwestern side of the subject property.



Photograph 12: Facing north, view an animal burrow (CD-12) found on the western side of the subject property.



Photograph 13: Facing north, view of a root ball (CD-13) found on the western side of the subject property.



Photograph 14: Facing east, view of a solution-enlarged fracture (SF-1) found along Ranger Branch on the eastern side of the subject property.



Photograph 15: Facing north, view of conglomerate outcropping found on the western side of the subject property.



Photograph 16: Facing north, view of heron rookery found on the southern side of the subject property and along Berry Creek.



Photograph 17: Facing south, view of cracked bedrock found along Ranger Branch on the southeastern side of the subject property.



Photograph 18: Facing southwest, view of deep soils found near the banks of Berry Creek.

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

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
TLAP Map

WEIR QUADRANGLE
TEXAS - WILLIAMSON
7.5-MINUTE TOPO

-97.6250° 30.7500° 632 000mE 33 34 35 36 37 38 39 40 41 42 43 -97.5000° 30.7500°

3402 000mN

Well ID No. 5820407
Disposal Areas
Well ID No. 430044
Well ID No. 630209
Well ID No. 554374
Well ID No. 417846
Well ID No. 160668
Effluent Storage Ponds
1-mile from Disposal Areas
WRRF with 150' Buffer Zone
Applicant Property
0.5-mile from Disposal Areas
More than 500' from Disposal Areas
Well ID No. 42884
Well ID No. 161447
Well ID No. 104852
Well ID No. 42877
More than 150' from Disposal Areas
Well ID No. 358914
Well ID No. 626339
Well ID No. 23620
Wells 2, 5, 6 will be plugged
More than 150' from Disposal Areas

Walburg
Zion Lutheran Cemetery
Saint Peters Lutheran Church Cemetery
Weir
Old Weir
Queen Cemetery
Queen Hill
Salyer Cemetery
Peace - Towns Cemetery
Bar 3 Ranch Airport
Magee Cemetery
Jonah
Jonah Cemetery
Yoes Cemetery
Cross Country Estates
Marshall Field
Manske Branch Spring
Opossum Cr
Yankee Br
Weir Br
San Gabriel River
East Fork Rabbs Fork
Pecan Br
Millham Br
Big House Br

CO RD 316 · CO RD 317 · CO RD 324 · CO RD 330 · CO RD 331 · CO RD 342 · CO RD 320 · CO RD 329 · CO RD 328 · CO RD 327 · CO RD 333 · CO RD 342 · CO RD 141 · CO RD 162 · CO RD 149 · CO RD 152 · CO RD 153 · CO RD 156 · CO RD 161 · CO RD 154 · CO RD 157 · CO RD 158 · CO RD 159 · CO RD 124 · CO RD 126 · CO RD 127 · CO RD 191 · CO RD 121 · CO RD 120 · CO RD 103 · CO RD 192 · CO RD 106 · CO RD 100 · CO RD 130 · CO RD 167 · CO RD 168 · CO RD 169 · CO RD 171 · CO RD 172 · CO RD 173 · CO RD 174 · CO RD 175 · CO RD 176 · CO RD 177 · CO RD 178 · CO RD 179 · CO RD 180 · CO RD 181 · CO RD 182 · CO RD 183 · CO RD 184 · CO RD 185 · CO RD 186 · CO RD 187 · CO RD 188 · CO RD 189 · CO RD 190 · CO RD 191 · CO RD 192 · CO RD 193 · CO RD 194 · CO RD 195 · CO RD 196 · CO RD 197 · CO RD 198 · CO RD 199 · CO RD 200 · CO RD 201 · CO RD 202 · CO RD 203 · CO RD 204 · CO RD 205 · CO RD 206 · CO RD 207 · CO RD 208 · CO RD 209 · CO RD 210 · CO RD 211 · CO RD 212 · CO RD 213 · CO RD 214 · CO RD 215 · CO RD 216 · CO 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FM 972 · REDOND DR · GREEN ACRES · TWIN CREEK DR · POLO BEND · MILLER HILL RD · GROVE LN · WEST HILL DR · PVT RD 915 · TOWNS HILL RD · PVT RD 932 · PVT RD 934 · PVT RD 933 · HARPER RANCH RD · STOWNS HILL RD · RIVER VALLEY DR · BUSK LN · BUBBY XING · EASTVIEW DR · RICHEY HILL RD · SCURLOCK FARMS RD · COURTNEES WAY · WILD OAK TRL · HERITAGE LOOP · GABRIEL FARMS DR · MCSHEPHERD DR · GRIST MILL LOOP · OLD HWY 29 · PM 1660 · CLEAR CREEK DR · REDBIRD RD

01 PV 00 PU 99 98 97 96 95 94 93 92 91 90 89

3390 000mN

30.6250° -97.6250° 32 33 34 35 36 37 38 39 40 41 42 643 000mE -97.5000° 30.6250°

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R

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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

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

MN GN
3°5′ 55 MILS
0°44′ 13 MILS
UTM GRID AND 2025 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PV
3400
PU
Grid Zone Designation
14R

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

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

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

Cobbs Cavern	Jarrell	Bartlett
Georgetown	Weir	Granger
Round Rock	Hutto	Taylor

ADJOINING QUADRANGLES

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

WEIR, TX
2025

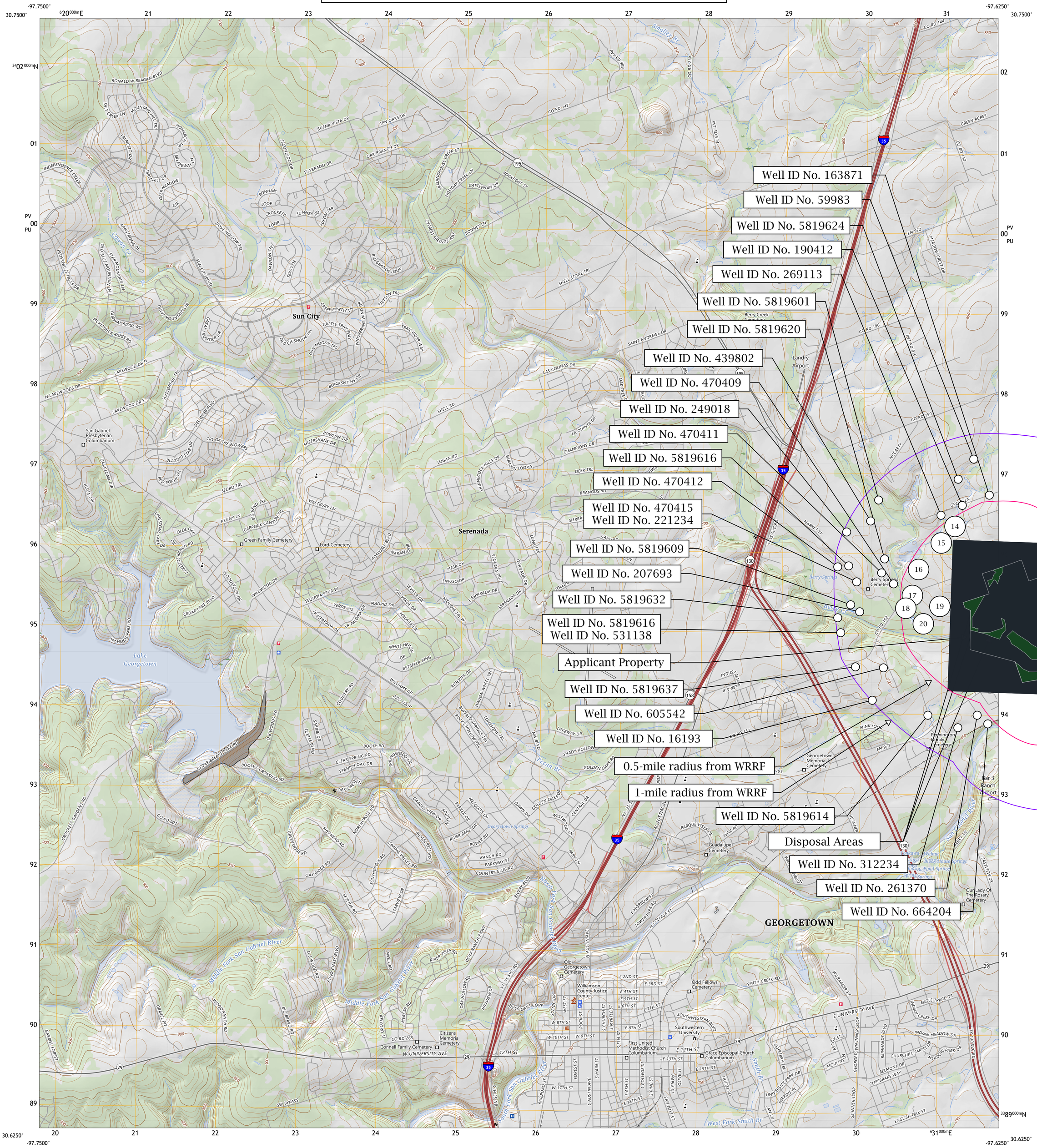
j&a WASTEWATER

USGS
science for a changing world

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

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
TLAP Map

GEORGETOWN QUADRANGLE
TEXAS - WILLIAMSON
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

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

MN
GN
3°9′ 56 MILS
0°40′ 12 MILS
UTM GRID AND 2025 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PV
34 00
PU
Grid Zone Designation
14R

SCALE 1:24 000

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

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

USER DEFINED CONTENT

TEXAS
QUADRANGLE LOCATION

Florence	Cobbs Cavern	Jarrell
Leander NE	Georgetown	Weir
Leander	Round Rock	Hutto

ADJOINING QUADRANGLES

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

GEORGETOWN, TX
2025

J&A WASTEWATER

Table 3.0(3) Water Well Data

The following information is from
https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer (September 2025)

Map Label	Well ID	Well Use	Producing (Y/N)	Open, cased, capped, or plugged	Proposed Best Management Practice
1	312194	Domestic	Y	Cased	Buffer Requirement will be met
2	666734	Monitor	Y	Cased	Will be plugged
3	5820412	Domestic	Y	Cased	Buffer Requirement will be met
4	5820402	Domestic	Y	Cased	Buffer Requirement will be met
5	682361	Irrigation	Y	Cased	Will be plugged
6	666730	Monitor	Y	Cased	Will be plugged
7	680323	Monitor	Y	Cased	Buffer Requirement will be met
8	5820409	Domestic	Y	Cased	Buffer Requirement will be met
	5820410	Domestic	Y	Cased	Buffer Requirement will be met
	5820411	Domestic	Y	Cased	Buffer Requirement will be met
9	42881	Domestic	Y	Cased	Buffer Requirement will be met
10	211452	Domestic	Y	Cased	Buffer Requirement will be met
	482314	Domestic	Y	Cased	Buffer Requirement will be met
11	300968	Domestic	Y	Cased	Buffer Requirement will be met
12	429395	Domestic	Y	Cased	Buffer Requirement will be met
13	5819618	Domestic	Y	Cased	Buffer Requirement will be met
	271607	Domestic	Y	Cased	Buffer Requirement will be met
14	163934	Domestic	Y	Cased	Buffer Requirement will be met
15	416497	Domestic	Y	Cased	Buffer Requirement will be met
16	536278	Monitor	Y	Cased	Buffer Requirement will be met
17	516675	Domestic	Y	Cased	Buffer Requirement will be met
18	470407	Monitor	Y	Cased	Buffer Requirement will be met
19	391926	Domestic	Y	Cased	Buffer Requirement will be met
20	470405	Monitor	Y	Cased	Buffer Requirement will be met

STATE OF TEXAS PLUGGING REPORT for Tracking #16193

Owner:	**TXDOT - AUSTIN DIST.**	Owner Well #:	**No Data**
Address:	**1421 WELLS BRANCH BLDG 1 STE 107 PFLUGERVILLE, TX 78660**	Grid #:	**58-19-6**
		Latitude:	**30° 40' 23" N**
Well Location:	**GEORGETOWN, TX**	Longitude:	**097° 38' 31" W**
		Elevation:	**No Data**
Well County:	**Williamson**		

Well Type: **Withdrawal of Water**

Drilling Information

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

Borehole: **No Data**

Plugging Information

Date Plugged: **2/20/2004** Plugger: **PAUL MCANEAR**

Plug Method: **See Comments**

Variance Number: **051-04**

Casing Left in Well:

DIa (in.)	*Top (ft.)*	*Bottom (ft.)*
6.625	**5**	**120**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
5	**45**	**10 CU/FT CEM**
45	**50**	**1 CU/FT BEN**
50	**165**	**39 CU/FT GRAVEL**

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

Company Information: **WEST TEXAS WATER WELL**

3410 MANKINS
ODESSA, TX 79764

Driller Name: **PAUL MCANEAR** License Number: **4469**

Comments: **EDWARDS WELL, VARIANCE REQUEST FILED TO FILL WITH GRAVEL, AND PLACE BENTONITE & CEMENT SEAL**

DG

STATE OF TEXAS PLUGGING REPORT for Tracking #160668

Owner:	**STEVEN D TURNER**	Owner Well #:	**No Data**
Address:	**1021 COUNTY ROAD 140 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**1021 COUNTY ROAD 140 GEORGETOWN, TX 78626**	Latitude:	**30° 41' 24" N**
		Longitude:	**097° 36' 36" W**
Well County:	**Williamson**	Elevation:	**No Data**

Well Type: **Withdrawal of Water**

Drilling Information

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

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

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**30**	**0**	**24**

Plugging Information

Date Plugged: **7/16/2016** Plugger: **STEVEN D TURNNER-WELL OWNER**

Plug Method: **Large diameter well filled with clay material from top to bottom**

Casing Left in Well:

DIa (in.)	*Top (ft.)*	*Bottom (ft.)*
30	**3**	**18**

Plug(s) Placed in Well:

Top (ft.)	*Bottom (ft.)*	*Description (number of sacks & material)*
3	**24**	**CLAY**

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

Company Information: **Landowner Plugged**
1021 COUNTY ROAD 140
GEORGETOWN, TX 78626

Driller Name: **STEVEN D TURNER.** License Number: **N/A**

Comments: **Well was 24' deep, 30" concrete casing went to a depth of 18'. Removed casing 3' below ground level. Filled (after disinfecting) w/clay material.**

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-601

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819601
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.695556
Latitude (degrees minutes seconds)	30° 41' 44" N
Longitude (decimal degrees)	-97.641111
Longitude (degrees minutes seconds)	097° 38' 28" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	660
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	100
Well Depth Source	Person Other than Owner
Drilling Start Date	
Drilling End Date	0/0/1950
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Irrigation
Water Level Observation	None
Water Quality Available	Yes
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Mrs. N.L. Mann
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	10/29/1965
Last Update Date	3/4/2020

Remarks	Owner's #1 well. Reported flow 20 GPM in 1965.

Casing

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

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 1/17/1961 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: U.S. Geological Survey Lab **Reliability:** Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		267.21	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		326.09	mg/L	
00910	CALCIUM (MG/L)		99	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		18	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		308	mg/L as CACO3	
01045	IRON, TOTAL (UG/L AS FE)	<	10	ug/L	
00920	MAGNESIUM (MG/L)		15	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		29	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		6.9	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		1.1	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		11	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.24		
00932	SODIUM, CALCULATED, PERCENT		6	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		9.8	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		623	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		15	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		358	mg/L	

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

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-601

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-609

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819609
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.683889
Latitude (degrees minutes seconds)	30° 41' 02" N
Longitude (decimal degrees)	-97.644722
Longitude (degrees minutes seconds)	097° 38' 41" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	664
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Spring
Well Use	Stock
Water Level Observation	None
Water Quality Available	Yes
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Williamson County Berry Spring
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	304113097390101
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	Berry Springs
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	10/31/2002
Last Update Date	3/4/2020

Remarks	Berry Springs. Located in William- son county park on Berry Creek. Reported flowed 13 cfs in 1964. Measured flow 4.6 cfs in 10-31-02. At Aquatic viewing area.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 2/23/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other State Agencies

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: Laboratory Unknown **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: BEG(S4)N.Edwards Recharge 1987

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		348	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		424.68	mg/L	
00910	CALCIUM (MG/L)		101	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		14	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.38	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		316	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		15.5	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		16.3	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.35	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		1.6	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.65		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.23		
00932	SODIUM, CALCULATED, PERCENT		6	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		9.43	mg/L	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		220	ug/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		16.2	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		21.1	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		383	mg/L	
07017	TRITIUM, TOTAL (TRITIUM UNITS)		9.2	TU	0.3

Water Quality Analysis

Sample Date: 3/4/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other State Agencies

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: Laboratory Unknown **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: BEG(S8)N.Edwards Recharge 1987

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		348	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		424.68	mg/L	
00910	CALCIUM (MG/L)		99.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		14	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.38	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		311	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		15.2	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		16.3	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.51	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		1.3	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.74		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.22		
00932	SODIUM, CALCULATED, PERCENT		5	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		8.76	mg/L	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		220	ug/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		16.1	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		20.8	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		380	mg/L	
07017	TRITIUM, TOTAL (TRITIUM UNITS)		9.4	TU	0.4

Water Quality Analysis

Sample Date: 6/18/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Other State Agencies

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: Laboratory Unknown **Reliability:** From a report; unknown sample collection & preservation

Collection Remarks: BEG(S12)NEdwardsRecharge1987

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		344	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		419.8	mg/L	
00910	CALCIUM (MG/L)		101	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		14	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.4	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		312	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		14.7	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		18	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.38	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		1.6	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.63		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.24		
00932	SODIUM, CALCULATED, PERCENT		6	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		9.8	mg/L	
01080	STRONTIUM, DISSOLVED (UG/L AS SR)		200	ug/L	
00945	SULFATE, TOTAL (MG/L AS SO4)		14	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		20.5	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		380	mg/L	
07017	TRITIUM, TOTAL (TRITIUM UNITS)		9.6	TU	0.4

Water Quality Analysis

Sample Date: 10/31/2002 **Sample Time:** 1520 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: West side of pooled area,sprng

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
39086	ALKALINITY FIELD DISSOLVED AS CACO3		289	mg/L as CACO3	
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		280	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		341.69	mg/L	
00915	CALCIUM, DISSOLVED (MG/L AS CA)		99.6	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00941	CHLORIDE, DISSOLVED (MG/L AS CL)		17.3	mg/L	
82081	DELTA CARBON 13 C13/C12 PER MIL		-12.1	0/00	
50791	DEUTERIUM, EXPRESSED AS PERMIL VSMOW		-26	0/00	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		313	mg/L as CACO3	
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		15.6	mg/L	
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		1.98	mg/L as N	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		8.59	mg/L as NO3	
00631	NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		1.94	mg/L as N	
50790	OXYGEN-18, EXPRESSED AS PERMIL VSMOW		-4.4	0/00	
00400	PH (STANDARD UNITS), FIELD		7.08	SU	
00935	POTASSIUM, DISSOLVED (MG/L AS K)		1.4	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.28		
00932	SODIUM, CALCULATED, PERCENT		7	PCT	
00930	SODIUM, DISSOLVED (MG/L AS NA)		11.4	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		711	MICR	
00946	SULFATE, DISSOLVED (MG/L AS SO4)		16.9	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		20.9	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		339	mg/L	
07012	TRITIUM IN WATER (TRITIUM UNITS)		2.44	TU	0.25

Water Quality Analysis

Sample Date: 5/8/2008 **Sample Time:** 1025 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: Anacon, Inc **Reliability:** Sampled using TWDB protocols

Collection Remarks: Iso only, Grab from channel

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
28004	CARBON-14 DISS APPARENT AGE (YEARS BP)		420	Y-BP	40
82172	CARBON-14 FRACTION MODERN		0.9486		0.0047
82081	DELTA CARBON 13 C13/C12 PER MIL		-11.8	0/00	
00400	PH (STANDARD UNITS), FIELD		7.04	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		635	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		20.7	C	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-614

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819614
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.671389
Latitude (degrees minutes seconds)	30° 40' 17" N
Longitude (decimal degrees)	-97.634167
Longitude (degrees minutes seconds)	097° 38' 03" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218GLRS - Glen Rose Limestone
Aquifer	Trinity
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	660
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	675
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	0/0/1979
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	Rubin Lehman
Driller	Thomas Arnold
Other Data Available	Gamma Ray; Neutron
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	1/8/1980
Last Update Date	3/4/2020

Remarks	Open hole from 290 to 675 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
5	Blank	Plastic (PVC)			0	290
	Open Hole				290	675

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

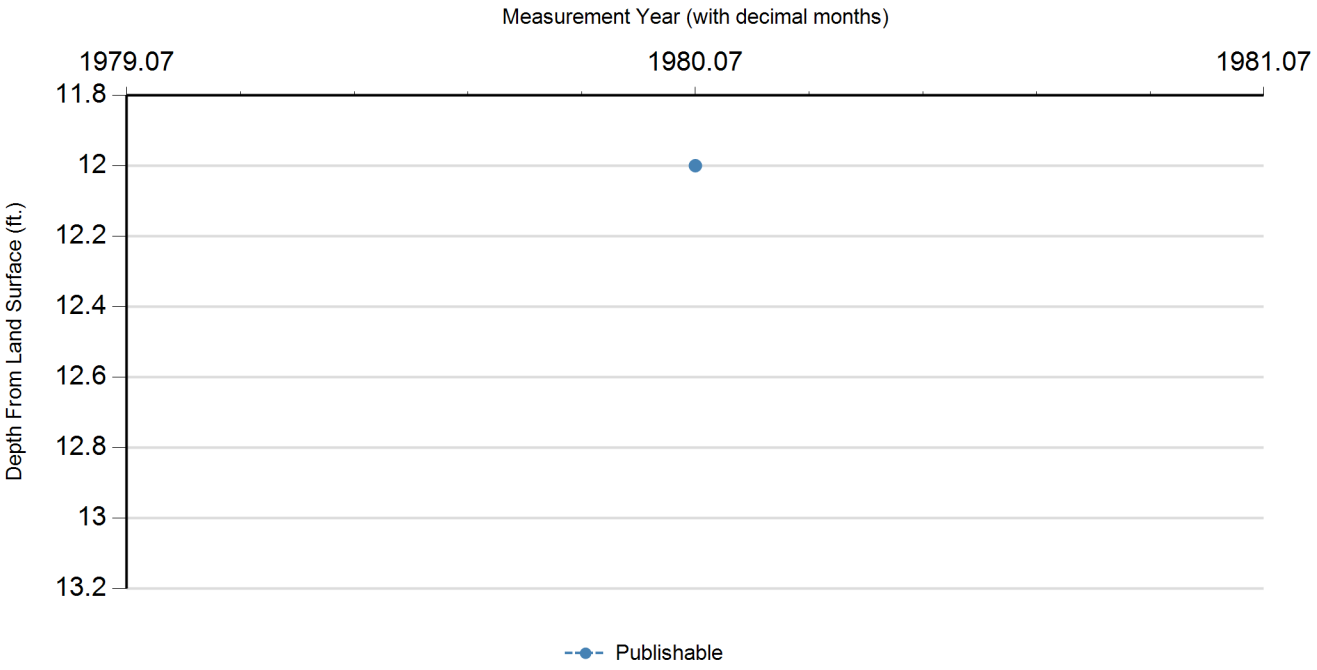
Borehole - No Data

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	12/0/1979		12		648	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (https://www.twdb.texas.gov/groundwater/data/gwdbrpt.asp) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-616

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819616
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.680833
Latitude (degrees minutes seconds)	30° 40' 51" N
Longitude (decimal degrees)	-97.646111
Longitude (degrees minutes seconds)	097° 38' 46" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	661
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	270
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	1/28/1985
Drilling Method	
Borehole Completion	

Well Type	Test Hole
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Georgetown Klein #1
Driller	Wright Water Wells
Other Data Available	Drillers Log; Gamma Ray; Neutron
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1985
Last Update Date	3/4/2020

Remarks	Owner's Test #1.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank				0	20
	Open Hole				20	270

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-618

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819618
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.694722
Latitude (degrees minutes seconds)	30° 41' 41" N
Longitude (decimal degrees)	-97.628055
Longitude (degrees minutes seconds)	097° 37' 41" W
Coordinate Source	+/- 10 Seconds
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	715
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	294
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	1/30/1985
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	None
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Georgetown Rutledge #3
Driller	Wright Water Wells
Other Data Available	Drillers Log; Gamma Ray; Neutron
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1985
Last Update Date	3/4/2020

Remarks	

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank				0	20
	Open Hole				20	294

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-619

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819619
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.688334
Latitude (degrees minutes seconds)	30° 41' 18" N
Longitude (decimal degrees)	-97.644722
Longitude (degrees minutes seconds)	097° 38' 41" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	691
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	220
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	3/18/1985
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	
Surface Completion	
Owner	Chisholm Trail WSC Domel #2
Driller	Tom Arnold
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	G2460001N
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/6/1987
Last Update Date	3/4/2020

Remarks	Owner's #2 well. Cemented from 0 to 100 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
12	Blank	Steel			0	100
	Open Hole				100	220

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

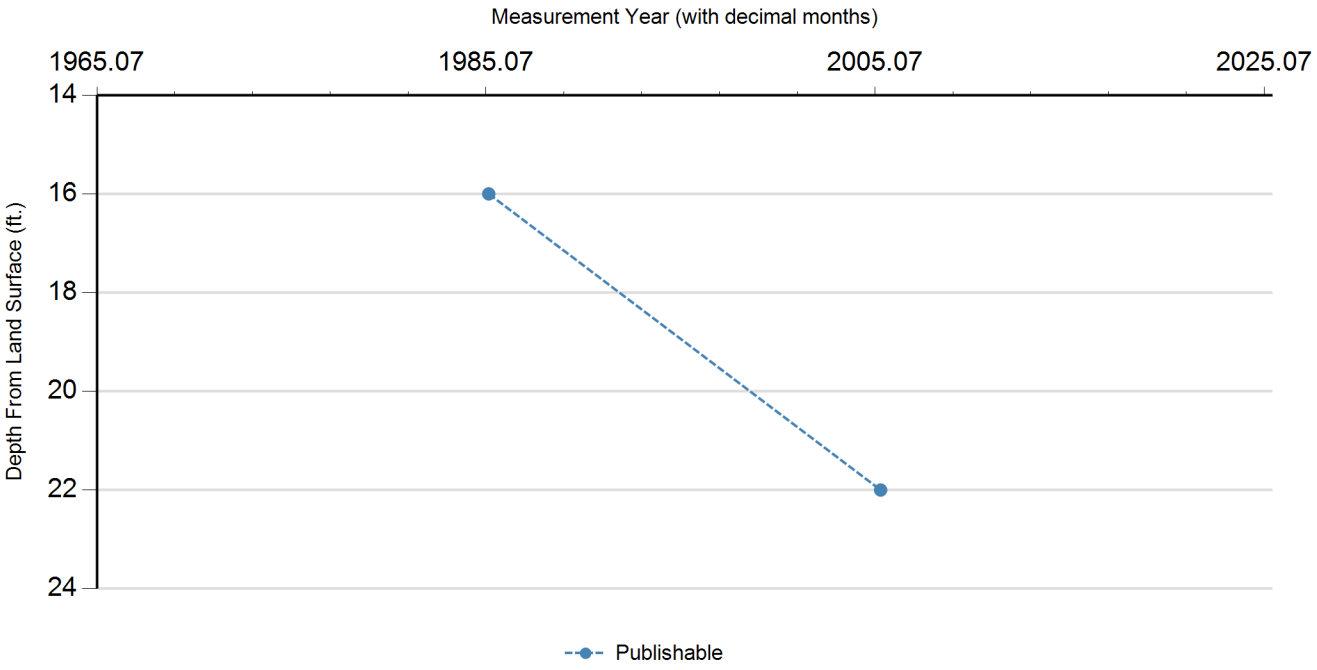
Borehole - No Data

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	3/18/1985		16		675	1	Texas Water Development Board	Steel Tape		
P	5/10/2005		22	6.00	669	1	U.S. Geological Survey	Electric Line		

Code Descriptions

Status Code	Status Description
P	Publishable

Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 58-19-619

Water Quality Analysis

Sample Date: 10/28/1985 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Municipal Water Agency or Public Water Supply Corp

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: raw supply

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		363	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		442.99	mg/L	
00910	CALCIUM (MG/L)		94	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		175	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		1.1	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		333	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		24	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		11.02	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		8.2	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.6		
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		3.05		
00932	SODIUM, CALCULATED, PERCENT		45	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		128	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		1296	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		8	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		658	mg/L	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-620

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819620
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.689167
Latitude (degrees minutes seconds)	30° 41' 21" N
Longitude (decimal degrees)	-97.640278
Longitude (degrees minutes seconds)	097° 38' 25" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	685
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	200
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	3/22/1985
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	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Chisholm Trail WSC Domel #1
Driller	Tom Arnold
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	G2460001M
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	5/6/1987
Last Update Date	3/4/2020

Remarks	Owner's #1 well. Reported yield 2100 GPM. Cemented from 0 to 100 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
12	Blank	Steel			0	100
12	Open Hole				100	200

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

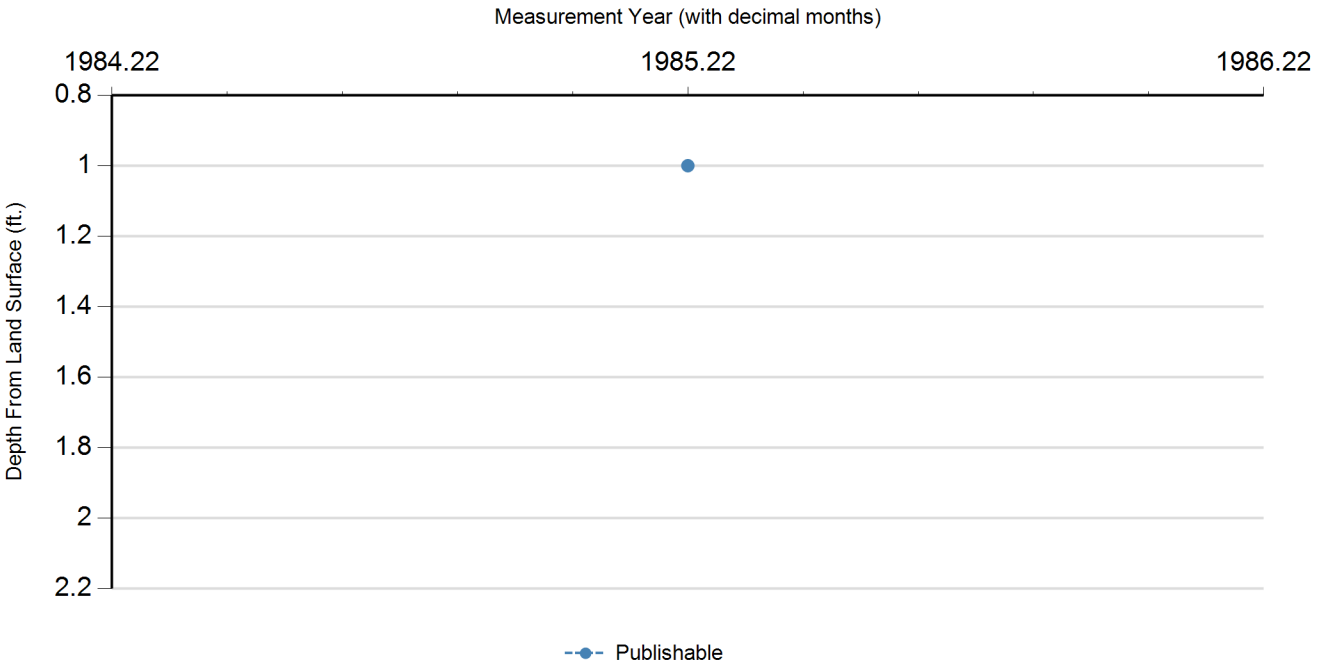
Borehole - No Data

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	3/22/1985		1		684	1	Texas Water Development Board	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-624

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819624
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.697778
Latitude (degrees minutes seconds)	30° 41' 52" N
Longitude (decimal degrees)	-97.630555
Longitude (degrees minutes seconds)	097° 37' 50" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	715
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	240
Well Depth Source	Owner
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	W C Alff
Driller	Bert Arnold
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	10/20/1986
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

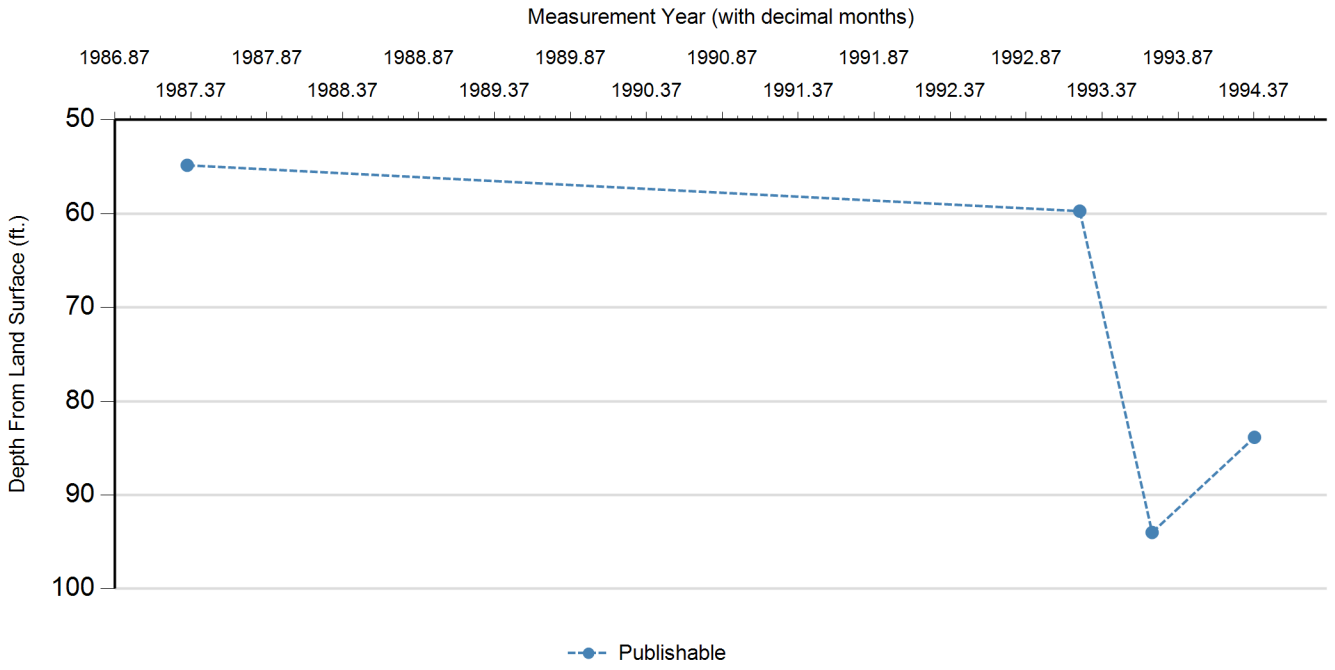
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	5/8/1987		54.84		660.16	1	U.S. Geological Survey	Steel Tape		
P	3/23/1993		59.73	4.89	655.27	1	U.S. Geological Survey	Steel Tape		
P	9/17/1993		94	34.27	621	1	U.S. Geological Survey	Air Line		
P	5/18/1994		83.85	(10.15)	631.15	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 2/17/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.1	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		536	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	

Water Quality Analysis

Sample Date: 8/12/1988 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: open filr rept 92-160 usgs

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.2	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		530	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-624

Water Quality Analysis

Sample Date: 9/13/1990 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards and Associated Limestones

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.6	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		561	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-632

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819632
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.6825
Latitude (degrees minutes seconds)	30° 40' 57" N
Longitude (decimal degrees)	-97.646945
Longitude (degrees minutes seconds)	097° 38' 49" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	665
Land Surface Elevation Method	Digital Elevation Model -DEM
Well Depth (feet below land surface)	225
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	4/26/1993
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	Jonah Water Supply Water Plant #12
Driller	Harrison Drilling
Other Data Available	Drillers Log; Specific Capacity
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	3/21/2000
Last Update Date	3/4/2020

Remarks	Owner's Water Plant #12. Reported yield 700 GPM with 112 feet draw- down after pumping 4 hours in 1994. Specific capacity 6.25 GPM/ft. Cemented from 0 to 160 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
16	Blank	Steel			0	10
10	Blank	Steel			0	160
10	Open Hole				160	225

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

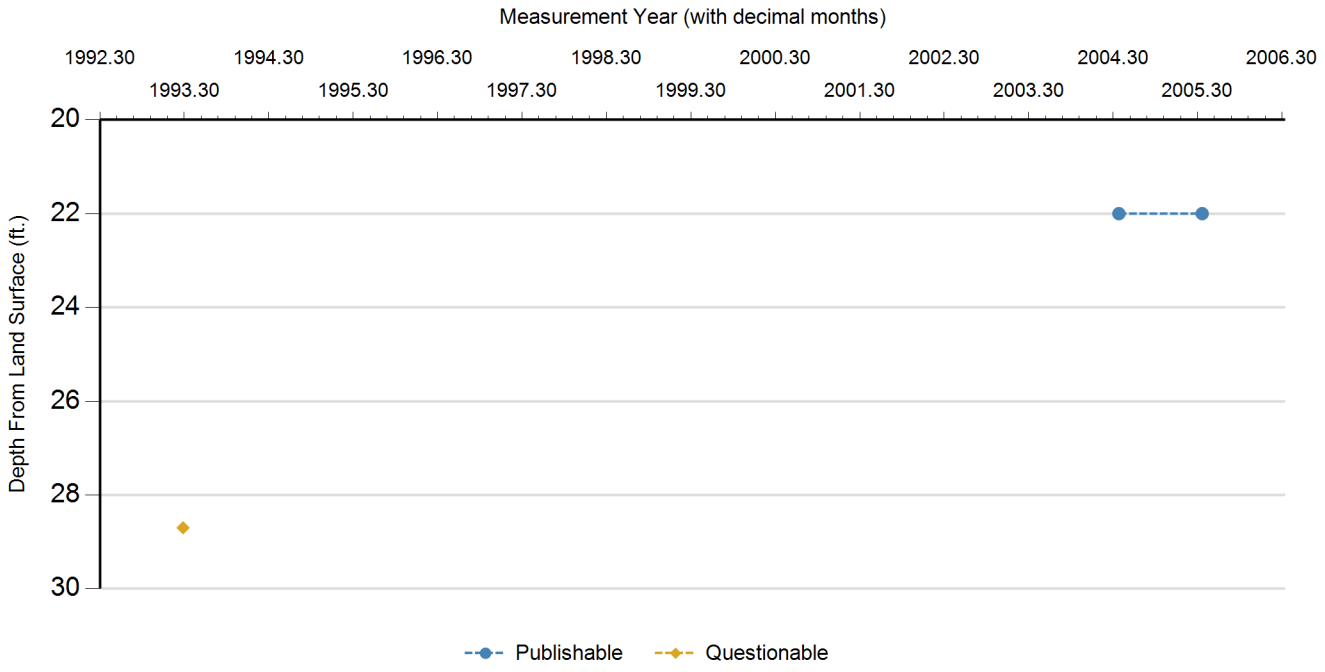
Borehole - No Data

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
Q	4/15/1993		28.7		636.3	1	Registered Water Well Driller	Unknown	17	
P	5/15/2004		22	(6.70)	643	1	Registered Water Well Driller	Unknown		
P	5/10/2005		22	0.00	643	1	U.S. Geological Survey	Electric Line		

Code Descriptions

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
17	Measurement before well completion

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-19-637

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5819637
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676944
Latitude (degrees minutes seconds)	30° 40' 37" N
Longitude (decimal degrees)	-97.643889
Longitude (degrees minutes seconds)	097° 38' 38" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	712
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	unknown
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/14/2005
Last Update Date	3/4/2020

Remarks	

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

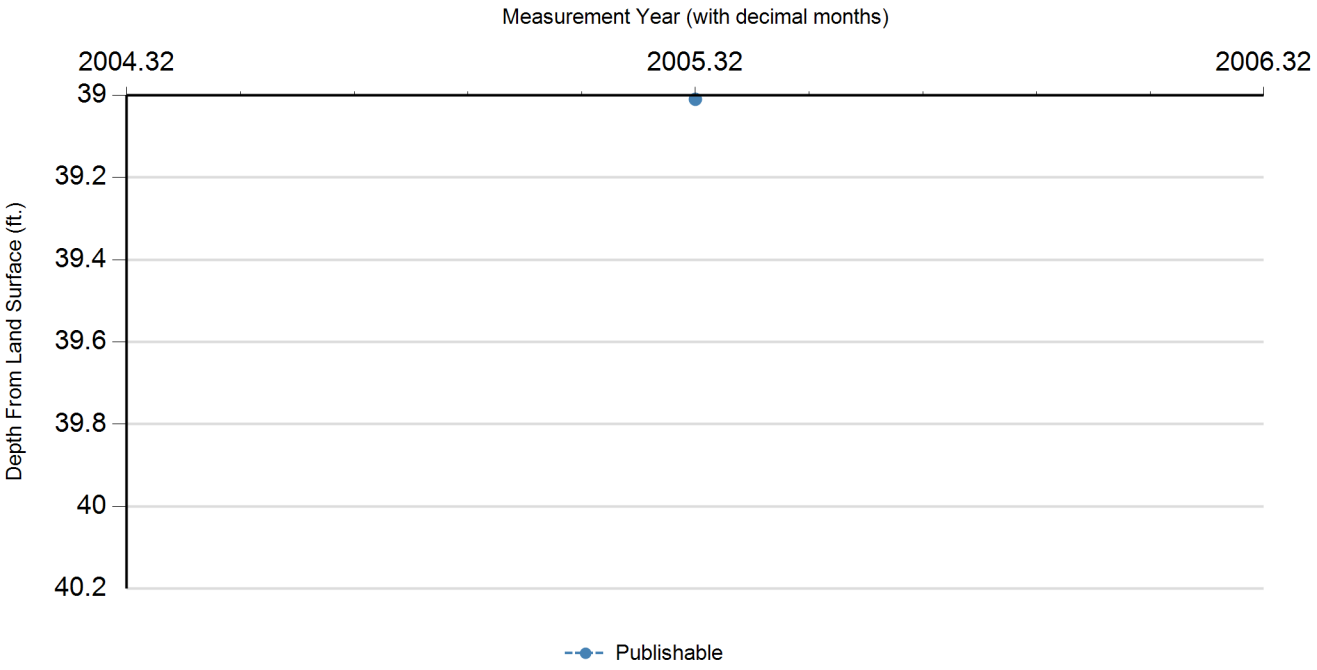
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	4/26/2005		39.01		672.99	1	U.S. Geological Survey	Electric Line		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-402

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820402
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.675
Latitude (degrees minutes seconds)	30° 40' 30" N
Longitude (decimal degrees)	-97.622222
Longitude (degrees minutes seconds)	097° 37' 20" W
Coordinate Source	+/- 1 Second
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	640
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	243
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	11/16/1974
Drilling Method	Cable Tool
Borehole Completion	Open Hole

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Jimmy Jordan
Driller	Bob J. Smith
Other Data Available	Drillers Log
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	8/23/1974
Last Update Date	3/4/2020

Remarks	Bailed 60 GPM in 1974. Flowed in 1974.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	70
6	Open Hole				70	243

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

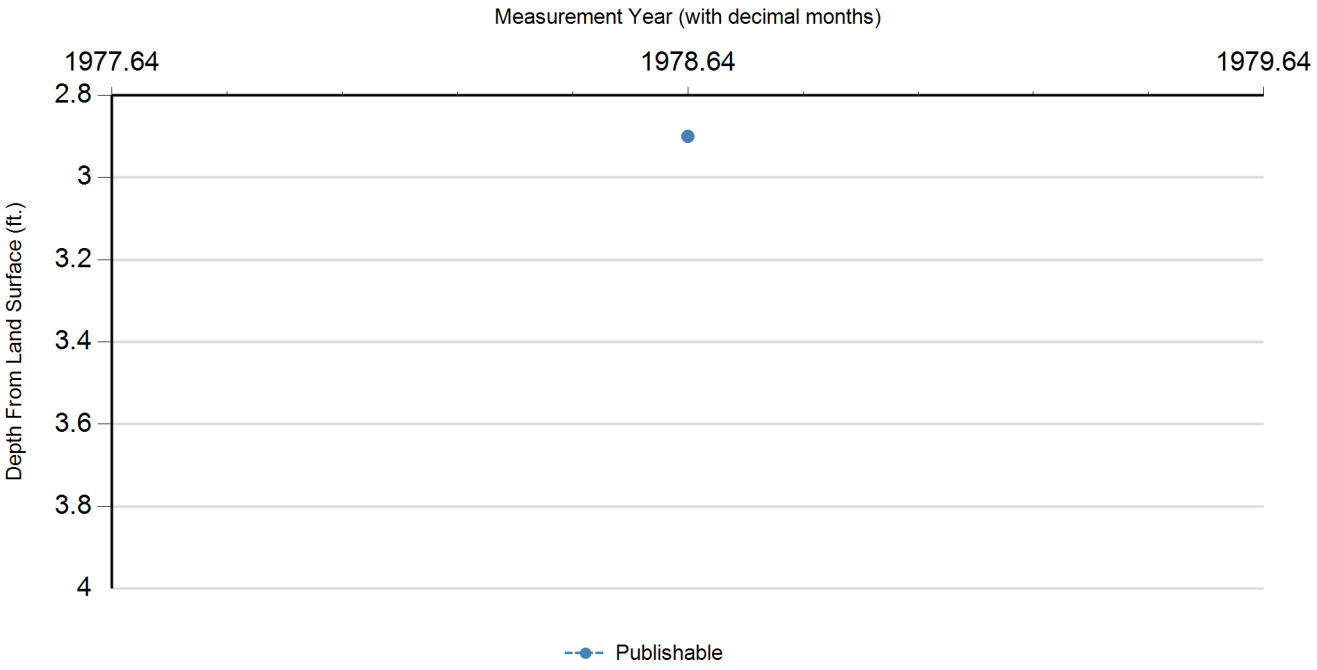
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	8/23/1978		2.9		637.1	1	Other or Source of Measurement Unknown	Unknown		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

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

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		235	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		286.78	mg/L	
00910	CALCIUM (MG/L)		52	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		48	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.3	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		261	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		32	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)	<	0.4	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.9	SU	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SI02)		11	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.51		
00932	SODIUM, CALCULATED, PERCENT		31	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		56	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		798	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		72	mg/L as SO4	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		415	mg/L	

Water Quality Analysis

Sample Date: 5/22/1986 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Edwards and Associated Limestones

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

Collection Remarks: No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		251	mg/L as CACO3	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		306.31	mg/L	
00910	CALCIUM (MG/L)		47	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		47	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		3.5	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CACO3)		249	mg/L as CACO3	
00920	MAGNESIUM (MG/L)		32	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		0.04	mg/L as NO3	
00400	PH (STANDARD UNITS), FIELD		7.7	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		5	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0.04		
00955	SILICA, DISSOLVED (MG/L AS SI02)		12	mg/L as SIO2	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		1.63		
00932	SODIUM, CALCULATED, PERCENT		34	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		59	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		800	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		58	mg/L as SO4	
00010	TEMPERATURE, WATER (CELSIUS)		23	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		414	mg/L	

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

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-407

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820407
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.702501
Latitude (degrees minutes seconds)	30° 42' 09" N
Longitude (decimal degrees)	-97.625
Longitude (degrees minutes seconds)	097° 37' 30" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	730
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	370
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	2/20/1985
Drilling Method	Air Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	City of Georgetown
Driller	Wright Water Wells
Other Data Available	Gamma Ray; Neutron
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Water Development Board
Created Date	2/20/1985
Last Update Date	3/4/2020

Remarks	Test well #7, Stanford.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
8	Blank	Steel			0	20
9	Open Hole				20	370

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

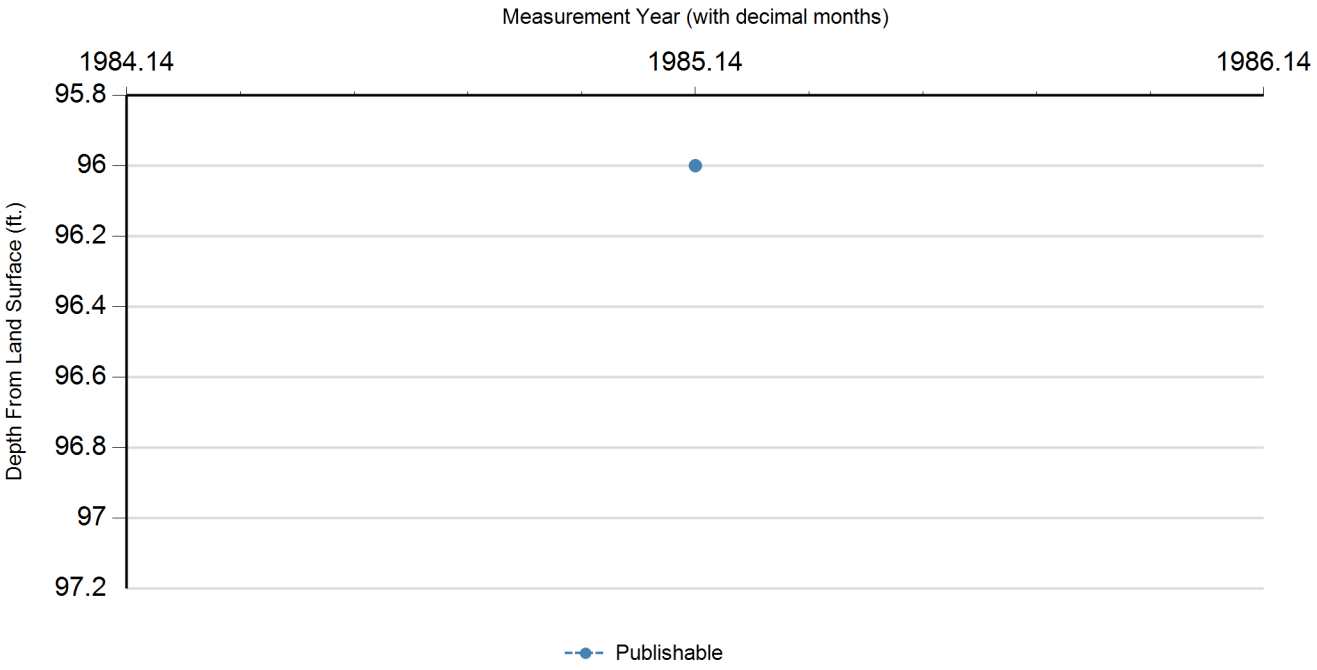
Borehole - No Data

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	2/20/1985		96		634	1	Texas Water Development Board	Logging Sonde		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-409

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820409
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676389
Latitude (degrees minutes seconds)	30° 40' 35" N
Longitude (decimal degrees)	-97.613612
Longitude (degrees minutes seconds)	097° 36' 49" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218EDRDA - Edwards and Associated Limestones
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	655
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	200
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	11/14/1986
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	USGS TH BC-1
Driller	TWDB
Other Data Available	Electric Log; Gamma Ray; Geologists or Sample
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/15/1987
Last Update Date	3/4/2020

Remarks	Measured yield .897 GPM with 107 feet drawdown after pumping 5 hours in 1987. Specific capacity 0.00838 GPM/ft. Cemented from 0 to 161 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	161
	Open Hole				161	200

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

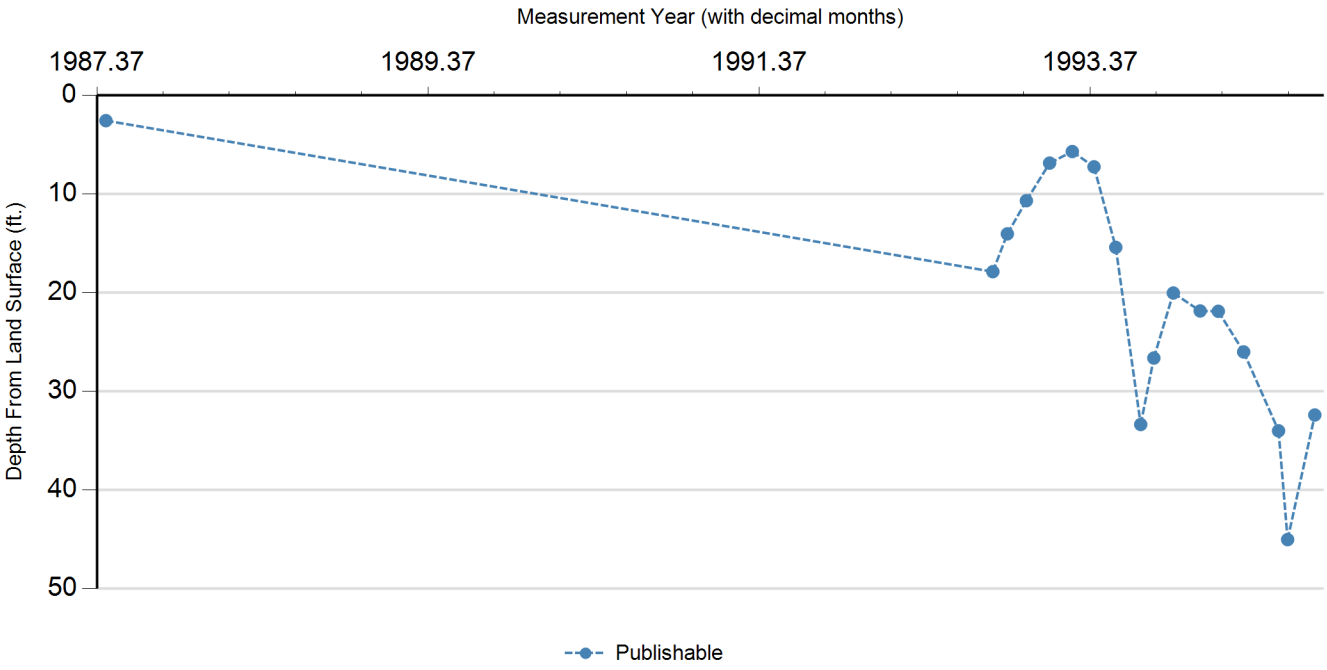
Borehole - No Data

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	6/5/1987		2.58		652.42	1	U.S. Geological Survey	Steel Tape		
P	10/16/1992		17.88	15.30	637.12	1	U.S. Geological Survey	Steel Tape		
P	11/18/1992		14.05	(3.83)	640.95	1	U.S. Geological Survey	Steel Tape		
P	12/30/1992		10.69	(3.36)	644.31	1	U.S. Geological Survey	Steel Tape		
P	2/16/1993		6.88	(3.81)	648.12	1	U.S. Geological Survey	Steel Tape		
P	4/6/1993		5.71	(1.17)	649.29	1	U.S. Geological Survey	Steel Tape		
P	5/24/1993		7.26	1.55	647.74	1	U.S. Geological Survey	Steel Tape		
P	7/12/1993		15.42	8.16	639.58	1	U.S. Geological Survey	Steel Tape		
P	9/7/1993		33.36	17.94	621.64	1	U.S. Geological Survey	Steel Tape		
P	10/6/1993		26.63	(6.73)	628.37	1	U.S. Geological Survey	Steel Tape		
P	11/19/1993		20.04	(6.59)	634.96	1	U.S. Geological Survey	Steel Tape		
P	1/13/1994		21.86	1.82	633.14	1	U.S. Geological Survey	Steel Tape		
P	2/23/1994		21.89	0.03	633.11	1	U.S. Geological Survey	Steel Tape		
P	4/19/1994		26.01	4.12	628.99	1	U.S. Geological Survey	Steel Tape		
P	7/6/1994		34	7.99	621	1	U.S. Geological Survey	Steel Tape		
P	7/26/1994		45.02	11.02	609.98	1	U.S. Geological Survey	Steel Tape		
P	9/26/1994		32.4	(12.62)	622.6	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-410

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820410
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676389
Latitude (degrees minutes seconds)	30° 40' 35" N
Longitude (decimal degrees)	-97.613612
Longitude (degrees minutes seconds)	097° 36' 49" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GRGN - Georgetown Limestone
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	655
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	128
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	11/15/1986
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	USGS TH BC-2
Driller	TWDB
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/15/1987
Last Update Date	3/4/2020

Remarks	Owner's Test Bx-2 well. Cemented from 0 to 120 feet.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	120
6	Open Hole				120	128

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	6/5/1987		118.94		536.06	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-411

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820411
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.676389
Latitude (degrees minutes seconds)	30° 40' 35" N
Longitude (decimal degrees)	-97.613612
Longitude (degrees minutes seconds)	097° 36' 49" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	218GRGN - Georgetown Limestone
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	655
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	72
Well Depth Source	Geophysical Log
Drilling Start Date	
Drilling End Date	11/0/1986
Drilling Method	Mud (Hydraulic) Rotary
Borehole Completion	Open Hole

Well Type	Test Hole
Well Use	Unused
Water Level Observation	Miscellaneous Measurements
Water Quality Available	No
Pump	None
Pump Depth (feet below land surface)	
Power Type	
Annular Seal Method	
Surface Completion	
Owner	USGS TH BC-3
Driller	TWDB
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	6/16/1987
Last Update Date	3/4/2020

Remarks	Owner's Test BC-3 well.

Casing

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
7	Blank	Steel			0	62
	Open Hole				62	72

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	6/5/1987		63.45		591.55	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis - No Data Available

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Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-412

GWDB Reports and Downloads

Well Basic Details

Scanned Documents

State Well Number	5820412
County	Williamson
River Basin	Brazos
Groundwater Management Area	8
Regional Water Planning Area	G - Brazos G
Groundwater Conservation District	GCD Does Not Exist
Latitude (decimal degrees)	30.673611
Latitude (degrees minutes seconds)	30° 40' 25" N
Longitude (decimal degrees)	-97.622222
Longitude (degrees minutes seconds)	097° 37' 20" W
Coordinate Source	+/- 5 Seconds
Aquifer Code	218EDRD - Edwards Limestone
Aquifer	Edwards (Balcones Fault Zone)
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	652
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	
Well Depth Source	
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Domestic
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Mrs. Gibson
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	U.S. Geological Survey
Created Date	4/25/1986
Last Update Date	3/4/2020

Remarks	

Casing

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

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

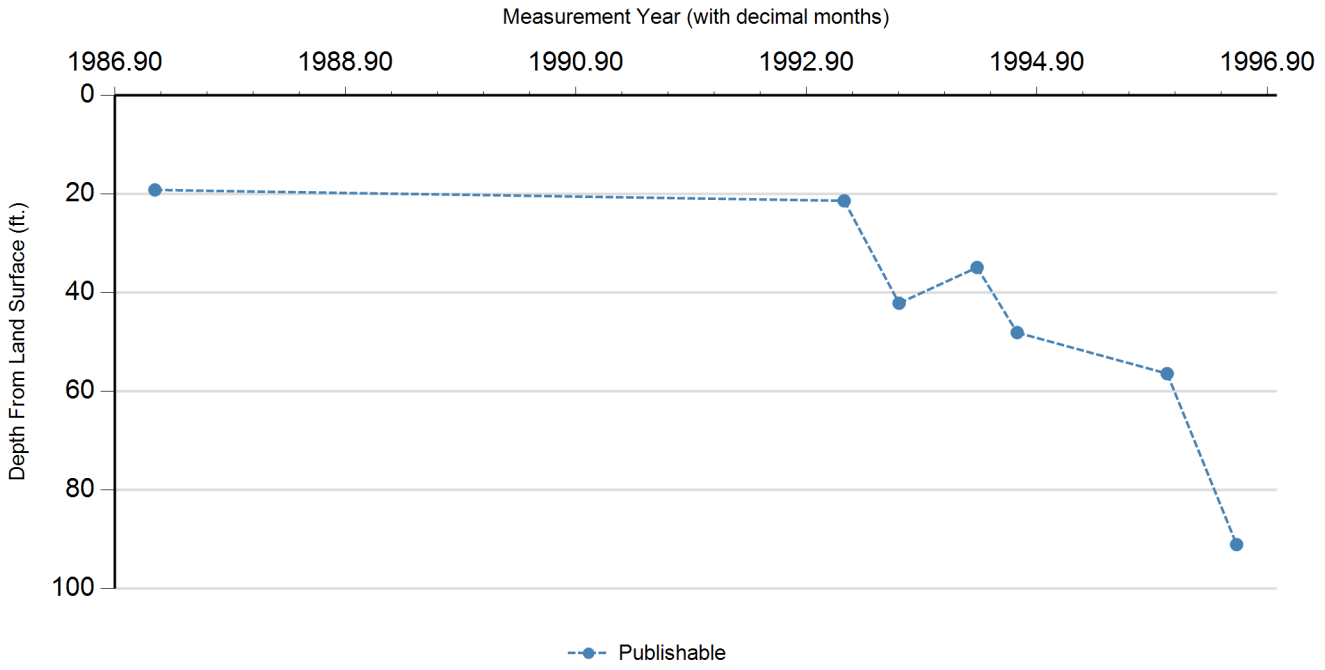
Borehole - No Data

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	3/30/1987		19.2		632.8	1	U.S. Geological Survey	Steel Tape		
P	3/23/1993		21.4	2.20	630.6	1	U.S. Geological Survey	Steel Tape		
P	9/17/1993		42.15	20.75	609.85	1	U.S. Geological Survey	Steel Tape		
P	5/19/1994		34.91	(7.24)	617.09	1	U.S. Geological Survey	Steel Tape		
P	9/26/1994		48.1	13.19	603.9	1	U.S. Geological Survey	Steel Tape		
P	1/11/1996		56.42	8.32	595.58	1	U.S. Geological Survey	Steel Tape		
P	8/21/1996		91.05	34.63	560.95	1	U.S. Geological Survey	Steel Tape		

Code Descriptions

Status Code	Status Description
P	Publishable

Water Quality Analysis

Sample Date: 2/17/1987 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards Limestone

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7.4	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		828	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		22	C	

Water Quality Analysis

Sample Date: 8/12/1988 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards Limestone

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		688	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	

Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number 58-20-412

Water Quality Analysis

Sample Date: 9/13/1990 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** U.S. Geological Survey

Sampled Aquifer: Edwards Limestone

Analyzed Lab: TWDB Field Analysis **Reliability:** Sampled using TWDB protocols

Collection Remarks: USGS Open-file Rept 92-160

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00400	PH (STANDARD UNITS), FIELD		7	SU	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		635	MICR	
00010	TEMPERATURE, WATER (CELSIUS)		21	C	

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

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STATE OF TEXAS WELL REPORT for Tracking #23620

Owner:	**Rusk Cattle Company**	Owner Well #:	**No Data**
Address:	**500 Rusk Lane Georgetown, TX 78626**	Grid #:	**58-20-7**
Well Location:	**500 Rusk Lane Georgetown, TX 78626**	Latitude:	**30° 39' 40" N**
		Longitude:	**097° 36' 59" W**
Well County:	**Williamson**	Elevation:	**688 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **6/2/2003** Drilling End Date: **6/28/2003**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
20	**0**	**43**
14	**43**	**300**
9.875	**300**	**500**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**300**	**16**

Seal Method: **pressure cementing**

Sealed By: **ADC**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **121 ft.** below land surface on **2003-07-10** Measurement Method: **Unknown**

Packers: **cementing basket 300**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 400 GPM with 266 ft. drawdown after 9 hours**

Water Quality:

Strata Depth (ft.)	Water Type
300-465	**edwards**

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Associated Drilling Co.**

P.O. Box 1060
Manchaca, TX 78652

Driller Name: **Byron Benoit** License Number: **1955**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**black topsoil**
3	**22**	**yellow clay with caliche**
22	**40**	**clay with shale**
40	**80**	**gray limestone**
80	**130**	**gray clay with limestone**
130	**285**	**gray limestone**
285	**300**	**white limestone**
300	**465**	**broken limestone**
465	**500**	**gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
16	**N**	**Steel**	**-1 to 43 sch 40**
10-3/4	**N**	**steel**	**-3 to 300 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 #42877

Owner:	**THERON VAUGHN**	Owner Well #:	**No Data**
Address:	**PO BOX 371 GEORGETOWN, TX 78627**	Grid #:	**58-20-4**
Well Location:	**1880 CR 103 GEORGETOWN, TX 78627**	Latitude:	**30° 40' 07" N**
		Longitude:	**097° 36' 35" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **3/19/2004** Drilling End Date: **4/3/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**22**
6	**22**	**175**
4.75	**175**	**331**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**22**	**9**

Seal Method: **HAND POURED**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **140**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **22 ft.** below land surface on **2004-04-03** Measurement Method: **Unknown**

Packers: **SHALE TRAP 175'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

1147 CR 170
ROUND ROCK, TX 78664

Driller Name: **TOMMY D ARNOLD** License Number: **2096**

Comments: **^DG**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**TOP SOIL**
2	**5**	**YELLOW CLAY**
5	**8**	**GRAVEL**
8	**10**	**YELLOW CLAY**
10	**13**	**GRAVEL**
13	**89**	**BLUE CLAY**
89	**260**	**GRAY LIMESTONE**
260	**330**	**BROWN LIMESTONE**
330	**331**	**GRAY LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**STEEL**	**0-22**
4	**N**	**PLASTIC**	**0-195**

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STATE OF TEXAS WELL REPORT for Tracking #42881

Owner:	**CHRISPIN TEJADA**	Owner Well #:	**No Data**
Address:	**2013 VIVIAN ROUND ROCK, TX 78681**	Grid #:	**58-20-4**
Well Location:	**1881 CR 103 GEORGETOWN, TX 78627**	Latitude:	**30° 40' 22" N**
		Longitude:	**097° 36' 44" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **3/24/2004** Drilling End Date: **4/13/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**25**
6	**25**	**195**
4.75	**195**	**335**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**25**	**10**

Seal Method: **HAND POURED**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **142**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **23 ft.** below land surface on **2004-04-13** Measurement Method: **Unknown**

Packers: **SHALE TRAP 195**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 100 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

1147 CR 170
ROUND ROCK, TX 78664

Driller Name: **TOMMY D ARNOLD** License Number: **2096**

Comments: **^DG**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**23**	**GRAVEL & LOAM**
23	**89**	**BLUE CLAY**
89	**181**	**BROWN LIMESTONE**
181	**325**	**BROWN LIMESTONE**
325	**335**	**GRAY LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**STEEL**	**0-25**
4	**N**	**PLASTIC**	**0-205**

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

STATE OF TEXAS WELL REPORT for Tracking #42884

Owner:	**THERON VAUGHN**	Owner Well #:	**No Data**
Address:	**PO BOX 371 GEORGETOWN, TX 78627**	Grid #:	**58-20-4**
Well Location:	**1925 CR 103 GEORGETOWN, TX 78627**	Latitude:	**30° 40' 07" N**
		Longitude:	**097° 36' 06" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **4/9/2004** Drilling End Date: **4/12/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**23**
6	**23**	**180**
4.75	**180**	**362**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**23**	**8**

Seal Method: **HAND POURED**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **192**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **29 ft.** below land surface on **2004-04-12** Measurement Method: **Unknown**

Packers: **SHALE TRAP 180'**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

1147 CR 170
ROUND ROCK, TX 78664

Driller Name: **TOMMY D ARNOLD** License Number: **2096**

Comments: **^DG**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**TOP SOIL & GRAVEL**
4	**18**	**GRAVEL & CLAY**
18	**21**	**BLUE CLAY**
21	**38**	**GRAY LIMESTONE**
38	**120**	**BLUE CLAY**
120	**220**	**GRAY LIMESTONE**
220	**350**	**BROWN LIMESTONE**
350	**362**	**GRAY LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**N**	**STEEL**	**0-23**
4	**N**	**PLASTIC**	**0-200**

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P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #59983

Owner:	**Hector Montoya**	Owner Well #:	**No Data**
Address:	**910 Iris Drive Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1440 CR 150 Georgetown, TX 78626**	Latitude:	**30° 42' 02" N**
		Longitude:	**097° 37' 43" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **4/15/2003** Drilling End Date: **4/15/2003**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**32**
6	**32**	**310**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**32**	**6**

Seal Method: **Gravity Feed**

Sealed By: **Driller**

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

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

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

Method of Verification: **None on Site**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Rubber 60'**
Rubber 250'

Type of Pump: **S12-100 Aermotor** Pump Depth (ft.): **200**

Well Tests: **Estimated** **Yield: 150 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Harrison Drilling**

P. O. Box 986
Lampasas, TX 76550

Driller Name: **Daivd Harrison** License Number: **1898**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**23**	**Overburden**
23	**37**	**Dark Shale (Eagle Ford)**
37	**82**	**White Limestone (Buda)**
82	**126**	**Gray Clay (Del Rio)**
126	**218**	**Gray Lime (Georgetown)**
218	**263**	**Tan Limestone (Edwards)**
263	**302**	**Broken Limestone/Water**
302	**310**	**Hard Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
6 New SCH40 PVC 0 32
4 1/2 New SDR17 PVC 0 310
Perforated 260 310

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

STATE OF TEXAS WELL REPORT for Tracking #104852

Owner:	**Theron Vaughn**	Owner Well #:	**No Data**
Address:	**1901 CR 103 Georgetown, TX 78626**	Grid #:	**58-20-7**
		Latitude:	**30° 39' 59" N**
Well Location:	**1901 CR 103 Georgetown, TX 78626**	Longitude:	**097° 36' 21" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **6/22/2003** Drilling End Date: **7/31/2003**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**20**
6.5	**20**	**345**

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**9**

Seal Method: **Hand Poured**

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 Measure***

Surface Completion: **Surface Sleeve Installed**

Water Level: **58 ft.** below land surface on **2003-07-31** Measurement Method: **Unknown**

Packers: **Shale Catcher 25,205**

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**

1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy D. Arnold** License Number: **2096**

Comments: *** From Proposed Site**
Logged by DT$

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Top Soil**
1	**6**	**Yellow Clay**
6	**18**	**Sand and Gravel**
18	**23**	**Yellow Clay**
23	**98**	**Blue Clay**
98	**210**	**Gray Limestone**
210	**340**	**Brown Limestone**
340	**345**	**Gray Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	**N**	**Plastic**	**0/345**
Perf.			**325/345**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #161447

Owner:	**Knight, Greg**	Owner Well #:	**No Data**
Address:	**30122 Saw Grass Trail Georgetown, TX 78628**	Grid #:	**58-20-4**
Well Location:	**1955 CR 103 Georgetown, TX 78681**	Latitude:	**30° 40' 05" N**
		Longitude:	**097° 36' 05" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **5/24/2007** Drilling End Date: **6/11/2007**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**15**
6	**15**	**220**
4.75	**220**	**345**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**15**	**8**

Seal Method: **Hand Poured**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **220**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **45 ft.** below land surface on **2007-06-11** Measurement Method: **Unknown**

Packers: **Shale Trap 210'**

Type of Pump: **Submersible** Pump Depth (ft.): **240**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**

2750 S AW Grimes Blvd.
Round Rock, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments: **^EO**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**topsoil**
3	**11**	**gravel**
11	**15**	**blue clay**
15	**24**	**gray limestone**
24	**111**	**blue clay**
111	**203**	**gray limestone**
203	**340**	**brown limestone**
340	**345**	**gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6"	**N**	**Steel**	**+5'-15'**
4"	**N**	**Plastic**	**0'-230'**

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STATE OF TEXAS WELL REPORT for Tracking #163871

Owner:	**Melvin Zoch**	Owner Well #:	**No Data**
Address:	**775 CR 152 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**775 CR 152 Georgetown, TX 78626**	Latitude:	**30° 41' 46" N**
		Longitude:	**097° 37' 35" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **3/17/2005** Drilling End Date: **3/17/2005**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**20**
6.5	**20**	**280**

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**6 Cement**

Seal Method: **Hand Poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **124 ft.** below land surface on **2005-03-17** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 40 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**

1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy D. Arnold** License Number: **2096**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Top Soil**
1	**25**	**Yellow Clay**
25	**43**	**Blue Clay**
43	**50**	**White Limestone**
50	**122**	**Blue Clay**
122	**220**	**Gray Limestone**
220	**280**	**Brown Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
6 New Plastic 0 - 20
4 1/2 New Plastic 0 - 280
Perf. 260 - 280

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STATE OF TEXAS WELL REPORT for Tracking #163934

Owner:	**Sally Moellenberndt**	Owner Well #:	**No Data**
Address:	**2701 CR 152 Georgetown, TX 78628**	Grid #:	**58-19-6**
Well Location:	**2701 CR 152 Georgetown, TX 78628**	Latitude:	**30° 41' 34" N**
		Longitude:	**097° 37' 52" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **2/18/2005** Drilling End Date: **2/18/2005**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**280**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**2 Cement**
2	**40**	**4 Cement**

Seal Method: **Gravity Feed**

Sealed By: **Alpine**

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

Distance to Septic Field or other concentrated contamination (ft.): **200**

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **80 ft.** below land surface on **2005-02-18** Measurement Method: **Unknown**

Packers: **Rubber 40**
Rubber 100
Rubber 160

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Estimated** **Yield: 50 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine Water Well**

10121 IH-35
Jarrell, TX 76537

Driller Name: **Bob Stork** License Number: **2912**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Brown Top Soil**
1	**12**	**Clay & Caliche**
12	**29**	**Limestone**
29	**160**	**Gray Shale**
160	**240**	**Limestone**
240	**280**	**Broken Lime Water**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**New**	**Steel**	**0 - 20**
4 1/2	**New**	**PVC**	**+2 - 200**
4 1/2	**New**	**PVC Slotted**	**200 - 280**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #190412

Owner:	**Pam Mehl**	Owner Well #:	**No Data**
Address:	**700 Grove Lane Georgetown, TX 78627**	Grid #:	**58-19-6**
Well Location:	**700 Grove Lane Georgetown, TX 78627**	Latitude:	**30° 41' 42" N**
		Longitude:	**097° 37' 48" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/25/2004** Drilling End Date: **11/17/2004**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**20**
7	**20**	**60**
6.5	**60**	**305**

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**6**

Seal Method: **Hand Poured**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **290**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **120 ft.** below land surface on **2004-11-17** Measurement Method: **Unknown**

Packers: **Shale Trap 20',205'**

Type of Pump: **Submersible** Pump Depth (ft.): **240**

Well Tests: **Estimated** **Yield: 100 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**

1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**Top soil**
2	**6**	**Brown Clay**
6	**36**	**Yellow Clay**
36	**38**	**Red Clay**
38	**96**	**Blue Clay**
96	**195**	**Gray Limestone**
195	**300**	**Brown Limestone**
300	**305**	**Gray Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	**New**	**Plastic**	**0 305**
Perforated			**285 305**

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STATE OF TEXAS WELL REPORT for Tracking #207693

Owner:	**Berry Springs Park**	Owner Well #:	**No Data**
Address:	**1801 CR 152 Georgetown, TX 78628**	Grid #:	**58-19-6**
Well Location:	**1801 CR 152 Georgetown, TX 78628**	Latitude:	**30° 41' 00" N**
		Longitude:	**097° 38' 36" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **6/15/2009** Drilling End Date: **6/16/2009**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**20**
8	**20**	**50**
6.5	**50**	**225**

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**8**

Seal Method: **Hand Poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **Tape Measure ***

Surface Completion: **Surface Sleeve Installed**

Water Level: **10 ft.** below land surface on **2009-06-16** Measurement Method: **Unknown**

Packers: **None**

Type of Pump: **None**

Well Tests: **Pump** **Yield: 255 GPM with 25 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: **Tom Arnold Drilling**

2750 South A. W. Grimes Blvd.
Round Rock, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments: *** none within given distance**
$mew

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**Black Clay**
3	**7**	**Red Sandy Loam**
7	**13**	**Sand & Gravel**
13	**26**	**Blue Limestone**
26	**27**	**Blue Clay**
27	**98**	**Gray Limestone**
98	**125**	**Brown & White Limestone**
125	**138**	**Gray Limestone**
138	**165**	**Brown Limestone & Fractures**
165	**215**	**Brown & White Limestone**
215	**225**	**Gray Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**New**	**Plastic**	**0 - 50**

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P.O. Box 12157
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STATE OF TEXAS WELL REPORT for Tracking #211452

Owner:	**Larry Bell**	Owner Well #:	**No Data**
Address:	**4010 FM 971 Georgetown, TX 78626**	Grid #:	**58-20-4**
		Latitude:	**30° 40' 30" N**
Well Location:	**4010 FM 971 Georgetown, TX 78626**	Longitude:	**097° 36' 34" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**Reconditioning**	Proposed Use:	**Domestic**

Drilling Start Date: **4/22/2005** Drilling End Date: **4/22/2005**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**260**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**20**	**4**

Seal Method: **Gravity Feed**

Sealed By: **Alpine**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **60 ft.** below land surface on **2005-04-22** Measurement Method: **Unknown**

Packers: **Rubber 20'**

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Estimated** **Yield: 50 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine Water Well**

10121 IH 35
Jarrell, TX 76537

Driller Name: **Bob Stork** License Number: **2912**

Comments: **$dfs**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
Cleaned out old well		
No Returns		

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2	**New**	**PVC**	**+2 200**
4 1/2	**New**	**PVC Slotted**	**200 260**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #221234

Owner:	**Berry Springs Park**	Owner Well #:	**No Data**
Address:	**1801 CR 152 Georgetown, TX 78628**	Grid #:	**58-19-6**
Well Location:	**1801 CR 152 Georgetown, TX 78628**	Latitude:	**30° 41' 12" N**
		Longitude:	**097° 38' 38" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Irrigation**

Drilling Start Date: **8/20/2009** Drilling End Date: **8/20/2009**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**20**
8	**20**	**55**
6.5	**50**	**225**

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**22**	**8**

Seal Method: **hand poured**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **175**

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

Method of Verification: **tape measure**

Surface Completion: **Surface Sleeve Installed**

Water Level: **71 ft.** below land surface on **2009-08-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **120**

Well Tests: **Pump** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**

2750 South A. W. Grimes Blvd
Round Rock, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments:

^NK

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**black clay and loose rock**
3	**9**	**red sandy loam**
9	**14**	**sand and gravel**
14	**88**	**gray limestone**
88	**210**	**brown limestone**
210	**225**	**gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6	**New**	**Plastic**	**0-55**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #249018

Owner:	**Dave Schwegmann**	Owner Well #:	**No Data**
Address:	**3530 N. IH 35 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**3530 N. IH 35 Georgetown, TX 78626**	Latitude:	**30° 41' 31" N**
		Longitude:	**097° 38' 43" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **11/3/2005** Drilling End Date: **12/1/2005**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**20**
6.5	**20**	**225**

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**9**

Seal Method: **Hand Poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **no septic found within 300 ft**

Surface Completion: **Surface Sleeve Installed**

Water Level: **26 ft.** below land surface on **2005-12-01** Measurement Method: **Unknown**

Packers: **None**

Type of Pump: **No Data**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Tom Arnold Drilling**

1147 CR 170
Round Rock, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments: **$mew**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Top Soil**
1	**11**	**Sandy Loam & Gravel**
11	**25**	**Blue Limestone**
25	**95**	**Gray Limestone**
95	**220**	**Brown Limestone**
220	**225**	**Gray Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8	**New**	**Plastic**	**0 - 20**

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STATE OF TEXAS WELL REPORT for Tracking #261370

Owner:	**Arnie Westerhold**	Owner Well #:	**1**
Address:	**209 Sebastian Ln. Georgetown, TX 78633**	Grid #:	**58-19-6**
		Latitude:	**30° 40' 18" N**
Well Location:	**FM 971 Georgetown, TX**	Longitude:	**097° 37' 41" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **3/8/2011** Drilling End Date: **3/8/2011**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**32**
6.75	**32**	**240**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**5**	**2 1/2 Cement**
5	**40**	**5 Benseal**

Seal Method: **Gravity Feed**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **100+**

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

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **57 ft.** below land surface on **2011-03-08** Measurement Method: **Unknown**

Packers: **Cement 40'**
Cement 50'

Type of Pump: **Submersible** Pump Depth (ft.): **180**

Well Tests: **Estimated** **Yield: 75+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
130-240	**Edwards**

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: **Tom Lovelace Water Well Serv.**

4997 Elm Grove Rd.
Belton, TX 76513

Driller Name: **Jimmy Okun** License Number: **55015**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**18**	**overburden**
18	**28**	**sand & gravel**
28	**130**	**gray lime**
130	**240**	**tan & brown lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4 1/2" New Plastic Solid +2'-140'			
4 1/2" New Plastic Mfg. Screen 140'-240' .032			

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STATE OF TEXAS WELL REPORT for Tracking #269113

Owner:	**Charles Alf**	Owner Well #:	**No Data**
Address:	**2901 CR.152 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**2901 CR.152 Georgetown, TX 78626**	Latitude:	**30° 41' 38" N**
		Longitude:	**097° 37' 58" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **9/17/2011** Drilling End Date: **9/17/2011**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**50**
6.75	**50**	**310**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
1	**50**	**16**

Seal Method: **gravity poured**

Sealed By: **ADC**

Distance to Property Line (ft.): **70+**

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

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

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **134 ft.** below land surface on **2011-09-17** Measurement Method: **Unknown**

Packers: **neoprene rubber and burlap 50 and 210**

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 50 GPM**

Plug Information:

Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
n/a		

Water Quality:

Strata Depth (ft.)	Water Type
260-310	**Edwards**

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: **Associated Drilling Inc.**

12928 Lowden Ln.
Manchaca, TX 78652

Driller Name: **James Benoit** License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**topsoil / bedrock**
4	**40**	**white limestone**
40	**160**	**gray buda lime**
160	**170**	**gray del rio clay**
170	**250**	**tan georgetown lime**
250	**310**	**brown edwards sandstone / fractures**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	**od.**	**new**	**sdr17 pvc -2 to 270**
5	**od.**	**new**	**sdr17 pvc (.032) screen 270 to 310**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #271607

Owner:	**Scott and Rebeca Williams**	Owner Well #:	**No Data**
Address:	**2907 CR152 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**2907 CR152 Georgetown, TX 78626**	Latitude:	**30° 41' 41" N**
		Longitude:	**097° 37' 42" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **10/26/2011** Drilling End Date: **10/26/2011**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**50**
6.75	**50**	**310**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**50**	**4cmt3volclay**

Seal Method: **gravity poured**

Sealed By: **ADC**

Distance to Property Line (ft.): **55+**

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

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

Method of Verification: **tape**

Surface Completion: **Surface Sleeve Installed**

Water Level: **120 ft.** below land surface on **2011-10-26** Measurement Method: **Unknown**

Packers: **neoprene rubber and burlap 50 and 180**

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 70-80 GPM**

Plug Information:

Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
n/a		

Water Quality:

Strata Depth (ft.)	Water Type
210-310	**Edwards**

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: **Associated Drilling Inc.**

12928 Lowden Ln.
Manchaca, TX 78652

Driller Name: **James Benoit** License Number: **4064**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**topsoil**
3	**15**	**white lime**
15	**40**	**yellow clay**
40	**70**	**blue clay**
70	**185**	**gray lime**
185	**210**	**tan limestone**
210	**310**	**tan and white limestone with fractures**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5 od new sdr17 pvc -2 to 270			
5 od new sdr17 pvc (.032) screen 270 to 310			

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STATE OF TEXAS WELL REPORT for Tracking #300968

Owner:	**Bobby Stork**	Owner Well #:	**1**
Address:	**4200 FM 971 Georgetown, TX 78626**	Grid #:	**58-20-4**
		Latitude:	**30° 40' 27" N**
Well Location:	**4200 FM 971 Georgetown, TX 78626**	Longitude:	**097° 36' 27" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/17/2012** Drilling End Date: **7/18/2012**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**300**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**10 Cement**

Seal Method: **Gravity**

Sealed By: **Alpine**

Distance to Property Line (ft.): **125+**

Distance to Septic Field or other concentrated contamination (ft.): **200+**

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

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **60 ft.** below land surface on **2012-07-18** Measurement Method: **Unknown**

Packers: **Rubber 50', 100' and 200'**

Type of Pump: **Submersible** Pump Depth (ft.): **220**

Well Tests: **Estimated** **Yield: 100+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
240-260	**Edwards**

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: **Alpine Water Well**

10121 IH-35
Jarrell, TX 76537

Driller Name: **Bobby Stork** License Number: **2912**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**brown topsoil**
2	**8**	**clay & caliche**
8	**16**	**sand & gravel**
16	**21**	**limestone**
21	**180**	**grey shale**
180	**240**	**limestone**
240	**280**	**broken lime water**
280	**300**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 5/8"	**N**	**Steel**	**+2'-20'**
4 1/2"	**N**	**PVC**	**+1'-260'**
4 1/2"	**N**	**PVC Slotted**	**260'-300'**

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STATE OF TEXAS WELL REPORT for Tracking #312194

Owner:	**Harold Darnel**	Owner Well #:	**1**
Address:	**1500 FM 1105 Georgetown, TX 78628**	Grid #:	**58-20-4**
Well Location:	**1500 FM 1105 Georgetown, TX 78628**	Latitude:	**30° 41' 06" N**
		Longitude:	**097° 37' 22" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **9/28/2006** Drilling End Date: **9/30/2006**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**440**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**5 Cement**

Seal Method: **Gravity Feed**

Sealed By: **Alpine**

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

Distance to Septic Field or other concentrated contamination (ft.): **None**

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **200 ft.** below land surface on **2006-09-30** Measurement Method: **Unknown**

Packers: **Rubber 40'**
Rubber 100'
Rubber 300'

Type of Pump: **Submersible** Pump Depth (ft.): **400**

Well Tests: **Estimated** **Yield: 50+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
400	**Edwards**

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: **Alpine Water Well**

10121 IH-35
Jarrell, TX 76537

Driller Name: **Bobby Stork** License Number: **2912**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**brown topsoil**
2	**10**	**clay & caliche**
10	**18**	**limestone**
18	**260**	**grey shale**
260	**360**	**grey shale & limestone**
360	**400**	**white limestone**
400	**440**	**broken limestone water**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 5/8"	**N**	**Steel**	**+2'-20'**
4 1/2"	**N**	**PVC**	**+1'-400'**
4 1/2"	**N**	**PVC Slotted**	**400'-440'**

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STATE OF TEXAS WELL REPORT for Tracking #312234

Owner:	**Josa Patron**	Owner Well #:	**1**
Address:	**2600 FM 971 Georgetown, TX 78626**	Grid #:	**58-19-6**
		Latitude:	**30° 40' 13" N**
Well Location:	**2600 FM 971 Georgetown, TX 78626**	Longitude:	**097° 37' 50" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/2/2012** Drilling End Date: **7/2/2012**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**30**
6	**30**	**240**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**30**	**10 Cement**

Seal Method: **Gravity**

Sealed By: **Alpine**

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

Distance to Septic Field or other concentrated contamination (ft.): **None**

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

Method of Verification: **Owner**

Surface Completion: **Surface Slab Installed**

Water Level: **60 ft.** below land surface on **2012-07-02** Measurement Method: **Unknown**

Packers: **Rubber 100', 200'**

Type of Pump: **Submersible** Pump Depth (ft.): **160**

Well Tests: **Estimated** **Yield: 50+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
200-240	**Edwards**

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: **Alpine Water Well**

10121 IH-35
Jarrell, TX 76537

Driller Name: **Bobby Stork** License Number: **2912**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**brown topsoil**
2	**6**	**clay**
6	**26**	**sand & gravel**
26	**145**	**grey shale**
145	**200**	**limestone**
200	**240**	**broken limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.) New/Used Type Setting From/To (ft.)
6 5/8" N Steel +2'-30'
4 1/2" N PVC +1'-200'
4 1/2" N PVC Slotted 200'-240'

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STATE OF TEXAS WELL REPORT for Tracking #358914

Owner:	**Bob Sabhome**	Owner Well #:	**1**
Address:	**2081 FM 972 georgetown, TX 78626**	Grid #:	**58-20-7**
Well Location:	**2801 FM 971 georgetown, TX 78626**	Latitude:	**30° 39' 56" N**
		Longitude:	**097° 36' 47" W**
Well County:	**Williamson**	Elevation:	**372 ft. above sea level**

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

Drilling Start Date: **2/17/2014** Drilling End Date: **2/17/2014**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**20**
6	**20**	**260**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
-2	**20**	**3**

Seal Method: **Unknown**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **125 ft.** below land surface on **2014-02-17** Measurement Method: **Unknown**

Packers: **rubber packer 100'**
rubber packer 200'

Type of Pump: **Jet** Pump Depth (ft.): **220**

Well Tests: **Estimated** **Yield: 20 GPM with 3 ft. drawdown after 4 hours**

Plug Information:

Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
none		

Water Quality:

Strata Depth (ft.)	Water Type
185	**edwards**

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: **Alpine water well service**

101
jarrell, TX 76537

Driller Name: **Bob Stork** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
no data		

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6" new steel +2-20			
41/2 new pvc 20-260			

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STATE OF TEXAS WELL REPORT for Tracking #391926

Owner:	**Russ jemison**	Owner Well #:	**#1**
Address:	**400001 Hertiage hollow georgetown, TX 76526**	Grid #:	**58-19-6**
Well Location:	**400001 Hertiage Hollow georgetown, TX 78626**	Latitude:	**30° 41' 01" N**
		Longitude:	**097° 37' 58" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **2/18/2015** Drilling End Date: **2/18/2015**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**20**
6	**0**	**240**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
		concrete
-2	**20**	**6**

Seal Method: **Unknown**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **100 ft.** below land surface, and **0 GPM** artesian flow on **2015-02-18** Measurement Method: **Unknown**

Packers: **rubber 100**
rubber 200

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Estimated** **Yield: 20 GPM with 0 ft. drawdown after 0 hours**

Plug Information:

Description (number of sacks & material)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
none		

Water Quality:

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

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: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **Bobby Stork** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

From (ft)	To (ft)	Description
no data		

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6" new steel +2+20			
4 1/2" pvc +2-240			

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

STATE OF TEXAS WELL REPORT for Tracking #416497

Owner:	**Clay Woodard**	Owner Well #:	**1**
Address:	**2188 CR 152 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**2188 CR 152 Georgetown, TX 78626**	Latitude:	**30° 41' 26.21" N**
		Longitude:	**097° 37' 58.98" W**
Well County:	**Williamson**	Elevation:	**689 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **2/4/2016** Drilling End Date: **2/4/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**9**
8.5	**9**	**20**
6.75	**20**	**310**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 4 Bags/Sacks**
20	**50**	**Bentonite 4 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used** **Surface Completion by Driller**

Water Level: **67 ft.** below land surface on **2016-02-05** Measurement Method: **Electric Line**

Packers: **Rubber at 50 ft.**
Rubber at 125 ft.
Rubber at 130 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 100 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Bee Cave Drilling, Inc.**

185 Angel Fire Dr.
Dripping Springs, TX 78620

Driller Name: **Jim Blair** License Number: **54416**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**1**	**Topsoil**
1	**30**	**Orange/Red Clay**
30	**50**	**Grey Shale**
50	**90**	**Grey Lime and Shale**
90	**135**	**Grey Lime**
135	**310**	**Grey Lime, WB 100GPM 300TDS**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR-17**	**-2**	**250**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**	**SDR-17**	**250**	**310**

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STATE OF TEXAS WELL REPORT for Tracking #417846

Owner:	**Steve Turner**	Owner Well #:	**1**
Address:	**1021 CR 140 Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**1021 CR 140 Georgetown, TX 78626**	Latitude:	**30° 41' 35.05" N**
		Longitude:	**097° 36' 43.77" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/25/2016** Drilling End Date: **1/25/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**21**
6.75	**21**	**320**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**6**	**Cement 4 Bags/Sacks**
6	**60**	**Bentonite 4 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **>100**

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

Method of Verification: **measured**

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

Water Level: **114 ft.** below land surface on **2016-01-25** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 60 ft.**
Rubber at 190 ft.
Rubber at 200 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 100+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
225 - 320	**Edwards**

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: **Tom Lovelace Water Well Service**

4997 Elm Grove Road
Belton, TX 76513

Driller Name: **Tommy Lovelace** License Number: **4920**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**18**	**Overburden**
18	**40**	**Eagle Ford Shale**
40	**50**	**Buda Lime**
50	**130**	**Del Rio Clay**
130	**225**	**Georgetown Lime**
225	**320**	**Edwards Lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**-2**	**260**
4.5	**Screen**	**New Plastic (PVC)**	**SDR 17 0.032**	**260**	**320**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #429395

Owner:	**ROBERT SMITH**	Owner Well #:	**#1**
Address:	**40104 PENNINGTON PLACE GEORGETOWN , TX 78626**	Grid #:	**58-20-4**
Well Location:	**40104 PENNINGTON PLACE GEORGETOWN, TX 78626**	Latitude:	**30° 41' 25.65" N**
		Longitude:	**097° 37' 28.06" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **6/20/2016** Drilling End Date: **6/20/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**200**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **60 ft.** below land surface on **2016-06-20** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 100 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **160**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**NO DATA**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6	**Blank**	**Steel**		**0**	**20**
4.5	**Blank**	**New Plastic (PVC)**	**80**	**0**	**200**

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P.O. Box 12157
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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #430044

Owner:	**Logan McLeod**	Owner Well #:	**1**
Address:	**1101 CR 140 Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**1101 CR 140 Georgetown, TX 78626**	Latitude:	**30° 41' 41.33" N**
		Longitude:	**097° 36' 59.36" W**
Well County:	**Williamson**	Elevation:	**737 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **7/7/2016** Drilling End Date: **7/7/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12	**0**	**20**
6.75	**20**	**340**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**4**	**Cement 3 Bags/Sacks**
4	**50**	**Bentonite 4 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

Distance to Property Line (ft.): **55**

Distance to Septic Field or other concentrated contamination (ft.): **>100**

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

Method of Verification: **MEASURED**

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

Water Level: **140 ft.** below land surface on **2016-07-07**

Packers: **Rubber at 50 ft.**
Rubber at 200 ft.
Rubber at 220 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **Jetted** **Yield: 100+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
240 - 340	**Edwards**

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: **Tom Lovelace Water Well Service**

4997 Elm Grove Road
Belton, TX 76513

Driller Name: **Tommy Lovelace** License Number: **4920**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**Overburden**
15	**50**	**Eagle Ford Shale**
50	**60**	**Buda Lime**
60	**140**	**Del Rio Clay**
140	**245**	**Georgetown Lime**
245	**340**	**Edwards Lime**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**-2**	**260**
4.5	**Screen**	**New Plastic (PVC)**	**SDR 17 0.032**	**260**	**340**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #439802

Owner:	**CHARLES SCHWEGMANN**	Owner Well #:	**1**
Address:	**311 MARKET STREET GEORGETOWN, TX 78620**	Grid #:	**58-19-6**
Well Location:	**311 MARKET STREET GEORGETOWN, TX 78620**	Latitude:	**30° 41' 35.21" N**
		Longitude:	**097° 38' 31.56" W**
Well County:	**Williamson**	Elevation:	**No Data**

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

Drilling Start Date: **11/9/2016** Drilling End Date: **11/9/2016**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**240**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **100+**

Method of Verification: **GPS**

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

Water Level: **25 ft.** below land surface, and **0 GPM** artesian flow on **2016-11-09** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 40 ft.**
Rubber at 120 ft.
Rubber at 200 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **160**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**240**	**NO DATA**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Plastic (PVC)**		**0**	**20**
4.5		**New Plastic (PVC)**		**0**	**240**

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

STATE OF TEXAS WELL REPORT for Tracking #470405

Owner:	**City of Georgetown**	Owner Well #:	**PB7**
Address:	**300-1 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1801 CO Road 152 Georgetown, TX 78626**	Latitude:	**30° 40' 54.07" N**
		Longitude:	**097° 38' 07.32" W**
	Take CR 152 north from SH 130. Pass the south fork of Berry Creek and entrance to Berry Springs Park. Piezo is 1150 feet to the southeast along the southern bank of the north fork of Berry Creek.	Elevation:	**657 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **1/10/2018** Drilling End Date: **1/11/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**35**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**23**	**Bentonite 5 Bags/Sacks**
23	**35**	**Sand 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **6 ft.** below land surface on **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Austin Geo-Logic**

1402 Yogi Berra CV
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**clay**
10	**35**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**25**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**25**	**35**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #470407

Owner:	**City of Georgetown**	Owner Well #:	**PB8**
Address:	**300-1 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1801 CO Road 152 Georgetown, TX 78626**	Latitude:	**30° 41' 01.68" N**
		Longitude:	**097° 38' 14.78" W**
	Take CR 152 north from SH 130. Pass the south fork of Berry Creek and entrance to Berry Springs Park. Piezo is 125 feet to the southeast along the southern bank of the north fork of Berry Creek.	Elevation:	**659 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **1/10/2018** Drilling End Date: **1/10/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**35**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**23**	**Bentonite 5 Bags/Sacks**
23	**35**	**Sand 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **6 ft.** below land surface on **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Austin Geo-Logic**

1402 Yogi Berra CV
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay**
15	**35**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**25**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**25**	**35**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #470409

Owner:	**City of Georgetown**	Owner Well #:	**PB9**
Address:	**300-1 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1801 CO Road 152 Georgetown, TX 78626**	Latitude:	**30° 41' 10.06" N**
		Longitude:	**097° 38' 20.78" W**
	Take CR 152 north from SH 130. Pass the south fork of Berry Creek and turn left into Berry Creek Park. Just past guardshack take a right to the loop road for day camping spots. Pizeo is 75 feet east of eastern most two shelters - 75 feet east from midway between two shelters.	Elevation:	**662 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **1/9/2018** Drilling End Date: **1/9/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**40**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**28**	**Bentonite 7 Bags/Sacks**
28	**40**	**Sand 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data** on **2018-02-09**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Austin Geo-Logic**

1402 Yogi Berra CV
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **dry hole**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**clay**
5	**35**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**30**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**30**	**40**

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STATE OF TEXAS WELL REPORT for Tracking #470411

Owner:	**City of Georgetown**	Owner Well #:	**PB10**
Address:	**300-1 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1801 CO Road 152 Georgetown, TX 78626**	Latitude:	**30° 41' 15.6" N**
		Longitude:	**097° 38' 25.99" W**
	Take CR 152 north from SH 130. Pass the south fork of Berry Creek and turn left into Berry Creek Park. Just past guardshack take a right to the loop road for day camping spots. At the loop take a left and follow dead end base road 620 feet. Piezo is 300 feet east of the base road.	Elevation:	**664 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **1/8/2018** Drilling End Date: **1/8/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**40**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**28**	**Bentonite 7 Bags/Sacks**
28	**40**	**Sand 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **7 ft.** below land surface on **2018-01-08**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Austin Geo-Logic**

1402 Yogi Berra CV
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay**
5	**40**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**30**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**30**	**40**

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STATE OF TEXAS WELL REPORT for Tracking #470412

Owner:	**City of Georgetown**	Owner Well #:	**PB12**
Address:	**300-1 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1801 CO Road 152 Georgetown, TX 78626**	Latitude:	**30° 41' 17.32" N**
		Longitude:	**097° 38' 45.9" W**
	Take CR 152 north from SH 130. Pass the south fork of Berry Creek and turn left into Berry Creek Park. Take park road north to northernmost parking lot. Continue north on dirt road for 1250 feet. Piezo is beside road (just north of trail circle)	Elevation:	**664 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **1/4/2018** Drilling End Date: **1/4/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**40**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**28**	**Bentonite 7 Bags/Sacks**
28	**40**	**Sand 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **10 ft.** below land surface on **2018-01-04** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Austin Geo-Logic**

1402 Yogi Berra CV
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**clay**
15	**40**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**30**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**30**	**40**

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STATE OF TEXAS WELL REPORT for Tracking #470415

Owner:	**City of Georgetown**	Owner Well #:	**PB11**
Address:	**300-1 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1801 CO Road 152 Georgetown, TX 78626**	Latitude:	**30° 41' 10.81" N**
		Longitude:	**097° 38' 37.25" W**
	Take CR 152 north from SH 130. Pass the south fork of Berry Creek and turn left into Berry Creek Park. Take park road north to northernmost parking lot. Continue north on dirt road for 235 feet. Piezo is beside road - 30 feet from edge of road	Elevation:	**672 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **1/9/2018** Drilling End Date: **1/9/2018**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**5**	**45**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**33**	**Bentonite 7 Bags/Sacks**
33	**45**	**Sand 3 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data** on **2018-01-09** Measurement Method: **Steel Tape**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Austin Geo-Logic**

1402 Yogi Berra CV
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **dry hole**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**clay**
5	**45**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**35**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**35**	**45**

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STATE OF TEXAS WELL REPORT for Tracking #482314

Owner:	**BYRON WHISNONT**	Owner Well #:	**1**
Address:	**4010 FM 971 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**4010 FM 971 GEORGETOWN, TX 78626**	Latitude:	**30° 40' 31.66" N**
		Longitude:	**097° 36' 34.71" W**
Well County:	**Williamson**	Elevation:	**No Data**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/10/2018** Drilling End Date: **5/10/2018**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**220**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **60 ft.** below land surface on **2018-05-11** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 80 ft.**
Rubber at 140 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **180**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**TOP SOIL**
15	**200**	**GREY SHALE**
200	**220**	**FRACTURED LIMESTONE AND WATER**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**		**-2**	**20**
4.5		**New Plastic (PVC)**		**0**	**160**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**		**160**	**220**

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STATE OF TEXAS WELL REPORT for Tracking #516675

Owner:	**Lee Whiteaeker**	Owner Well #:	**No Data**
Address:	**1920 CR 152 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**1920 CR 152 Georgetown, TX 78626**	Latitude:	**30° 41' 04.14" N**
		Longitude:	**097° 38' 11.64" W**
Well County:	**Williamson**	Elevation:	**712 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **5/24/2019** Drilling End Date: **5/24/2019**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
11	**0**	**20**
6.25	**20**	**310**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
-1	**30**	**3 cement Bags/Sacks**
0	**20**	**3 cement 2 holeplug Bags/Sacks**

Seal Method: **Slurry**

Sealed By: **Driller**

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

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

Distance to Septic Tank (ft.): **+150**

Method of Verification: **owner**

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

Water Level: **35 ft.** below land surface on **2019-05-24** Measurement Method: **Sonic/Radar**

Packers: **burlap and plastic 130', 30'**
Burlap at 20 ft.

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 50 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
130 - 310	**Edwards**

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: **Associated Drilling Inc**

PO Box 673
Dripping Springs, TX 78620

Driller Name: **James Benoit** License Number: **4064**

Comments: **Drilled for Marx Pump Service Inc**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**topsoil and gravel**
10	**35**	**white chalk**
35	**120**	**blue buda lime**
120	**140**	**tan georgetown lime**
140	**245**	**tan white and brown limestone, H2O**
245	**310**	**grey white limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	**Screen**	**New Plastic (PVC)**	**sdr17 0.020**	**-3**	**230**
6.25	**Blank**	**New Plastic (PVC)**	**sch 40**	**0**	**20**
4.5	**Blank**	**New Plastic (PVC)**	**sdr17**	**230**	**290**
4.5	**Blank**	**New Plastic (PVC)**	**sdr17**	**290**	**310**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #531138

Owner:	**Jonah Water SUD**	Owner Well #:	**11**
Address:	**4050 FM 1660 Hutto, TX 78634**	Grid #:	**58-19-6**
Well Location:	**1203 County Rd 152 Georgetown, Texas, TX 78626**	Latitude:	**30° 40' 52.05" N**
		Longitude:	**097° 38' 45.96" W**
Well County:	**Williamson**	Elevation:	**656 ft. above sea level**
Type of Work:	**Replacement**	Proposed Use:	**Public Supply**

Drilling Start Date: **10/12/2019** Drilling End Date: **11/12/2019** **Plans Approved by TCEQ - YES**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
22	**0**	**160**
14.75	**160**	**274**

Drilling Method: **Reverse Circulation**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**140**	**Cement 215 Bags/Sacks**
140	**160**	**Bentonite 42 Bags/Sacks**

Seal Method: **Positive Displacement**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **No Data** **Surface Completion by Driller**

Water Level: **46 ft.** below land surface on **2019-11-25**

Packers: **K-Packer**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **HYDRO RESOURCES-MID CONTINENT INC**

11536 OLD LOCKHART RD
CREEDMOOR, TX 78610

Driller Name: **James Parker** License Number: **60461**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**40**	**Surface soil to sand,gravel and limestone**
40	**100**	**tan/gray limestone with gray shale and gray silt sand**
100	**150**	**Tan Limestone**
150	**200**	**Brown sand with limestone,sand stone and gray shale strips**
200	**250**	**Brown sand with gray/white /brown limestone and sandstone strips**
250	**274**	**Limestone with gray clay and shale to gray shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
16		**New Steel**			

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #536278

Owner:	**City of Georgetown**	Owner Well #:	**P1**
Address:	**300 Industrial Avenue Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**2007 County Road 152 Georgetown, TX 78626**	Latitude:	**30° 41' 16.1" N**
		Longitude:	**097° 38' 09.04" W**
	Site 840 feet north of county road 152 on the shared use driveway	Elevation:	**681 ft. above sea level**
Well County:	**Williamson**		
Type of Work:	**New Well**	Proposed Use:	**piezo**

Drilling Start Date: **2/6/2020** Drilling End Date: **2/7/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
6	**0**	**95**

Drilling Method: **Air Rotary**

Borehole Completion: **sand packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2**
2	**23**	**Bentonite 9**
23	**95**	**Bentonite 22**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**clay**
20	**95**	**limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**25**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**25**	**92**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #554374

Owner:	**JUAN GOMEZ JR**	Owner Well #:	**1**
Address:	**250 CR 149 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**250 CR 149 GEORGETOWN, TX 78626**	Latitude:	**30° 41' 49.56" N**
		Longitude:	**097° 36' 38.52" W**
Well County:	**Williamson**	Elevation:	**780 ft. above sea level**

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

Drilling Start Date: **8/24/2020** Drilling End Date: **8/24/2020**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**340**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 6 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **100 ft.** below land surface on **2020-08-26** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 160 ft.**
Rubber at 260 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **240**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**5**	**TOP SOIL**
5	**20**	**CLAY**
20	**90**	**BLACK SHALE**
90	**260**	**GREY SHALE**
260	**300**	**LIMESTONE**
300	**340**	**LIMESTONE AND WATER**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**		**-2**	**20**
4.5		**New Plastic (PVC)**		**0**	**300**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**		**300**	**340**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #605542

Owner:	**Blue Water Resource Management**	Owner Well #:	**No Data**
Address:	**810 W 10th Austin, TX 78701**	Grid #:	**58-19-6**
		Latitude:	**30° 40' 37.12" N**
Well Location:	**Highway 152 Georgetown, TX**	Longitude:	**097° 38' 25.11" W**
	30.676978 N -97.640308 W Cummins #1	Elevation:	**700 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **5/5/2022** Drilling End Date: **5/5/2022**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**9.875**	**0**	**274**

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**10**	**274**	**Gravel**	**1/4"**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**10**	**Cement 8 Bags/Sacks**

Seal Method: **Poured**

Sealed By: **Driller**

Distance to Property Line (ft.): **237**

Distance to Septic Field or other concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed** **Surface Completion NOT by Driller**

Water Level: **174 ft.** below land surface on **2022-05-05**

Packers: **No Data**

Type of Pump: **No Data**

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

Water Quality:

Strata Depth (ft.)	Water Type
174 - 274	**Good**

Chemical Analysis Made: **No**

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

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

Company Information: **Santa Rosa Well Service, LLC**

Midland, TX 79701

Driller Name: **Joseph Willeke** License Number: **59823**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**Topsoil**
2	**8**	**Gravel and Clay**
8	**20**	**Lime**
20	**35**	**Dark grey Shale**
35	**160**	**Grey Shale**
160	**180**	**Sand**
180	**260**	**Sandstone**
260	**274**	**Sandstone and some Grey Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6	**Blank**	**New Plastic (PVC)**		**0**	**174**
6	**Perforated or Slotted**	**New Steel**		**174**	**274**

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

STATE OF TEXAS WELL REPORT for Tracking #626339

Owner:	**David Swayze**	Owner Well #:	**No Data**
Address:	**1367 CR 103 Georgetown, TX 78626**	Grid #:	**58-20-7**
Well Location:	**1367 CR 103 Georgetown, TX 78626**	Latitude:	**30° 39' 48" N**
		Longitude:	**097° 37' 02" W**
Well County:	**Williamson**	Elevation:	**703 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **11/4/2022** Drilling End Date: **11/5/2022**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
8	**0**	**20**
6	**20**	**340**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 5 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **NONE**

Method of Verification: **No Data**

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

Water Level: **80 ft.** below land surface on **2022-11-06** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 100 ft.**
Rubber at 260 ft.

Type of Pump: **Submersible**

Well Tests: **Estimated** **Yield: 50 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
300 - 340	**EDWARDS**

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: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **Bobby Wayne Stork** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**8**	**topsoil**
8	**16**	**clay**
16	**20**	**limestone**
20	**180**	**SHALE**
180	**300**	**LIMESTONE**
300	**340**	**BROKEN LIMESTONE WATER**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**	**40**	**0**	**20**
4.5		**New Plastic (PVC)**	**SDR17**	**0**	**300**
4.5		**New Plastic (PVC)**	**SDR17**	**300**	**340**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #630209

Owner:	**CHRIS YOUNG**	Owner Well #:	**No Data**
Address:	**3920 CR 152 GEORGETOWN, TX 78626**	Grid #:	**58-20-4**
Well Location:	**3920 CR 152 GEORGETOWN, TX 78626**	Latitude:	**30° 41' 31" N**
		Longitude:	**097° 36' 57" W**
Well County:	**Williamson**	Elevation:	**730 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Domestic**

Drilling Start Date: **1/2/2023** Drilling End Date: **1/2/2023**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
9	**0**	**20**
6	**20**	**320**

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 5 Bags/Sacks**

Seal Method: **Gravity**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **NONE**

Distance to Septic Tank (ft.): **NONE**

Method of Verification: **OWNER**

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

Water Level: **80 ft.** below land surface on **2023-01-03** Measurement Method: **Sonic/Radar**

Packers: **Rubber at 100 ft.**
Rubber at 200 ft.

Type of Pump: **Submersible** Pump Depth (ft.): **260**

Well Tests: **No Test Data Specified**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **Alpine water well service**

10121 North IH35
Jarrell, TX 76537

Driller Name: **BOBBY WAYNE STORK** License Number: **2912**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**4**	**TOPSOIL**
4	**14**	**CLAY AND CALICHE**
14	**180**	**GREY SHALE**
180	**300**	**LIMESTONE**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
6		**New Steel**	**40**	**-2**	**20**
4.5		**New Plastic (PVC)**	**SDR17**	**-1**	**240**
4.5		**New Plastic (PVC)**	**SDR17**	**240**	**320**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #664204

Owner:	**971 Prairie, LLC**	Owner Well #:	**No Data**
Address:	**2910 FM 971 Georgetown, TX 78626**	Grid #:	**58-19-6**
Well Location:	**2910 FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 14.99" N**
		Longitude:	**097° 37' 36.01" W**
Well County:	**Williamson**	Elevation:	**660 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Public Supply**

Drilling Start Date: **3/4/2024** Drilling End Date: **3/6/2024** **Plans Approved by TCEQ - YES**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
12.25	**0**	**60**
8	**60**	**280**

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**60**	**Cement 22 Bags/Sacks**
0	**180**	**Cement 32 Bags/Sacks**

Seal Method: **Pressure**

Sealed By: **Driller**

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

Distance to Septic Field or other concentrated contamination (ft.): **>100**

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

Method of Verification: **GPS**

Surface Completion: **Alternative Procedure Used** **Surface Completion by Driller**

Water Level: **75 ft.** below land surface on **2024-03-06** Measurement Method: **Electric Line**

Packers: **Rubber at 180 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **220**

Well Tests: **Jetted** **Yield: >100 GPM GPM**

Water Quality:

Strata Depth (ft.)	Water Type
180 - 275	**Edwards**

Chemical Analysis Made: **Yes**

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

The driller did certify that while drilling, deepening or otherwise altering the above described well, injurious water or constituents was encountered and the landowner or person having the well drilled was informed that such well must be completed or plugged in such a manner as to avoid injury or pollution.

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: **Trinity Water Solutions**

PO BOX 328
JARRELL, TX 76537

Driller Name: **Michael Griffis** License Number: **60683**

Apprentice Name: **Dylan Barbiaux**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**2**	**Topsoil**
2	**10**	**Clay**
10	**30**	**Sand/Gravel**
30	**140**	**Grey Shale**
140	**190**	**Tan Limestone**
190	**230**	**Tan/Grey Limestone (Water)**
230	**250**	**Limestone (Big Chunks)**
250	**280**	**Grey/Tan Limestone and Shale**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
8	**Blank**	**New Steel**	**40**	**-2**	**60**
4.5	**Blank**	**New Plastic (PVC)**	**SDR 17**	**-1**	**180**
4.5	**Perforated or Slotted**	**New Plastic (PVC)**	**SDR 17 0.032**	**180**	**280**

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #666730

Owner:	**City of Georgetown**	Owner Well #:	**St-10+50**
Address:	**300 Industrial Ave Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 32.58" N**
		Longitude:	**097° 37' 12.46" W**
	Piezo is 1880-feet east of the FM 971 Dry Berry Creek bridge, approx 75 feet north of the roadway	Elevation:	**639 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **5/20/2024** Drilling End Date: **5/21/2024**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**6**	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
Filter Pack Intervals:	**3**	**30**	**Sand**	**16/30**

	Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
Annular Seal Data:	**0**	**2**	**Concrete 2 Bags/Sacks**
	2	**3**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**20**	**Brown sandy clay**
20	**30**	**Firm grey dry clay**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

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

STATE OF TEXAS WELL REPORT for Tracking #666734

Owner:	**City of Georgetown**	Owner Well #:	**St-23**
Address:	**300 Industrial Ave Georgetown, TX 78626**	Grid #:	**58-20-4**
Well Location:	**FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 38.47" N**
		Longitude:	**097° 37' 21.32" W**
	Piezo is 2400-feet east of the FM 971 bridge and approximately 800-feet north of FM 971	Elevation:	**628 ft. above sea level**
Well County:	**Williamson**		

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

Drilling Start Date: **5/17/2024** Drilling End Date: **5/17/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
6	**0**	**30**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Filter Material*	*Size*
3	**30**	**Sand**	**16/30**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**3**	**Bentonite 1 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L McRae** License Number: **59656**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**15**	**Brown clay w/ sandy gravel**
15	**28**	**Gray shale**
28	**30**	**Gray limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**5**
2	**Screen**	**New Plastic (PVC)**	**40 0.010**	**5**	**30**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #680323

Owner:	**Ward & Burke Tunneling Inc**	Owner Well #:	**PZ-ST-3**
Address:	**21 E State St, Suite 200 Columbus, OH 43215**	Grid #:	**58-20-4**
		Latitude:	**30° 40' 31.2" N**
Well Location:	**3500 FM 971 Georgetown, TX 78626**	Longitude:	**097° 37' 05.78" W**
Well County:	**Williamson**	Elevation:	**637 ft. above sea level**
Type of Work:	**New Well**	Proposed Use:	**Monitor**

Drilling Start Date: **9/24/2024** Drilling End Date: **9/24/2024**

	Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
Borehole:	**8**	**0**	**40**

Drilling Method: **Hollow Stem Auger**

Borehole Completion: **Filter Packed**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**2**	**Concrete 2 Bags/Sacks**
2	**13**	**Bentonite 5 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

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

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Water Quality:

Strata Depth (ft.)	Water Type
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: **Austin Geo-Logic**

1316 Ridgefield Loop
Round Rock, TX 78665

Driller Name: **Hamilton L. McRae** License Number: **59656**

Comments: **No water encountered.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**10**	**Brown Clay**
15	**40**	**Sandy Gravel**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	**Riser**	**New Plastic (PVC)**	**40**	**0**	**15**
2	**Screen**	**New Plastic (PVC)**	**40**	**15**	**40**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

STATE OF TEXAS WELL REPORT for Tracking #682361

Owner:	**Ward Burke**	Owner Well #:	**No Data**
Address:	**21 E. State Street Suite 200 Columbus, OH 43215**	Grid #:	**58-20-4**
Well Location:	**3400 FM 971 Georgetown, TX 78626**	Latitude:	**30° 40' 32" N**
		Longitude:	**097° 37' 18" W**
Well County:	**Williamson**	Elevation:	**650 ft. above sea level**

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

Drilling Start Date: **9/13/2024** Drilling End Date: **9/13/2024**

Borehole:

Diameter (in.)	*Top Depth (ft.)*	*Bottom Depth (ft.)*
10	**0**	**19**
8	**19**	**35**
6.5	**35**	**272**

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

Annular Seal Data:

Top Depth (ft.)	*Bottom Depth (ft.)*	*Description (number of sacks & material)*
0	**20**	**Cement 8 Bags/Sacks**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Distance to Property Line (ft.): **120**

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

Distance to Septic Tank (ft.): **300+**

Method of Verification: **Tape**

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

Water Level: **85 ft.** below land surface on **2024-09-13** Measurement Method: **Sonic/Radar**

Packers: **No Data**

Type of Pump: **Unknown**

Well Tests: **Estimated** **Yield: 200 GPM**

Water Quality:

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

Chemical Analysis Made: **No**

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

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

Company Information: **TOM ARNOLD DRILLING**

2750 SOUTH A. W. GRIMES BLVD
ROUND ROCK, TX 78664

Driller Name: **Tommy Arnold** License Number: **2096**

Comments: **No Septic on Property**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	**3**	**Brown Clay**
3	**19**	**Yellow Clay & Gravel**
19	**144**	**Gray Limestone**
144	**165**	**Tan Limestone**
165	**204**	**Brown Limestone**
204	**248**	**Brown & White Limestone**
248	**270**	**Brown Limestone**
270	**272**	**Gray Limestone**

Casing:
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	**Blank**	**New Plastic (PVC)**	**40**	**0**	**55**

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

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

Leah Whallon

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Tuesday, October 14, 2025 2:34 PM
To: Leah Whallon
Cc: Jamie Miller
Subject: Re: Application for Proposed Permit No. WQ0016892001; Berry Creek Land Investment LLC; Wenzel WRRF

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Leah,

The USGS map has just been uploaded to the FTP server and shared to your email 👍

Please let me know if you need anything else!

Thanks,
Janela Revilla, PE

Janela Revilla, PE
Project Engineer
(737) 864-3476
jrevilla@jawastewater.com
3410 Far West Blvd, Suite 170 Austin, TX 78731

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Tuesday, October 14, 2025 9:16 AM
To: Janela Revilla <jrevilla@jawastewater.com>
Cc: Jamie Miller <jmiller@jawastewater.com>
Subject: RE: Application for Proposed Permit No. WQ0016892001; Berry Creek Land Investment LLC; Wenzel WRRF

Thank you, Janela.

The landowner map looks good. If the USGS map is over 25mb please share it to my email address on the FTP site: https://ftps.tceq.texas.gov/.

Let me know if you have any questions.

Thanks,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Monday, October 13, 2025 5:05 PM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Cc: Jamie Miller <jmiller@jawastewater.com>
Subject: Re: Application for Proposed Permit No. WQ0016892001; Berry Creek Land Investment LLC; Wenzel WRRF

Good afternoon Leah,

Please see the attached response, along with the revised exhibits and translation. It appears the maps encountered export errors from my end, so please let me know if the revised version solved the issue.

Due to the USGS maps being too large, you may download them via this Dropbox Link. Alternatively, I can also send them in a separate email, so just let me know your preference.

Thanks,
Janela Revilla, PE

Janela Revilla, PE
Project Engineer
(737) 864-3476
jrevilla@jawastewater.com
3410 Far West Blvd, Suite 170 Austin, TX 78731

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Monday, October 13, 2025 4:22 PM
To: Janela Revilla <jrevilla@jawastewater.com>
Subject: Application for Proposed Permit No. WQ0016892001; Berry Creek Land Investment LLC; Wenzel WRRF

Good Afternoon,

Please see the attached Notice of Deficiency letter dated October 13, 2025, requesting additional information needed to declare the application administratively complete. Please send the complete response by October 27, 2025.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

October 13, 2025

Leah Whallon
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission on Environmental Quality
Austin, TX 78711-3087

Dear Ms. Whallon,

Please see our responses below regarding the Wenzel Water Resource Recovery Facility (WQ0016892001).

1. The USGS maps are not fully legible and have a dark colored overlay covering the applicant's property. Please remove the dark overlay to provide USGS map(s) that clearly show all items.

   Please see the attached revised USGS map. This appears to be a pdf export error from my end.

2. Administrative Report 1.1 The affected landowner map is not fully legible and has a dark colored overlay covering the property boundaries. Please remove the dark overlay to provide USGS map(s) that clearly show all items.

   Please see the attached revised Affected Landowner map. This appears to be a pdf export error from my end.

3. 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.

   This is correct.

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

   Please see attached Spanish Translation word document.

Please let us know if you need anything else.

Thank you,

Janela Revilla, P.E.
Project Engineer
JA Wastewater, LLC

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

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
USGS Map

WEIR QUADRANGLE
TEXAS - WILLIAMSON
7.5-MINUTE TOPO

Well ID No. 312194 — More than 150' from Disposal Areas
Well ID No. 430044
Well ID No. 630209
Well ID No. 554374
Well ID No. 417846
Well ID No. 160668
Well ID No. 378148
Effluent Storage Ponds
1-mile radius from WRRF
Well ID No. 622727
Well ID No. 622731
WRRF with 150' Buffer Zone
Disposal Areas
Well ID No. 5820416
Well ID No. 5820406
Applicant Property
Well ID No. 657951
Well ID No. 300968
Well ID No. 211452
Well ID No. 482314
Well ID No. 5820410
Well ID No. 5820409
Well ID No. 5820411 — More than 500' from Disposal Areas
Well ID No. 42881
Well ID No. 42877
Well ID No. 680323 — More than 150' from Disposal Areas
Well ID No. 666730
Well ID No. 682361 — These wells will be plugged
Well ID No. 666734
Well ID No. 5820402
Well ID No. 5820412 — More than 150' from Disposal Areas

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 2025 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
MN, GN, 3°5′ 55 MILS, 0°44′ 13 MILS

U.S. National Grid
100,000 - m Square ID
PV 34 00 PU
Grid Zone Designation 14R

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

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

USER DEFINED CONTENT

TEXAS

QUADRANGLE LOCATION

Cobbs Cavern	Jarrell	Bartlett
Georgetown	Weir	Granger
Round Rock	Hutto	Taylor

ADJOINING QUADRANGLES

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

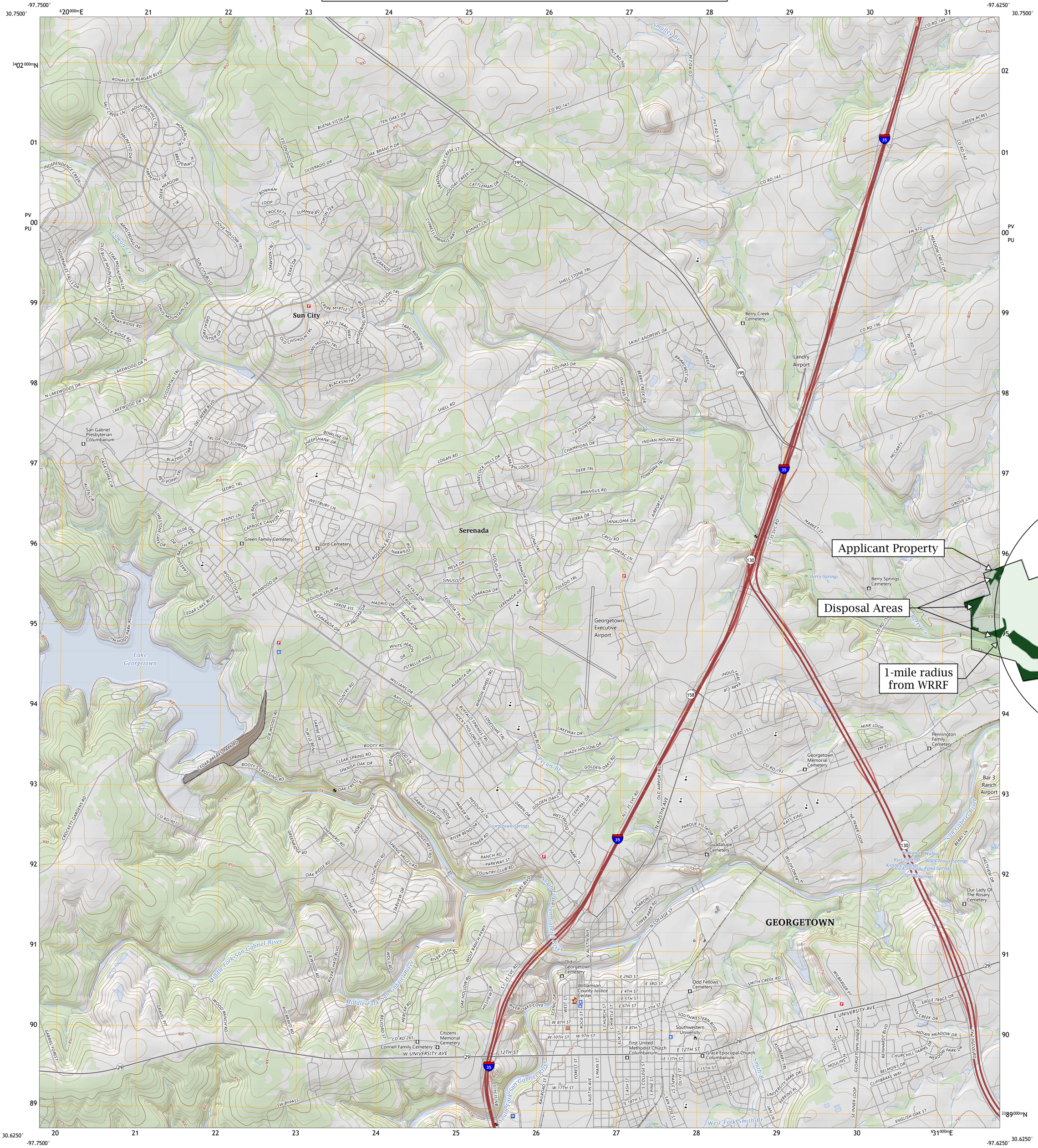
WEIR, TX
2025

j&a WASTEWATER

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

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
USGS Map

GEORGETOWN QUADRANGLE
TEXAS - WILLIAMSON
7.5-MINUTE TOPO



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: UNIVERSAL TRANSVERSE MERCATOR, ZONE 14R

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

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

MN
GN
3°9′ 56 MILS
0°40′ 12 MILS
UTM GRID AND 2025 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
PV
34 00
PU
Grid Zone Designation
14R

SCALE 1:24 000

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

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

USER DEFINED CONTENT

TEXAS
QUADRANGLE LOCATION

Florence	Cobbs Cavern	Jarrell
Leander NE	Georgetown	Weir
Leander	Round Rock	Hutto

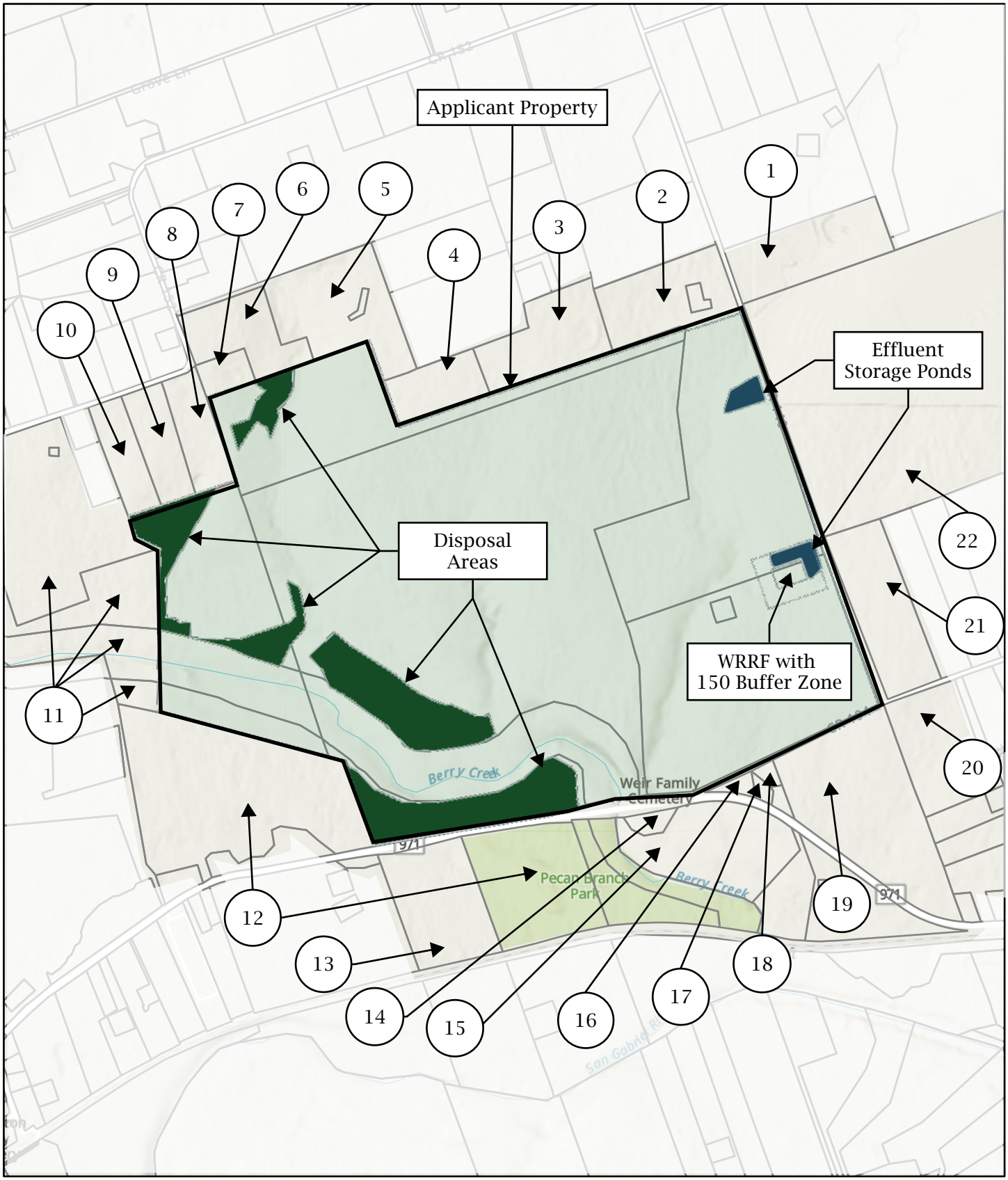
ADJOINING QUADRANGLES

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

GEORGETOWN, TX
2025

J&A WASTEWATER

WENZEL
WATER RESOURCE RECOVERY FACILITY (WRRF)
Affected Landowner Map



5/27/2025, 1:51:20 PM

Parcels

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

J&A WASTEWATER

Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

Williamson Central Appraisal District
Esri, NASA, NGA, USGS, FEMA | City of Round Rock GIS/IT Department | Esri Community Maps Contributors, Baylor University, County of Williamson, Texas Parks & Wildlife, © OpenStreetMap,

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ00

SOLICITUD. Berry Creek Land Investment LLC, 40 East 94th Street, Apartment 26A, New York, New York 10128, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016892001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 195.000 galones por día mediante aplicación superficial en aproximadamente 55,9 acres. La planta y el área de disposición estarán ubicados aproximadamente a 1500 pies al noroeste de la intersección de County Road 140 y County Road 194, cerca de la ciudad de Georgetown, en el condado de Williamson, Texas 78626. La TCEQ recibió esta solicitud el 3 de octubre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Pública de Georgetown, 402 West 8th Street, Georgetown, Condado de Williamson, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.609032,30.682632&level=18

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

AVISO ADICIONAL. El Director Ejecutivo de la TCEQ ha determinado que la solicitud es administrativamente completa y conducirá una revisión técnica de la solicitud. Después de completar la revisión técnica, el Director Ejecutivo puede preparar un borrador del permiso y

emitirá una Decisión Preliminar sobre la solicitud. **El aviso de la solicitud y la decisión preliminar serán publicados y enviado a los que están en la lista de correo de las personas a lo largo del condado que desean recibir los avisos y los que están en la lista de correo que desean recibir avisos de esta solicitud. El aviso dará la fecha límite para someter comentarios públicos.**

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

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

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

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron

retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios.**

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

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

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

También se puede obtener información adicional del Berry Creek Land Investment LLC a la dirección indicada arriba o llamando a Ms. Janela Revilla, P.E., JA Wastewater LLC, al 737-864-3476.

Fecha de emisión: *[Date notice issued]*