



# Technical Package Cover Page

**This file contains the following documents:**

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



# Portada de Paquete Técnico

**Este archivo contiene los siguientes documentos:**

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



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

#### ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

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

Arbor Way, Inc. (CN: 603257957) proposes to operate Two Rivers Wastewater Treatment Plant (RN: 104790332), a wastewater treatment facility. The facility will be located at approximately 1,200-feet northwest of the intersection of Haynie Flat Road and Travis Lakeside Drive, in Spicewood, Travis County, Texas 78669. Permit renewal with minor amendment to add 0.160 MGD flow phase. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day biological oxygen demand (BOD<sub>5</sub>), total suspended solids (TSS), and *Escherichia coli*. Domestic wastewater will be treated by an activated sludge process plant and the treatment units include a bar screen, digester, aeration basin, clarifier, and chlorine contact basin.



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

AGUAS RESIDUALES Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /AGUAS PLUVIALES

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

Arbor way, Inc (CN: 603257957) propone operar la Planta de Tratamiento de Aguas Residuales Two Rivers RN: 104790332, una instalacion de tratamiento de aguas residuales. La instalación estará ubicada en aproximadamente a 1,200 pies al noroeste de la interseccion de Haynie Flat Road y Travis Lakeside Drive, en Spicewood, Condado de Travis, Texas 78669. Renovación del permiso con enmienda menor para agregar una fase de flujo de 0.160 MGD. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda biologica de oxigeno de cinco dias (BOD5), solidos suspendidos totales (TSS), y Escherichia coli . Aguas residuales domesticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluyen criba de barras, digestor, balsa de aireación, clarificador y balsa de contacto de cloro.

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PERMIT NO. WQ0014649001

**APPLICATION.** Arbor Way, Inc., 3100 West Alabama Street, Houston, Texas 77098, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Land Application Permit (TLAP) No. WQ0014649001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 320,000 gallons per day via surface irrigation on 170 acres of golf course. The domestic wastewater treatment facility and disposal area are located approximately 1,200 feet northwest of the intersection of Haynie Flat Road and Lakeside Drive, in Travis County, Texas 78669. TCEQ received this application on November 7, 2024. The permit application will be available for viewing and copying at Lake Travis Community Library, 1938 Lohmans Crossing Road, Lakeway, in Travis County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.075277,30.450277&level=18>

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

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

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

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

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

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

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

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

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

**INFORMATION AVAILABLE ONLINE.** For details about the status of the application, visit the Commissioners' Integrated Database at [www.tceq.texas.gov/goto/cid](http://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](http://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 Arbor Way, Inc. at the address stated above or by calling Ms. Yvonne Rivera, P.E., Project Manager, DE Corp., at 713-520-9570.

Issuance Date: December 13, 2024

# Comisión de Calidad Ambiental del Estado de Texas



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

**PERMISO NO. WQ0014649001**

**SOLICITUD.** Arbor Way, Inc., 3100 West Alabama Street, Houston, Texas 77098, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No. WQ0014649001 de disposición de aguas residuales para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 320,000 galones por día via irrigación en 170 hectares de tierra de campo de golf. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 1,200 pies al noroeste de la intersección de Haynie Flat Road y Travis Lakeside Drive en el Condado de Travis, Texas 78669. La TCEQ recibió esta solicitud el día 7 de noviembre de 2024. La solicitud para el permiso estará disponible para leer y copiar en Lake Travis Community Library, 1938 Lohmans Crossing Road, Lakeway, en el condado Travis, 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=-98.075277,30.450277&level=18>

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

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

**OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO.**

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

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

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

**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 de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue 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.

**CONTACTOS E INFORMACIÓN DE LA TCEQ.** Todos los comentarios escritos del

**público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at [www.tceq.texas.gov/about/comments.html](http://www.tceq.texas.gov/about/comments.html).** Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: [www.tceq.texas.gov](http://www.tceq.texas.gov).

También se puede obtener información adicional del Arbor Way, Inc. a la dirección indicada arriba o llamando a Senora Yvonne Rivera, DECorp., al 713-520-9570.

Fecha de emission: 13 de diciembre de 2024



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

### RENEWAL

**PERMIT NO. WQ0014649001**

**APPLICATION AND PRELIMINARY DECISION.** Arbor Way, Inc., 3100 West Alabama Street, Houston, Texas 77098, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of TCEQ Permit No. WQ0014649001 which authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 430,000 gallons per day via surface irrigation on 170 acres of golf course. The draft permit authorizes the disposal of treated domestic wastewater at a daily average flow not to exceed 320,000 gallons per day via surface irrigation on 170 acres of golf course. This permit will not authorize a discharge of pollutants into water in the state. TCEQ received this application on November 7, 2024.

The wastewater treatment facility and disposal site will be located approximately 1,200 feet northwest of the intersection of Haynie Flat Road and Lakeside Drive, in Travis County, Texas 78669. The wastewater treatment facility and disposal site will be located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.075277,30.450277&level=18>

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at Lake Travis Community Library, 1938 Lohmans Crossing Road, Lakeway, in Travis County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

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

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

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

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

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

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

**EXECUTIVE DIRECTOR ACTION.** The Executive Director may issue final approval of the application unless a timely contested case hearing request or request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the Executive Director will not issue final approval of the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

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

**All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, Texas Commission on Environmental Quality, P.O. Box 13087, Austin, TX 78711-3087 or electronically at [www.tceq.texas.gov/goto/comment](http://www.tceq.texas.gov/goto/comment) within 30 days from the date of newspaper publication of this notice.**

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

**AGENCY CONTACTS AND INFORMATION.** Public comments and requests must be submitted either electronically at [www.tceq.texas.gov/goto/comment](http://www.tceq.texas.gov/goto/comment), or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at [www.tceq.texas.gov/goto/pep](http://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 Arbor Way, Inc. at the address stated above or by calling Ms. Yvonne Rivera, P.E., Project Manager, DE Corp., at 713-520-9570.

Issuance Date: April 29, 2025

# Comisión De Calidad Ambiental Del Estado De Texas



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

### RENOVACIÓN

**PERMISO NO. WQ0014649001**

**SOLICITUD Y DECISIÓN PRELIMINAR.** Arbor Way, Inc., 3100 W Alabama Street, Houston, Texas 77098, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por una renovación para autorizar la disposición de aguas residuales domésticas tratadas con un caudal medio diario que no supere los 430.000 galones diarios mediante riego superficial en 170 acres de campo de golf. El proyecto de permiso autoriza la disposición de aguas residuales domésticas tratadas con un caudal medio diario que no supere los 320.000 galones diarios mediante riego superficial en 170 acres de campo de golf. Este permiso no autorizará una descarga de contaminantes a las aguas del estado. La TCEQ recibió esta solicitud el 7 de noviembre de 2024.

La planta y el sitio de disposición están ubicadas en aproximadamente a 1200 pies al noroeste de la intersección de Haynie Flat Road y Lakeside Drive en el Condado de Travis, Texas. La planta y el sitio de disposición están ubicados en la cuenca de drenaje de Lake Travis en el Segmento No. 1404 de la Cuenca del Río Colorado. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.075277,30.450277&level=18>

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en Lake Travis Community Library, 1938 Lohmans Crossing Road, Lakeway, in Travis County, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web:

<https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tlap-applications>.

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

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

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

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

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

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

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

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

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

También se puede obtener información adicional del Arbor Way, Inc. a la dirección indicada arriba o llamando a Senora Yvonne Rivera, P.E. al 713-520-9570.

Fecha de emission: 29 de abril de 2025



PERMIT NO. WQ0014649001

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

This is a renewal of Permit No.  
WQ0014649001 issued on  
September 30, 2015.

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

Arbor Way, Inc.

whose mailing address is

3100 West Alabama Street,  
Houston, Texas 77098,

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

General Description and Location of Waste Disposal System:

Description: The Two Rivers Wastewater Treatment Facility consists of an activated sludge process plant using the complete mix mode of single staged nitrification. Treatment units for Interim phase include a bar screen, two aeration basins, a final clarifier, two aerobic digesters, and a chlorine contact chamber. Treatment units for Final phase include a bar screen, four aeration basins, two final clarifiers, four aerobic digesters, and two chlorine contact chambers.

The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.16 million gallons per day (MGD) in the Interim phase, and 0.32 MGD in the Final phase via surface irrigation on 170 acres of golf course. The facility includes four storage ponds with a total surface area of 8.6 acres and total capacity of 78.5 acre-feet for storage of treated effluent prior to irrigation.

Application rates to the irrigated land shall not exceed 1.05 acre-feet per year per acre irrigated in the Interim Phase and 2.11 acre-feet per year per acre irrigated in the Final Phase. The irrigated crops include Bermuda grass and native grasses.

Location: The wastewater treatment facility and disposal site are located approximately 1,200 feet northwest of the intersection of Haynie Flat Road and Lakeside Drive, in Travis County, Texas 78669. (See Attachment A.)



Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. No discharge of pollutants into water in the state is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight, **ten years from the date of issuance.**

ISSUED DATE:

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For the Commission

**EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**Conditions of the Permit: No discharge of pollutants into water in the state is authorized.**

A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

Volume: Daily Average Flow – 0.16 MGD in the Interim phase  
0.32 MGD in the Final phase

Quality: The following effluent limitations are required:

<u>Parameter</u>	<u>Effluent Concentrations</u> (Not to Exceed)			
	<u>Daily Average</u> mg/l	<u>7-Day Average</u> mg/l	<u>Daily Maximum</u> mg/	<u>Single Grab</u> mg/l
Biochemical Oxygen Demand (5-day)	20	30	45	65
Total Suspended Solids	20	30	45	65

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of 20 minutes. If the effluent is to be transferred to a holding pond or tank, re-chlorination prior to the effluent being delivered into the irrigation system will be required. A trace total chlorine residual shall be maintained in the effluent at the point of irrigation application.

B. Monitoring Requirements:

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	One/week	Grab
Total Suspended Solids	One/week	Grab
pH	One/month	Grab
Total Chlorine Residual	Five/week	Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

**STANDARD PERMIT CONDITIONS**

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

**DEFINITIONS**

All definitions in Section 26.001 of the Texas Water Code and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

**1. Flow Measurements**

- a. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- b. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.
- c. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

**2. Concentration Measurements**

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
  - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

### 3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).
  - b. Grab sample - an individual sample collected in less than 15 minutes.
4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.
  5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.
  6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.
  7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

## MONITORING REQUIREMENTS

### 1. Monitoring Requirements

Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§ 319.4 - 319.12.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record or other document submitted or required to be maintained under this permit, including monitoring reports, records or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

### 2. Test Procedures

- a. Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests and calculations shall be accurately accomplished in a representative manner.

- b. All laboratory tests submitted to demonstrate compliance with this permit must meet the requirements of 30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.

### 3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, or application. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that may be instituted against the permittee.

### 4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

### 5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

### 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
- b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
  - i. Unauthorized discharges as defined in Permit Condition 2(g).
  - ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.
- c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
- d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.

8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

- i. One hundred micrograms per liter (100 µg/L);
  - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.
- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following “notification levels”:
- i. Five hundred micrograms per liter (500 µg/L);
  - ii. One milligram per liter (1 mg/L) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

#### 10. Signatories to Reports

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

### PERMIT CONDITIONS

#### 1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of this permit;
  - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance



- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
  - b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
  - c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
  - d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.
  - e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
  - f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
  - g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.
  - h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties).
3. Inspections and Entry
- a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.
  - b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to

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

#### 4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
  - ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

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

#### 5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

#### 6. Relationship to Hazardous Waste Activities

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

#### 7. Property Rights

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

#### 8. Permit Enforceability

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

#### 9. Relationship to Permit Application

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

#### 10. Notice of Bankruptcy.

- a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

- b. This notification must indicate:
- i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

## **OPERATIONAL REQUIREMENTS**

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.
2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).
7. Documentation

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

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

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

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

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.
- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any

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

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
  - a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Remediation Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
  - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
    - i. Volume of waste and date(s) generated from treatment process;
    - ii. Volume of waste disposed of on-site or shipped off-site;
    - iii. Date(s) of disposal;

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

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

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

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## SLUDGE PROVISIONS

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

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

#### A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.
2. In all cases, if the person (permit holder) who prepares the sewage sludge or biosolids supplies the sewage sludge or biosolids to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge or biosolids to assure compliance with these regulations.
3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

#### B. Testing Requirements

1. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

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

TABLE 1

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

\* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

Alternative 1

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and
- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

- i. Food crops with harvested parts that touch the biosolids /soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
- v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.
- vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.
- ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.
4. Vector Attraction Reduction Requirements
- All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.
- Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.
- Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.
- Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.
- Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.
- Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.
- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

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

Alternative 9 -

- i. Sewage sludge shall be injected below the surface of the land.
- ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
- iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10 -

- i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
- ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

### C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- once during the term of this permit
PCBs	- once during the term of this permit

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

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

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

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

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

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

Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, sewage sludge or biosolids for disposal at a landfill) and whether the material is ultimately conveyed off-site in bulk or in bags.



**SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A, CLASS AB or B BIOSOLIDS PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3**

For those permittees meeting Class A, Class AB or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

**A. Pollutant Limits**

Table 2

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

Table 3

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

\*Dry weight basis

**B. Pathogen Control**

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

**C. Management Practices**

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge or biosolids enters a wetland or other waters in the State.
2. Bulk sewage sludge not meeting Class A biosolids requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.
3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.
4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:
  - a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.
  - b. A statement that application of the Class A or AB biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.
  - c. The annual whole sludge application rate for the sewage sludge application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

**D. Notification Requirements**

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:
  - a. The location, by street address, and specific latitude and longitude, of each land application site.
  - b. The approximate time period bulk biosolids will be applied to the site.
  - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.
2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

**E. Record Keeping Requirements**

The documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a biosolids material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period

of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:
  - a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee’s specific sludge or biosolids treatment activities.
  - b. The location, by street address, and specific latitude and longitude, of each site on which sludge or biosolids are applied.
  - c. The number of acres in each site on which bulk sludge or biosolids are applied.
  - d. The date and time sludge or biosolids are applied to each site.
  - e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
  - f. The total amount of sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

## **F. Reporting Requirements**

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Identify the nature of material generated by the facility (such as a biosolid for beneficial use or land-farming, or sewage sludge for disposal at a monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.
3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
4. The frequency of monitoring listed in Section I.C. that applies to the permittee.
5. Toxicity Characteristic Leaching Procedure (TCLP) results.
6. PCB concentration in sludge or biosolids in mg/kg.
7. Identity of hauler(s) and TCEQ transporter number.
8. Date(s) of transport.
9. Texas Commission on Environmental Quality registration number, if applicable.
10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.
11. The concentration (mg/kg) in the sludge or biosolids of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
12. Level of pathogen reduction achieved (Class A, Class AB or Class B).
13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.
14. Identify each of the analytic methods used by the facility to analyze enteric viruses, fecal coliforms, helminth ova, *Salmonella* sp., and other regulated parameters.
15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.
17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.
18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
  - a. The location, by street address, and specific latitude and longitude.
  - b. The number of acres in each site on which bulk biosolids are applied.
  - c. The date and time bulk biosolids are applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.
  - e. The amount of biosolids (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

**SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE OR BIOSOLIDS DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL**

- A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge or biosolids meet the requirements in 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge or biosolids and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.
- D. Sewage sludge or biosolids shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 11) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224), by September 30<sup>th</sup> of each year.

- E. Sewage sludge or biosolids shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.
- F. Record Keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

#### G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. Toxicity Characteristic Leaching Procedure (TCLP) results.
3. Annual sludge or biosolids production in dry tons/year.
4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.
5. Amount of sludge or biosolids transported interstate in dry tons/year.
6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
7. Identity of hauler(s) and transporter registration number.
8. Owner of disposal site(s).
9. Location of disposal site(s).
10. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

**SECTION IV. REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING**

These provisions apply to sludge or biosolids that is transported to another wastewater treatment facility or facility that further processes sludge or biosolids. These provisions are intended to allow transport of sludge or biosolids to facilities that have been authorized to accept sludge or biosolids. These provisions do not limit the ability of the receiving facility to determine whether to accept the sludge or biosolids, nor do they limit the ability of the receiving facility to request additional testing or documentation.

**A. General Requirements**

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge.
2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

**B. Record Keeping Requirements**

1. For sludge or biosolids transported by an approved pipeline, the permittee must maintain records of the following:
  - a. the amount of sludge or biosolids transported;
  - b. the date of transport;
  - c. the name and TCEQ permit number of the receiving facility or facilities;
  - d. the location of the receiving facility or facilities;
  - e. the name and TCEQ permit number of the facility that generated the waste; and
  - f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.
2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.
3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.



**C. Reporting Requirements**

The permittee shall submit the following information in an annual report to the TCEQ by September 30<sup>th</sup> of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224).

1. Identify in the following categories (as applicable) the sewage sludge or biosolids treatment process or processes at the facility: preliminary operations (e.g., sludge or biosolids grinding and degritting), thickening (concentration), stabilization, anaerobic digestion, aerobic digestion, composting, conditioning, disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization), dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons), heat drying, thermal reduction, and methane or biogas capture and recovery.
2. the annual sludge or biosolids production;
3. the amount of sludge or biosolids transported;
4. the owner of each receiving facility;
5. the location of each receiving facility; and
6. the date(s) of disposal at each receiving facility.

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**SPECIAL PROVISIONS:**

1. This permit is granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, if an area-wide system is developed; to require the delivery of the wastes authorized to be collected in, treated by, or discharged from the system, to an area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment, or disposal system.
2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category D\* facility must be operated by a chief operator or an operator holding a Class D\* license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

\*A Class D Wastewater Treatment Operator license is not renewable for operators of a facility listed in 30 TAC Section 30.342(c) and must be upgraded to a Class C Wastewater Treatment Operator license or higher prior to the expiration date of the Class D license.

3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
4. Prior to construction of the 0.16 MGD and 0.32 MGD wastewater treatment facilities, the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) of the Water Quality Division, a summary transmittal letter according to the requirements in 30 TAC § 217.6(d). If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications and a final engineering design report which comply with the requirements of 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems. The permittee shall clearly show how the treatment system will meet the permitted effluent limitations required on Page 2 of the permit. A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

Plans and specifications have been approved for the 0.16 MGD wastewater treatment

facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. A summary transmittal approval letter was issued (July 13, 2023) (Log No. 0523/022). A copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

5. Reporting requirements according to 30 TAC § 319.1-319.11 and any additional effluent reporting requirements contained in this permit are suspended from the effective date of the permit until plant startup or discharge, whichever occurs first, from the facility described by this permit. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 11) and the Applications Review and Processing Team (MC 148) of the Water Quality Division at least forty-five (45) days prior to plant startup or anticipated discharge, whichever occurs first, and prior to completion of each additional phase on Notification of Completion Form 20007.
6. On June 5, 2014, the permittee submitted sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC § 309.13(e)(3). The permittee shall also comply with the requirements of 30 TAC § 309.13(a) through (d). (See Attachment B.)
7. The irrigated crops include Bermuda grass and native grasses. Application rates to the irrigated land shall not exceed 1.05 acre-feet per year per acre irrigated in the Interim I Phase and 2.11 acre-feet per year per acre irrigated in the Final Phase. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.
8. Irrigation practices shall be designed and managed as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. To promote effluent and nutrient uptake by the crop, and to prevent pathways for effluent surfacing, the Bermuda grass and native grasses shall be established and well maintained in the irrigation area throughout the year. Tailwater control facilities shall be provided as necessary to prevent the discharge of any effluent from the irrigated land.
9. Effluent shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
10. For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
12. Irrigation with effluent shall be accomplished only when the area specified is not in use.
13. The permittee shall obtain representative soil samples from the root zones of the land

application area. Composite sampling techniques shall be used. Each composite sample shall represent no more than 80 acres with no fewer than 10 to 15 subsamples representing each composite sample. For analysis and reporting, subsamples shall be composited by like sampling depth, type of crop, and soil type. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below ground level. The permittee shall sample soils in December to February of each year. Soil samples shall be analyzed within 30 days of sample collection.

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

Parameter	Method	Minimum Analytical Level (MAL)	Reporting units
pH	2:1 (v/v) water to soil mixture		Reported to 0.1 pH units after calibration of pH meter
Electrical Conductivity	2:1 (v/v) water to soil mixture	0.01	dS/m (same as mmho/cm)
Nitrate-nitrogen	From a 1 <u>N</u> KCl soil extract	1	mg/kg (dry weight basis)
Total Kjeldahl Nitrogen (TKN)	For determination of Organic plus Ammonium Nitrogen. Procedures that use Mercury (Hg) are not acceptable.	20	mg/kg (dry weight basis)
Total Nitrogen	= TKN + nitrate-nitrogen (same as, organic-nitrogen + ammonium-nitrogen + nitrate-nitrogen)		mg/kg (dry weight basis)
Plant-available: Phosphorus (P)	Mehlich III with inductively coupled plasma	1	mg/kg (dry weight basis)
Plant-available: Potassium (K) Calcium (Ca) Magnesium (Mg) Sodium (Na) Sulfur (S)	May be determined in the same Mehlich III extract with inductively coupled plasma	5 (K) 10 (Ca) 5 (Mg) 10 (Na) 1 (S)	mg/kg (dry weight basis)
Amendment addition, e.g., gypsum			Report in <i>short tons/acre</i> in the year effected

The permittee shall provide a copy of this plan to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the Water Quality Assessment Team (MC 150), TCEQ Regional Office (MC Region 11) and the Enforcement Division (MC 224) no later than end of September following the sampling date of each year. If wastewater is not applied in a particular year, the permittee shall notify the same TCEQ offices and indicate that wastewater has not been applied on the approved land disposal sites during that year.

14. The permittee shall use cultural practices to promote and maintain the health and propagation of the Bermuda grass and native grass crops and avoid plant lodging. The permittee shall harvest the crops (cut and remove it from the field) at least one time during the year. Harvesting and mowing dates shall be recorded in a log book kept on site to be made available to TCEQ personnel upon request.
15. The physical condition of the spray irrigation fields will be monitored on a weekly basis when the fields are being utilized for the purpose of wastewater irrigation. Any areas with problems such as surface runoff, surficial erosion, stressed or damaged vegetation will be recorded in the field log kept onsite and corrective measures will be initiated within 24 hours of discovery.
16. Holding or storage ponds shall conform to the design criteria for stabilization ponds with regard to construction and levee design and shall maintain a minimum freeboard of two feet according to 30 TAC Chapter 217, Design Criteria for Domestic Wastewater Systems.
17. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
18. The permittee shall comply with buffer zone requirements of 30 TAC §309.13(c). A wastewater treatment plant unit, defined by 30 TAC Section §309.11(9), must be located a minimum horizontal distance of 250 feet from a private well and a minimum horizontal distance of 500 feet from a public water well site, spring, or other similar sources of public drinking water, as provided by §290.41(c)(1)(C) of this title.
19. The permittee shall comply with the buffer zone requirements of 30 TAC §309.13(c), specifically regarding water wells and waters in the state. The permittee must locate the wastewater irrigation fields a minimum horizontal distance of 500 feet from public water wells, springs, or other similar sources of public drinking water and 150 feet from private water wells. A vegetative buffer of 150 feet minimum shall be maintained around the surface water bodies, water courses, and Lake Travis where the application of wastewater will not occur.
20. Facilities for the retention of treated or untreated wastewater (Golf Course Pond 1 and Future Golf Course Ponds 2, 3, and 4) shall be adequately lined to control seepage in accordance with 30 TAC §217.203 and 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. New or modified wastewater ponds shall not be put into service until the permittee demonstrates that the pond liners meet the requirements of 30 TAC §217.203 and 30 TAC §309.13(d). The permittee shall demonstrate that the number, location, and test results of samples collected for geotechnical testing are in accordance with 30 TAC §217.203(d) and (e), and that the liner has a minimum thickness of 3 feet in

accordance with 30 TAC §309.13(d) since the facility overlies the recharge zone of an aquifer. The report providing this demonstration shall be submitted to the Water Quality Assessment Team (MC-150) and the TCEQ Regional Office (MC-Region 11) for review and approval prior to use of the wastewater ponds. If a synthetic liner is to be used, the liner thickness shall be a minimum of 40 mils and be constructed with an underground leak detection system with appropriate sampling points.

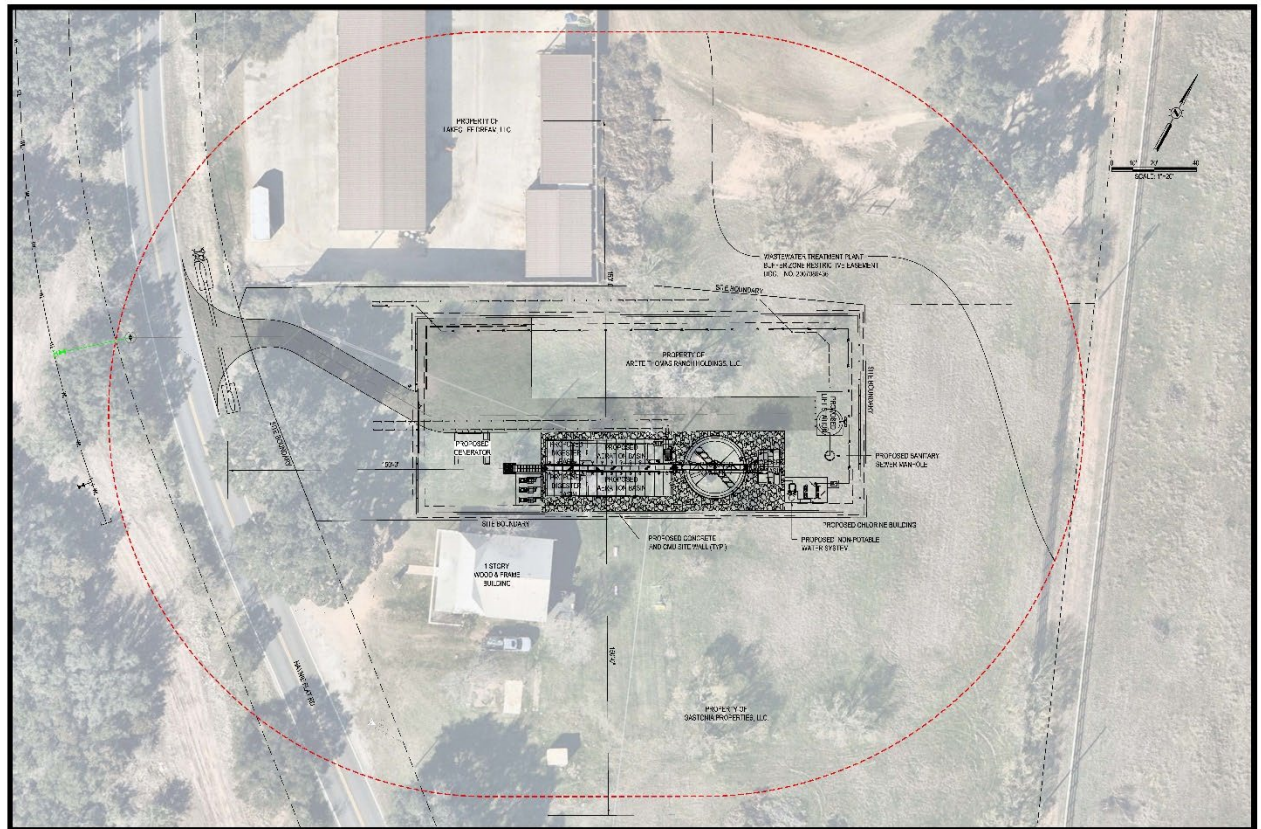
21. The permittee shall submit the liner certification for a newly-constructed or modified wastewater pond to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC-Region 11), and the TCEQ Compliance Monitoring Section (MC-224) within 30 days of completion and prior to use. The certification shall be signed and sealed by a Texas-licensed Professional Engineer and include a description of how the liner meets the requirements of 30 TAC §217.203 and 30 TAC §309.13(d).
22. Discharge from wastewater ponds is prohibited. New or modified wastewater ponds shall not be put into service until the permittee demonstrates that the connection of canals or surface water conveyances to the wastewater ponds is removed or the canal or surface water conveyance is lined to meet the standards above. The permittee shall submit documentation that the wastewater ponds are not connected to surface water conveyances with the liner certification to the Water Quality Assessment Team (MC-150), the TCEQ Regional Office (MC-Region 11), and the TCEQ Compliance Monitoring Section (MC-224) within 30 days of completion and prior to use.
23. Facilities for the retention of treated or untreated wastewater shall be adequately managed and lined to control seepage. At least once per month, the permittee shall inspect the sides and bottom (if visible) of the wastewater ponds for signs of damage and leakage, and any pond leak detection systems that are in service. Leaking ponds shall be removed from service, or operated in a manner to prevent discharge, until repairs are made or replacement ponds are constructed. A record of the monthly inspections shall be maintained in a field log and kept onsite for TCEQ inspection.
24. Pond liner certifications and all liner construction and repair documentation shall be maintained by the Permittee for the life of the facility and be made available for TCEQ personnel for inspection and review.
25. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.



[illegible]



ATTACHMENT 6  
BUFFER ZONE MAP





## **TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION**

### DESCRIPTION OF APPLICATION

Applicant:	Arbor Way, Inc. TCEQ Permit No. WQ0014649001
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	Renewal
Request:	Renewal with changes
Authority:	Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 305, 309, 312, 319, and 30; and Commission policies.

### EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. draft permit includes an expiration date of **ten years from the date of issuance**, according to 30 TAC Section 305.127(1)(C)(ii)(III), Conditions to be Determined for Individual Permits.

### REASON FOR PROJECT PROPOSED

Arbor Way, Inc. has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Permit No. WQ0014649001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.43 million gallons per day (MGD) via surface irrigation on 170 acres of golf course. In the Interim phase, the facility will include one storage pond with a total surface area of 4.5 acres and a total capacity of 40.5 acre-feet for storage. In the Final phase, the facility will include three storage ponds with a total surface area of 1.3 acres, 1.8 acres, and 1.0 acres, and total capacity of 12.0 acre-feet, 17.0 acre-feet and 9.0 acre-feet for storage of treated effluent prior to irrigation. The proposed wastewater treatment facility will serve Travis County Improvement District No. 1, a 1,250-acre single family residential development.

### PROJECT DESCRIPTION AND LOCATION

The Two Rivers Wastewater Treatment Facility will consist of an activated sludge process plant using the complete mix mode of single staged nitrification. Treatment units for Interim phase include a bar screen, two aeration basins, a final clarifier, two aerobic digesters, and a chlorine contact chamber. Treatment units for Final phase include a bar screen, four aeration basins, two final clarifiers, four aerobic digesters, and two chlorine contact chambers. The facility has not been constructed.

The draft permit authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site will be located approximately 1,200 feet

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northwest of the intersection of Haynie Flat Road and Lakeside Drive in Travis County, Texas 78669.

The wastewater treatment facility and disposal site will be located in the drainage basin of Lake Travis in Segment No. 1404 of the Colorado River Basin. No discharge of pollutants into water in the state is authorized by this permit.

#### SUMMARY OF EFFLUENT DATA

There is no effluent data since the facility has not been constructed.

#### DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.16 MGD in the Interim phase and 0.32 MGD in the Final phase via surface irrigation on 170 acres of golf course. The facility will include four storage ponds with a total surface area of 8.6 acres and total capacity of 78.5 acre-feet for storage of treated effluent prior to irrigation. Application rates to the irrigated land shall not exceed 1.05 acre-feet per year per acre irrigated in the Interim Phase and 2.11 acre-feet per year per acre irrigated in the Final Phase. The irrigated crops include Bermuda grass and native grasses.

The effluent limitations in the draft permit, based on a daily average, are 20 mg/l biochemical oxygen demand (BOD<sub>5</sub>) and 20 mg/l total suspended solids (TSS). The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes based on peak flow.

The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation.

#### SUMMARY OF CHANGES FROM APPLICATION

None.

#### SUMMARY OF CHANGES FROM EXISTING PERMIT

Effluent limitations and monitoring requirements in the draft permit remain the same as the existing permit effluent limitations and monitoring requirements.

The Sludge Provisions, Special Provisions, and Standard Provisions have been revised in the draft permit.

The permittee has applied for a minor amendment to add an Interim phase of 0.16 MGD and a reduction of the Final phase permitted flow (from 0.43 MGD to 0.32 MGD).

The Interim phase II and III in the existing permit are no longer applicable to the draft permit,

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they have been removed. The Interim phase of the draft permit has been revised to include updated special provisions.

Special Provisions Nos. 7, 8, 10, 13, 18, 19, 20, 21, 22, 23 and 24 in the existing permit has been updated in the draft permit.

Special Provisions Nos. 14 and 15 have been added to the draft permit.

Special Provision No. 2 in the existing permit has been updated to reflect the requirements of 30 TAC § 30.342, which does not allow renewal of a Class D operator's license for mechanical treatment plants.

Special Provision No. 22 in the existing permit has been removed based on recommendations of the Water Quality Assessment Team.

SECTION IV, REQUIREMENTS APPLYING TO SLUDGE OR BIOSOLIDS TRANSPORTED TO ANOTHER FACILITY FOR FURTHER PROCESSING, has been added to the Sludge Provisions of the draft permit to allow the transportation of sludge or biosolids to another facility.

The draft permit includes all updates based on the 30 TAC 312 rule change effective April 23, 2020.

#### BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on November 7, 2024, and additional information received on December 12, 2024 and March 19, 2025.
2. Existing TCEQ permit: Permit No. WQ0014649001 issued on September 30, 2015.
3. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

#### PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the Chief Clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the Chief Clerk instructs the applicant to place a copy of the application in a public place for review and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The Chief Clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and

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published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case proceeding.

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed.

The Executive Director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the Executive Director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the Executive Director will not issue the permit and will forward the application and request to the TCEQ Commissioners for their consideration at a scheduled Commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the Executive Director calls a public meeting or the Commission grants a contested case hearing as described above, the Commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the Commission will consider all public comments in making its decision and shall either adopt the Executive Director's response to public comments or prepare its own response.

For additional information about this application, contact Paula Palmar at (512) 239-4561.

*Paula Palmar*

---

Paula Palmar  
Municipal Permits Team  
Wastewater Permitting Section (MC 148)

March 24, 2025

---

Date

## Erwin Madrid

---

**From:** Hendrix, Rebecca <rhendrix@gfnet.com>  
**Sent:** Thursday, December 12, 2024 5:05 PM  
**To:** Erwin Madrid  
**Cc:** Carter Jr., Jack; Rivera, Yvonne  
**Subject:** RE: WQ0014649001 - NOD Response to letter dated 11 22 2024  
**Attachments:** NORI\_Spanish.docx

Good Evening. Please see attached for the word document of the NORI in Spanish. I have changed the contact to Yvonne as well. Rebecca

---

**From:** Erwin Madrid <Erwin.Madrid@tceq.texas.gov>  
**Sent:** Thursday, December 12, 2024 4:59 PM  
**To:** Hendrix, Rebecca <rhendrix@gfnet.com>  
**Cc:** Carter Jr., Jack <jcarter@gfnet.com>; Rivera, Yvonne <yrivera@gfnet.com>  
**Subject:** RE: WQ0014649001 - NOD Response to letter dated 11 22 2024

**[EXTERNAL EMAIL]:** This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Rebecca,

I am working to declare the application admin complete; can you please supply the Spanish NORI in a Word doc?

Also, the Spanish notice lists Mr. Richard Grayum as the contact for Arbor Way, but the English has Yvonne Rivera. These don't have to match, but I want to confirm that this is what you are wanting to list.

Regards,

Erwin Madrid  
Team Lead  
ARP Team | Water Quality Division  
512-239-2191  
Texas Commission on Environmental Quality



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

---

**From:** Hendrix, Rebecca <rhendrix@gfnet.com>  
**Sent:** Wednesday, December 4, 2024 11:56 AM  
**To:** Erwin Madrid <Erwin.Madrid@tceq.texas.gov>  
**Cc:** Carter Jr., Jack <jcarter@gfnet.com>; Rivera, Yvonne <yrivera@gfnet.com>  
**Subject:** WQ0014649001 - NOD Response to letter dated 11 22 2024

Good Morning Erwin. Please see attached for our response to the Notice of Deficiency letter dated November 22, 2024 in regards to the renewal of the permit for Arbor Way, Inc (WQ0014649001). Would you like a hard copy mailed to you as well? Please advise. If you need anything additional, please let me know. Rebecca

# Comisión de Calidad Ambiental del Estado de Texas



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

### PERMISO PROPUESTO NO. WQ0014649001

**SOLICITUD.** Arbor Way, Inc., 3100 W Alabama St, Houston TX 77098 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No.WQ0014649001 de disposición de aguas residuales] para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 320,000 galones por día via irrigación en 170 hectares de tierra de campo de golf. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 1,200 pies al noroeste de la intersección de Haynie Flat Road y Travis Lakeside Drive en el Condado de Travis, Texas. La TCEQ recibió esta solicitud el día 19 de Enero, 2024. La solicitud para el permiso estará disponible para leer y copiar en Lake Travis Community Library, 1938 Lohmans Crossing Road, Lakeway TX 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.

[Insert web link from English notice]

*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 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 de correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue 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.

**CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at [www.tceq.texas.gov/about/comments.html](http://www.tceq.texas.gov/about/comments.html).** Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: [www.tceq.texas.gov](http://www.tceq.texas.gov).

También se puede obtener información adicional del Arbor Way, Inc. a la dirección indicada arriba o llamando a Senora Yvonne Rivera, DECorp. al 713-520-9570.

Fecha de emisión \_\_\_\_\_ *[Date notice issued]*

## Erwin Madrid

---

**From:** Hendrix, Rebecca <rhendrix@gfnet.com>  
**Sent:** Wednesday, December 4, 2024 11:56 AM  
**To:** Erwin Madrid  
**Cc:** Carter Jr., Jack; Rivera, Yvonne  
**Subject:** WQ0014649001 - NOD Response to letter dated 11 22 2024  
**Attachments:** WQ0014649001 - NOD Response to letter dated 11 22 2024.pdf

Good Morning Erwin. Please see attached for our response to the Notice of Deficiency letter dated November 22, 2024 in regards to the renewal of the permit for Arbor Way, Inc (WQ0014649001). Would you like a hard copy mailed to you as well? Please advise. If you need anything additional, please let me know. Rebecca



3100 W. Alabama  
Houston, TX 77098  
P 713.520.9570 | F 713.533.4111  
[gannettfleming.com](http://gannettfleming.com)

December 3, 2024

Mr. Erwin Madrid  
Texas Commission on Environmental Quality  
Applications Review and Processing Team (MC148)  
P.O. Box 13087  
Austin, Texas 78711

RE: Application to Renew Permit No. WQ0014649001  
Applicant Name: Arbor Way, Inc. (CN603257957)  
Site Name: Two Rivers WWTP (RN104790332)  
Type of Application: Renewal with Changes

Dear Mr. Madrid:

In response to your letter dated November 22, 2024, the following items have been addressed:

- 1) The TCEQ Core Data Form is attached.
- 2) Attached are copies of the "Acquisition of Water Rights and Related Assets" between South Central Water Company and Arbor Way, Inc. This contains the "Assignment" of Facilities from South Central Water Company to Arbor Way, Inc. and the "Agreement for the Delivery and Use of Treated Wastewater Effluent for Permitted Purposes". These same agreements were provided to the TCEQ during the renewal of the permit in 2010. This same permit was also renewed in 2014. I hope this clarifies the transfer of rights from South Central Water Company to Arbor Way, Inc.
- 3) We are not requesting to add sludge disposal provisions to the current permit. Section 12.B of the Administrative Report has been marked Not Applicable.
- 4) We request to use the original signature pages submitted with the original application for Arbor Way, Inc signed by Ralph Thomas as Mr. Thomas is currently out of the country. Any former signature pages from Arete Thomas Ranch Holdings, LLC should be voided.
- 5) We are intending to reduce the permitted flow from .430 MGD to .320 MGD.
- 6) The NORI in the letter is inaccurate. The address should be 3100 W Alabama Street, Houston, Texas 77098. The daily average flow not to be exceeded should be 320,000 gallons.



- 7) The NORI in Spanish is attached as requested with an address of 3100 W Alabama Street, Houston, Texas 77098 and a daily average flow of 320,000 gallons not to be exceeded.

Sincerely,

A handwritten signature in black ink, appearing to read "Yvonne Rivera".

Yvonne Rivera, P.E.  
Project Manager





# TCEQ Core Data Form

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

## SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<input type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input checked="" type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)		<input type="checkbox"/> Other
2. Customer Reference Number (if issued)	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	3. Regulated Entity Reference Number (if issued)
CN 603257957		RN 104790332

## SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership				
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)				
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).				
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)			If new Customer, enter previous Customer below:	
Arbor Way, Inc.				
7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)	
11. Type of Customer:		<input checked="" type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input checked="" type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
12. Number of Employees		13. Independently Owned and Operated?		
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following				
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:				
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant				
15. Mailing Address:		Arbor Way, Inc. c/o Yvonne Rivera, P.E., DE Corp., 3100 W Alabama St		
City	Houston	State	TX	ZIP 77098 ZIP + 4
16. Country Mailing Information (if outside USA)		17. E-Mail Address (if applicable)		
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)

**SECTION III: Regulated Entity Information****21. General Regulated Entity Information** (If 'New Regulated Entity' is selected, a new permit application is also required.)
☐ New Regulated Entity   
 ☐ Update to Regulated Entity Name   
 ☐ Update to Regulated Entity Information

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

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

Arbor Way, Inc.

**23. Street Address of the Regulated Entity:**

Two Rivers Wastewater Treatment Plant

24902 Stableford Circle

(No PO Boxes)

City

Spicewood

State

TX

ZIP

78669

ZIP + 4

**24. County**

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

**25. Description to Physical Location:****26. Nearest City**

State

Nearest ZIP Code

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

**27. Latitude (N) In Decimal:****28. Longitude (W) In Decimal:**

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

**29. Primary SIC Code****30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

**33. What is the Primary Business of this entity?** (Do not repeat the SIC or NAICS description.)**34. Mailing Address:**

Arbor Way, Inc.

202 Arbor Way Court

City

Houston

State

TX

ZIP

77057

ZIP + 4

**35. E-Mail Address:**

Ralph@rthomastx.com

**36. Telephone Number****37. Extension or Code****38. Fax Number** (if applicable)

( 713 ) 542-6159

( ) -

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

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

## **SECTION IV: Preparer Information**

<b>40. Name:</b>	Yvonne Rivera, P.E.		<b>41. Title:</b>	Project Manager
<b>42. Telephone Number</b>	<b>43. Ext./Code</b>	<b>44. Fax Number</b>	<b>45. E-Mail Address</b>	
( 713 ) 520-9570		(   ) -	yvonne.rivera@decorp.com	

## **SECTION V: Authorized Signature**

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

<b>Company:</b>	Arbor Way, Inc.		<b>Job Title:</b>	President	
<b>Name (In Print):</b>	Ralph Thomas			<b>Phone:</b>	( 713 ) 542- 6159
<b>Signature:</b>				<b>Date:</b>	







01-7050068-LG/49

ASSIGNMENT

74

STATE OF TEXAS  
COUNTY OF TRAVIS

South Central Water Company (hereinafter "SCWC") for ten dollars (\$10.00) and other good and valuable consideration in hand paid Arbor Way, Inc. (hereinafter "Arbor"), by this instrument grants and conveys to ARBOR all right, title, and interest now owned by SCWC in the following:

- (1) That certain "Sewage Treatment Plant Site Easement and Buffer Zone Easement" granted to SCWC by Lakecliff on Lake Travis, LP. and attached hereto and incorporated herein as Exhibit "A". The parties agree that the plant site easement and buffer zone easement assigned herein to Arbor shall be limited to the site shown in Exhibit "G" attached hereto.
- (2) That certain "Agreement for the Delivery and Use of Treated Effluent for Permitted Purposes" including the First and Second Amendments thereto all of which were granted by Lakecliff on Lake Travis, LP to SCWC and all of which are attached hereto and incorporated herein as Exhibit "B".
- (3) That certain Treated Effluent Line Easement between Club and Seller dated June 9, 2006 ("Effluent Line Easement) attached hereto as Exhibit "D"; and
- (4) A beneficial capacity interest in that certain Waterline Capacity and Waterline Easement between the Club and Seller dated June 9, 2006 ("Waterline Capacity Agreement") attached hereto as Exhibit "E".

This assignment is made subject to the following terms:

1. WARRANTY. SCWC hereby warrants and represents that SCWC is a duly organized and validly existing company under the laws of the State of Texas, and M. D. Bailey is authorized to act on behalf of SCWC. SCWC further warrants and represents that this assignment constitutes a valid and binding obligation on behalf of SCWC in accordance with the terms hereof. Except as stated above, SCWC makes this assignment without any other warranties either, express, implied, or statutory. SCWC does represent and warrant that to its best knowledge and belief, the instruments being assigned and attached hereto as Exhibits A,B,C,D and E are duly executed and binding documents.

2. INDEMNITIES. Arbor agrees to indemnify SCWC from any liability to third parties arising out of or in connection with the beneficial capacity interest in the Lake Water Facilities being conveyed to Buyer and the easement and other rights being assigned to Buyer.
3. BINDING EFFECT. This Assignment and all of its terms and conditions, are binding on SCWC and its successors and assigns, and on Arbor and its successors and assigns.

ADDITIONAL CONDITIONS: This assignment is also made subject to the following terms:

- (1) SCWC's request to transfer its Texas Commission on Environment Quality ("TCEQ") Wastewater Discharge Permit to ARBOR or its assigns.
- (2) SCWC does hereby assign and convey to ARBOR sufficient capacity in the Lake Water Facilities to provide 660 acre feet of Lake Water to the ARBOR development Project. No other capacity interest in the Waterline Capacity Agreement are conveyed.
- (3) Arbor agrees that it will assume and comply with the duties and obligations, if any, of SCWC under the assigned rights and easements and will comply with the requirements of the Seller's LCRA contract for the 1300 acre feet of water.

SIGNED AND DELIVERED this 15<sup>th</sup> day of MAY, 2007.

SOUTH CENTRAL WATER COMPANY

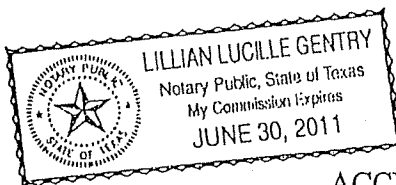
BY: Malcolm Bailey  
Malcolm Bailey, President

THE STATE OF TEXAS                   §  
COUNTY OF TRAVIS                   §

BEFORE ME, the undersigned authority, on this day personally appeared MALCOLM BAILEY, known to me to be the President of SCWC, whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER my hand and seal of office, this the 10<sup>th</sup> day of MAY, 2007.

SEAL



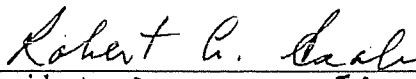
  
Notary Public, State of Texas

ACCEPTANCE

Arbor Way LLC, in consideration of the interest assigned to us herein, accept all of the right, title, and interest is the rights and obligations of SCWC pursuant to those certain easements, copies of which are attached to this Assignment as Exhibits "A", "B", "D", "E" and "G" and agree to assume and perform all the duties, if any, of SCWC pursuant to those easements. Arbor Way LLC further agrees it will be responsible for any liability for performance or nonperformance of the duties and obligations assumed by them or specified herein.

EXECUTED this 15<sup>th</sup> day of May, 2007.

ARBOR WAY, INC.

  
President ROBERT A. SEALE, PRESIDENT

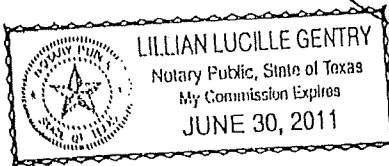
THE STATE OF TEXAS  
COUNTY OF TRAVIS

§  
§

BEFORE ME, the undersigned authority, on this day personally appeared ROBERT A. SEALE, known to me to be the President of ARBOR WAY, INC., whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER my hand and seal of office, this the 15<sup>th</sup> day of MAY, 2007.

SEAL



[Signature]  
Notary Public, State of Texas

### CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, as the holder of an existing lien(s) against the real property described in Exhibits A to E, has heretofore consented to the original easements and conveyances to South Central Water Company ("SCWC") and by the terms and conditions of the original easements and conveyances, such easements and conveyances were granted to SCWC, their heirs or assigns. The undersigned hereby acknowledges receipt of this assignment and hereby consents to the assignment by SCWC to Arbor Way, Inc..

This consent shall not be construed or operate as a release of any mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 15<sup>th</sup> day of May, 2007.

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherrill

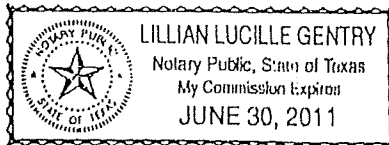
Title: Sr. Vice President

THE STATE OF TEXAS  
COUNTY OF GILLESPIE TRAVIS §  
§

BEFORE ME, the undersigned authority, on this day personally appeared JOE DAVID SHEED, SR. VP of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 10th day of MAY, 2007.

SEAL



Lillian Gentry  
Notary Public-State of Texas  
Printed Name of Notary:

My Commission Expires: \_\_\_\_\_

After recording return to:  
ARBOR WAY, Inc.  
FIRST City Tower  
1001 Fannin, Ste. 1800  
Attn: Robert A. Seale  
Houston, TX 77002-4102





EASE

2006-18681

8 PGS

EXHIBIT

99A9

**SEWAGE TREATMENT PLANT SITE EASEMENT  
AND BUFFER ZONE EASEMENT**

THE STATE OF TEXAS  
COUNTY OF TRAVIS

§  
§  
§

KNOW ALL MEN  
BY THESE PRESENTS:

8

THAT LAKECLIFF ON LAKE TRAVIS, L.P., a Texas limited partnership (hereinafter called "Grantor"), for Ten and No/100 Dollars (\$10.00) and other good and valuable consideration to Grantor in hand paid by SOUTH CENTRAL WATER COMPANY, the address of which is SCWC, c/o Paul A. Philbin & Assoc., P.C., 6363 Woodway Drive, Suite 725, Houston, Texas 77057 (hereinafter called "Grantee"), the receipt and adequacy of which are hereby acknowledged and confessed, and subject to the matters set forth below, has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL, and CONVEY, unto Grantee a non-exclusive easement (the "Easement") for the purpose of constructing, maintaining, operating, repairing and reconstructing a sewage treatment plant and related facilities, subject to the terms and provisions hereinafter set forth, under, across, and through those certain tract of land containing 5.002 acres of land (the "Easement Tract") and described more fully in Exhibit "A", attached hereto and incorporated herein by this reference for all purposes.

Prior to the initial construction of the sewage treatment plant, Grantee shall have the right to go over and across the land of Grantor within the Easement Tract for purposes of performing surveys and other such necessary pre-construction work; provided, however, that no excavation work, earth moving work, or other such work shall be undertaken by Grantee on any lands of Grantor other than for the sewage treatment plant as hereinafter provided.

After the construction of the sewage treatment plant, the Easement Tract shall be limited to a portion of the Easement Tract which is located immediately adjacent to the existing golf cart barn and lies between the cart barn and an existing house. Said tract is





approximately 130 feet wide and 200 feet deep and fronts on Haynie Flat Road which shall, after construction, be the sole access to the Easement that is to be used for the sewage treatment plant. Except as otherwise specifically set forth in this paragraph, Grantee shall have no right to go or travel upon, over, or across any lands of the Grantor except the Easement Tract before and during construction and the approximate 130 foot by 200 foot tract after construction. Nothing contained herein shall grant or be construed as granting to Grantee the right to use the Easement Tract for any purpose other than for the purposes herein specified.

Grantor hereby grants to Grantee a buffer zone easement of 150 feet around the sewage treatment plant site. Said buffer zone easement shall comply with all Texas Commission on Environmental Quality ("TCEQ") requirements. If requested by Grantee, Grantor shall execute a separate Buffer Zone Easement in a form acceptable to the TCEQ.

Upon completion of the sewage treatment plant construction, Grantee agrees that he will execute a replacement easement which will accurately describe the sewage treatment plant easement. The final sewage treatment plant easement shall not exceed the projected 130 foot by 200 foot site by more than 10%. Grantor may elect to convey said site to the Grantee by special warranty deed.

It is expressly provided that Grantor reserves unto itself its heirs and assigns, all other rights in and to the Easement which do not unreasonably interfere with or prevent the use of the Easement herein granted and conveyed to Grantee. It is expressly agreed and provided that Grantee shall have the right to make reasonable use of the surface of the Easement Tract for the installation of surface facilities and equipment appurtenant to the treated effluent line. It is additionally provided that the use of this Easement shall not unreasonably interfere with any existing easements on the Easement Tract and that, if required, the Grantee will obtain any approval required.

The Easement hereby granted is non-exclusive, and Grantor, its successors,

substitutes, and assigns, shall have the right from time to time to grant further easements over, across, through, and under the Easement Tract for any lawful purpose, provided that the holder of such easements does not unduly or unreasonably interfere with Easement rights herein granted.

Grantor acknowledges that the Security State Bank and Trust, Fredericksburg, Texas, has a lien or liens on the Easement Tract and that he will obtain their consent and joinder in this conveyance and said consent and joinder is attached hereto and made a part hereof as Exhibit "B".

TO HAVE AND TO HOLD the above described Easement together with all and singular, the rights and appurtenances thereto anywise belonging unto the said Grantee, its successors and assigns forever; and Grantor does hereby bind Grantor and Grantor's heirs, executors, administrators, successors, and assigns to WARRANT AND FOREVER DEFEND, all and singular, the said Easement unto the said Grantee, and its respective successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, subject to all of the terms, conditions, provisions, and limitations herein above set forth and provided.

EXECUTED this 9 day of June, 2006.

LAKECLIFF ON LAKE TRAVIS, L.P.

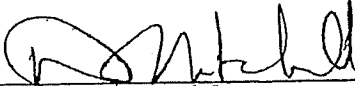
BY: Robert J. Day  
ROBERT DAY, General Partner

STATE OF TEXAS

COUNTY OF TRAVIS

This instrument was acknowledged before me on the 9<sup>th</sup> day of June, 2006, by ROBERT DAY, General Partner of Lakecliff on Lake Travis, L.P.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9<sup>th</sup> day of June, 2006.

  
Notary Public in and for  
the State of Texas



X *Courtsey Recording*  
CASH STAFF  
~~AFTER RECORDATION, RETURN TO:~~  
PAUL A. PHILBIN & ASSOC.  
6363 WOODWAY, SUITE 725  
HOUSTON, TX 77057

## EXHIBIT "A"

BEING 5.002 ACRES OF LAND OUT OF AND A PART OF THE JOHN EWEERS SURVEY NO 410, ABSTRACT 264 IN TRAVIS COUNTY TEXAS, AND BEING OUT OF AND A PART OF THAT CERTAIN 80 ACRE TRACT CONVEYED UNTO ANDREW ENGLISH BY DEED RECORDED IN VOLUME 348, PAGE 18 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS, AND BEING COMPRISED OF THE FOLLOWING 1.07 ACRES OUT OF THAT CERTAIN 75 ACRE TRACT DESCRIBED IN VOLUME 2455, PAGE 455 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS, AND 3.93 ACRES OUT OF THAT CERTAIN 5 ACRE TRACT DESCRIBED IN VOLUME 2455, PAGE 457 OF THE DEED RECORDS OF TRAVIS COUNTY, TEXAS, SAID 5.002 ACRES OF LAND BEING THAT SAME 5.00 ACRES OF LAND CONVEYED UNTO T.L. ANGLIN BY DEED RECORDED IN VOLUME 9823, PAGE 563 OF THE REAL PROPERTY RECORDS OF TRAVIS COUNTY, TEXAS, AND BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING at a 1/2" diameter iron pin found near a fence corner at the northern most corner hereof on the southeast line of that certain 152.041 acre tract conveyed unto Lakecliff Development Corp. by Special Warranty Deed recorded in Volume 12130, Page 1704, of the Real Property Records of Travis County, Texas, said iron pin bears S61°-00' W 2075.3 feet from the northerly corner of said 80 acre tract and said 75 acre tract on the easterly line of said John Eweers Survey No. 410;

THENCE with the northwest line hereof and the southeast line of said 152.041 acre tract as fenced, the following two (2) calls:

1. S 61°-00' W 207.30 feet to a 60d nail set in a 6" Cedar Post at a corner of said fence;
2. S 33°-32'-22"W at 280.89 feet pass a fence corner post 2.21 feet left of and perpendicular to property line, in all 317.68 feet to a conc. nail set in asphalt pavement in the center line of Haynie Flat Road, a public road having been conveyed from Lower Colorado River Authority to the County of Travis by Right-of-Way Deed recorded in Volume 3691, Page 62 of the Deed Records of Travis County, Texas;

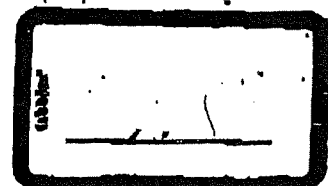
THENCE with the southwesterly line hereof and the center line of said Haynie Flat Road, the following two (2) calls:

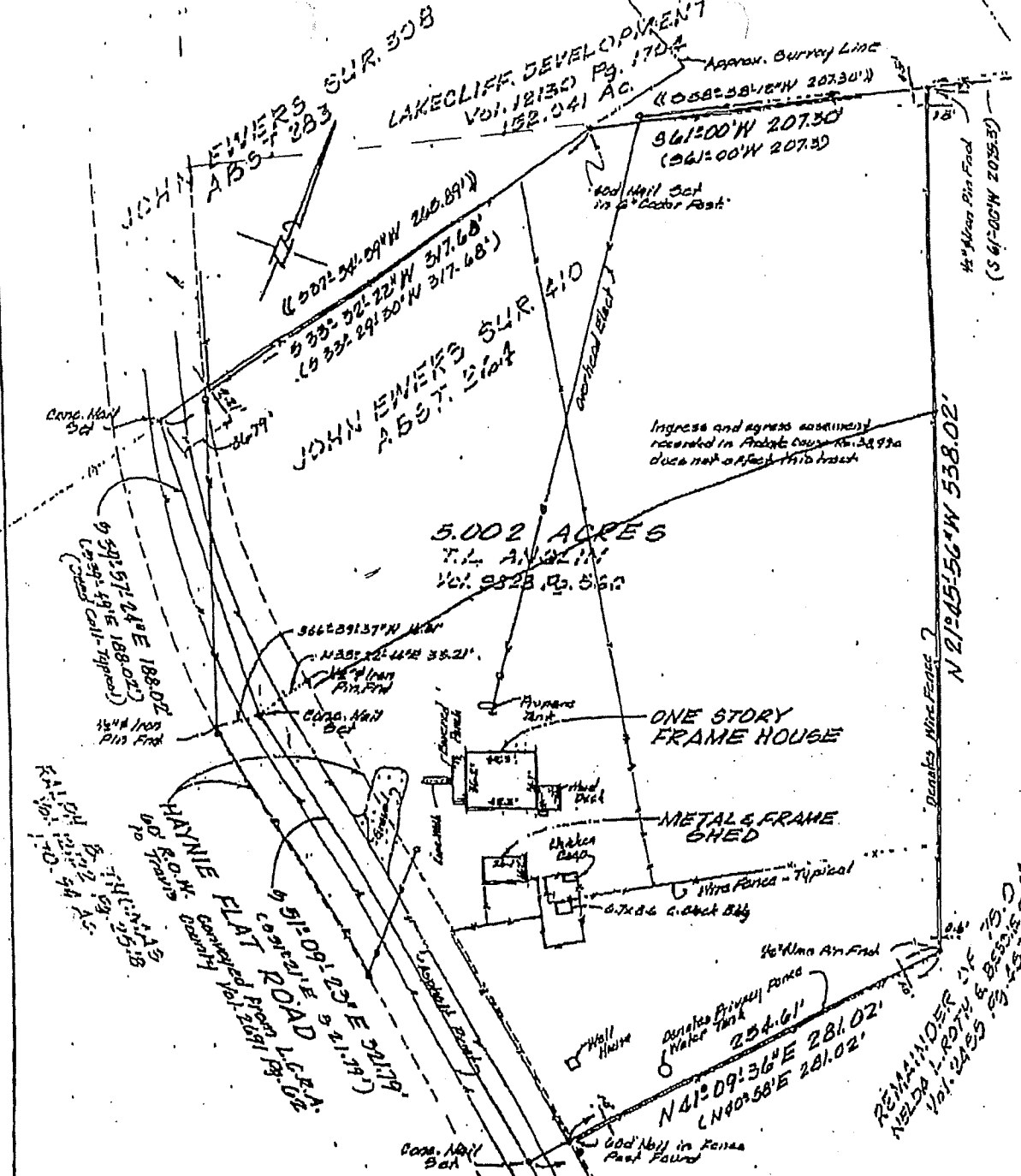
1. S 39°-57'-24"E 188.02 feet to a conc. nail set in asphalt pavement, from which a 1/2" diameter iron pin found bears N 15°-22'-44"E 35.21 feet and another 1/2" diameter iron pin found bears S66°-59'-37"W 16.81 feet;
2. S 51°-09'-23"E 321.79 feet to conc. nail set for the southern most corner hereof;

THENCE with the southeasterly line here of and the remainder of said 75 acre tract, N 41°-09'-36"E at 25.42 feet pass a 60d nail in corner fence post found, continuing with said fence in all 281.02 feet to a 1/2" diameter iron pin found at the eastern most corner hereof;

THENCE with the northeast line hereof and said remainder of 75 acre tract as fenced, N 33°-45'-56"W 538.02 feet to the Point-of-Beginning.

TRAVIS COUNTY RECORDS  
1123  
1981-1982





**Point-Line Services, Inc.**  
 Land & Engineering Surveying  
 MOLLY LANDSBERG, R.P.L.S. 1547  
 1301 Capital Dr. Springtown, Texas 76082  
 Tel. (817) 444-1111 Fax (817) 444-1112

*[Handwritten signature]*

# CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, being the owners and holders of an existing lien(s) upon and against the real property described in the foregoing Sewage Treatment Plant Easement, as such lienholder, do hereby consent to and join in said Easement.

This consent and joinder shall not be construed or operate as a release of any mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 9<sup>th</sup> day of June, 2006.

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherrod

Title: Sr. VP

THE STATE OF TEXAS  
COUNTY OF GILLESPIE

§  
§

BEFORE ME, the undersigned authority, on this day personally appeared Joe David Sherrod of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 9<sup>th</sup> day of June, 2006.



[Signature]  
Notary Public-State of Texas  
Printed Name of Notary:

Diana Mitchell  
My Commission Expires: Oct. 10, 2008



AGREEMENT FOR THE DELIVERY AND USE OF TREATED WASTEWATER  
EFFLUENT FOR PERMITTED PURPOSES

This Agreement is entered into between LAKECLIFF ON LAKE TRAVIS, LP (Club), a Texas partnership whose principal place of business is in Burnet County, Texas, and SOUTH CENTRAL WATER COMPANY, INC. (SCWC), a Texas corporation whose principal place of business is in Harris County, Texas.

1. PURPOSE

The purpose of this Agreement is to establish a mutually acceptable arrangement that complies with applicable state and federal regulations herein SCWC, a state-licensed retail public sewer utility, can deliver treated wastewater effluent (effluent) to the Club for use as an irrigation media on those portions of Club's golf course at the Lakecliff Country Club in Travis County, Texas suitable for such uses under the rules of the Texas Commission on Environmental Quality (TCEQ).

2. TERM

2.1 This Agreement shall become effective on the date of signature indicated herein:

2.2 Delivery of effluent shall not commence until:

- a) all necessary governmental permits for the wastewater treatment plant (WWTP) and other components of SCWC's sewer system that will generate the effluent have been received from the appropriate regulatory authorities;
- b) the WWTP and all associated plant and sewage collection system have been constructed and placed into commercial operation in conformance with their permits;
- c) the effluent disposal system, including all facilities necessary to transport the effluent to the Club for storage and/or irrigation have been constructed and tested; and
- d) SCWC has developed a sufficient customer base to generate a sufficient quantity of effluent to Club without disrupting the proper operation of the WWTP and causing a violation of its water quality permit.

2.2 Once effluent delivery from the WWTP to the Club has begun, this Agreement shall be in affect and run concurrent with the terms and extensions of all wastewater discharge permits associated with this plant.



### 3. PRICE

3.1 Club initially shall pay SCWC \$0.00 per 1,000 gallons of effluent delivered.

3.2 The price may be re-negotiated by the parties commencing in January of odd numbered years during any term of the Agreement. If no agreement on a new price is reached after a party has requested re-negotiation, the price shall remain fixed for one (1) additional two (2) year term. If a party asks to re-negotiate the price on the odd numbered year following the two (2) years of automatic no-price change and no agreement on price change is reached for a second consecutive time, the price shall automatically escalate ten (10%) percent. The price shall escalate ten (10%) every in January of odd number year thereafter until the parties re-negotiate a new base price; at which time, this cycle shall start again.

### 4. DELIVERY OF EFFLUENT

4.1 SCWC shall deliver the effluent through a pipeline(s) owned and operated by SCWC that shall transport the effluent from the WWTP to a retention pond or lagoon located near or on the Club's golf course. The retention pond or lagoon shall be clay- or plastic-lined or otherwise meet the regulations of the TCEQ for effluent retention impoundments.

4.2 SCWC shall be responsible for maintaining and operating the effluent delivery lines to Club's retention pond.

4.3. Club shall be responsible for maintaining the retention pond and all facilities required thereafter (downstream) to deliver and disburse the effluent as an irrigation media over areas of the golf course (and any approved proximate areas). This shall include all irrigation system lines, controls, pumps, sprinkler heads, and other irrigation water supplies.

4.4 All facilities constructed by either party and all repairs made thereto shall be in conformance with applicable TCEQ rules.

### 5. CONTROL

5.1 Since the wastewater permittee is always responsible to the TCEQ of the proper management and disposal of the treated effluent in conformance with the permit, SCWC must retain the exclusive right to terminate the flow of effluent at any time to insure that it is not discharge at inappropriate times or places in violation of health and environmental laws. SCWC's licensed operators shall be empowered to order anyone operating a holding pond or irrigating system using effluent to cease and desist from any act that violates the TCEQ permit. This authority shall not extend to ordering the cessation of use of other sources of water not produced by SCWC's WWTP, unless those other water supplies have been commingled with SCWC effluent.

5.2 SCWC's effluent delivery system shall contain sufficient valves and controls that it can be closed at either end by SCWC employees or Contractors. Except during emergencies when necessary to prevent hazards to public health or safety or endangerment to public waters, the Club, its employees or contractors shall not have access to or the right to use such controls without the direct supervision of a licensed SCWC sewer operator being on-site at that time.

5.3 SCWC, its employees and contractors shall have an easement to enter and travel over and across the Club's property for the purpose of constructing, inspecting, maintaining, repairing, identifying and replacing any portion of the effluent transportation, retention and disbursal system on said property. SCWC's employees and contractors shall not interfere with or disturb portions of the irrigation system not owned by SCWC without prior notice to the Club unless delay would result in an immediate hazard to public health or safety or endangerment to state waters. In such emergency cases, SCWC's personnel shall take only such remedial actions as are necessary to fix the immediate problem and remove the threat(s).

5.4 Club shall provide SCWC with exclusive recorded easements for all SCWC pipelines and other facilities on Club property necessary to construct and operate the facilities necessary to fulfill SCWC's obligations under this Agreement. The Club shall be responsible for obtaining, at its cost, all easements necessary off the Club's property to construct and maintain the necessary effluent pipeline(s) and appurtenances. All pipeline easements shall be no less than twenty (20) feet in width, measured off the centerline of the pipeline. All pipeline easements shall have an adjacent parallel twenty (20) foot construction easement for the period of initial construction and testing. Easements for all other facilities shall extend no less than twenty (20) feet beyond the outermost points of the physical plant in question in all directions. Ingress/egress to all facilities must be granted. These easements may terminate one (1) year after the facilities have been permanently removed from any type of public utility service under state or federal permit(s), license(s) or certificate(s). SCWC shall have the right to abandon any underground plant or facilities, including pipelines, in place without obligation to the Club, other landowner or third party if such abandonment is permitted by state or federal regulations governing sewer utilities.

5.5 SCWS' exclusive rights to use the easements to be provided hereunder shall also include the right to remove or trim trees, shrubs, plants or other encumbrances as may be necessary to maintain the integrity of SCWC's facilities, make repairs, perform inspections or tests or otherwise comply with TCEQ rules. SCWC shall have a duty to restore the easement to its preconstruction condition as reasonably as possible. No permanent structures may be built in or across any easement; however, roadways and drives shall be permitted so long as they are not wider than Texas Department of Transportation specifications for a Farm-to-Market road without improved shoulders. Wider drives or roadways may be permitted on a case-by-case basis after the submission of plans to SCWC and the accommodation of SCWC's need of access to the pipeline under such paving.

5.6 Once effluent is delivered to the Club's retention pond, it shall be Club's responsibility (as SCWC's agent under the water quality permit) to manage and control the effluent in a manner that complies with all provisions of SCWC's wastewater permit, the Texas Water Code, TCEQ rules and USEPA rules. The Club shall not (without limitation):

- a) irrigate with effluent in places or under conditions that could reasonably result in the effluent coming into contact with humans;
- b) irrigate during a rainfall event;
- c) irrigate or release effluent any place where the effluent could run off into the waters of the state;
- d) irrigate with effluent at a rate greater than that authorized in SCWC's permit;  
or
- e) fail to use and record the data from any monitoring equipment ordered by the TCEQ in SCWC's wastewater permit or by rule or order.

5.7 If the Club violates any provision of §5.5 or other provision of SCWC's wastewater permit or TCEQ rule or order related to the maintenance or use of effluent, SCWC may terminate deliveries of effluent to the Club immediately. SCWC shall have the right to have all facilities capable of removing effluent from the retention pond and transporting it for irrigation use taken out of operation and locked under SCWC's control. In such cases, effluent deliveries and usage shall remain terminated until the offending condition has been adequately remedied. The Club shall be liable for all fines, penalties, clean up costs and other expenses arising from any such violation. SCWC shall be reimbursed for all reasonable expenses and costs it incurs in responding to or defending such violations within thirty (30) days of billing the Club for the same. The parties agree that they may use the same counsel and consultants to defend any enforcement action arising from such violation in the interest of keeping common costs low.

## 6. OTHER

6.1 This exclusive Agreement may not be canceled by SCWC or the Club their heirs, assigns, or successors in title or interest, by sale, gift, foreclosure, inheritance or otherwise, without the written consent of the other party.

6.2 The Club shall indemnify and save harmless SCWC and its agents and employees from all suits, actions, or claims of any character, type, or description brought or made on account of negligence or acts of omission or commission by the Club or its representatives, assigns or heirs occurring after the date of this agreement and relating in any way to water service to the effluent irrigation system. In the event a claim is made or a lawsuit is filed which would be subject to this indemnity, SCWC, its agents or employees, shall have the right to employ counsel, which counsel shall be satisfactory to the Club, and

the Club shall pay the reasonable and necessary attorney's fees incurred in defending such claim at the time fees are billed by the attorney.

6.3 SCWC shall indemnify and save harmless the Club and its agents and employees from all suits, actions, or claims of any character, type, or description brought or made on account of negligence or acts of omission or commission by SCWC or its representatives, assigns or heirs relating in any way to wastewater service to SCWC's certificated service area, the operation of the WWTP, or the delivery of effluent to the point of discharge at the retention pond. In the event a claim is made or a lawsuit is filed which would be subject to this indemnity, the Club, its agents or employees, shall have the right to employ counsel, which counsel shall be satisfactory to SCWC, and SCWC shall pay the reasonable and necessary attorney's fees incurred in defending such claim at the time fees are billed by the attorney.

6.4 This Agreement is performable in Harris and Burnet Counties, Texas. All parties agree that if any party(ies) should default on any of the conditions and covenants hereunder or threaten to do so, or should it be necessary for any reason for either to hire or retain an attorney to represent them in connection with this Agreement, the party(ies) found to be responsible agrees to pay to the prevailing party(ies) a reasonable amount for costs and attorney's fees. Before the commencement of litigation, the parties agree to submit any dispute arising hereunder not resolved by mutual agreement to mediation before a neutral third-party mediator ("Mediator"). The Mediator shall be selected by mutual agreement of the parties or by court order absent such agreement. The parties agree that this agreement may be enforceable by specific performance as well as any other remedy available at law or in equity. Venue over any civil cause of action arising from this agreement shall lie in the courts of Harris County, Texas and shall be subject to and interpreted by the laws of the State of Texas. Venue over any administrative cause of action arising from this agreement shall lie in TCEQ and the courts of Travis County, Texas.

6.5 SCWC and the Club acknowledge receipt of a complete copy of this Agreement and further acknowledge that they have carefully examined all terms and conditions and fully understand it.

6.6 The official addresses of the parties for purposes of notices, correspondence or other matters arising herefrom shall be the following until written notice to the other parties of any change:

Lakecliff on Lake Travis, LP  
Attn: Robert J. Day  
111 Clubland Court  
Spicewood, Texas 78669

The Club

South Central Water Company  
Attn: Malcolm D. Bailey, President  
5818 Beverly Hill, Suite 200  
Houston, Texas 77057

SCWC

Any and all notices or other communications required or permitted by this Agreement or by law to be delivered to, served on or given to either party to this Agreement, by the other party to this Agreement, shall be in writing and shall be deemed properly delivered, given or served when personally delivered to either party, the Club or SCWC, to whom it is directed, or in lieu of personal service, when deposited in the United States mail, first-class postage prepaid, certified mail, return receipt requested, at the address for notices set forth in this Agreement. The Club or SCWC may change this address for the purposes of this Paragraph by giving written notice of the change to the other party in the manner provided in this Agreement.

6.7 This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the subject matter hereof, and no other agreement, statement or promise relating to the subject matter of this Agreement which is not contained herein shall be valid or binding,

6.8 This Agreement shall be binding on the heirs, executors, administrators, legal representatives, successors and permitted assigns of the respective parties.

6.9 This Agreement may be amended by the mutual agreement of the parties herein in a written instrument specifically referencing this Agreement.

ENTERED on the 29 day of June, 2005.

THE CLUB

SCWC

BY: Robert J. Day

BY: Malcolm D. Bailey  
Malcolm D. Bailey, President

Robert J. Day, Pres. RJD, Inc  
print name & title

General Partner for  
Lakechiff on Lake Travis, L.P

# EXHIBIT "3"

**JAMES E. GARON**

REGISTERED PROFESSIONAL  
LAND SURVEYOR

Email: jgaron@austin.rr.com

924 Main Street  
Bastrop, Texas 78602  
512-303-4185  
512-321-2107 fax

July 17, 2002

**TRACT ONE:**

**LEGAL DESCRIPTION:** BEING A 70.896 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN EWERS SURVEY NO. 308, THE JOHN EWERS SURVEY NO. 410 AND THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING

PORCTIONS OF THAT CERTAIN 247.604 ACRE TRACT OF LAND AND 33.977 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155;

A PORTION OF THAT CERTAIN 5.86 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12750, PAGE 1417 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;

A PORTION OF THAT CERTAIN 14.575 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000202389;

AND A PORTION OF THAT CERTAIN 5.002 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2001013138;

ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 70.896 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:

BEGINNING at an iron rod set on the southerly right-of-way line of Kahala Sunset Drive, being Lot 43, LakeCliff on Lake Travis Section Eleven as recorded by plat in Document No. 200100315 of the plat records of Travis County, Texas for the northwesterly corner of Lot 23 of said subdivision;

THENCE South 15°22'23" West a distance of 118.16 feet to an iron rod set for the southwest corner of said Lot 23;

THENCE along the southerly line of Lots 23-42 of said subdivision the following eight (8) calls:

1. South 74°37'37" East a distance of 170.19 feet to an iron rod set for corner of Lots 23 and 24;
2. South 88°58'15" East a distance of 199.92 feet to an iron rod set for corner of Lots 24 and 25;
3. North 80°46'55" East a distance of 77.31 feet to an iron rod set for corner of Lots 25 and 26;

4. North 75°5'38" East a distance of 76.61 feet to an iron rod set for corner of Lots 26 and 27;
5. North 69°22'47" East a distance of 76.96 feet to an iron rod set for corner of Lots 27 and 28;
6. North 63°39'05" East a distance of 77.41 feet to an iron rod set for corner of Lots 28 and 29;
7. North 60°36'38" East a distance of 448.00 feet to an iron rod set for corner of Lots 35 and 36;
8. North 58°38'00" East a distance of 585.56 feet to an iron rod set on the southerly line of Stableford Cove, being Lot 12, LakeCliff on Lake Travis Section Eight as recorded by plat in Document No. 200100316 of said plat records, for the most easterly corner of Lot 42;

THENCE along said line of Stableford Cove the following five (5) calls:

1. South 84°16'03" East a distance of 55.16 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 274.13 feet along the arc of said curve to the left having a radius of 360.00 feet and a chord bearing South 87°47'02" East a distance of 267.56 feet to an iron rod set for point of tangency;
3. North 70°24'05" East a distance of 63.09 feet to an iron rod set for point of curvature of a curve to the right;
4. a length of 203.30 feet along the arc of a said curve to the right having a radius of 360.00 feet and a chord bearing North 86°34'47" East a distance of 200.61 feet to an iron rod set for point of tangency;
5. South 77°14'31" East a distance of 56.11 feet to an iron rod set for the northwest corner of Lot 1, LakeCliff on Lake Travis Section Nine as recorded by plat in Document No. 200100314 of said plat records;

THENCE South 33°48'16" West a distance of 131.62 feet to an rod set for the most westerly corner of said Lot 1;

THENCE South 36°28'01" East a distance of 519.00 feet to an iron rod set for the most southerly corner of Lots 3 and 4 of said subdivision;

THENCE South 89°39'26" East a distance of 114.56 feet to an iron rod set for angle point on the southerly line of said Lot 4;

THENCE North 59°42'41" East a distance of 207.74 feet to an iron rod set for angle point on the southwesterly line of Lot 5 of said subdivision;

THENCE North 36°25'01" East a distance of 128.63 feet to an iron rod set for the most easterly corner of Lots 5 and 6 of said subdivision;

THENCE North 20°38'33" East a distance of 377.94 feet to an iron rod set on the curving southeasterly r-o-w line of Stableford Cove for the northeasterly corner of Lot 7, Lakecliff on Lake Travis Section Nine;

THENCE along said line of Stableford Cove the following four (4) calls:

1. a length of 18.40 feet along the arc of a curve to the left having a radius of 880.00 feet and a chord bearing North 63°5'10" East a distance of 18.40 feet to an iron rod set for point of tangency;
2. North 62°29'14" East a distance of 90.55 feet to an iron rod set for point of curvature of a curve to the left;
3. a length of 179.08 feet along the arc of said curve to the left having a radius of 330.00 feet and a chord bearing North 46°56'29" East a distance of 178.89 feet to an iron rod set for point of tangency;
4. North 31°23'43" East a distance of 17.08 feet to an iron rod set for the westerly corner of Lot 11, of said LakeCliff on Lake Travis Section Eight;

THENCE along said Lot 11, South 58°36'17" East a distance of 67.13 feet to an iron rod set for angle point and South 6°47'43" East a distance of 225.10 feet to an iron rod set for the most southerly corner of said Lot 11, common with an angle point of Lot 1A, Block "A", Replat of Lot 1, Block "A"; Travis Lakeside Phase One as recorded by plat in Document No. 200100318 of said plat records;

THENCE along said Lot 1A the following nine (9) calls:

1. South 7°41'16" West a distance of 391.64 feet to an iron rod set for angle point;
2. South 47°24'05" West a distance of 328.85 feet to an iron rod set for angle point;
3. South 60°1'39" West a distance of 554.55 feet to an iron rod set for corner;
4. North 53°53'00" West a distance of 378.98 feet to an iron rod set for corner;
5. South 25°0'58" West a distance of 10.19 feet to an iron rod set for corner;
6. North 52°1'30" West a distance of 670.31 feet to an iron rod set for corner;
7. South 58°47'40" West a distance of 1190.33 feet to an iron rod set for angle point;
8. South 58°38'12" West a distance of 883.92 feet to an iron rod found for the most northerly corner of said 5.002 acre tract;
9. South 24°1'41" East a distance of 271.88 feet to an iron rod set for corner;

THENCE South 59°34'59" West a distance of 452.50 feet to an iron rod set on the northeasterly line of Haynie Flat Road;

THENCE along said line of Haynie Flat Road the following nine (9) calls:

1. North 21°49'35" West a distance of 552.80 feet to a point of curvature of a curve to the left;
2. a length of 415.97 feet along the arc of said curve to the left having a radius of 778.68 feet and a chord bearing North 33°9'08" West a distance of 411.04 feet to a point of compound curvature;
3. a length of 218.81 feet a curve to the left having a radius of 932.48 feet and a chord bearing North 58°26'30" West a distance of 216.32 feet to an endpoint;
4. North 64°25'35" West a distance of 182.76 feet to a point for corner;
5. North 25°34'27" East a distance of 5.22 feet to a point for corner;
6. North 64°25'35" West a distance of 56.48 feet to an angle point;
7. North 70°0'37" West a distance of 393.28 feet to an angle point;
8. North 69°10'15" West a distance of 196.53 feet to an angle point;
9. North 69°14'34" West a distance of 305.06 feet to an iron rod set for corner;

THENCE North 20°55'26" East a distance of 267.19 feet to an iron rod set for corner;



THENCE South  $80^{\circ}19'48''$  East a distance of 50.67 feet to an iron rod set for corner;

THENCE North  $9^{\circ}40'12''$  East a distance of 28.90 feet to an iron rod set for corner on the southerly r-o-w line of Gallery Drive and Lot 43, LakeCliff on Lake Travis Section Eleven;

THENCE along Gallery Drive and said Lot 43 the following three (3) calls:

1. South  $80^{\circ}19'48''$  East a distance of 535.50 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 476.60 feet along the arc of said curve to the left having a radius of 818.20 feet and a chord bearing North  $82^{\circ}58'57''$  East a distance of 469.89 feet to an iron rod set for point of tangency;
3. North  $66^{\circ}17'43''$  East a distance of 481.07 feet to an iron rod set for point of curvature of a curve to the right;

THENCE a length of 39.43 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing South  $68^{\circ}31'06''$  East a distance of 35.47 feet to an iron rod set for point of tangency on the southwesterly r-o-w line of Kahala Sunset Drive;

THENCE along said line of Kahala Sunset Drive and Lot 43 the following three (3) calls:

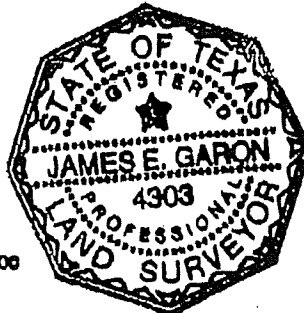
1. South  $23^{\circ}19'55''$  East a distance of 63.13 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 390.54 feet along the arc of said curve to the left having a radius of 436.18 feet and a chord bearing South  $48^{\circ}58'55''$  East a distance of 377.62 feet to an iron rod set for point of tangency;
3. South  $74^{\circ}37'37''$  East a distance of 258.83 feet to the POINT OF BEGINNING and containing 70.898 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:

  
James E. Garon

Registered Professional Land Surveyor

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# **JAMES E. GARON**

REGISTERED PROFESSIONAL  
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July 17, 2002

## **TRACT TWO:**

**LEGAL DESCRIPTION:** BEING A 54.455 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN EWERS SURVEY NO. 308, THE JOHN EWERS SURVEY NO. 410 AND THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING

PORTIONS OF THAT CERTAIN 247.604 ACRE TRACT OF LAND AND 33.977 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS LP. BY DEED RECORDED IN DOCUMENT NO. 2000075155;

A PORTION OF THAT CERTAIN 5.86 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12750, PAGE 1417 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;

AND A PORTION OF THAT CERTAIN 152.041 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12130, PAGE 1704 AND FORMERLY PLATTED AS LOTS 2-7, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;

ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 54.455 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:

BEGINNING at an iron rod set on the northerly right-of-way line of Gallery Drive, being Lot 43, LakeCliff on Lake Travis Section Eleven as recorded by plat in Document No. 200100315 of the plat records of Travis County, Texas for the southwesterly corner of Lot 9, LakeCliff on Lake Travis Section Twelve as recorded by plat in Document No. 200100324 of said plat records;

THENCE along Gallery Drive the following three (3) calls:

1. North 80°19'48" West a distance of 42.27 feet to an iron rod set for point of curvature of a curve to the right;
2. a length of 48.52 feet along the arc of said curve to the right having a radius of 440.00 feet and a chord bearing North 77°10'16" West a distance of 48.49 feet to an iron rod set for point of tangency;
3. North 74°0'44" West a distance of 153.27 feet to an iron rod set for point of curvature of a curve to the right;

THENCE a length of 39.27 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing North 29°0'44" West a distance of 35.36 feet to an iron rod set

for point of tangency on the easterly r-o-w line of Cliff Point as dedicated by plat of LakeCliff on Lake Travis Section One;

THENCE along said line of Cliff Point the following three (4) calls:

1. North  $15^{\circ}59'16''$  East a distance of 147.25 feet;
2. a length of 177.40 feet a curve to the right having a radius of 430.00 feet and with a chord bearing of North  $27^{\circ}48'24''$  East;
3. a length of 38.07 feet a curve to the right having a radius of 430.00 feet and with a chord bearing of North  $42^{\circ}9'43''$  East;
4. North  $44^{\circ}41'53''$  East a distance of 1017.26 feet;

THENCE South  $48^{\circ}27'31''$  East a distance of 122.58 feet to an iron rod set for angle point;

THENCE North  $75^{\circ}21'44''$  East a distance of 287.36 feet to an iron rod set for angle point;

THENCE North  $39^{\circ}8'27''$  East a distance of 379.01 feet to an iron rod set for the most westerly corner of Lot 1, LakeCliff on Lake Travis Section Thirteen as recorded by plat in Document No. 200100319 of said plat records;

THENCE South  $48^{\circ}46'22''$  East a distance of 244.08 feet to an iron rod set for the southerly corner of said Lot 1;

THENCE North  $37^{\circ}12'12''$  East a distance of 243.34 feet to an iron rod set on the southeasterly r-o-w line of Cliff Crossing for the most easterly corner of said Lot 1;

THENCE South  $52^{\circ}5'14''$  East a distance of 171.71 feet along said line of Cliff Crossing to an iron rod set for the most northerly corner of Lot 2, LakeCliff on Lake Travis Section Thirteen;

THENCE South  $37^{\circ}54'46''$  West a distance of 135.00 feet to an iron rod set for the westerly corner of said Lot 2;

THENCE South  $52^{\circ}5'14''$  East a distance of 240.00 feet to an iron rod set for the common corner of Lots 3 and 4 of said subdivision;

THENCE South  $16^{\circ}37'49''$  West a distance of 135.52 feet to an iron rod set for angle point;

THENCE South  $51^{\circ}9'56''$  East a distance of 421.12 feet along the southeasterly line of Lots 4 through 8 of said subdivision to an iron rod set for angle point;

THENCE North  $66^{\circ}33'17''$  East a distance of 170.21 feet to an iron rod set for angle point;

THENCE North  $35^{\circ}40'53''$  East a distance of 159.80 feet to an iron rod set on the curving southerly r-o-w line of Cliff Crossing for the easterly corner of Lot 9, LakeCliff on Lake Travis Section Thirteen;

THENCE along said line of Cliff Crossing the following four (4) calls:

1. a length of 459.36 feet along the arc of a curve to the left having a radius of 830.00 feet and a chord bearing South  $86^{\circ}1'49''$  East a distance of 453.52 feet to an iron rod set for point of tangency;
2. North  $78^{\circ}6'53''$  East a distance of 412.72 feet to an iron rod set for point of curvature of a curve to the right;
3. a length of 91.92 feet along the arc of said curve to the right having a radius of 300.00 feet and a chord bearing North  $86^{\circ}53'34''$  East a distance of 91.56 feet to an iron rod set for point of tangency;
4. South  $84^{\circ}19'45''$  East a distance of 50.00 feet to an iron rod set for point of curvature of a curve to the right;

THENCE a length of 39.27 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing South  $39^{\circ}19'45''$  East a distance of 35.36 feet to an iron rod set for point of tangency on the west r-o-w line of Kahala Sunset Drive;

THENCE along said r-o-w line, South  $5^{\circ}58'02''$  West a distance of 311.83 feet to an iron rod set for point of curvature of a curve to the right and a length of 148.54 feet along the arc of said curve to the right having a radius of 770.01 feet and a chord bearing South  $11^{\circ}29'41''$  West a distance of 148.31 feet to an iron rod set for the northeasterly corner of Lot 22, LakeCliff on Lake Travis Section Eleven;

THENCE North  $67^{\circ}45'48''$  West a distance of 115.00 feet to an iron rod set for the northwest corner of said Lot 22;

THENCE South  $39^{\circ}27'22''$  West a distance of 410.51 feet along the westerly line of Lots 16-22 of said subdivision to an iron rod set for the common westerly corner of Lots 15 and 16;

THENCE South  $61^{\circ}8'39''$  West a distance of 670.24 feet along the northwesterly line of Lots 5-15 of said subdivision to an iron rod set for the common corner of Lots 4 and 5;

THENCE South  $77^{\circ}41'11''$  West a distance of 167.88 feet to an iron rod set for angle point in the northerly line of Lot 2 of said subdivision;

THENCE North  $74^{\circ}44'23''$  West a distance of 288.44 feet to an iron rod set for the northwest corner of Lot 1, of said subdivision;

THENCE South  $16^{\circ}2'50''$  West a distance of 102.69 feet to an iron rod set on the northerly r-o-w line of Kahala Sunset Drive for the southwest corner of said Lot 1;

THENCE along said r-o-w line the following four (4) calls:

1. North  $74^{\circ}37'37''$  West a distance of 97.15 feet to an iron rod set for the point of curvature of a curve to the right;
2. a length of 336.82 feet along the arc of said curve to the right having a radius of 376.18 feet and a chord bearing North  $48^{\circ}56'56''$  West a distance of 325.68 feet to an iron rod set for point of tangency;
3. North  $23^{\circ}19'55''$  West a distance of 222.88 feet to an iron rod set for the point of curvature of a curve to the left;
4. a length of 39.95 feet along the arc of said curve to the left having a radius of 1146.96 feet and with a chord bearing of North  $27^{\circ}22'21''$  West a distance of 39.94 feet to an

July 17, 2002

iron rod set for the southerly corner of Lot 22, LakeCliff on Lake Travis Section Twelve;

THENCE North 64°28'28" East a distance of 277.25 feet to an iron rod set for the easterly corner of said Lot 22;

THENCE North 41°53'00" West a distance of 648.05 feet along the northeasterly line of Lots 19-22 of said subdivision to an iron rod set for the most northerly point of said Lot 19;

THENCE South 51°7'22" West a distance of 110.59 feet to an iron rod set for the common northerly corner of Lots 18 and 19 of said subdivision;

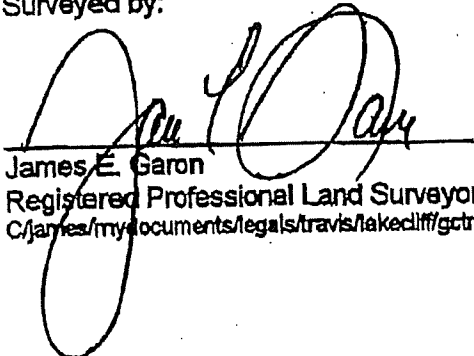
THENCE South 52°0'44" West a distance of 403.78 feet to an iron rod set for the common northerly corner of Lots 15 and 16 of said subdivision;

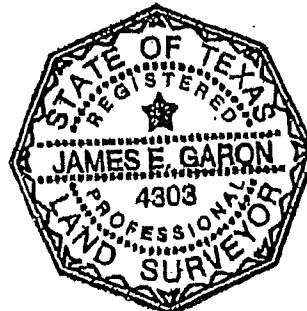
THENCE South 76°38'36" West a distance of 548.18 feet to an iron rod set for angle point in the northerly line of Lot 11;

THENCE South 58°6'51" West a distance of 288.93 feet to an iron rod set for angle point in the westerly line of Lot 10 of said subdivision;

THENCE South 11°3'59" West a distance of 307.41 feet to the POINT OF BEGINNING and containing 54.455 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:

  
James E. Garon  
Registered Professional Land Surveyor  
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July 17, 2002

## **TRACT THREE:**

**LEGAL DESCRIPTION: BEING A 12.115 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING**

**A PORTION OF THAT CERTAIN 247.604 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155;**

**A PORTION OF THAT CERTAIN 152.041 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12130, PAGE 1704 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**AND A PORTION OF THAT CERTAIN TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 200167661 AND FORMERLY PLATTED AS LOT 1, BLOCK "F"; LAKECLIFF ON LAKE TRAVIS SECTION FOUR BY PLAT RECORDED IN VOLUME 98, PAGE 25 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 12.115 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:**

**BEGINNING at an iron rod set on the curving, easterly right-of-way line of Cliff Overlook for the northwesterly corner of Lot 10, LakeCliff on Lake Travis Section Thirteen as recorded by plat in Document No. 200100319 of said plat records;**

**THENCE along said right-of-way line the following four (4) calls:**

- 1. a length of 28.45 feet along the arc of a curve to the left having a radius of 346.26 feet and a chord bearing North 29°3'25" East a distance of 28.45 feet to an iron rod set for point of compound curvature;**
- 2. a length of 48.37 feet along the arc of said compound curve to the left having a radius of 330.00 feet and a chord bearing**

- North 22°22'19" East a distance of 48.32 feet to an iron rod set for endpoint;
3. North 18°10'23" East a distance of 286.57 feet to an iron rod set for point of curvature of a curve to the left;
  4. a length of 51.32 feet along the arc of said curve to the left having a radius of 330.00 feet and a chord bearing North 13°43'05" East a distance of 51.27 feet to an iron rod set for the southwest corner of Lot 15, LakeCliff on Lake Travis Section Thirteen;

THENCE South 77°11'25" East a distance of 114.35 feet to an iron rod set for the common corner of Lots 15 and 16 of said subdivision;

THENCE South 56°22'48" East a distance of 48.73 feet to an iron rod set for the common corner of Lots 16 and 17 of said subdivision;

THENCE South 35°18'11" East a distance of 123.43 feet to an iron rod set for the common corner of Lots 17 and 18 of said subdivision;

THENCE South 20°43'26" East a distance of 140.36 feet to an iron rod set for the southwesterly corner of Lot 18 of said subdivision;

THENCE South 89°23'09" East a distance of 66.77 feet to an iron rod set on the curving r-o-w line of Cliff Overlook for the southeasterly corner of Lot 18, LakeCliff on Lake Travis Section Thirteen;

THENCE a length of 59.31 feet along the arc of said curving r-o-w line to the left having a radius of 55.00 feet and a chord bearing South 30°16'37" East a distance of 56.47 feet to an iron rod set for endpoint;

THENCE South 65°51'13" East a distance of 59.72 feet to an iron rod set for angle point on the southerly line of Lot 43, LakeCliff on Lake Travis Section Five as recorded by plat in Volume 102, page 267 of said plat records;

THENCE continuing along said Lot 43 the following four (4) calls:

1. South 66°1'38" East a distance of 75.64 feet to an iron rod set for angle point;
2. South 85°36'41" East a distance of 184.23 feet to an iron rod set for angle point;
3. North 73°27'24" East a distance of 180.97 feet to an iron rod set for angle point;

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4. North  $44^{\circ}56'06''$  East a distance of 141.91 feet to an iron rod set for corner of Lot 43 and angle point of Lot 10, LakeCliff on Lake Travis Section Six as recorded by plat in Document No. 2000075155 of said plat records;

THENCE South  $41^{\circ}7'14''$  East a distance of 82.88 feet to an iron rod set for the common corner of Lots 9 and 10, LakeCliff on Lake Travis Section Six;

THENCE South  $10^{\circ}23'21''$  West a distance of 132.34 feet to an iron rod set for the southwest corner of Lot 9 of said subdivision;

THENCE North  $89^{\circ}35'45''$  East a distance of 98.36 feet to an iron rod set for the northwest corner of Lot 8 of said subdivision;

THENCE South  $0^{\circ}24'15''$  East a distance of 142.41 feet to an iron rod set for the common corner of Lots 7 and 8 of said subdivision;

THENCE South  $2^{\circ}22'40''$  East a distance of 89.05 feet to an iron rod set for angle point;

THENCE South  $5^{\circ}8'05''$  East a distance of 63.30 feet to an iron rod set for the common corner of Lots 5, 6 and 7 of said subdivision;

THENCE South  $78^{\circ}6'53''$  West a distance of 144.97 feet to an iron rod set for the northwest corner of Lot 5 of said subdivision;

THENCE South  $11^{\circ}53'07''$  East a distance of 170.00 feet to an iron rod set on the northerly r-o-w line of Cliff Crossing for the southwest corner of Lot 5 of said subdivision;

THENCE South  $78^{\circ}6'53''$  West a distance of 25.00 feet along said r-o-w line to an iron rod set for the southeast corner of Lot 4 of said subdivision;

THENCE North  $11^{\circ}53'07''$  West a distance of 170.00 feet to an iron rod set for the northeast corner of Lot 4 of said subdivision;

THENCE South  $78^{\circ}6'53''$  West a distance of 270.00 feet to an iron rod set for the common corner of Lots 2 and 3 of said subdivision;

THENCE North  $88^{\circ}49'32''$  West a distance of 122.63 feet to an iron rod set for the common corner of Lots 1 and 2 of said subdivision;

THENCE North  $53^{\circ}12'34''$  West a distance of 97.78 feet to an iron rod set for the common corner of Lot 1, LakeCliff on Lake Travis Section Six and Lot 14, LakeCliff on Lake Travis Section Thirteen;

THENCE North  $74^{\circ}0'06''$  West a distance of 397.82 feet to an iron rod set for angle point on the north line of Lot 12, LakeCliff on Lake Travis Section Thirteen;



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THENCE North 31°59'53" West a distance of 152.22 feet to an iron rod set for the common corner of Lots 10 and 11 of said subdivision;

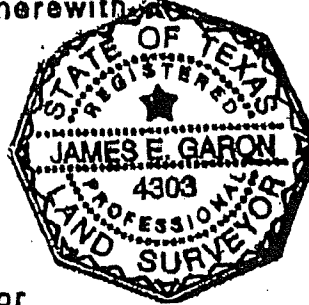
THENCE North 13°51'18" West a distance of 119.75 feet to an iron rod set for angle point on the north line of Lot 10 and North 80°48'59" West a distance of 100.69 feet to the POINT OF BEGINNING and containing 12.115 acres of land, more or less, and as shown on map of survey prepared herewith;

Surveyed by:

  
James E. Garon

Registered Professional Land Surveyor

C:/james/mydocuments/legals/travis/lakecliff/gottract4.doc



# **JAMES E. GARON**

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July 3, 2002

## **TRACT FOUR:**

LEGAL DESCRIPTION: BEING A 39.335 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN MOAT SURVEY NO. 412, IN TRAVIS COUNTY, TEXAS AND BEING A PORTION OF THAT CERTAIN 247.604 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155 OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 39.335 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:

BEGINNING at an iron rod set on the curving westerly right-of-way line of Stableford Cove, being Lot 12, LakeCliff on Lake Travis Section Eight as recorded by plat in Document No. 200100318 of the plat records of Travis County, Texas, for the southerly corner of Lot 1, LakeCliff on Lake Travis Section Eight;

THENCE along said line of Stableford Cove the following eight (8) calls:

1. a length of 107.77 feet along the arc of a curve to the left having a radius of 60.00 feet and a chord bearing South  $64^{\circ}2'20''$  East a distance of 93.86 feet to an iron rod set for point of reverse curvature;
2. a length of 25.59 feet along the arc of said reverse curve to the right having a radius of 25.00 feet and a chord bearing South  $86^{\circ}10'30''$  East a distance of 24.49 feet to an iron rod set for point of compound curvature;
3. a length of 88.86 feet along the arc of said compound curve to the right having a radius of 220.00 feet and a chord bearing South  $45^{\circ}32'31''$  East a distance of 86.30 feet to an iron rod set for endpoint;
4. South  $34^{\circ}13'51''$  East a distance of 112.87 feet to an iron rod set for the point of curvature of a curve to the right;
5. a length of 49.12 feet along the arc of said curve to the right having a radius of 220.00 feet and a chord bearing South  $27^{\circ}50'05''$  East a distance of 49.02 feet to an iron rod set for endpoint;
6. South  $21^{\circ}28'18''$  East a distance of 68.66 feet to an iron rod set for point of curvature of a curve to the right;

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7. a length of 202.87 feet along the arc of said curve to the right having a radius of 220.00 feet and a chord bearing South  $4^{\circ}58'43''$  West a distance of 195.76 feet to an iron rod set for endpoint;
8. South  $31^{\circ}23'43''$  West a distance of 159.41 feet to an iron rod set for the most easterly corner of Lot 12, LakeCliff on Lake Travis Section Ten as recorded by plat in Document No. 200100313 of said plat records;

THENCE North  $41^{\circ}25'41''$  West a distance of 518.49 feet to an iron rod set for the common northerly corner of Lots 8 and 9, LakeCliff on Lake Travis Section Ten;

THENCE South  $88^{\circ}28'13''$  West a distance of 157.10 feet to an iron rod set for the common northerly corner of Lots 7 and 8, LakeCliff on Lake Travis Section Ten;

THENCE South  $48^{\circ}12'42''$  West a distance of 817.16 feet to an iron rod set on the curving, northerly line of Stableford Cove for the most westerly corner of Lot 1, LakeCliff on Lake Travis Section Ten;

THENCE along said line off Stableford Cove the following four (4) calls:

1. a length of 81.80 feet along the arc of a curve to the left having a radius of 420.00 feet and a chord bearing South  $75^{\circ}58'50''$  West a distance of 81.67 feet to an iron rod set for point of tangency;
2. South  $70^{\circ}23'17''$  West a distance of 63.09 feet to an iron rod set for point of curvature of a curve to the right;
3. a length of 227.57 feet along the arc of said curve to the right having a radius of 299.84 feet and a chord bearing North  $87^{\circ}52'08''$  West a distance of 222.15 feet to an iron rod set for point of tangency;
4. North  $64^{\circ}14'22''$  West a distance of 303.13 feet to an iron rod set for the point of curvature of a curve to the right;

THENCE a length of 38.53 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing North  $20^{\circ}4'59''$  West a distance of 34.83 feet to an iron rod set for point of reverse curvature on the east line of Kahala Sunset Drive;

THENCE along said line of Kahala Sunset Drive the following six (6) calls:

1. a length of 262.27 feet along the arc of said reverse curve to the left having a radius of 830.01 feet and a chord bearing North  $15^{\circ}1'13''$  East a distance of 261.18 feet to an iron rod set for point of tangency;

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2. North  $5^{\circ}58'02''$  East a distance of 312.14 feet to an iron rod set for angle point;
3. North  $5^{\circ}40'16''$  East a distance of 160.00 feet to an iron rod set for point of curvature of a curve to the right;
4. a length of 127.74 feet along the arc of said curve to the right having a radius of 324.70 feet and a chord bearing North  $18^{\circ}56'30''$  East a distance of 126.92 feet to an iron rod set for point of reverse curvature;
5. a length of 127.11 feet along the arc of said reverse curve to the left having a radius of 330.00 feet and a chord bearing North  $10^{\circ}37'51''$  East a distance of 126.33 feet to an iron rod set for point of tangency;
6. North  $0^{\circ}24'15''$  West a distance of 82.70 feet to an iron rod set for corner;

THENCE North  $86^{\circ}56'55''$  East a distance of 200.93 feet to an iron rod set for corner;

THENCE North  $18^{\circ}29'05''$  East a distance of 196.61 feet to an iron rod set for angle point;

THENCE North  $46^{\circ}52'53''$  East a distance of 153.87 feet to an iron rod set for angle point;

THENCE South  $82^{\circ}24'34''$  East a distance of 143.90 feet to an iron rod set for the southwest corner of Lot 5, LakeCliff on Lake Travis Section Seven as recorded by plat in Document No. 200100317 of said plat records;

THENCE along the south line of said LakeCliff on Lake Travis Section Seven the following five (5) calls:

1. South  $65^{\circ}40'38''$  East a distance of 133.00 feet to an iron rod set for angle point;
2. South  $71^{\circ}40'13''$  East a distance of 149.17 feet to an iron rod set for angle point;
3. South  $79^{\circ}9'11''$  East a distance of 155.46 feet to an iron rod set for angle point;
4. South  $86^{\circ}20'14''$  East a distance of 134.03 feet to an iron rod set for angle point;
5. South  $89^{\circ}58'36''$  East a distance of 160.85 feet to an iron rod set for the southeast corner of Lot 1, LakeCliff on Lake Travis Section Seven;

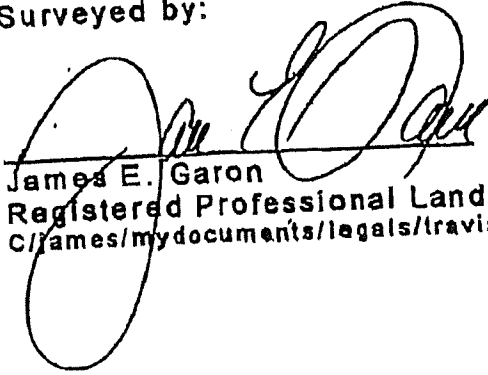
THENCE South  $0^{\circ}1'24''$  West a distance of 167.81 feet to a point for the southwest corner of Lot 29, LakeCliff on Lake Travis Section Six as recorded by plat in Document No. 200000343 of said plat records and northwest corner of Lot 1, LakeCliff on Lake Travis Section Eight;

July 3, 2002

THENCE South  $14^{\circ}48'06''$  East a distance of 371.06 feet to an iron rod set for the southwesterly corner of said Lot 1;

THENCE South  $85^{\circ}30'06''$  East a distance of 81.57 feet to the **POINT OF BEGINNING** and containing 39.335 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:



James E. Garon

Registered Professional Land Surveyor

C:\james\mydocuments\legals\travis\lakecliff\gctract4.doc

# EXHIBIT 'C'

## CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, being the owners and holders of an existing lien(s) upon and against the real property described in the foregoing First Amendment to Agreement for the Delivery and Use of Treated Wastewater Effluent for Permitted Purposes, as such lienholder, do hereby consent to and join in said Agreement.

This consent and joinder shall not be construed or operate as a release of any mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 9 day of June, 2006.

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherron

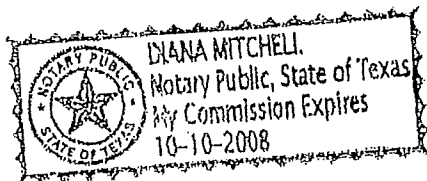
Title: Sr. VP

THE STATE OF TEXAS  
COUNTY OF GILLESPIE

§  
§

BEFORE ME, the undersigned authority, on this day personally appeared Joe David Sherron of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 9<sup>th</sup> day of June, 2006.



[Signature]  
Notary Public-State of Texas  
Printed Name of Notary:

Diana Mitchell  
My Commission Expires: Oct 10, 2008





AMEND 2006110680

27 PGS

21

**FIRST AMENDMENT TO AGREEMENT FOR THE DELIVERY  
AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES**

This Agreement is entered into by and between LAKECLIFF ON LAKE TRAVIS, L.P. ("Club") and SOUTH CENTRAL WATER COMPANY, INC. ("SCWC").

The above referenced Club and SCWC have heretofore entered into an "AGREEMENT FOR THE DELIVERY AND USE OF TREATED WASTEWATER EFFLUENT FOR PERMITTED PURPOSES" dated June 29, 2005.

The Club and SCWC hereby agree to adopt certain additional provisions as follows:

- 1) The June 29, 2005 agreement is affirmed, ratified, and incorporated herein as Exhibit "A."
- 2) Attached hereto and made a part hereof is Exhibit "B," a legal description of approximately 176 acres upon which the Club's golf course is located. The Club hereby commits to take and use the effluent to irrigate the golf course located within the tract described in Exhibit "B."
- 3) The Club acknowledges that the Security State Bank and Trust, Fredericksburg, Texas is the holder of lien or liens upon the property described in Exhibit "B" and the Club will obtain the Consent and Joinder of the Bank to the Agreement and the First Amendment thereto. Said Consent and Joinder is attached hereto as Exhibit "C" and made a part hereof.
- 4) All terms and conditions of the original agreement shall remain in full force and effect.

**EXHIBIT**

tabbies

B-1



EXECUTED this the 9 day of June, 2006.

LAKECLIFF ON LAKE TRAVIS, L.P.

BY: Robert Day  
Robert Day, General Manager

STATE OF TEXAS

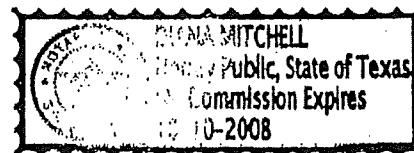
COUNTY OF TRAVIS

§  
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§  
§

This instrument was acknowledged before me on the 9<sup>th</sup> day of June, 2006, by ROBERT DAY, General Partner of Lakecliff on Lake Travis, L.P.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9<sup>th</sup> day of June, 2006.

[Signature]  
Notary Public in and for  
the State of Texas



Executed this the 9 day of June, 2006.

SOUTH CENTRAL WATER COMPANY,  
INC.

BY: [Signature]  
Malcolm Bailey, President

STATE OF TEXAS

§  
§  
§

COUNTY OF TRAVIS

This instrument was acknowledged before me on the 9<sup>th</sup> day of June, 2006, by MALCOLM BAILEY, President of South Central Water Company, Inc.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9<sup>th</sup> day of June, 2006.

[Signature]  
Notary Public in and for  
the State of Texas





01-6120076 JP



**SECOND AMENDMENT TO AGREEMENT FOR THE DELIVERY  
AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES**

This Agreement is entered into by and between LAKECLIFF ON LAKE TRAVIS, L.P. ("Club") and SOUTH CENTRAL WATER COMPANY, INC. ("SCWC").

The above referenced Club and SCWC have heretofore entered into an "AGREEMENT FOR THE DELIVERY AND USE OF TREATED WASTEWATER EFFLUENT FOR PERMITTED PURPOSES" dated June 29, 2005 and the "FIRST AMENDMENT TO AGREEMENT FOR DELIVERY AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES," dated June 9, 2006, hereinafter called "Prior Agreements," and said Prior Agreements are incorporated herein by reference.

The Club and SCWC hereby agree to adopt the following amendments and additional provisions:

- 1) The Club and SCWC agree that an additional treated effluent holding pond capacity will be needed by SCWC, and the Club hereby grants to SCWC an easement for the construction, installation, operation, repair, and maintenance of additional effluent holding pond or ponds capable of holding 23.3 acre feet of treated effluent. The easement granted herein shall be located within the approximate 70.896 acre tract described in the Prior Agreements and may utilize the existing effluent holding pond and adjacent sand trap area located near Haynie Flat Road to achieve the required holding capacity. Prior to constructing the holding pond, SCWC shall notify the Club of the exact dimensions of the pond and appurtenant access and maintenance terms, and SCWC and the Club agree to execute a revised easement for the holding point site and appurtenances.
- 2) The Club acknowledges that the Security State Bank and Trust, Fredericksburg, Texas is the holder of lien or liens upon the 70.896 acres described in the Prior Agreements, and the Club will obtain

EXHIBIT

B-2

the Consent and Joinder of the Bank to the Agreement and the First Amendment thereto. Said Consent and Joinder is attached hereto as Exhibit "" and made a part hereof.

- 3) The Grantee shall have the right to assign any and all of its rights and interest herein and under the Prior Agreements.
- 4) All other terms and conditions of the original agreement and the First Amendment shall remain in full force and effect.

EXECUTED this the 5 day of Jan, 2006. <sup>7</sup>

LAKECLIFF ON LAKE TRAVIS, L.P.

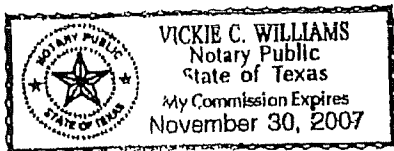
BY: Robert G. Day  
Robert Day, President, R&D Inc.,  
General Partner for  
Lakecliff on Lake Travis, L.P.

STATE OF TEXAS

COUNTY OF TRAVIS

This instrument was acknowledged before me on the 5 day of Jan, 2006, by ROBERT DAY, General Partner for Lakecliff on Lake Travis, L.P.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 5 day of Jan, 2006. <sup>7</sup>



Vickie C. Williams  
Notary Public in and for  
the State of Texas

Executed this the 5 day of Jan, 2006.<sup>7</sup>

SOUTH CENTRAL WATER COMPANY,  
INC.

BY: Malcolm Bailey  
Malcolm Bailey, President

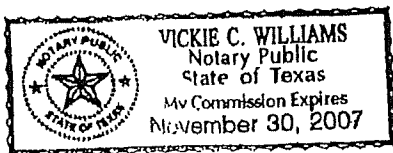
STATE OF TEXAS

COUNTY OF TRAVIS

§  
§  
§

This instrument was acknowledged before me on the 5 day of Jan, 2006, by MALCOLM BAILEY, President of South Central Water Company, Inc.

Jan, 2006.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 5 day of



Vickie Williams  
Notary Public in and for  
the State of Texas

X STA-CASH - Courtsey  
AFTER RECORDING, RETURN TO:  
MALCOLM BAILEY  
5818 BEVERLY HILL, Suite 200  
HOUSTON, TX 77057

# CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, being the owners and holders of an existing lien(s) upon and against the real property described in the foregoing "SECOND AMENDMENT TO AGREEMENT FOR THE DELIVERY AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES," as such lienholder, do hereby consent to and join in said Easement.

This consent and joinder shall not be construed or operate as a release of said mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 5<sup>th</sup> day of January, 2006.

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherron

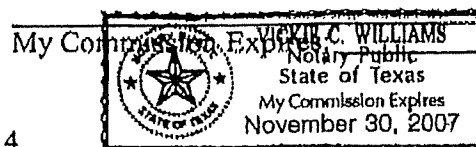
Title: Gr. Vice President

THE STATE OF TEXAS §  
COUNTY OF GILLESPIE Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Joe David Sherron of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 5 day of Jan, 2006.

[Signature: Vickie Williams]  
Notary Public-State of Texas  
Printed Name of Notary:







☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

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

☐ Yes ☒ No

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

- D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number:

Amount past due:

- E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number:

Amount past due:

### Section 13. Attachments (Instructions Page 38)

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

- ☒ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☒ Original full-size USGS Topographic Map with the following information:
  - Applicant's property boundary



# Comisión de Calidad Ambiental del Estado de Texas



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

### PERMISO PROPUESTO NO. WQ0014649001

**SOLICITUD.** Arbor Way, Inc., 3100 W Alabama St, Houston TX 77098 ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No.WQ0014649001 de disposición de aguas residuales] para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 320,000 galones por día via irrigación en 170 hectares de tierra de campo de golf. La planta de tratamiento de aguas domésticos residuales y el área de disposición están ubicados en 1,200 pies al noroeste de la intersección de Haynie Flat Road y Travis Lakeside Drive en el Condado de Travis, Texas. La TCEQ recibió esta solicitud el día 19 de Enero, 2024. La solicitud para el permiso estará disponible para leer y copiar en Lake Travis Community Library, 1938 Lohmans Crossing Road, Lakeway TX 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.

[Insert web link from English notice]

*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 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 de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado específico. Si desea que se agregue 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.

**CONTACTOS E INFORMACIÓN DE LA TCEQ. Todos los comentarios escritos del público y los para pedidos una reunión deben ser presentados a la Oficina del Secretario Principal, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o por el internet at [www.tceq.texas.gov/about/comments.html](http://www.tceq.texas.gov/about/comments.html).**

Tenga en cuenta que cualquier información personal que usted proporcione, incluyendo su nombre, número de teléfono, dirección de correo electrónico y dirección física pasarán a formar parte del registro público de la Agencia. Si necesita más información en Español sobre esta solicitud para un permiso o el proceso del permiso, por favor llame a El Programa de Educación Pública de la TCEQ, sin cobro, al 1-800-687-4040. La información general sobre la TCEQ puede ser encontrada en nuestro sitio de la red: [www.tceq.texas.gov](http://www.tceq.texas.gov).

También se puede obtener información adicional del Arbor Way, Inc. a la dirección indicada arriba o llamando a Senor Richard Grayum, DECorp. al 512-427-3237.

Fecha de emisión \_\_\_\_\_ *[Date notice issued]*

## Erwin Madrid

---

**From:** Erwin Madrid  
**Sent:** Friday, December 6, 2024 5:08 PM  
**To:** Hendrix, Rebecca  
**Cc:** Carter Jr., Jack; Rivera, Yvonne  
**Subject:** RE: WQ0014649001 - NOD Response to letter dated 11 22 2024

Hi Rebecca,

Thank you for taking my call earlier today. Per our conversation, I can work to declare the application administratively complete without the original signature pages included. However, this will not satisfy the requirement of needing the signature pages submitted with the application, therefore, please make sure to follow up with the original signature pages as soon as possible because the permit will not be issued until these are received.

If you cannot obtain the signature of Mr. Ralph Thomas, he can designate an authorize signatory by supplying a memo giving authority to the signatory to sign or have someone else in the company who meets the rule TAC 305.44 requirement to sign.

If you have any additional questions, please let me know.

Regards,

Erwin Madrid  
Team Lead  
ARP Team | Water Quality Division  
512-239-2191  
Texas Commission on Environmental Quality



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

---

**From:** Hendrix, Rebecca <rhendrix@gfnet.com>  
**Sent:** Wednesday, December 4, 2024 11:56 AM  
**To:** Erwin Madrid <Erwin.Madrid@tceq.texas.gov>  
**Cc:** Carter Jr., Jack <jcarter@gfnet.com>; Rivera, Yvonne <yrivera@gfnet.com>  
**Subject:** WQ0014649001 - NOD Response to letter dated 11 22 2024

Good Morning Erwin. Please see attached for our response to the Notice of Deficiency letter dated November 22, 2024 in regards to the renewal of the permit for Arbor Way, Inc (WQ0014649001). Would you like a hard copy mailed to you as well? Please advise. If you need anything additional, please let me know. Rebecca

## Erwin Madrid

---

**From:** Hendrix, Rebecca <rhendrix@gfnet.com>  
**Sent:** Tuesday, December 10, 2024 4:27 PM  
**To:** Hannah Zellner; Sara Holmes  
**Cc:** Erwin Madrid; Carter Jr., Jack  
**Subject:** Permit Renewal for Arbor Way, Inc - WQ0014649001 - Technical Completeness Review Response  
**Attachments:** ARBOR WAY - Technical Completeness Review Response.pdf; USGS Exhibit - 2024.pdf; Surface Water Bodies - 2024.pdf; Surface Water Bodies - 2019.pdf; 5 - Facility Site Drawing.pdf; 10054.pdf; Half Mile & 1 Mile Radius Well Logs.pdf; 2 Mile Radius Well Logs.pdf

Good Afternoon. Please see attached. If you need anything additional, please let us know



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

#### A. Existing/Interim I Phase

Design Flow (MGD): 0.16

2-Hr Peak Flow (MGD): 0.64

Estimated construction start date: to be determined

Estimated waste disposal start date: Click to enter text.

#### B. Interim II Phase

Design Flow (MGD): N/A - There is no Interim II Phase

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### C. Final Phase

Design Flow (MGD): 0.32

2-Hr Peak Flow (MGD): 1.28

Estimated construction start date: to be determined

Estimated waste disposal start date: Click to enter text.

#### D. Current Operating Phase

Provide the startup date of the facility: to be determined

### Section 2. Treatment Process (Instructions Page 43)

#### A. Current Operating Phase

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



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

The facility will employ the complete mix variation of the activated sludge process designed for single stage nitrification - From the lift station the wastewater will travel through a coarse bar screen then to the complete mix basin; from the basin the mix-liquor will be transferred to the clarifier where solids will be settled out and clear water will flow over the weirs then into the chlorine contact basin. The settled solids will either be transferred to the digester or returned to the head works. Currently the facility is getting ready to be constructed and is not in operation.

## B. Treatment Units

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

**Table 1.0(1) - Treatment Units**

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment 3		

## C. Process Flow Diagram

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

**Attachment: 4**

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

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

- Latitude: [Click to enter text.](#)
- Longitude: [Click to enter text.](#)

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

- Latitude: [Click to enter text.](#)
- Longitude: [Click to enter text.](#)

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: 5**

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

Travis County Improvement District No. 1. A 1,250-acre single family residential development

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

**Collection System Information**

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

## Section 4. Unbuilt Phases (Instructions Page 45)

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

To provide water and wastewater service to property owners within the District.

## Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

[Click to enter text.](#)

## Section 6. Permit Specific Requirements (Instructions Page 45)

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

### A. Summary transmittal

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

☐ Yes ☒ No

If **yes**, provide the date(s) of approval for each phase: [Click to enter text.](#)

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

[Click to enter text.](#)

### B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

[Click to enter text.](#)

### C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

#### D. Grit and grease treatment

##### 1. *Acceptance of grit and grease waste*

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

☐ Yes ☒ No

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

##### 2. *Grit and grease processing*

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

Click to enter text.

##### 3. *Grit disposal*

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

#### 4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

### E. Stormwater management

#### 1. *Applicability*

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

#### 2. *MSGP coverage*

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

☐ Yes ☐ No

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

TXR05 [Click to enter text.](#) or TXRNE [Click to enter text.](#)

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

☐ Yes ☐ No

#### 3. *Conditional exclusion*

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

☐ Yes ☐ No

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

Click to enter text.

**4. Existing coverage in individual permit**

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

☐ Yes ☐ No

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

Click to enter text.

**5. Zero stormwater discharge**

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

☐ Yes ☐ No

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

Click to enter text.

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

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

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

☐ Yes ☐ No

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

Click to enter text.

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

#### F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

Click to enter text.

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

##### 1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

**If yes, attach sewage sludge solids management plan. See Example 5 of the 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<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

##### 2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the septic waste, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

**Table 1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities**

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , 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					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, $\mu$ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, mg/l					

\*TPDES permits only

†TLAP permits only

**Table 1.0(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 <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: to be determined

Facility Operator's License Classification and Level: Click to enter text.

Facility Operator's License Number: Click to enter text.

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

### A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

☐ Design flow  $\geq$  1 MGD

- ☐ Serves  $\geq 10,000$  people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

## B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

## C. Biosolids Management

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

## Biosolids Management

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

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

### D. Disposal site

Disposal site name: [to be determined](#)

TCEQ permit or registration number: [Click to enter text.](#)

County where disposal site is located: [Click to enter text.](#)

### E. Transportation method

Method of transportation (truck, train, pipe, other): [truck](#)

Name of the hauler: [to be determined](#)

Hauler registration number: [Click to enter text.](#)

Sludge is transported as a:

Liquid ☐

semi-liquid ☐

semi-solid ☐

solid ☐

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

### A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

### B. Sludge processing authorization

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

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of sludge	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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

☐ Yes ☐ No

## Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

### A. Location information

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

- Original General Highway (County) Map:  
**Attachment:** [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:  
**Attachment:** [Click to enter text.](#)
- Federal Emergency Management Map:  
**Attachment:** [Click to enter text.](#)
- Site map:  
**Attachment:** [Click to enter text.](#)

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

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

**Attachment:** [Click to enter text.](#)

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

[Click to enter text.](#)

## B. Temporary storage information

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

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

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

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

Arsenic: [Click to enter text.](#)

Cadmium: [Click to enter text.](#)

Chromium: [Click to enter text.](#)

Copper: [Click to enter text.](#)

Lead: [Click to enter text.](#)

Mercury: [Click to enter text.](#)

Molybdenum: [Click to enter text.](#)

Nickel: [Click to enter text.](#)

Selenium: [Click to enter text.](#)

Zinc: [Click to enter text.](#)

Total PCBs: [Click to enter text.](#)

Provide the following information:

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

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

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

## C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec?

☐ Yes ☐ No

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

Click to enter text.

#### D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)  
**Attachment:** [Click to enter text.](#)
- Copy of the closure plan  
**Attachment:** [Click to enter text.](#)
- Copy of deed recordation for the site  
**Attachment:** [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons  
**Attachment:** [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site  
**Attachment:** [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions  
**Attachment:** [Click to enter text.](#)

#### E. Groundwater monitoring

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

☐ Yes ☐ No

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

**Attachment:** [Click to enter text.](#)

## Section 12. Authorizations/Compliance/Enforcement (Instructions)

**A. Additional authorizations**

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

☐ Yes ☒ No

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

Click to enter text.

**B. Permittee enforcement status**

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

**A. RCRA hazardous wastes**

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

☐ Yes ☒ No

**B. Remediation activity wastewater**

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

☐ Yes ☒ No

**C. Details about wastes received**

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

**Attachment:** [Click to enter text.](#)



## Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

### CERTIFICATION:

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

Printed Name: Ralph Thomas

Title: President

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 57)

#### A. Justification of permit need

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

[Click to enter text.](#)

#### B. Regionalization of facilities

For additional guidance, please review [TCEQ's Regionalization Policy for Wastewater Treatment](#)<sup>1</sup>.

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

##### 1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: [Click to enter text.](#)

If yes, attach correspondence from the city.

Attachment: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

##### 2. *Utility CCN areas*

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

☐ Yes ☐ No

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<sup>1</sup> <https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater>

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

**Attachment:** [Click to enter text.](#)

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

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

☐ Yes ☐ No

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

**Attachment:** [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

## Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

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

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

### A. Current organic loading

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

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): [Click to enter text.](#)

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

[Click to enter text.](#)

## B. Proposed organic loading

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

**Table 1.1(1) – Design Organic Loading**

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD <sub>5</sub> from all sources		

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

### A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

## B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

## C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

## D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: [Click to enter text.](#) mg/l after [Click to enter text.](#) minutes detention time at peak flow

Dechlorination process: [Click to enter text.](#)

☐ Ultraviolet Light: [Click to enter text.](#) seconds contact time at peak flow

☐ Other: [Click to enter text.](#)

## Section 4. Design Calculations (Instructions Page 59)

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

Attachment: [Click to enter text.](#)

## Section 5. Facility Site (Instructions Page 60)

### A. 100-year floodplain

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

[Click to enter text.](#)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click to enter text.](#)

#### B. Wind rose

Attach a wind rose: [Click to enter text.](#)

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

#### A. Beneficial use authorization

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

☐ Yes ☐ No

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

#### B. Sludge processing authorization

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

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

**Attachment:** [Click to enter text.](#)

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

- Treatment units and processes dimensions and capacities

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

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

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

☐ Yes ☐ No

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

Owner of the drinking water supply: [Click to enter text.](#)

Distance and direction to the intake: [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

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

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

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

#### A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [Click to enter text.](#)

#### B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

[Click to enter text.](#)

#### C. Sea grasses

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

☐ Yes ☐ No

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

[Click to enter text.](#)



### Section 3. Classified Segments (Instructions Page 64)

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

☐ Yes ☐ No

If **yes**, this Worksheet is complete.

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

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

Name of the immediate receiving waters: [Click to enter text.](#)

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☐ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [Click to enter text.](#)

Average depth of the entire water body, in feet: [Click to enter text.](#)

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

- ☐ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: [Click to enter text.](#)

#### B. Flow characteristics

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

- ☐ Intermittent - dry for at least one week during most years
- ☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- ☐ Perennial - normally flowing

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

- ☐ USGS flow records
- ☐ Historical observation by adjacent landowners
- ☐ Personal observation
- ☐ Other, specify: [Click to enter text.](#)

### C. Downstream perennial confluences

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

[Click to enter text.](#)

### D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

[Click to enter text.](#)

### E. Normal dry weather characteristics

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

[Click to enter text.](#)

Date and time of observation: [Click to enter text.](#)

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

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

### A. Upstream influences

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

☐ Oil field activities

☐ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: [Click to enter text.](#)

## B. Waterbody uses

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

- |  |  |
|--|--|
| <input type="checkbox"/> Livestock watering    | <input type="checkbox"/> Contact recreation                                      |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation                                  |
| <input type="checkbox"/> Fishing               | <input type="checkbox"/> Navigation  |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply                                 |
| <input type="checkbox"/> Park activities       | <input type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## C. Waterbody aesthetics

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

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

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

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

### Section 1. General Information (Instructions Page 66)

Date of study: [Click to enter text.](#) Time of study: [Click to enter text.](#)

Stream name: [Click to enter text.](#)

Location: [Click to enter text.](#)

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

☐ Perennial ☐ Intermittent with perennial pools

### Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: [Click to enter text.](#)

Number of stream bends that are moderately defined: [Click to enter text.](#)

Number of stream bends that are poorly defined: [Click to enter text.](#)

Number of riffles: [Click to enter text.](#)

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

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

[Click to enter text.](#)

## Stream transects

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

**Table 2.1(1) - Stream Transect Records**

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

## Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: [Click to enter text.](#)

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

Length of stream evaluated, in feet: [Click to enter text.](#)

Number of lateral transects made: [Click to enter text.](#)

Average stream width, in feet: [Click to enter text.](#)

Average stream depth, in feet: [Click to enter text.](#)

Average stream velocity, in feet/second: [Click to enter text.](#)

Instantaneous stream flow, in cubic feet/second: [Click to enter text.](#)

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

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

Maximum pool depth, in feet: [Click to enter text.](#)

# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

- |   |  |
|---|--|
| <input type="checkbox"/> Surface application  | <input type="checkbox"/> Subsurface application                |
| <input checked="" type="checkbox"/> Irrigation  | <input type="checkbox"/> Subsurface soils absorption           |
| <input type="checkbox"/> Drip irrigation system   | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation  | <input type="checkbox"/> Evapotranspiration beds               |
| <input type="checkbox"/> Other (describe in detail): <a href="#">Click to enter text.</a> |  |

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

For existing authorizations, provide Registration Number: [Click to enter text.](#)

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

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

**Table 3.0(1) – Land Application Site Crops**

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Golf Course, Bermuda, and Native Grasses	170	320,000	No
Zoysia grass, A1 A4 bent grass	170	320,000	No

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

**Table 3.0(2) – Storage and Evaporation Ponds**

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	4.5	40.5	1070' x 850' x 9.5'	Synthetic
2	1.3	12.0	410' x 150' x 9.5'	
3	1.8	17.0	385' x 105' x 9.5'	
4	1.0	9.0	350' x 125' x 9.5'	

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

**Attachment:** [Click to enter text.](#)

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

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

☐ Yes ☒ No

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

[Click to enter text.](#)

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

FEMA FIRM 48453C0180H, Revised September 26, 2008

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

The irrigation of the golf course will be maintained without runoff. Dams on the golf course property intercept runoff before it reaches Lake Travis.

## Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment:** 6

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

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

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment:** 2

- 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
548603	Domestic	Y	Choose an item.	
281349	Irrigation	Y	Choose an item.	
342767	Irrigation	Y	Choose an item.	
342864	Irrigation	Y	Choose an item.	
356159	Irrigation	Y	Choose an item.	



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

**Attachment:** [Click to enter text.](#)

## Section 7. Groundwater Quality (Instructions Page 69)

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

**Attachment:** [Click to enter text.](#)

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

**Attachment:** [Click to enter text.](#)

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

### A. Soil map

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

**Attachment:** 7

### 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:** A soils analysis has not been conducted.

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

## Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☒ No

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

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

**Table 3.0(5) – Effluent Monitoring Data**

[illegible]

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

Click to enter text.

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

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

### Section 1. Surface Disposal (Instructions Page 72)

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

#### A. Irrigation

Area under irrigation, in acres: [Click to enter text.](#)

Design application frequency:

hours/day [Click to enter text.](#) And days/week [Click to enter text.](#)

Land grade (slope):

average percent (%): [Click to enter text.](#)

maximum percent (%): [Click to enter text.](#)

Design application rate in acre-feet/acre/year: [Click to enter text.](#)

Design total nitrogen loading rate, in lbs N/acre/year: [Click to enter text.](#)

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

Method of application: [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

#### B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

#### C. Evapotranspiration beds

Number of beds: [Click to enter text.](#)

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

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

Void ratio of soil in the beds: [Click to enter text.](#)

Storage volume within the beds, in acre-feet: [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

#### D. Overland flow

Area used for application, in acres: [Click to enter text.](#)

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

Design application rate, in gpm/foot of slope width: [Click to enter text.](#)

Slope length, in feet: [Click to enter text.](#)

Design BOD<sub>5</sub> loading rate, in lbs BOD<sub>5</sub>/acre/day: [Click to enter text.](#)

Design application frequency:

hours/day: [Click to enter text.](#) **And** days/week: [Click to enter text.](#)

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

**Attachment:** [Click to enter text.](#)

## Section 2. Edwards Aquifer (Instructions Page 73)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

**Attachment:** [Click to enter text.](#)

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

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

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

### Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

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

Application area, in acres: [Click to enter text.](#)

Area of drainfield, in square feet: [Click to enter text.](#)

Application rate, in gal/square foot/day: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

Area of trench, in square feet: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

Number of beds: [Click to enter text.](#)

Dosing amount per area, in inches/day: [Click to enter text.](#)

Infiltration rate, in inches/hour: [Click to enter text.](#)

Storage volume, in gallons: [Click to enter text.](#)

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

Soil Classification: [Click to enter text.](#)

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

Attachment: [Click to enter text.](#)

### Section 2. Edwards Aquifer (Instructions Page 74)

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

- ☐ Yes ☐ No

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

- ☐ Yes ☐ No

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

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

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

### Section 1. Administrative Information (Instructions Page 75)

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

B. [Click to enter text.](#) Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

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

[Click to enter text.](#)

C. Owner of the subsurface area drip dispersal system: [Click to enter text.](#)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

E. Owner of the land where the subsurface area drip dispersal system is located: [Click to enter text.](#)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

### A. Type of system

- ☐ Subsurface Drip Irrigation
- ☐ Surface Drip Irrigation
- ☐ Other, specify: [Click to enter text.](#)

### B. Irrigation operations

Application area, in acres: [Click to enter text.](#)

Infiltration Rate, in inches/hour: [Click to enter text.](#)

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

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

Storage volume, in gallons: [Click to enter text.](#)

Major soil series: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

### C. Application rate

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

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

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

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: [Click to enter text.](#)

Nitrogen application rate, in lbs/gal/day: [Click to enter text.](#)

### D. Dosing information

Number of doses per day: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

Rest period between doses, in hours: [Click to enter text.](#)

Dosing amount per area, in inches/day: [Click to enter text.](#)



Number of zones: [Click to enter text.](#)

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

☐ Yes ☐ No

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

**Attachment:** [Click to enter text.](#)

### Section 3. Required Plans (Instructions Page 75)

#### A. Recharge feature plan

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

**Attachment:** [Click to enter text.](#)

#### B. Soil evaluation

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

**Attachment:** [Click to enter text.](#)

#### C. Site preparation plan

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

**Attachment:** [Click to enter text.](#)

#### D. Soil sampling/testing

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

**Attachment:** [Click to enter text.](#)

### Section 4. Floodway Designation (Instructions Page 76)

#### A. Site location

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

☐ Yes ☐ No

#### B. Flood map

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

**Attachment:** [Click to enter text.](#)

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

#### A. Buffer Map

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

**Attachment:** [Click to enter text.](#)

**B. Buffer variance request**

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

☐ Yes ☐ No

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

**Attachment:** [Click to enter text.](#)

**Section 6. Edwards Aquifer (Instructions Page 76)**

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

### Section 1. Toxic Pollutants (Instructions Page 78)

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

Grab ☐ Composite ☐

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

**Table 4.0(1) – Toxics Analysis**

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

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

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

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

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

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

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

## Section 2. Priority Pollutants

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

Grab ☐ Composite ☐

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

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

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

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

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

**Table 4.0(2)B – Volatile Compounds**

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



**Table 4.0(2)C – Acid Compounds**

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

**Table 4.0(2)D – Base/Neutral Compounds**

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

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

**Table 4.0(2)E - Pesticides**

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

\* For PCBs, if all are non-detects, enter the highest non-detect preceded by a "<".

### Section 3. Dioxin/Furan Compounds

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

- ☐ 2,4,5-trichlorophenoxy acetic acid  
Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid  
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate  
Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate  
Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol  
Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene  
Common Name HCP, CASRN 70-30-4

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

[Click to enter text.](#)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

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

Grab ☐ Composite ☐

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

**Table 4.0(2)F – Dioxin/Furan Compounds**

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

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

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

This worksheet is not required minor amendments without renewal.

### Section 1. Required Tests (Instructions Page 88)

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

7-day Chronic: [Click to enter text.](#)

48-hour Acute: [Click to enter text.](#)

### Section 2. Toxicity Reduction Evaluations (TREs)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

### Section 3. Summary of WET Tests

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

**Table 5.0(1) Summary of WET Tests**

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal



# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

### Section 1. All POTWs (Instructions Page 89)

#### A. Industrial users (IUs)

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

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

Categorical IUs:

Number of IUs: [Click to enter text.](#)

Average Daily Flows, in MGD: [Click to enter text.](#)

Significant IUs - non-categorical:

Number of IUs: [Click to enter text.](#)

Average Daily Flows, in MGD: [Click to enter text.](#)

Other IUs:

Number of IUs: [Click to enter text.](#)

Average Daily Flows, in MGD: [Click to enter text.](#)

#### B. Treatment plant interference

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

☐ Yes ☐ No

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

[Click to enter text.](#)

### C. Treatment plant pass through

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

☐ Yes ☐ No

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

[Click to enter text.](#)

### D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☐ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

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

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

### E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: [Click to enter text.](#)

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

### A. Substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

#### B. Non-substantial modifications

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

☐ Yes ☐ No

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

Click to enter text.

#### C. Effluent parameters above the MAL

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

**Table 6.0(1) – Parameters Above the MAL**

Pollutant	Concentration	MAL	Units	Date

#### D. Industrial user interruptions

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

☐ Yes ☐ No

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

Click to enter text.

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

#### A. General information

Company Name: [Click to enter text.](#)

SIC Code: [Click to enter text.](#)

Contact name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Telephone number: [Click to enter text.](#)

Email address: [Click to enter text.](#)

#### B. Process information

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

Click to enter text.

#### C. Product and service information

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

Click to enter text.

#### D. Flow rate information

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

Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

#### E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ Yes ☐ No

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

☐ Yes ☐ No

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

Category: Subcategories: [Click to enter text.](#)

[Click or tap here to enter text.](#) [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

#### F. Industrial user interruptions

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

☐ Yes ☐ No

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

[Click to enter text.](#)

# WORKSHEET 7.0

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

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

For TCEQ Use Only  
Reg. No. \_\_\_\_\_  
Date Received \_\_\_\_\_  
Date Authorized \_\_\_\_\_

#### Section 1. General Information (Instructions Page 92)

**1. TCEQ Program Area**

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

Program ID: [Click to enter text.](#)

Contact Name: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

**2. Agent/Consultant Contact Information**

Contact Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

**3. Owner/Operator Contact Information**

☐ Owner ☐ Operator

Owner/Operator Name: [Click to enter text.](#)

Contact Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

**4. Facility Contact Information**

Facility Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

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

Facility Contact Person: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

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

Latitude: [Click to enter text.](#)

Longitude: [Click to enter text.](#)

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

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

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

Number of Injection Wells: [Click to enter text.](#)

7. **Purpose**

Detailed Description regarding purpose of Injection System:

[Click to enter text.](#)

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

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

License Number: [Click to enter text.](#)

## Section 2. Proposed Down Hole Design

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

**Table 7.0(1) – Down Hole Design Table**

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

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

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

System(s) Dimensions: [Click to enter text.](#)

System(s) Construction: [Click to enter text.](#)

### Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: [Click to enter text.](#)
2. Receiving Formation Name of Injection Zone: [Click to enter text.](#)
3. Well/Trench Total Depth: [Click to enter text.](#)
4. Surface Elevation: [Click to enter text.](#)
5. Depth to Ground Water: [Click to enter text.](#)
6. Injection Zone Depth: [Click to enter text.](#)
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No  
Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:  
Name: [Click to enter text.](#)  
Thickness: [Click to enter text.](#)
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer  
Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume  
Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.  
Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection  
Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: [Click to enter text.](#)
13. Maximum injection Rate/Volume/Pressure: [Click to enter text.](#)
14. Water wells within 1/4 mile radius (attach map as Attachment I): [Click to enter text.](#)
15. Injection wells within 1/4 mile radius (attach map as Attachment J): [Click to enter text.](#)
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): [Click to enter text.](#)
17. Sampling frequency: [Click to enter text.](#)
18. Known hazardous components in injection fluid: [Click to enter text.](#)



## Section 5. Site History

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

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

### *Class V Injection Well Designations*

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

**ARBOR WAY, INC**  
**PERMIT NO. WQ0014649001**  
**APPLICATION FOR A MINOR AMENDMENT WITH RENEWAL**

Technical Completeness Review

12/9/2024

The following items have been addressed:

GEOLOGY

- 1) Domestic Worksheet 3.0, Section 3 – The table has been updated to show the surface area, storage volume, and dimensions of the future golf course ponds.
- 2) Domestic Worksheet 3.0, Section 6 – A revised USGS map has been provided as requested. All existing water wells within a ½-mile, 1-mile and 2-mile radius of the wastewater treatment plant site including land application areas have been shown on the map and the corresponding well log attached. Only one public water supply well was found, well #629045 completed on December 2, 2022 with a total depth of 225-feet.

A separate map showing Lake Travis with a 100-foot vegetative buffer has also been provided as requested.

We are proposing to convert the golf course ponds into wastewater holding ponds once the plant begins to generate enough flow. A note stating “Until the plant begins to generate enough flow to feed both the existing and future golf course ponds, the freshwater ponds will remain as such and will not be upgraded to serve wastewater treatment until needed” has been added to the map.

The map has been revised and no longer shows a point of discharge.

- 3) Domestic Worksheet 3.0, Section 6 – The well table has been revised to include the water wells shown on the USGS map. The Proposed Best Management Practice column has been completed as requested.
- 4) A Groundwater Quality Report has been included as requested.

AGRONOMY

- 1) Domestic Technical Report 1.0, Section 1 - Our intention is to replace the Interim Phase I with the 0.160 MGD that was requested. We have removed Interim Phase II and have decreased the Final Phase flow to 0.320 MGD.
- 2) Domestic Technical Report 1.0, Section 2 – A detailed description of the treatment process has been added as requested.

- 3) Worksheet 3.0, Section 2 – Land Application Site: Table 3.0(1) lists the Effluent Application as 320,000 gallons per day which is correct. Zoysia grass and A1 A4 bent grass have been added to Table 3.0(1).
- 4) Worksheet 3.0, Section 5 – Cropping Plan: Salt tolerances for Zoysia grass and Bermuda grass have been added to the cropping plan. The results were taken from a study done by Texas A&M University that was published in 2008 examining the effects of using reclaimed water for irrigating golf courses.

Two Rivers WWTP - Half Mile & One Mile Radius

Well #	Proposed Use	Date of Completion	Bore Depth	Plugged?	Proposed Best Management Practice
Half Mile Radius					
548603	Domestic	5/7/2020	246	N	meets the 500 ft buffer
281349	Irrigation	3/13/2012	220	N	meets the 500 ft buffer
342767	Irrigation	9/23/2013	240	N	meets the 500 ft buffer
342864	Irrigation	9/25/2013	220	N	meets the 500 ft buffer
356159	Irrigation	2/24/2014	200	N	meets the 500 ft buffer
342763	Irrigation	9/23/2013	200	N	meets the 500 ft buffer
366269	Irrigation	6/4/2014	240	N	meets the 500 ft buffer
342868	Irrigation	9/27/2013	260	N	meets the 500 ft buffer
342870	Irrigation	9/23/2013	280	N	meets the 500 ft buffer
273402	Domestic	10/15/2011	200	N	meets the 500 ft buffer
121336	Domestic	8/27/2007	140	N	meets the 500 ft buffer
369054	Closed-Loop Geothermal	5/23/2014	250	N	meets the 500 ft buffer
111526	Domestic	4/12/2007	170	N	meets the 500 ft buffer
Mile Radius					
111526	Domestic	4/12/2007	170	N	meets the 500 ft buffer
147051	Plugged	5/23/2014	250	Y	meets the 500 ft buffer
184974	Domestic	5/28/2009	205	N	meets the 500 ft buffer
187078	Plugged	No Data	150	Y	meets the 500 ft buffer
34122	Domestic	7/25/2003	230	N	meets the 500 ft buffer
123725	Domestic	9/7/2007	195	N	meets the 500 ft buffer
228211	Domestic	7/31/2010	272	N	meets the 500 ft buffer
339438	Domestic	7/1/2013	270	N	meets the 500 ft buffer
339449	Domestic	7/2/2013	245	N	meets the 500 ft buffer
274163	Irrigation	11/3/2011	170	N	meets the 500 ft buffer
64169	Domestic	5/13/2005	215	N	meets the 500 ft buffer
64164	Domestic	5/12/2005	215	N	meets the 500 ft buffer
365694	Monitor	6/14/2014	15	N	meets the 500 ft buffer
280364	Domestic	12/21/2011	225	N	meets the 500 ft buffer
365693	Domestic	4/16/2014	210	N	meets the 500 ft buffer
553035	Domestic	7/30/2020	170	N	meets the 500 ft buffer
474708	Domestic	3/3/2018	200	N	meets the 500 ft buffer
217963	Domestic	4/14/2010	15	N	meets the 500 ft buffer
676449	Domestic	7/11/2024	220	N	meets the 500 ft buffer
457629	Domestic	6/29/2017	205	N	meets the 500 ft buffer
162929	Domestic	11/25/2008	170	N	meets the 500 ft buffer
532132	Domestic	12/5/2019	175	N	meets the 500 ft buffer
99843	Domestic	11/16/2006	170	N	meets the 500 ft buffer
108237	Domestic	3/13/2007	210	N	meets the 500 ft buffer

Well #	Proposed Use	Date of Completion	Bore Depth	Plugged?	Proposed Best Management Practice
616691	Domestic	8/15/2022	213	N	meets the 500 ft buffer
91343	Domestic	7/25/2006	200	N	meets the 500 ft buffer
656699	Domestic	12/27/2023	190	N	meets the 500 ft buffer
563205	Domestic	12/28/2020	185	N	meets the 500 ft buffer
476156	Domestic	3/1/2018	185	N	meets the 500 ft buffer
131575	Domestic	12/1/2007	155	N	meets the 500 ft buffer
34418	Domestic	8/19/2003	200	N	meets the 500 ft buffer
34419	Domestic	8/20/2003	200	N	meets the 500 ft buffer

Two Rivers WWTP - 2 Mile Radius

Well #	Proposed Use	Date of Completion	Bore Depth	Plugged?	Proposed Best Management Practice
9680	Domestic	6/24/2002	185	N	meets the 500 ft buffer
12390	Domestic	7/12/2002	190	N	meets the 500 ft buffer
12925	Domestic	7/13/2002	205	N	meets the 500 ft buffer
94940	Domestic	5/15/2006	232	N	meets the 500 ft buffer
279310	Domestic	12/27/2011	230	N	meets the 500 ft buffer
286700	Irrigation	4/5/2012	220	N	meets the 500 ft buffer
342763	Irrigation	9/23/2013	200	N	meets the 500 ft buffer
350415	Irrigation	11/4/2013	210	N	meets the 500 ft buffer
356159	Irrigation	2/24/2014	200	N	meets the 500 ft buffer
365939	Domestic	3/13/2014	205	N	meets the 500 ft buffer
367826	Domestic	4/14/2014	245	N	meets the 500 ft buffer
400701	Test Well	7/28/2015	420	N	meets the 500 ft buffer
512901	Domestic	4/12/2019	215	N	meets the 500 ft buffer
591722	Domestic	11/11/2021	200	N	meets the 500 ft buffer
54926	Domestic	1/3/2002	180	N	meets the 500 ft buffer
356980	Domestic	11/9/2013	225	N	meets the 500 ft buffer
305506	Domestic	8/31/2012	185	N	meets the 500 ft buffer
106003	Domestic	2/27/2007	170	N	meets the 500 ft buffer
131492	Domestic	10/23/2007	260	N	meets the 500 ft buffer
491821	Domestic	7/26/2018	225	N	meets the 500 ft buffer
457781	Domestic	7/27/2017	205	N	meets the 500 ft buffer
434236	Domestic	9/21/2016	208	N	meets the 500 ft buffer
12927	Domestic	7/12/2002	185	N	meets the 500 ft buffer
696797	Domestic	3/29/2023	250	N	meets the 500 ft buffer
221177	Domestic	6/2/2010	125	N	meets the 500 ft buffer
274371	Domestic	10/12/2011	230	Y	meets the 500 ft buffer
674570	Domestic	7/24/2024	199	N	meets the 500 ft buffer
253268	Domestic	5/5/2011	200	N	meets the 500 ft buffer
250433	Domestic	1/13/2011	220	N	meets the 500 ft buffer
291921	Domestic	6/14/2012	570	N	meets the 500 ft buffer
339273	Domestic	5/20/2013	205	N	meets the 500 ft buffer
673574	Domestic	6/16/2024	230	N	meets the 500 ft buffer
465411	Domestic	8/31/2017	210	N	meets the 500 ft buffer
47477	Domestic	9/21/2004	200	N	meets the 500 ft buffer
343128	Domestic	8/27/2013	220	N	meets the 500 ft buffer
343105	Domestic	8/22/2013	210	N	meets the 500 ft buffer
39471	Domestic	5/19/2004	190	N	meets the 500 ft buffer
102752	Domestic	12/7/2006	200	N	meets the 500 ft buffer

Well #	Proposed Use	Date of Completion	Bore Depth	Plugged?	Proposed Best Management Practice
471117	Domestic	2/14/2018	250	N	meets the 500 ft buffer
102822	Domestic	12/7/2006	215	N	meets the 500 ft buffer
268589	Domestic	8/9/2011	170	N	meets the 500 ft buffer
536204	Monitor	2/14/2020	70	N	meets the 500 ft buffer
425667	Domestic	5/18/2016	200	N	meets the 500 ft buffer
386480	Domestic	12/15/2014	210	N	meets the 500 ft buffer
227962	Test Well	7/30/2010	200	Y	meets the 500 ft buffer
63788	Domestic	6/24/2005	120	Y	meets the 500 ft buffer
603203	Domestic	3/29/2022	215	N	meets the 500 ft buffer
537867	Domestic	1/20/2020	200	N	meets the 500 ft buffer
655444	Domestic	12/7/2023	220	N	meets the 500 ft buffer
538512	Domestic	2/24/2020	230	N	meets the 500 ft buffer
253127	Domestic	4/27/2011	217	N	meets the 500 ft buffer
600456	Unknown	3/18/2022	180	N	meets the 500 ft buffer
421110	Domestic	4/15/2016	187	N	meets the 500 ft buffer
309625	Stock	12/6/2012	400	N	meets the 500 ft buffer
63738	Domestic	6/24/2005	120	Y	meets the 500 ft buffer
603203	Domestic	3/29/2002	215	N	meets the 500 ft buffer
50664	Domestic	12/6/2004	220	N	meets the 500 ft buffer
11657	Domestic	4/23/2002	225	N	meets the 500 ft buffer
559779	Domestic	11/12/2020	196	N	meets the 500 ft buffer
171112	Domestic	2/16/2009	200	Y	meets the 500 ft buffer
629045	Public Supply	12/2/2022	225	N	meets the 500 ft buffer
9667	Domestic	6/21/2022	155	Y	meets the 500 ft buffer
261764	Irrigation	6/3/2011	350	N	meets the 500 ft buffer
88589	Domestic	4/20/2005	205	N	meets the 500 ft buffer
88588	Domestic	4/19/2005	205	N	meets the 500 ft buffer
171128	Domestic	2/16/2009	120	Y	meets the 500 ft buffer
52638	Domestic	9/30/2004	220	N	meets the 500 ft buffer
272820	Domestic	9/30/2011	240	N	meets the 500 ft buffer
39460	Domestic	5/13/2004	210	N	meets the 500 ft buffer
603201	Domestic	3/29/2022	210	N	meets the 500 ft buffer
72623	Domestic	11/22/2005	270	N	meets the 500 ft buffer
182186	Domestic	10/19/2004	260	N	meets the 500 ft buffer
58488	Domestic	4/19/2005	232	N	meets the 500 ft buffer
603203	Domestic	3/29/2022	215	N	meets the 500 ft buffer
394995	Domestic	3/24/2015	225	N	meets the 500 ft buffer
202458	Domestic	11/19/2009	190	N	meets the 500 ft buffer
511022	Domestic	3/19/2019	224	N	meets the 500 ft buffer
202942	Domestic	1/27/2007	110	N	meets the 500 ft buffer
19564	Domestic	9/6/2022	230	N	meets the 500 ft buffer

Well #	Proposed Use	Date of Completion	Bore Depth	Plugged?	Proposed Best Management Practice
84738	Domestic	5/3/2006	200	N	meets the 500 ft buffer
489225	Domestic	7/27/2018	204	N	meets the 500 ft buffer
123252	Domestic	8/31/2007	200	N	meets the 500 ft buffer
328696	Domestic	5/31/2013	190	N	meets the 500 ft buffer
666222	Domestic	5/6/2024	176	N	meets the 500 ft buffer
666223	Domestic	5/7/2024	180	N	meets the 500 ft buffer
586742	Unknown	10/8/2021	182	N	meets the 500 ft buffer
307898	Domestic	12/6/2012	210	N	meets the 500 ft buffer
311600	Domestic	1/7/2013	205	N	meets the 500 ft buffer
228199	Domestic	7/10/2010	200	N	meets the 500 ft buffer
166479	Domestic	12/11/2008	205	N	meets the 500 ft buffer
506806	Domestic	3/11/2019	200	N	meets the 500 ft buffer
544267	Domestic	4/20/2020	190	N	meets the 500 ft buffer
207661	Monitor	12/16/2009	30	N	meets the 500 ft buffer
207669	Monitor	12/16/2009	35	N	meets the 500 ft buffer
23609	Oil or Gas	10/24/1957	2868	N	meets the 500 ft buffer
103092	Domestic	10/20/2006	320	N	meets the 500 ft buffer
402044	Domestic	7/8/2015	180	N	meets the 500 ft buffer
401733	Domestic	7/10/2015	200	Y	meets the 500 ft buffer
438698	Domestic	10/20/2016	180	N	meets the 500 ft buffer
146397	Domestic	5/3/2008	200	N	meets the 500 ft buffer
250203	Domestic	3/15/2011	165	N	meets the 500 ft buffer
153340	Domestic	8/8/2008	195	N	meets the 500 ft buffer
188862	Domestic	7/20/2009	185	N	meets the 500 ft buffer
188861	Domestic	7/20/2009	155	Y	meets the 500 ft buffer
281847	Closed-Loop Geothermal	2/16/2012	300	N	meets the 500 ft buffer
324857	Closed-Loop Geothermal	7/7/2013	300	N	meets the 500 ft buffer
283991	Test Well	1/30/2012	210	N	meets the 500 ft buffer
105073	Domestic	1/10/2007	260	Y	meets the 500 ft buffer
90499	Oil or Gas	6/3/1981	9467	N	meets the 500 ft buffer
586295	Domestic	10/6/2021	200	N	meets the 500 ft buffer
91533	Oil or Gas	4/3/1978	7828	N	meets the 500 ft buffer
102754	Domestic	12/8/2006	285	N	meets the 500 ft buffer
610596	Domestic	6/29/2022	213	N	meets the 500 ft buffer
380214	Test Well	9/15/2014	320	Y	meets the 500 ft buffer
286612	Domestic	5/9/2012	220	N	meets the 500 ft buffer
78808	No Data	No Data	No Data	-	-
261828	Irrigation	6/23/2011	85	N	meets the 500 ft buffer
350471	Domestic	10/25/2013	300	N	meets the 500 ft buffer
379880	Domestic	8/15/2014	145	N	meets the 500 ft buffer
380217	Test Well	9/16/2014	263	Y	meets the 500 ft buffer



Arbor Way, Inc.

Permit No. WQ0014649001

Groundwater Quality Report

See excerpt from:

Ecological Assessment prepared for Thomas Ranch Conservation Development, Travis and Burnet Counties, Texas prepared by SWCA Environmental Consultants

SWCA Project Number 34519

January 2016

As stated above, Paleface Ranch Road/County Road 404 separates the western portion of the Project Area from the eastern portion and forms the majority of the western portion's eastern and northern boundaries. East of Paleface Ranch Road, light- to medium-density residential development exists up to and beyond the Pedernales River. Commercial development is limited to a Cypress Valley Canopy Tours and the Austin Golf Club course. Texas State Highway (SH) 71 constitutes the southern boundary of the Project Area, beyond which the land is lightly developed and much remains open rangeland. The western boundary of the Project Area aligns with parcel boundaries, beyond which is open rangeland with the occasional ranch house or home.

### **3. ECOLOGICAL/REGIONAL SETTING**

#### **3.1 Ecoregion**

The Project Area is located in the Level III Edwards Plateau ecoregion (Griffith et al. 2007). The Edwards Plateau is a limestone plateau that contains a sparse network of perennial streams. As a result of underground drainage (related to the dissolution of the limestone substrate), the streams are cooler and clearer than those of surrounding areas.

More specifically, the Project Area is located in the Level IV Balcones Canyonlands ecoregion, which supports a relative abundance of running water due to the Trinity and Edwards Aquifers discharging through highly erodible Edwards Formation (Griffith et al. 2007). The water resources and the significant elevation change inherent in the canyonlands promote diverse vegetation communities, such as mesic riparian forest, deciduous forest, and drought-tolerant evergreen woodland which grow along the soil and moisture gradients. General vegetation communities are discussed in Section 3.5. Detailed descriptions of vegetation communities observed within the Project Area are further discussed in [Section 3.6.2](#).

#### **3.2 Hydrology and Topography**

The Project Area is located over the Trinity Aquifer, which extends from Central Texas to the north and east (Texas Parks and Wildlife Department [TPWD] 2016a). It consists of materials such as limestones, sands, clays, gravels, and conglomerates, and freshwater saturated thickness is approximately 1,900 feet on average in the region. The Trinity Aquifer is one of the largest and most extensively used groundwater resources in the state, mainly utilized by municipalities.

The Project Area lies within the Colorado River basin, which extends from the Texas coast northwesterly into New Mexico; on a more regional level, the Project Area is located near the eastern extent of the Pedernales River sub basin, which extends from west of the Pedernales River eastward into Kimble and Kerr Counties (TPWD 2016b). On a local scale, the Project Area overlaps the boundary between the Pedernales River-Lake Travis watershed and the Cow Creek-Lake Travis watershed as shown in Figure 3 (TPWD 2016b). Due to the adjacency of the Project Area to the Pedernales River, the 100-year floodplain, as mapped by the Federal Emergency Management Agency (FEMA), overlaps the boundaries of the eastern portion (FEMA 2008a and 2008b). Approximately 96.2 acres of the Project Area are located within the 100-year floodplain.

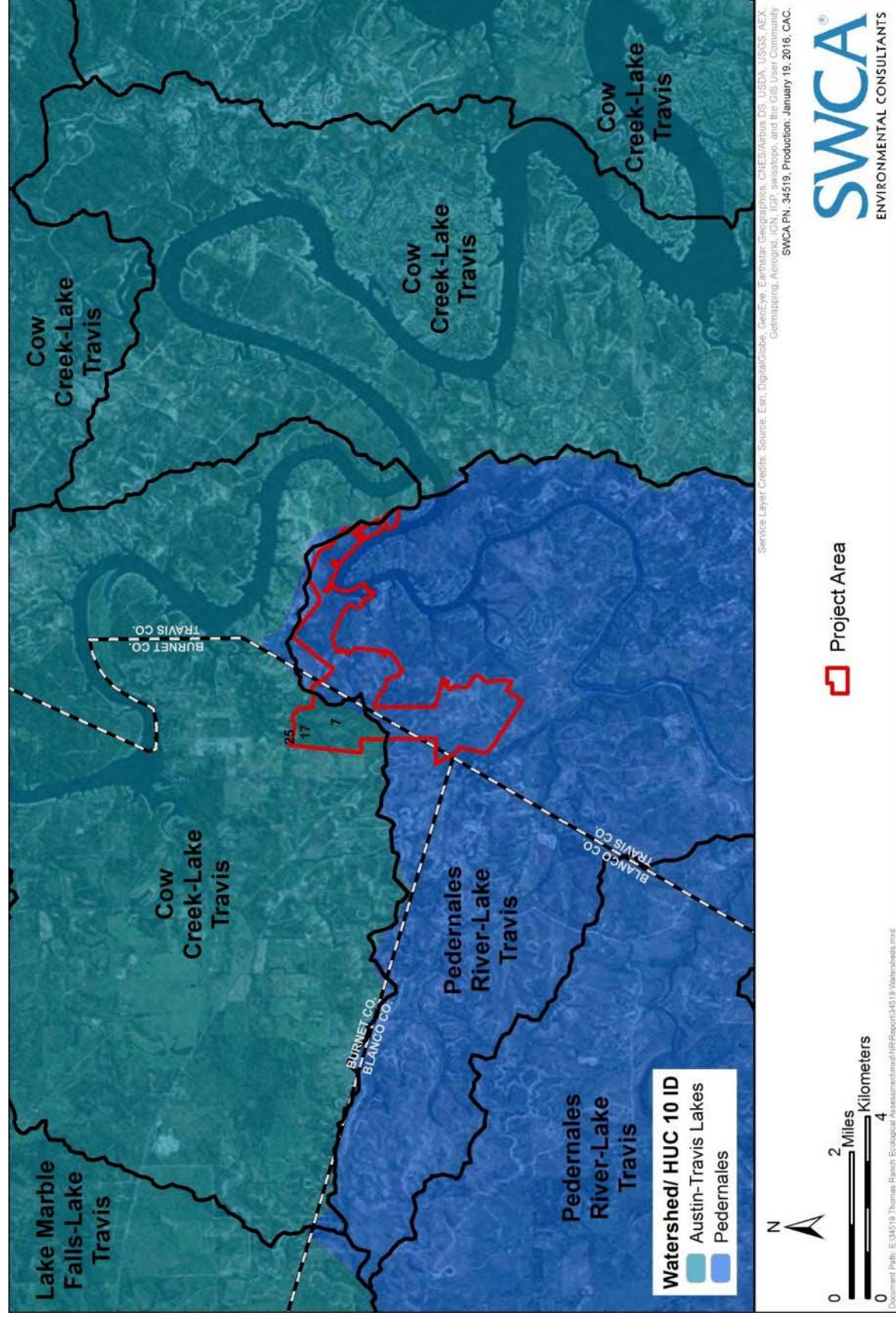


Figure 3. Watershed map

Elevations range from approximately 634 feet above mean sea level (amsl) along the Pedernales River to approximately 1,060 feet amsl in the central portion of the Project Area. The eastern portion of the Project Area lies on the south side of a relatively flat-topped ridge that lies between the Colorado River to the north and the Pedernales River to the south. Topography of most of this area is relatively flat to gently rolling. Steeper topography occurs along the southern margin of the tract where it has been incised by drainages that lead down to the Pedernales River, or by the river itself. Small canyons and steep bluffs characterize this portion of the Project Area. West of Paleface Ranch Road, the topography more closely resembles the relief typical of the Balcones Canyonlands ecoregion. The southern portion of the Project Area, nearer SH 71, is characterized by fewer ridgelines and the topography gently rolls southward into more even terrain.

General relief across the Project Area directs surface water flow to the south and southeast toward the Pedernales River confluence at the Colorado River/Lake Travis. Several ephemeral waterways and their tributaries traverse the Project Area (Figures 4–8). The impounded waterways are limited to the western portion where historical land use included ranching. Since precipitation and spring discharge within stream channels are the primary sources of hydrology, permanent surface water is not common within the Project Area except during periods of significant and consistent rainfall. However, several stream segments receive a small amount of intermittent to perennial water flow from seeps and springs, dependent upon precipitation totals.

### **3.3 Geology**

The geology of the Project Area is mapped as Cretaceous-aged Glen Rose Limestone, Hensell Sand, and Cow Creek Limestone, Hammett Shale, and Sycamore Sand, undivided (Figure 9; Barnes 1981). The Glen Rose Limestone formation, forming the uplands of the western portion of the Project Area, is composed of limestone, dolomite, and marl with an approximate thickness of 380 feet. This formation covers approximately 1,036.8 acres with the Project Area. Canyon bottoms on the north and east sides of the property have cut through the Glen Rose Formation and have exposed the underlying Hensell Sand Formation.

The Hensell Sand Formation is exposed on Thomas Ranch down to an elevation of approximately 800 feet amsl and covers approximately 796.6 acres within the Project Area. The Hensell Sand formation consists of sand, silt, and clay deposits approximately 220 feet thick. This formation is mapped along the slope edges of the uplands and terraces above the Pedernales River in the eastern portion of the Project Area and overlies the Lower Cretaceous Cow Creek Formation.

Below the Hensell Sand at 800 feet amsl, surface geology on the property is mapped as the undivided Lower Cretaceous Cow Creek Limestone, Hammett Shale, and Sycamore Sand formations. This undivided formation is composed of a fossiliferous limestone and shale with sand, silt, gravel, and conglomerate approximately 120 feet thick and covers approximately 331.4 acres within the Project Area. These deposits are exposed on the south side of the eastern portion and form the steep bluffs present along the Pedernales River.

### **Annual Cropping Plan – Lake Cliff on Lake Travis Golf Course**

The golf course consists of approximately 177 +/- acres over 18 holes. There is A1 A4 bent grass, Bermuda Ultradwarf, and Zoysia on the greens, Bermuda and Zoysia on the tees, and Bermuda sport turf and Zoysia on the fairways. Grass for the golf course grows April to mid-November and does not grow when night temperatures fall below 70 degrees. Fertilizer is applied 3 to 4 times a year beginning when growing season starts and weed control is done by hand. Additional fertilizer is applied to the greens and tee boxes only when necessary to maintain the vitality of the grass. The greens are mowed daily at or near 0.25-inches and the fairways are mowed two to three times per week at or near 1-inch. The grasses remain the same year round. A soil map with areas to be irrigated is attached. Additional nitrogen is estimated to be required, see attached Nitrogen Balance.

In 2008, Texas A&M University published a study examining the effects of salinity on different grasses, plants, and trees. This research was specific to the impacts of using reclaimed water as the source of irrigation on various varieties of these plants. One of the primary reasons for the study was the use of reclaimed water for irrigating golf courses. Findings indicated that Zoysia grass and Bermuda grass can withstand the salinity levels commonly associated with reclaimed water, while rye grass, typically used in winter, demonstrated a high level of tolerance as well. A typical concentration of sodium in treated effluent is around 50-100 mg/L. Per the study, Zoysia grass can tolerate between 2000-5000 mg/L salinity of total dissolved solids and Bermuda grass can tolerate 5000 mg/L salinity of total dissolved solids.

## NITROGEN BALANCE

**Plant Ultimate Capacity = 320,000 gallons per day**

**Area to be irrigated = 170 Acres**

### Two Rivers WWTP

320,000 gal/day (365 days/year) = 116,800,000 gallons per year

116,800,000 / 170 acres irrigated = 687,059 gallons per acre per year

687,059 gal/ac / 326,000 gal/ acre-feet = 2.11 acre-Feet / acre

2.11 x 81.6 lbs of Nitrogen/acre-feet = 172 lbs per acre per year

172 lbs per acre per year = 0.0039 lbs/square foot

### Lake Cliff Golf Course

#### **Greens:**

Bermuda Ultradwarf 3-4 lbs/m

Bent 2-3 lbs/m

Zoysia 1 lbs/m

#### **Tees:**

Bermuda 3-4 lbs/m

Zoysia 2 lbs /m

#### **Fairways/Rough:**

Bermuda 2-3 lbs/m

Zoysia 1.5 lbs/m

M=1,000ft<sup>2</sup>

## STATE OF TEXAS WELL REPORT for Tracking #9680

Owner:	<b>PATTI MILLER</b>	Owner Well #:	<b>001</b>
Address:	<b>1404 SUCCESSOR SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>PEDERNALES DR. NAUMANN CAMP SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 01" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 13" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **6/24/2002**      Drilling End Date: **6/24/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>100</b>
	<b>6.125</b>	<b>100</b>	<b>185</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>10</b>

Seal Method: **PRESSURE CEMENTED**

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

Sealed By: **BOBBY ROBERTS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **85 ft. below land surface on 2002-07-08**      Measurement Method: **Unknown**

Packers: **PLASTIC 100  
PLASTIC 135**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **20 GPM**

	<i>Strata Depth (ft.)</i>	<i>Water Type</i>
Water Quality:	<b>No Data</b>	<b>No Data</b>
		Chemical Analysis Made: <b>No</b>
Did the driller knowingly penetrate any strata which contained injurious constituents?:		<b>No</b>

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>BEE CAVE DRILLING, INC.</b> <b>185 ANGELFIRE DR.</b> <b>DRIPPING SPRINGS, TX 78620</b>		
Driller Name:	<b>JIM BLAIR</b>	License Number:	<b>54416</b>
Apprentice Name:	<b>BOBBY ROBERTS</b>	Apprentice Number:	<b>WWDAPP00001 234</b>
Comments:	<b>No Data</b>		

Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>	<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
0	1	TOPSOIL	4.5	NEW	PLASTIC	0 - 145
1	10	GREY ROCK	4.5	NEW	SCREEN MFG.	145 - 185 .040
10	15	CALICHE				
15	30	TAN ROCK				
30	35	GREY SHALE				
35	45	BLUE SHALE				
45	50	TAN SHALE				
50	57	GREY LIMESTONE				
57	70	BLUE SHALE				
70	130	TAN SHALE				
130	185	RED ROCK W/B 20 GPM				



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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 #12390

Owner:	<b>William Folch</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1200 Uplands Ridge Drive Austin, TX 78738</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>1805 Pedernales Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 59" N</b>
		Longitude:	<b>098° 03' 57" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/12/2002**      Drilling End Date: **7/12/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>90</b>
	<b>6</b>	<b>90</b>	<b>190</b>

Drilling Method: **Air Rotary**

Borehole Completion: **cased**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>90</b>	<b>8</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **as per landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 90',87'**

Type of Pump: **No Data**

Well Tests: **Estimated      Yield: 60 GPM**

Water Quality:

Strata Depth (ft.)

90-187

Water Type

Trinity

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: **APEX Drilling**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael Becker**

License Number: **54516**

Apprentice Name: **Andrew Johnson**

Apprentice Number: **1116**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	25	Tan LS
25	30	Gry LS w/Clay
30	60	Blue Clay
60	65	Red Clay
65	72	Gravel (H20)
72	90	Red Clay
90	110	Redsand-Gravel (H20)
110	125	Wht LS
125	187	Redsand Wht LS
187	190	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	New	PVC +2 to 190	Sch40

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## STATE OF TEXAS WELL REPORT for Tracking #12925

Owner: **Action Water Well**

Owner Well #: **No Data**

Address: **100 Spanish Oak Trail  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **Travis Lakeside Cove  
Spicewood, TX 78669**

Latitude: **30° 27' 26" N**

Longitude: **098° 03' 41" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/13/2002**

Drilling End Date: **7/13/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>90</b>
	<b>6</b>	<b>90</b>	<b>205</b>

Drilling Method: **Air Rotary**

Borehole Completion: **cased**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>90</b>	<b>10</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **as per landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 90',87'**

Type of Pump: **No Data**

Well Tests: **Estimated**      **Yield: 60 GPM**

Water Quality:

Strata Depth (ft.)

Water Type

No Data

Trinity

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: **APEX Drilling**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael Becker**

License Number: **54516**

Apprentice Name: **Andrew Johnson**

Apprentice Number: **1116**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	28	Tan LS
28	38	Gry Ls
38	55	Blue Clay
55	65	Tan Sand-Clay
65	80	Sand-Gravel (H20)
80	90	Red Clay
90	108	Sand (Gravel) (H20)
108	135	Red SS-Clay
135	145	Gravel (H20)
145	152	Tan LS-Red SS
152	163	Gravel (H20)
163	195	Tan LS
195	205	Tan Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	New	PVC +2 to 205	Sch40

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## STATE OF TEXAS WELL REPORT for Tracking #94940

Owner: **Belva Rasmussen**  
Address: **24319 Haynie Flat Rd  
Spicewood, TX 78669**  
Well Location: **24323 Haynie Flat Rd  
Spicewood, TX 78669**  
Well County: **Travis**

Owner Well #: **No Data**  
Grid #: **57-40-5**  
Latitude: **30° 26' 02" N**  
Longitude: **098° 04' 05" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/15/2006** Drilling End Date: **5/15/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>232</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>232</b>	<b>Gravel</b>	<b>3/8" Pgrvl</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>11 of Portland</b>

Seal Method: **Pressure Trimmie**

Distance to Property Line (ft.): **15**

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** Yield: **35 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	105-220	Trinity

Chemical Analysis Made: No

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

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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: Apex Drilling, Inc  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker, P.G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	55	White-Tan Limestone
55	65	Grey Limestone
65	105	Blue Clay
105	110	Gravel
110	135	Red Clay
135	140	Gravel
140	170	White Limestone
170	220	Gravel
220	232	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 140' Sch40
4.5" (5" OD)	New	Slotted PVC	140' to 160' .035
4.5" (5" OD)	New	PVC	160' to 180' Sch40
4.5" (5" OD)	New	Slotted	180' to 223' .035

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## STATE OF TEXAS WELL REPORT for Tracking #123252

Owner:	<b>Gloster Bend Resource</b>	Owner Well #:	<b>GlosterBn#1</b>
Address:	<b>PO Box 679000 Austin, TX 78767</b>	Grid #:	<b>57-40-2</b>
Well Location:	<b>Singleton Bend Rd Austin, TX 78767</b>	Latitude:	<b>30° 28' 15" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 56" W</b>
		Elevation:	<b>697 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/30/2007**      Drilling End Date: **8/31/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	
Borehole:	<b>8</b>	<b>0</b>	<b>200</b>	
Drilling Method:	<b>Mud (Hydraulic) Rotary</b>			
Borehole Completion:	<b>Filter Packed</b>			
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>160</b>	<b>Gravel</b>	<b>6-12</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>	
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>24portland2baro</b>	
Seal Method:	<b>pressure grout</b>		Distance to Property Line (ft.): <b>n/a</b>	
Sealed By:	<b>Driller</b>		Distance to Septic Field or other concentrated contamination (ft.): <b>n/a</b>	
			Distance to Septic Tank (ft.): <b>No Data</b>	
			Method of Verification: <b>n/a</b>	

Surface Completion: **Surface Sleeve Installed**

Water Level:	<b>68 ft. below land surface on 2007-06-24</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>gravel packed 100-160</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>140</b>
Well Tests:	<b>Pump</b>	Yield:	<b>16+ GPM</b>

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	Strata Depth (ft.)	Water Type
Water Quality:	125-160	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services, Inc.  
PO Box 525  
Dripping Springs, TX 78620

Driller Name: Martin D. Lingle, Jr. License Number: 54813

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	topsoil
2	45	sand gravel
45	48	gray clay
48	57	gravel clay
57	65	red clay
65	75	gravel gray clay
75	125	red clay gravel
125	140	gravel sand
140	152	brown limestone
152	157	yellow clay
157	165	brown clay
165	167	hard limestone
167	174	light gray clay
174	200	dark clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	N	PVC-SDR 17IB	5-100
4.5	N	PVC-17 SLOTTED .035	100-160

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Austin, TX 78711  
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## STATE OF TEXAS WELL REPORT for Tracking #279310

Owner:	Kerry Emmott	Owner Well #:	#1
Address:	24427 Pedernales Drive Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	24427 Redernales Drive Spicewood, TX 78669	Latitude:	30° 26' 08" N
		Longitude:	098° 04' 14" W
Well County:	Travis	Elevation:	748 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 12/27/2011      Drilling End Date: 12/27/2011

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	10
	8	10	100
	6.75	100	230

Drilling Method: Air Hammer; Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	1	100	18 / Cement

Seal Method: Pressure

Distance to Property Line (ft.): 28

Sealed By: Driller

Distance to Septic Field or other  
concentrated contamination (ft.): 60

Distance to Septic Tank (ft.): 55

Method of Verification: survey

Surface Completion: Pitless Adapter Used      Surface Completion by Driller

Water Level: No Data

Packers: Neoprene 100'  
Neoprene 150' and 155'

Type of Pump: Submersible

Well Tests: Jetted      Yield: 30 GPM

	Description (number of sacks & material)	Top Depth (ft.)	Bottom Depth (ft.)
Plug Information:	N/A		

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Fresh

Chemical Analysis Made: No

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

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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  
185 Angelfire Drive  
Dripping Springs, TX 78620

Driller Name: Charles Coffindaffer License Number: 58658

Comments: well was pressure cemented 100'

Report Amended on 7/9/2021 by Request #34461

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	topsoil
3	7	white limestone
7	12	pink limestone
12	30	tan caliche
30	45	gray limestone
45	90	gray clay
90	150	red clay
150	230	red sandstone-1st H2O-30 gpm-1200 tds

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	Plastic	0 to 190'
4.5	New	Screen	Mfg. 190' to 230' .050

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## STATE OF TEXAS WELL REPORT for Tracking #286700

Owner:	<b>Gloria Frame</b>	Owner Well #:	<b>1</b>
Address:	<b>2930 Travis Lakeside Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>2930 Travis Lakeside Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 03' 43" W</b>
		Elevation:	<b>730 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **4/4/2012**      Drilling End Date: **4/5/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>220</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>20</b>	<b>220</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>20</b>	<b>24</b>	<b>1h1plg6prt1nd</b>
Seal Method:	<b>Pos. Displacement</b>	Distance to Property Line (ft.):	<b>75</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>150+</b>
		Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>measured</b>

Surface Completion: **Pitless Adapter Used**

Water Level:	<b>88 ft. below land surface on 2012-04-04</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>180</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>10+ GPM</b>

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	Strata Depth (ft.)	Water Type
Water Quality:	160'/200'	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	1	Topsoil	4.5	New	PVC-SDR 17IB	+2'/160'
1	18	Brown Sandstone Big Rock	4.5	New	PVC-17 Slotted	.035 160'/200'
18	40	Brown Red Sandstone	4.5	New	PVC-SDR 17IB	200'/220'
40	60	Blue Red Clay				
60	180	Red Sandstone Gravel				
180	190	Red Sandstone Rock				
190	200	Calcite				
200	220	Black Brown Clay				

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## STATE OF TEXAS WELL REPORT for Tracking #342763

Owner:	<b>Stephan James</b>	Owner Well #:	<b>1</b>
Address:	<b>3030 Cliff Overlook Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>3030 Cliff Overlook Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
		Longitude:	<b>098° 04' 13" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>950 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/19/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>130</b>	<b>2hpg5bnsI6TypH</b>

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **9'**

Sealed By: **Driller**

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

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

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **125 ft. below land surface on 2013-09-24**      Measurement Method: **Unknown**

Packers: **6MIL Poly 100'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 06 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	160/195	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 500

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	5	White Limestone
5	6	Brown Limestone
6	16	Brown White Limestone
16	50	Gray Limestone
50	55	Gray Shale
55	70	Gray Red Shale
70	78	Gray Limestone
78	90	Brown Red Sand
90	180	Red Sand Rock
180	195	Brown Sand Rock
195	200	Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB	+2'/140'
4.5	New	PVC-17 Slotted	.035 140'/180'
4.5	New	PVC-SDR 17IB	180'/200'

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #350415

Owner:	Howard Moench	Owner Well #:	No Data
Address:	1215 Janice Ln. Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	24350 Haynie Flatt Rd. Spicewood, TX 78669	Latitude:	30° 26' 15" N
Well County:	Travis	Longitude:	098° 04' 00" W
		Elevation:	757 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: 11/4/2013      Drilling End Date: 11/4/2013

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	10
	8.5	10	210

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	100	210	Gravel	3/8"

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	100	22 cement

Seal Method: pressure cemented

Sealed By: Steve Stewart

Distance to Property Line (ft.): No Data

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 Sleeve Installed

Water Level: 135 ft. below land surface on 2013-11-06      Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible      Pump Depth (ft.): 190

Well Tests: Jetted      Yield: 75 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Trinity
		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**

Apprentice Name: **Steve Stewart**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	50	white & tan limestone
50	70	gray limestone
70	110	gray clay
110	140	red clay & gravel
140	190	white & tan limestone wb
190	210	gravel wb

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	sdr-17	0 110
4.5	new	perf	110 210

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## STATE OF TEXAS WELL REPORT for Tracking #356159

Owner:	<b>Bart Jones</b>	Owner Well #:	<b>1</b>
Address:	<b>25630 Cliff Crossing Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25630 Cliff Crossing Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 23" W</b>
		Elevation:	<b>731 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **2/21/2014**      Drilling End Date: **2/24/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>200</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>140</b>	<b>200</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>140</b>	<b>10bns/7hlp/3tyH</b>
Seal Method:	<b>Pos. Displacement</b>	Distance to Property Line (ft.):	<b>20</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>6</b>
Variance Number:	<b>032-14</b>	Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>Measured</b>
Surface Completion:	<b>Unknown</b>		

Water Level:	<b>112 ft. below land surface on 2014-02-24</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>No Data</b>		
Well Tests:	<b>Jetted</b>	Yield:	<b>15-18 GPM</b>



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	Strata Depth (ft.)	Water Type
Water Quality:	140/200	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 650  
Variance 032-14

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	6	White Limestone Hard
6	7	Brown Limestone
7	15	Brown White Limestone Hard
15	17	Brown Sandstone
17	32	Gray Limestone
32	55	Gray Limestone
55	60	Gray Shale
60	62	Brown Sandstone
62	80	Gray Limestone
80	90	Red Sandstone Damp
90	92	Blue Shale Gravel
92	120	Red Sandstone
120	140	Gravel Red Sandstone
140	198	Gravel & Rock
198	200	Blue Shale Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/140'
4.5	PVC-17	Slotted .035	140'/200'

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #365939

Owner:	<b>AUSTIN OUTLINE, INC.</b>	Owner Well #:	<b>No Data</b>
Address:	<b>P. O. BOX 91956 AUSTIN, TX 78749</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>3004 TRAVIS LAKESIDE DRIVE SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 27' 22" N</b>
		Longitude:	<b>098° 03' 34" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **3/13/2014**      Drilling End Date: **3/13/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>12</b>	<b>0</b>	<b>20</b>
	<b>8.5</b>	<b>20</b>	<b>205</b>

Drilling Method: **Air Hammer**

Borehole Completion: **CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>11 CEMENT</b>
	<b>0</b>	<b>140</b>	<b>10 CLASS H CEM.</b>
	<b>0</b>	<b>140</b>	<b>4 VOLCLAY</b>

Seal Method: **PRESSURE TRIMMIE  
CEMENT**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **25**

Variance Number: **019-14**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

Water Level:	<b>No Data</b>
Packers:	<b>2 BURLAP, PVC 140', 150'</b>
Type of Pump:	<b>Submersible</b>
Well Tests:	<b>Jetted      Yield: 40 GPM</b>

---

	Strata Depth (ft.)	Water Type
Water Quality:	60	TRINITY

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: **CENTEX PUMP & SUPPLY, INC.**  
**2520 HWY. 290 WEST**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOP SOIL
1	20	TAN ROCK
20	50	GRAY LIMESTONE
50	60	HAMMETT CLAY
60	75	HAMMETT CLAY & RED CLAY
75	80	TAN/RED LIMESTONE
80	95	GRAVEL
95	115	RED CLAY
115	150	RED/GRAY LIMESTONE W/STRIPS OF CLAY
150	198	RED/TAN SANDSTONE
198	205	BLUE/YELLOW LIMESTONE W/SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
8 5/8"	N	STEEL	+1 TO 20
4 1/2"	N	PVC SDR17	+3 TO 205
4 1/2"	N	PVC SDR17 SLOT	160 TO 205 .025

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## STATE OF TEXAS WELL REPORT for Tracking #367826

Owner: **Jay Ledbetter ( Dennis Day )**

Owner Well #: **No Data**

Address: **100 Spanish Oaks Trail  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **24341 Haynie Flat Rd  
Spicewood, TX 78669**

Latitude: **30° 26' 10" N**

Longitude: **098° 04' 05" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/14/2014**

Drilling End Date: **4/14/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>245</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>7ben1port</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/ Neoprene 160,155**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 10 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	175-223	L Trinity

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: APEX Drilling INC.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	4	Tan Limestone
4	8	Gravel Limestone
8	54	Tan & White Limestone
54	75	Gray Tan Limestone
75	114	Gray Clay
114	175	Red Sandstone
175	223	Gravel
223	225	Turquoise Clay
225	245	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	( 5OD )	New PVC	+2' to 165' SDR17
4.5"	( 5OD )	New Slotted	165' to 225' .035
4.5"	( 5OD )	New PVC	225' to 245 SDR17

---

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(512) 334-5540**



## STATE OF TEXAS WELL REPORT for Tracking #400701

Owner:	<b>Aqua Texas</b>	Owner Well #:	<b>BCLakesideTW</b>
Address:	<b>3209 Hillbilly Ln Austin, TX 78669</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>26413 Sailpoint Ct. Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 41" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 26" W</b>
		Elevation:	<b>765 ft. above sea level</b>

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #151258**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **7/21/2015**      Drilling End Date: **7/28/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>420</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Plugged**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>-1</b>	<b>15</b>	<b>3 Cement</b>
	<b>15</b>	<b>420</b>	<b>53 Bentonite</b>

Seal Method: **Pos. Displacement**

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

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **Measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 15 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>-1 to 15 3 Cement</b>		
	<b>15-420 53 Bentonite</b>		

---

	Strata Depth (ft.)	Water Type
Water Quality:	120/180	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: **Whisenant & Lyle Water Services**  
**PO Box 525**  
**Dripping Springs, TX 78620**

Driller Name: **Brice Bormann** License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
1	25	Gray Limestone
25	50	Tan Limestone
50	80	Shale
80	120	Brown Limestone
120	180	Gravel
180	420	Shale

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

---

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## STATE OF TEXAS WELL REPORT for Tracking #512901

Owner: **Clayton Mitchell**

Owner Well #: **No Data**

Address: **24215 Haynie Flat Rd  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **24215 Haynie Flat Rd  
Spicewood, TX 78669**

Latitude: **30° 25' 59" N**

Longitude: **098° 04' 07" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/12/2019**

Drilling End Date: **4/12/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>80</b>
	<b>6.25</b>	<b>80</b>	<b>215</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>80</b>	<b>6 Benseal 1 Portland 7 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **5**

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 80 ft.  
Burlap/Neoprene at 82 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 17 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	80 - 195	Trinity - TDS 680
		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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	38	Tan LS
38	52	Gray Tan LS
52	77	Gray Clay
77	91	Red SS
91	96	Gravel
96	154	Red SS
154	195	Gravel
195	196	Turquoise Clay
196	206	Tan Clay
206	215	Gray Shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	135
4.5	Screen	New Plastic (PVC)	.035	135	195
4.5	Blank	New Plastic (PVC)	SDR17	195	215

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**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 #591722

Owner:	<b>Bill Stone</b>	Owner Well #:	<b>No Data</b>
Address:	<b>24423 Pedernales Drive Spicewood , TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24423 Pedernales Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 07.5" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 15.7" W</b>
		Elevation:	<b>739 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **11/10/2021**      Drilling End Date: **11/11/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10.625</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>100</b>
	<b>6.75</b>	<b>100</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 3</b>
	<b>10</b>	<b>100</b>	<b>Bentonite 15</b>

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **6**

Distance to Septic Field or other  
concentrated contamination (ft.): **80**

Distance to Septic Tank (ft.): **60**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **77 ft. below land surface on 2021-11-15**      Measurement Method: **Electric Line**

Packers: **Rubber at 100 ft.  
Rubber at 105 ft.  
Rubber at 135 ft.  
Rubber at 140 ft.**

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

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: **Bee Cave Drilling, Inc.**  
**185 Angel Fire Rd.**  
**Dripping Springs, TX 78620**

Driller Name: **Michael Scott**

License Number: **59719**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	4	topsoil
4	12	white limestone
12	30	tan limestone
30	45	grey limestone
45	60	grey clay
60	80	blue clay
80	100	brown sandstone
100	120	brown clay
120	140	brown sandstone
140	180	porous limestone
180	200	grey clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	140
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	140	180
4.5	Blank	New Plastic (PVC)	sdr-17	180	200

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## STATE OF TEXAS WELL REPORT for Tracking #9667

Owner:	<b>RICK GARDNER # 2</b>	Owner Well #:	<b>001</b>
Address:	<b>3516 TANGLEY HOUSTON, TX 77005</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25242 PALEFACE LAKE DR. SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 23" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 38" W</b>
		Elevation:	<b>1200 ft. above sea level</b>

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #106256**

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>
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Drilling Start Date: **6/21/2002**      Drilling End Date: **6/21/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>10</b>
	<b>6.125</b>	<b>10</b>	<b>155</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>3</b>	<b>3</b>

Seal Method: **N/A**

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

Sealed By: **BOBBY ROBERTS**

Distance to Septic Field or other  
concentrated contamination (ft.): **0**

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

Method of Verification: **N/A**

Surface Completion: **Surface Sleeve Installed**

Water Level:	<b>No Data on 2002-06-21</b>	Measurement Method:	<b>Unknown</b>
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Packers: **N/A**

Type of Pump: **NONE**

Well Tests: **Jetted**      **Yield: 0 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>NONE 0 3 CEMENT 3</b>		

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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 ANGELFIRE DR.  
DRIPPING SPRINGS, TX 78620

Driller Name: JIM BLAIR License Number: 54416

Apprentice Name: BOBBY ROBERTS Apprentice Number: WWDAPP00001  
234

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	10	GREY ROCK
10	15	CALICHE
15	35	GREY LIMESTONE
35	80	GREY SHALE
80	95	TAN SHALE
95	115	RED ROCK
115	120	TAN CLAY
120	145	RED ROCK
145	155	TAN ROCK

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

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## STATE OF TEXAS WELL REPORT for Tracking #12927

Owner:	<b>Action Water Well</b>	Owner Well #:	<b>No Data</b>
Address:	<b>100 Spanish Oak Trail Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>Vicinity Trail Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 53" N</b>
		Longitude:	<b>098° 05' 13" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/12/2002**      Drilling End Date: **7/12/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6</b>	<b>100</b>	<b>185</b>

Drilling Method: **Air Rotary**

Borehole Completion: **cased**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>9</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **as per landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 125',115',100'**

Type of Pump: **No Data**

Well Tests: **Estimated      Yield: 60 GPM**

Water Quality:

Strata Depth (ft.)

125-172

Water Type

Trinity

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: **APEX Drilling**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael Becker**

License Number: **54516**

Apprentice Name: **Andrew Johnson**

Apprentice Number: **1116**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	10	Wht LS
10	25	Tan LS
25	42	Gry LS
42	65	Blue Clay
65	85	Red Clay
85	88	Red Sand-Gravel
88	125	Wht LS-Red Clay
125	165	Gravel (H20)
165	172	Tan LS
172	185	Tan-Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	New	PVC +2 to 185	Sch40

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## STATE OF TEXAS WELL REPORT for Tracking #19564

Owner: **Pedernales Fire Dept. ATTN: Ken VanRens**

Owner Well #: **No Data**

Address: **801 Bee Creek Road  
Spicewood, TX 78669**

Grid #: **57-40-4**

Well Location: **311 Paleface Ranch  
Spicewood, TX 78669**

Latitude: **30° 26' 32" N**

Longitude: **098° 05' 59" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/6/2002**

Drilling End Date: **9/6/2002**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6</b>	<b>20</b>	<b>230</b>

Drilling Method: **Air Rotary**

Borehole Completion: **cased**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **as per landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 117',114',20'**

Type of Pump: **No Data**

Well Tests: **Unknown** **Yield: 9-10 GPM**

Water Quality:

Strata Depth (ft.)

118-210

Water Type

Trinity

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: **APEX Drilling**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael Becker**

License Number: **54516**

Apprentice Name: **Andrew Johnson**

Apprentice Number: **1116**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan Clay
15	27	Tan Red Clay w/Wht LS
27	70	Tan Wht LS
70	85	Gry LS
85	107	Blue Clay
107	118	Gry Sand-Blue Clay
118	128	Red SS-Clay
128	141	Gravel-Sand (H20)
141	158	Red Clay
158	210	Gravel-Sand (H20)
210	225	Tan LS-Clay
225	230	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	New	PVC +2 to 230	SDR17



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## STATE OF TEXAS WELL REPORT for Tracking #39460

Owner:	<b>OLEN WARDLAW</b>	Owner Well #:	<b>No Data</b>
Address:	<b>16100 STEWARD RD AUSTIN, TX 78734</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>312 PARKFACE POINT SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 05" N</b>
		Longitude:	<b>098° 05' 44" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>819 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/13/2004**      Drilling End Date: **5/13/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>13</b>
	<b>7</b>	<b>13</b>	<b>210</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>110</b>	<b>210</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>12 CEMENT</b>
	<b>95</b>	<b>110</b>	<b>2 HOLE PLUG</b>

Seal Method: **SLURRIED & POURED**

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

Sealed By: **JACOB CROUSE**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **48 ft. below land surface on 2004-05-17**      Measurement Method: **Unknown**

Packers: **PLASTIC 10**

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

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

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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

Apprentice Name: JACOB CROUSE Apprentice Number: WWDAPP00001  
862

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	8	RED CLAY & CALICHE
8	36	CALICHE
36	52	TAN SAND & GRAVEL
52	93	GREY CLAY
93	111	GREY CLAY & LIMESTONE
111	124	RED CLAY
124	140	RED CLAY & SANDSTONE
140	155	YELLOW / TAN ROCK & CLAY (RED)
155	173	TAN ROCK / BLUE SANDSTONE W/B 5 GPM
173	201	TAN & WHITE ROCK
201	210	BLUE SHALE / GOLD CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 - 130
4.5	NEW	SCREEN MFG	130 - 190 .10
4.5	NEW	PLASTIC	190 - 210

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## STATE OF TEXAS WELL REPORT for Tracking #39471

Owner:	<b>WILLIAM &amp; JANET FREE</b>	Owner Well #:	<b>No Data</b>
Address:	<b>23 EGON GREEN CIRCLE SAN ANTONIO, TX 78257</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24600 LAKEVIEW DR SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 28" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 58" W</b>
		Elevation:	<b>785 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/19/2004**      Drilling End Date: **5/19/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>13</b>
	<b>7</b>	<b>13</b>	<b>190</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>70</b>	<b>190</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>8 CEMENT</b>
	<b>55</b>	<b>70</b>	<b>2 HOLE PLUG</b>

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **165**

Sealed By: **JACOB CROUSE**

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

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

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **75 ft. below land surface on 2004-05-19**      Measurement Method: **Unknown**

Packers: **PLASTIC 10**

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

Well Tests: **Jetted**      Yield: **25 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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

Apprentice Name: JACOB CROUSE Apprentice Number: WWDAPP00001  
862

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	20	CALICHE & WHITE ROCK
20	32	TAN LIMESTONE
32	43	GREY LIMESTONE
43	70	GREY SHALE
70	99	RED CLAY
99	104	GRAVEL BAR
104	115	GREY ROCK / CLAY STREAKS
115	135	RED SANDSTONE
135	186	YELLOW ROCK W/B 25 GPM
186	190	GOLD CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 - 110
4.5	NEW	SCREEN MFG	110 - 170 .10
4.5	NEW	PLASTIC	170 - 190

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## STATE OF TEXAS WELL REPORT for Tracking #47477

Owner:	<b>Norman Sadik</b>	Owner Well #:	<b>512-784-5263</b>
Address:	<b>22304 Moulin Drive Briarcliff, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24804 Lakeview Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 31" N</b>
		Longitude:	<b>098° 05' 02" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>782 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **9/20/2004**      Drilling End Date: **9/21/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>120</b>
	<b>6.75</b>	<b>120</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>120</b>	<b>59</b>

Seal Method: **tremmie tube pressure  
cemented**

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

Sealed By: **ADC**

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: **88 ft. below land surface on 2004-10-20**      Measurement Method: **Unknown**

Packers: **Neoprene 120  
Burlap 180**

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

Well Tests: **Estimated**      Yield: **15 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	120-200	Trinity

Chemical Analysis Made: No

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

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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 Company**  
**P.O. Box 1060**  
**Manchaca, TX 78652**

Driller Name: **James Benoit** License Number: **4064**

Comments: **Amended 11-11-04 Ref#652**  
**Amended 11-10-04 Ref#635**

**Report Amended on by Request #635**

**Report Amended on by Request #652**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	20	Hard white and tan limestone
20	35	Yellow clay
35	80	Gray lime and clay
80	90	Red clay
90	110	Red sandstone
110	120	Tan and white sandstone
120	140	Red sandstone
140	180	Broken yellow and purple limestone
180	200	Hard yellow limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	Plastic	-2 200 SDR17
Perf. from 140-180			

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**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 #50664

Owner:	<b>Cotie Properties</b>	Owner Well #:	<b>1</b>
Address:	<b>1403 Hargis Creek Trail Austin, TX 78717</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>629 Nomad Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 33.19" N</b>
		Longitude:	<b>098° 05' 31.05" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/6/2004**      Drilling End Date: **12/6/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6</b>	<b>100</b>	<b>220</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>9</b>

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **7**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 120', 110', 100'**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 2 - 3 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	120 - 210	Trinity

Chemical Analysis Made: No

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

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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: **APEX Drilling Inc.**  
**PO Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael G Becker** License Number: **54516**

Comments: **No Data**

**Report Amended on 7/31/2023 by Request #40060**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	42	White Limestone
42	65	Grey Limestone
65	95	Blue Clay
95	120	Red Clay
120	125	Gravel
125	145	Red Clay
145	210	Gravel
210	220	Tan-Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5OD")	New	PVC + 2'	to 220' Sch 40
4.5" (5OD")	New	PVC Screen	150' to 210' .035

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

## STATE OF TEXAS WELL REPORT for Tracking #50736

Owner: **Nick Nicoson**

Owner Well #: **1**

Address: **24001 Pedernales Dr.  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **Lot # 5 Haynie Flats  
Spicewood, TX 78669**

Latitude: **30° 26' 05" N**

Longitude: **098° 04' 03" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **9/6/2004**

Drilling End Date: **9/6/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>10</b>
	<b>6</b>	<b>10</b>	<b>235</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 155', 150', 20'**

Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 10+ GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	175 230	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker, P.G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	10	Tan Limestone
10	45	Tan Limestone-Gravel
45	62	Grey Limestone
62	105	Blue Clay
105	162	Red Sandstone with Clay
162	165	Gravel
165	170	White Limestone
170	235	White-Tan Limestone with Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5"OD)	New	PVC	+2' to 235' Sch40

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

## STATE OF TEXAS WELL REPORT for Tracking #52638

Owner:	<b>Randy Hinkle</b>	Owner Well #:	<b>1</b>
Address:	<b>8600 RR 620 Apt. 1025 Austin, TX 78726</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>504 Nomad Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 45" N</b>
		Longitude:	<b>098° 05' 41" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **9/30/2004**      Drilling End Date: **9/30/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>75</b>
	<b>6</b>	<b>75</b>	<b>220</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>75</b>	<b>9</b>

Seal Method: **Pressure Tremmie**

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

Sealed By: **Driller**

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

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 80', 75'**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 25 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	75 - 220	Trinity

Chemical Analysis Made: No

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

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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: **APEX Drilling Inc.**  
**PO Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	30	Tan-Grey Limestone
30	40	Grey Limestone
40	75	Blue Clay
75	180	Red Sandstone with Gravel
180	205	Tan Clay
205	220	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5"OD)	New	PVC	+2' to 220' Sch40

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #54926

Owner:	<b>BILL BUVENS</b>	Owner Well #:	<b>No Data</b>
Address:	<b>2215 SOUTH PACE BEND RD. SPICEWOOD,, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25042 RIVER RD. SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 06" N</b>
		Longitude:	<b>098° 04' 33" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **1/3/2005**      Drilling End Date: **1/3/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.625</b>	<b>0</b>	<b>30</b>
	<b>6.5</b>	<b>30</b>	<b>180</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>30</b>	<b>6</b>

Seal Method: **Slurry**

Sealed By: **C. T. D.**

Distance to Property Line (ft.): **N/A**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **WELL DRILLED  
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **5 RUBBER & BURLAP 30',70',90',130',150'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 25-30 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	60	TRINITY

Chemical Analysis Made: No

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

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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: CENTRAL TEXAS DRILLING, INC.  
2520 HWY. 290 WEST  
DRIPPING SPRINGS, TX 78620

Driller Name: AARON GLASS License Number: 4227

Comments: Amended 3/16/05  
Reference #1260

Report Amended on by Request #1260

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOP SOIL
1	40	ROCK W/WHITE TAN
40	50	GRAY LIMESTONE
50	70	HAMMID CLAY
70	80	HAMMID CLAY W/RED CLAY
80	90	GRAY LIMESTONE
90	100	RED CLAY
100	130	TRINITY SAND & GRAVEL
130	140	RED CLAY
140	150	RED W/CLAY
150	180	TRINITY SAND W/LARGE GRAVEL

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	OD NEW	PVC SDR17	+3 TO 180 .025

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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 #58488

Owner:	CHRIS HIGHTOWER	Owner Well #:	No Data
Address:	705 JIM BOWIE SPICEWOOD, TX 78669	Grid #:	57-40-4
Well Location:	501 PALEFACE RANCH RD. SPICEWOOD, TX 78669	Latitude:	30° 26' 04" N
Well County:	Travis	Longitude:	098° 06' 12" W
		Elevation:	770 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 4/19/2005      Drilling End Date: 4/19/2005

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	13
	8	13	232

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	128	232	Gravel	

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	10	10 CEMENT
	118	128	3 HOLE PLUG

Seal Method: SLURRIED & POURED

Distance to Property Line (ft.): No Data

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: NOT YET INSTALLED

Surface Completion: Surface Sleeve Installed

Water Level:	97 ft. below land surface on 2005-04-20	Measurement Method:	Unknown
Packers:	PLASTIC 10		
Type of Pump:	Submersible	Pump Depth (ft.):	212
Well Tests:	Pump	Yield:	3.8 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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: GREG SVETLIK License Number: 54416

Comments: updated county by TWDB on 2/14/08 - BA

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	10	TAN LIMESTONE
10	30	FRACTURED WHITE ROCK
30	55	GREY LIMESTONE
55	67	BLUE SHALE
67	75	BROWN SHALE
75	88	BLUE CLAY
88	100	RED CLAY
100	120	RED SANDSTONE
120	140	FRACTURED YELLOW LIMESTONE
140	155	PURPLE ROCK
155	195	BROKEN YELLOW LIMESTONE W/B 2 GPM
195	215	RED CLAY
215	225	BLUE ROCK W/B 5 GPM
225	232	BLACK LIMESTONE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 - 167
4.5	NEW	SCREEN MFG.	167 - 227 .050
4.5	NEW	PLASTIC	227 - 232

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

## STATE OF TEXAS WELL REPORT for Tracking #63738

Owner:	CALVIN FAUGHT	Owner Well #:	No Data
Address:	4703 BALCONES WOODS DR. AUSTIN, TX 78759	Grid #:	57-40-4
Well Location:	25209 LAKEVIEW SPICEWOOD, TX 78669	Latitude:	30° 25' 44" N
Well County:	Travis	Longitude:	098° 05' 23" W
		Elevation:	678 ft. above sea level
			<b>**Plugged Within 48 Hours**</b>

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #112095**

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: 6/24/2005      Drilling End Date: 6/24/2005

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	120

Drilling Method: Air Rotary

Borehole Completion: Unknown

Annular Seal Data: No Data

Seal Method: Not Applicable

Sealed By: Unknown

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: NOT YET INSTALLED

Surface Completion: Unknown

Water Level: No Data

Packers: NONE

Type of Pump: DID NOT SET

Well Tests: Jetted      Yield: 0 GPM

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	NONE 0 - 2 2 CEMENT 2 - 120 CUTTINGS		



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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 ANGELFIRE DR.**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	15	GRAVEL
15	37	RED CLAY
37	40	RED ROCK
40	44	RED CLAY
44	55	RED ROCK
55	67	RED CLAY
67	95	TAN ROCK
95	120	GREY CLAY

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

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

## STATE OF TEXAS WELL REPORT for Tracking #64164

Owner: **Jenny Pia Stanley**  
Address: **25114 River Rd.  
Spicewood, TX 78669**  
Well Location: **25114 River Rd.  
Spicewood, TX 78669**  
Well County: **Travis**

Owner Well #: **1**  
Grid #: **57-40-5**  
Latitude: **30° 26' 17" N**  
Longitude: **098° 04' 54" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/12/2005**

Drilling End Date: **5/12/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>215</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>215</b>	<b>Gravel</b>	<b>3/8" Pea</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>12</b>

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **30**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **60**

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Gravel - See above**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 40 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	110 - 205	Trinity

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: **APEX Drilling Inc.**  
**PO Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael G Becker, P.G.** License Number: **54516**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top Soil
3	23	Tan Limestone
23	53	Grey Limestone
53	95	Grey Clay
95	110	Red Sandstone
110	120	Gravel
120	140	Red Sandstone
140	200	Gravel
200	215	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5"OD) New	PVC	+2' to 145' SDR17
4.5"	(5"OD) New	Slotted PVC	145' to 205' .035
4.5"	(5"OD) New	PVC	205' to 215' SDR17

---

**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #64169

Owner: **Ron Stanley**

Owner Well #: **1**

Address: **25110 River Rd.  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **25110 River Rd.  
Spicewood, TX 78669**

Latitude: **30° 26' 15" N**

Longitude: **098° 04' 54" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/13/2005**

Drilling End Date: **5/13/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>215</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>215</b>	<b>Gravel</b>	<b>3/8" Pea</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>12</b>

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

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

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Gravel - See above**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 40 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	110 - 205	Trinity

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: APEX Drilling Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker, P.G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	30	Tan Limestone
30	57	Grey Limestone
57	97	Grey Clay
97	110	Red Sandstone
110	130	Gravel
130	145	Red Clay
145	205	Gravel
205	215	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5"OD) New	PVC	+2' to 145' SDR17
4.5"	(5"OD) New	Slotted PVC	145' to 205' .035
4.5"	(5"OD) New	PVC	205' to 215' SDR17

---

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## STATE OF TEXAS WELL REPORT for Tracking #72623

Owner:	LISA SCHELLENBERG	Owner Well #:	No Data
Address:	702 LAKEWAY DR. AUSTIN, TX 78734	Grid #:	57-40-4
Well Location:	RED BRANGUS SPICEWOOD, TX 78669	Latitude:	30° 25' 33" N
		Longitude:	098° 06' 11" W
Well County:	Travis	Elevation:	875 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 11/22/2005      Drilling End Date: 11/22/2005

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	10
	6.75	10	270

Drilling Method: Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	8	6 CEMENT
	8	10	1 HOLEPLUG

Seal Method: SLURRIED & 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: NOT YET INSTALLED

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: NEOPRENE 10  
NEOPRENE 180

Type of Pump: DID NOT SET

Well Tests: Jetted      Yield: 3.5 GPM

---

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

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

---

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

Company Information: BEE CAVE DRILLING, INC.  
185 ANGELFIRE DR.  
DRIPPING SPRINGS, TX 78620

Driller Name: BOBBY ROBERTS License Number: 54416

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	8	CALICHE
8	11	WHITE SAND
11	15	YELLOW CLAY
15	20	GREY CLAY
20	43	RED CLAY
43	55	WHITE ROCK W/B 1 GPM TDS 530
55	60	BLUE CLAY
60	83	WHITE ROCK
83	90	YELLOW CLAY
90	105	GREY LIMESTONE
105	130	GREY CLAY
130	176	RED SANDSTONE
176	225	WHITE & RED ROCK W/B 3.4 GPM TDS 840
225	230	RED CLAY
230	235	RED ROCK
235	245	RED CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 - 185
4.5	NEW	SCREEN MFG.	185 - 225 .05

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## STATE OF TEXAS WELL REPORT for Tracking #84738

Owner:	<b>Summit Builders</b>	Owner Well #:	<b>1</b>
Address:	<b>P. O. 340277 Austin, TX 78734</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25400 Love Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 14" N</b>
		Longitude:	<b>098° 05' 15" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>674 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/2/2006**      Drilling End Date: **5/3/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>120</b>
	<b>7</b>	<b>120</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>120</b>	<b>42</b>

Seal Method: **Unknown**

Distance to Property Line (ft.): **40**

Sealed By: **Unknown**

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

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **82 ft. below land surface on 2006-05-11**      Measurement Method: **Unknown**

Packers: **NEOPHRENE 120**

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

Well Tests: **Estimated**      Yield: **10 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	135-180	Trinity

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 Company**  
**P.O. Box 1060**  
**Manchaca, TX 78652**

Driller Name: **James Benoit / 4064wi** License Number: **4064**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	black topsoil
1	65	yellow limestone
65	95	gray limestone
95	110	tan limestone
110	135	red sandstone
135	180	broken sandstone
180	200	hard tan limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	plastic -2	200 SDR17
		screen	from 135-200

---

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## STATE OF TEXAS WELL REPORT for Tracking #88588

Owner:	<b>Cotie Properties</b>	Owner Well #:	<b>2</b>
Address:	<b>1403 Hargis Creek Trail Austin, TX 78628</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>Red Brangus, Lot # 11 Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 43" N</b>
		Longitude:	<b>098° 05' 45" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/19/2005**      Drilling End Date: **4/19/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6</b>	<b>20</b>	<b>205</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Backfilled**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 0 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	N/A	Trinity

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: Apex Drilling, Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker P.G. License Number: 54516

Comments: Backfilled with 2' Cement Cap

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	37	Tan-Grey Limestone
37	45	Grey Limestone
45	55	Grey Limestone w/ Clay
55	90	Grey Clay
90	104	Red Sandstone w/ Clay
104	115	Gravel
115	140	Sandy Clay
140	165	Gravel
165	170	Turquoise Clay
170	205	Tan Clay

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

---

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**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #88589

Owner:	<b>Cotie Properties</b>	Owner Well #:	<b>3</b>
Address:	<b>1403 Hargis Creek Trail Austin, TX 78628</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>Red Brangus, Lot # 11 Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 41" N</b>
		Longitude:	<b>098° 05' 49" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/20/2005**      Drilling End Date: **4/20/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6</b>	<b>20</b>	<b>205</b>

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4 of Portland</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 102', 100', 20'**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 1.9 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	102-180	Trinity

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: Apex Drilling, Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker P.G. License Number: 54516

Comments: Backfilled with 2' Cement Cap

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	28	Tan-White Limestone
28	40	Grey Limestone
40	85	Blue Clay
85	88	Tan Limestone
88	102	Red Clay
102	106	Gravel
106	118	Clay
118	135	Tan Limestone
135	142	Clay
142	165	Gravel
165	180	Tan Limestone w/ Clay
180	205	Tan-Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 125' Sch40
4.5" (5"OD)	New	Slotted	125' to 165' .035
4.5" (5"OD)	New	PVC	165' to 205 Sch40

---

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## STATE OF TEXAS WELL REPORT for Tracking #102752

Owner:	<b>GARY BOSSOW</b>	Owner Well #:	<b>No Data</b>
Address:	<b>10001 RIVERCLIFF COVE SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>803 RIVERCLIFF DRIVE SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 23" N</b>
		Longitude:	<b>098° 05' 01" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>760 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/7/2006**      Drilling End Date: **12/7/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>11</b>
	<b>6.75</b>	<b>11</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>9</b>	<b>6</b>
	<b>9</b>	<b>11</b>	<b>1</b>

Seal Method: **SLURRIED & POURED**

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

Sealed By: **CESAR RAMOS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **166 ft. below land surface on 2006-12-08**      Measurement Method: **Unknown**

Packers: **NEOPRENE 11  
NEOPRENE 148  
NEOPRENE 150**

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

Well Tests: **Jetted**      Yield: **7 GPM**

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

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

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

Company Information: **BEE CAVE DRILLING**  
**185 ANGELFIRE DRIVE**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **3090**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	5	CALICHE
5	45	WHITE ROCK
45	62	GRAY LIMESTONE
62	70	GRAY SHALE
70	80	BROWN SHALE
80	95	GRAY SHALE
95	100	YELLOW SANDSTONE
100	150	RED SHALE
150	200	RED ROCK W/B 7 GPM

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-155
4.5	NEW	SCREEN MFG	155-195 .050
4.5	NEW	PLASTIC	195-200

---

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #102822

Owner:	<b>GARY BOSSOW</b>	Owner Well #:	<b>No Data</b>
Address:	<b>10001 RIVERCLIFF COVE SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>803 RIVERCLIFF DR. SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 29" N</b>
		Longitude:	<b>098° 05' 02" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>772 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/7/2006**      Drilling End Date: **12/7/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>11</b>
	<b>6.75</b>	<b>11</b>	<b>215</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **NONE**

Type of Pump: **DID NOT SET**

Well Tests: **Jetted**      **Yield: 0 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>WELL PLUGGED BY OWNER</b>		

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 ANGELFIRE DR.**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **3090**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	5	CALICHE
5	45	WHITE ROCK
45	62	GREY LIMESTONE
62	70	GREY SHALE
70	80	BROWN SHALE
80	95	GREY SHALE
95	100	YELLOW SANDSTONE
100	150	RED SHALE
150	200	RED ROCK
200	215	YELLOW CLAY

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

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #103130

Owner:	<b>Don Adkins</b>	Owner Well #:	<b>No Data</b>
Address:	<b>2326 Campden Austin, TX 78745</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24331 Haynie Flat Rd Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 05" N</b>
		Longitude:	<b>098° 04' 00" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **11/28/2005**      Drilling End Date: **11/28/2005**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6</b>	<b>20</b>	<b>230</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4 of Portland</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 120', 100', 20'**

Type of Pump: **No Data**

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

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	Strata Depth (ft.)	Water Type
Water Quality:	125-217	Trinity

Chemical Analysis Made: No

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

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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: Apex Drilling, Inc  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker, P.G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	50	Tan/White Limestone
50	65	Grey Limestone
65	105	Grey Limestone w/ Clay
105	125	Red Clay / White Limestone
125	132	Gravel
132	137	Sand/Clay
137	145	Gravel
145	175	White Limestone
175	185	Red Sandstone
185	215	Gravel
215	217	Sand
217	220	Turquoise Clay
220	230	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 160' Sch40
4.5" (5" OD)	New	Slotted PVC	160' to 230' .035



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## STATE OF TEXAS WELL REPORT for Tracking #106003

Owner:	HAL SHUMATE	Owner Well #:	No Data
Address:	3516 PACE BEND RD. SPICEWOOD, TX 78669	Grid #:	57-40-5
Well Location:	0 LAKESHORE DR. SPICEWOOD, TX 78669	Latitude:	30° 25' 54" N
		Longitude:	098° 04' 50" W
Well County:	Travis	Elevation:	638 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **2/26/2007**      Drilling End Date: **2/27/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	12
	8	12	100
	6.75	100	170

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	2	2
	2	105	14

Seal Method: **PRESSURE CEMENTED**

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

Sealed By: **CESAR RAMOS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **77 ft. below land surface on 2007-02-28**      Measurement Method: **Unknown**

Packers: **NEOPRENE 105**  
**NEOPRENE 107**  
**NEOPRENE 109**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **10 GPM**

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

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

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

Company Information: **BEE CAVE DRILLING, INC.**  
**185 ANGELFIRE DR.**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **3090**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	TOPSOIL
3	20	TAN SAND & GRAVEL
20	30	YELLOW CLAY
30	45	BLUE SHALE
45	75	RED SANDSTONE
75	85	RED ROCK
85	110	BLUE SHALE
110	165	RED ROCK W/B 10 GPM TDS 620
165	170	GOLD CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-110
4.5	NEW	SCREEN MFG.	110-170 .050

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## STATE OF TEXAS WELL REPORT for Tracking #131492

Owner:	Jeff Elliott	Owner Well #:	No Data
Address:	100 Spanish Oak Trail Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	24300 Old Ferry Rd Spicewood, TX 78669	Latitude:	30° 25' 39" N
Well County:	Travis	Longitude:	098° 04' 21" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 10/23/2007      Drilling End Date: 10/23/2007

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	20
	6.5	20	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 of Portland

Seal Method: Slurry

Distance to Property Line (ft.): 50

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Landowner

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: Burlap/Neoprene 150', 140', 20'

Type of Pump: No Data

Well Tests: Jetted      Yield: 14-15 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	150-240	Trinity

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: Apex Drilling, Inc  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker, P.G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	35	Grey-Tan Limestone
35	70	White Limestone
70	90	Grey Limestone
90	120	Blue Clay
120	150	Red Clay
150	180	Gravel
180	200	Tan Limestone
200	240	Gravel
240	260	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 160' Sch40
4.5" (5" OD)	New	Slotted PVC	160' to 180' .035
4.5" (5" OD)	New	PVC	180' to 200' Sch40
4.5" (5" OD)	New	Slotted PVC	200' to 240' .035
4.5" (5" OD)	New	PVC	240' to 260' Sch40

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## STATE OF TEXAS WELL REPORT for Tracking #171128

Owner:	Faught, Sybil	Owner Well #:	Faught#2
Address:	40703 Balcones Woods Drive Austin, TX 78759	Grid #:	57-40-4
Well Location:	25209 Lakeview Drive Spicewood, TX 78669	Latitude:	30° 25' 44" N
Well County:	Travis	Longitude:	098° 05' 40" W
		Elevation:	700 ft. above sea level

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #123550**

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: **2/16/2009**      Drilling End Date: **2/16/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>120</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>1PortlandCement</b>
	<b>2</b>	<b>120</b>	<b>Dry Cuttings</b>

Seal Method: **Pour**

Distance to Property Line (ft.): **11**

Sealed By: **Driller**

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

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

Method of Verification: **MEASURED**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**



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	Strata Depth (ft.)	Water Type
Water Quality:	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: **Whisenant & Lyle Water Service**  
**P.O. Box 525**  
**Dripping Springs, TX 78620**

Driller Name: **Martin D Lingle** License Number: **54813**

Apprentice Name: **Gary S Tucker** Apprentice Number: **58291**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	15	white rock sand
15	17	white limestone hard
17	60	red sand clay
60	65	red shale
65	85	white limestone hard
85	120	brown blue red clay

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

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## STATE OF TEXAS WELL REPORT for Tracking #182186

Owner: **C.R.I. Development, attn: Mike Jennings**

Owner Well #: **No Data**

Address: **2007 Big Canyon Drive  
Austin, TX 78746**

Grid #: **57-40-4**

Well Location: **801 Paleface Ranch Rd S  
Spicewood, TX 78669**

Latitude: **30° 25' 46" N**

Longitude: **098° 06' 22" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/19/2004**

Drilling End Date: **10/19/2004**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>30</b>
	<b>6</b>	<b>30</b>	<b>260</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>30</b>	<b>6</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **2 PVC and burlap, 30' and 130'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 2-4 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	30	Trinity

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: **Western Water Wells, LLC**  
**500 Southland Drive**  
**Burnet, TX 78611**

Driller Name: **Frank A. Glass** License Number: **1313**

Comments: **\$scd**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	topsoil
3	22	clay
22	30	blue lime
30	55	white lime
55	120	gray lime and clay
120	200	red beds Trinity
200	260	blue clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5 OD N plastic +2-260 sch40			

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## STATE OF TEXAS WELL REPORT for Tracking #202458

Owner:	<b>ENCINO HOMES</b>	Owner Well #:	<b>001</b>
Address:	<b>110 WINCHESTER DRIPPING SPRINGS, TX 78620</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>LOT 3 PALEFACE RANCH RD SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 27" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 06' 43" W</b>
		Elevation:	<b>795 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **11/19/2009**      Drilling End Date: **11/19/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>6.75</b>	<b>12</b>	<b>190</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>8 CEMENT</b>
	<b>10</b>	<b>17</b>	<b>4 BENTONITE</b>

Seal Method: **SLURRIED & POURED**

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

Sealed By: **CESAR RAMOS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level:	<b>16 ft. below land surface on 2009-11-25</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>1 NEOPRENE 17Æ</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>70</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>15 GPM</b>

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

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

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

Company Information: **BEE CAVE DRILLING**  
**185 ANGEL FIRE DR.**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **3090**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	15	CALICHE
15	60	WHITE ROCK W/B 15 GPM TDS 400
60	100	BLUE SHALE
100	125	TAN CLAY
125	140	BLACK ROCK
140	150	TAN CLAY
150	180	RED ROCK
180	190	BLUE SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 20
4.5	NEW	PLASTIC	20 60 .050
4.5	NEW	PLASTIC	60 80

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## STATE OF TEXAS WELL REPORT for Tracking #202942

Owner: **Tom's Water Well**  
Address: **1414 ECR 130  
Midland, TX 79706**  
Well Location: **ECR 140  
Midland, TX**  
Well County: **Midland**

Owner Well #: **1**  
Grid #: **45-08-5**  
Latitude: **31° 55' 53" N**  
Longitude: **102° 02' 55" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/27/2007**

Drilling End Date: **1/27/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>110</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>90</b>	<b>110</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>90</b>	<b>28 cement</b>

Seal Method: **Pumped**

Distance to Property Line (ft.): **10**

Sealed By: **jason**

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

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Estimated**      **Yield: 15 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	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: **Wheeler Drilling**  
**4223 West 16th St.**  
**Odessa, TX 79763**

Driller Name: **Ron Wheeler** License Number: **2355**

Comments: **\$mb**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	2	top soil	5 n	pvc	0	90
2	70	dry sand	5 n	pvc-slotted	90	110
70	90	wet sand				
90	108	water sand				
108	110	red bed				

---

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## STATE OF TEXAS WELL REPORT for Tracking #221177

Owner:	Pat Di Iorio	Owner Well #:	1
Address:	3525 Katy Hockley Rd Katy, TX 77493	Grid #:	57-40-4
Well Location:	25215 Lakeview Dr Spicewood, TX 78669	Latitude:	30° 25' 51" N
		Longitude:	098° 05' 22" W
Well County:	Travis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **6/2/2010**      Drilling End Date: **6/2/2010**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	125

Drilling Method: **Air Rotary; Mud (Hydraulic) Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	84	9 of Portland

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **6**

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 84, 80**

Type of Pump: **No Data**

Well Tests: **Estimated      Yield: 25 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Trinity

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: Apex Drilling, Inc.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	Gravel
5	17	Sand
17	20	Gravel
20	48	Red Sandy Clay
48	55	Red Sand
55	66	Red Sandstone & Clay
66	67	Turquoise Clay
67	71	Red Clay
71	82	Tan Limestone
82	84	Tan Clay
84	105	Gravel & H2O
105	115	Tan Clay
115	125	Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+ 2' to 85' SDR17
4.5" (5" OD)	New	Slotted PVC	85' to 105' .035
4.5" (5" OD)	New	PVC	105' to 125' SDR17

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## STATE OF TEXAS WELL REPORT for Tracking #227962

Owner:	<b>Sybil Faught</b>	Owner Well #:	<b>Faught #3 test</b>
Address:	<b>4703 Balcones Woods Dr. Austin, TX 78759</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25209 Lakeview Dr Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 46" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 21" W</b>
		Elevation:	<b>736 ft. above sea level</b>

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #128251**

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Test Well</b>
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Drilling Start Date: **7/30/2010**      Drilling End Date: **7/30/2010**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Plug**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>6 portland</b>
	<b>20</b>	<b>200</b>	<b>PlugDryCuttings</b>

Seal Method: **Pressure grout**

Distance to Property Line (ft.): **22**

Sealed By: **Whisenant & Lyle Water  
Services**

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

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

Method of Verification: **measured**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown**      **Yield: 0 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	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: **Whisenant & Lyle Water Services**  
**PO Box 525**  
**Dripping Springs, TX 78620**

Driller Name: **Martin Lingle** License Number: **54813**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	3	white limestone hard
3	5	gray limestone
5	15	white gray limestone
15	17	red clay
17	19	brown clay
19	25	red clay sandstone
25	40	white-red sandstone hard
40	47	brown limestone
47	112	red sandstone red clay
112	137	white limestone hard
137	200	brown clay shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
Plug hole - Dry - Pulled back with dry cuttings same day			

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## STATE OF TEXAS WELL REPORT for Tracking #250433

Owner:	LYLE VEGA	Owner Well #:	No Data
Address:	25012 WHITNEY DRIVE SPICEWOOD, TX 78669	Grid #:	57-40-4
Well Location:	25012 WHITNEY DRIVE SPICEWOOD, TX 78669	Latitude:	30° 25' 44" N
Well County:	Travis	Longitude:	098° 05' 10" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 1/13/2011      Drilling End Date: 1/13/2011

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	100
	6.5	100	220

Drilling Method: Air Hammer

Borehole Completion: CASED

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	100	6 CEMENT
	0	100	6 VOLCLAY

Seal Method: PRESSURE TRIMMY  
CEMENTING

Distance to Property Line (ft.): N/A

Sealed By: CENTRAL TEXAS  
DRILLING, INC.

Distance to Septic Field or other  
concentrated contamination (ft.): N/A

Distance to Septic Tank (ft.): No Data

Method of Verification: WELL DRILLED  
FIRST

Surface Completion: Surface Sleeve Installed

Water Level: 148.6 ft. below land surface on 2011-01-13      Measurement Method: Unknown

Packers: 4 BURLAP,PVC,RUBBER 100',120',140',190'

Type of Pump: Submersible

Well Tests: Jetted      Yield: 5 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	40	TRINITY

Chemical Analysis Made: No

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

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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: **CENTEX PUMP & SUPPLY, INC.**  
**2520 HWY. 290 WEST**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **Amended 7/25/11 Ref.# 9311**  
**Amended 8/10/11 Ref.# 9379**

**Report Amended on by Request #9311**

**Report Amended on by Request #9379**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOP SOIL
1	40	TAN LIMESTONE
40	45	GRAY/BROWN LIMESTONE
45	50	GRAY LIMESTONE
50	65	HAMMIT CLAY
65	105	HAMMIT CLAY W/RED CLAY
105	110	TRINITY SAND & GRAVEL
110	135	SAND & RED CLAY
135	145	RED W/SHALE RED LIMESTONE
145	185	SAND & GRAVEL
185	190	CLAY STRIPS
190	220	BLUE CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	OD	N PVC SDR17	+3 TO 220
5"	OD	N PVC SDR17	SLOT 140 TO 180 .032



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## STATE OF TEXAS WELL REPORT for Tracking #253127

Owner:	<b>Brandi Severence</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25709 Paleface Shore Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25709 Paleface Shore Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 08" N</b>
		Longitude:	<b>098° 05' 31" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/27/2011**      Drilling End Date: **4/27/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.5</b>	<b>20</b>	<b>217</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4 of Portland</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 155,150,140,20**

Type of Pump: **No Data**

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

---

	Strata Depth (ft.)	Water Type
Water Quality:	157-195	Trinity

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: Apex Drilling, Inc.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	37	White Limestone
37	45	Tan Limestone
45	55	Gray Limestone
55	99	Blue Clay
99	122	Red Clay
122	134	Sandstone & Red Clay
134	157	White Limestone & Clay
157	178	Gravel & H2O
178	195	Gravel (Big) & H2O
195	217	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+ 2' to 157' SDR17
4.5" (5" OD)	New	Slotted PVC	157' to 197' .035
4.5" (5" OD)	New	PVC	197' to 217' SDR17

---

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## STATE OF TEXAS WELL REPORT for Tracking #253268

Owner:	<b>Sam Lane</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25102 Whitney Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25102 Whitney Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 45" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 12" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/5/2011**      Drilling End Date: **5/5/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>11 of Portland</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 100, 105, 20**

Type of Pump: **No Data**

Well Tests: **Unknown**      Yield: **15 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	122-180	Trinity

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: **Apex Drilling, Inc.**  
**P O Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	42	Tan Limestone
42	75	Grey Limestone w/ Clay
75	82	Grey Sandstone
82	122	Red Sandstone
122	130	Gravel H2O
130	140	Red Sandstone
140	180	Gravel
180	200	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+ 2' to 120' SDR17
4.5" (5" OD)	New	Slotted PVC	120' to 180' .035
4.5" (5" OD)	New	PVC	180' to 200' SDR17

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## STATE OF TEXAS WELL REPORT for Tracking #268589

Owner:	<b>Stephen Miller</b>	Owner Well #:	<b>#1</b>
Address:	<b>24901 Lakeview Drive Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24901 Lakeview Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 31" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 05" W</b>
		Elevation:	<b>740 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/9/2011**

Drilling End Date: **8/9/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>8</b>	<b>10</b>	<b>100</b>
	<b>6.75</b>	<b>100</b>	<b>170</b>

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>1</b>	<b>100</b>	<b>18 / Cement</b>

Seal Method: **Trimmie pipe - Slurry and  
poured**

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

Sealed By: **Driller**

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

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

Method of Verification: **Tape - wheel**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **Neoprene 100'  
Neoprene 120'**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 75 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>N/A</b>		

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Fresh

Chemical Analysis Made: No

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

---

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

Company Information: Bee Cave Drilling  
185 Angelfire Drive  
Dripping Springs, TX 78620

Driller Name: Charles Coffindaffer #58658 License Number: 58658

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0-1		Topsoil	4.5	New	Plastic	0 to 130'
1 to 4		White rock	4.5	New	Screen	Mfg. 130' to 170' .050
4 to 10		Tan caliche				
10 to 30		Tan limestone				
30 to 35		Void				
35 to 60		Grey clay				
60 to 90		Red clay				
90 to 120		Red sandstone with clay				
120 to 170		Multi color rock-1st H2O 75 gpm				

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**(512) 334-5540**



## STATE OF TEXAS WELL REPORT for Tracking #272820

Owner:	<b>Bryan Haye</b>	Owner Well #:	<b>#1</b>
Address:	<b>501 Nomad Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>501 Nomad Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 49" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 06' 00" W</b>
		Elevation:	<b>712 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **9/30/2011**      Drilling End Date: **9/30/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>6.75</b>	<b>10</b>	<b>240</b>

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>240</b>	<b>Gravel</b>	<b>.25</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>1</b>	<b>100</b>	<b>19 / Cement</b>

Seal Method: **Trimmie pipe - Slurry and poured**

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

Sealed By: **Driller**

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

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

Method of Verification: **Tape - wheel**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **Neoprene 100'**

Type of Pump: **Submersible**

Well Tests: **Jetted      Yield: 2 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>N/A</b>		

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Fresh
		Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained injurious constituents?:		No

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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**  
**185 Angelfire Drive**  
**Dripping Springs, TX 78620**

Driller Name: **Charles Coffindaffer #58658** License Number: **58658**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Topsoil
3	7	White limestone
7	10	Tan caliche
10	20	Tan limestone
20	26	Multi color limestone
26	35	Grey limestone
35	60	Grey shale
60	65	Grey limestone
65	75	Grey shale
75	100	Red clay
100	140	Red sandstone
140	170	Multi color sandstone
170	200	Red clay
200	240	Brown clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	Plastic	0 to 120'
4.5	New	Screen	Mfg. 120' to 240' .050

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**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 #274163

Owner:	CASTLETOP RANCH	Owner Well #:	No Data
Address:	3600 N.CAP.OF TX.HWY.BLDG.B AUSTIN, TX 78746	Grid #:	57-40-4
Well Location:	25800 COX CROSSINGS RD. SPICEWOOD, TX 78669	Latitude:	30° 26' 24" N
Well County:	Travis	Longitude:	098° 05' 12" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: 11/3/2011      Drilling End Date: 11/3/2011

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	40
	6	40	170

Drilling Method: Air Rotary

Borehole Completion: CASED

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	90	8 CEMENT
	0	90	4 VOLCLAY

Seal Method: Slurry

Distance to Property Line (ft.): N/A

Sealed By: Driller

Distance to Septic Field or other  
concentrated contamination (ft.): N/A

Distance to Septic Tank (ft.): No Data

Method of Verification: WELL DRILLED  
FIRST

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: 3 BURLAP, PVC 90',100',150'

Type of Pump: Submersible

Well Tests: Jetted      Yield: 35-40 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	60	TRINITY

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: CENTEX PUMP & SUPPLY, INC.  
2520 HWY. 290 WEST  
DRIPPING SPRINGS, TX 78620

Driller Name: AARON GLASS License Number: 4227

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOP SOIL
1	10	CALICHE/TAN LIMESTONE
10	30	TAN LIMESTONE
30	35	TAN CLAY
35	70	RED LIMESTONE
70	90	TAN LIMESTONE & RED CLAY
90	160	RED SAND & GRAVEL
160	165	YELLOW CLAY
165	170	BLUE CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	OD	N SDR17 PVC	+3 TO 170
5"	OD	N SDR17 PVC	SLOT 90 TO 150 .032

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #274371

Owner:	Timothy White	Owner Well #:	#2
Address:	25201 Old Ferry Road Spicewood, TX 78669	Grid #:	57-40-4
Well Location:	25201 Old Ferry Road Spicewood, TX 78669	Latitude:	30° 25' 48" N
		Longitude:	098° 05' 14" W
Well County:	Travis	Elevation:	742 ft. above sea level

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #79120**

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: 10/12/2011      Drilling End Date: 10/12/2011

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	10
	8	10	100
	6.75	100	230

Drilling Method: Air Hammer; Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	1	100	18 / Cement

Seal Method: Trimmie pipe - Slurry and  
poured

Distance to Property Line (ft.): 10

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Tape - wheel

Surface Completion: Pitless Adapter Used

Water Level: No Data

Packers: Neoprene 100'  
Neoprene 120' and 125'  
Neoprene 220'

Type of Pump: Submersible

Well Tests: Jetted      Yield: 3 GPM

Plug Information:

Description (number of sacks & material)

Top Depth (ft.)

Bottom Depth (ft.)

N/A

Water Quality:

Strata Depth (ft.)

Water Type

No Data

Fresh

Chemical Analysis Made: No

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

Certification Data:

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

Company Information:

**Bee Cave Drilling**  
**185 Angelfire Drive**  
**Dripping Springs, TX 78620**

Driller Name:

**Charles Coffindaffer #58658**

License Number:

**58658**

Comments:

**No Data**

Lithology:

DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:

BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft)

Description

0 to 3 Topsoil

3 to 10 Flint

10 to 30 White limestone

30 to 35 Grey limestone and clay

35 to 80 Grey clay

80 to 120 Red clay and rock

120 to 140 Red sandstone

130 1st H2O-3 gpm

140 to 180 Tan sandstone

180 to 220 Tan clay

220 to 230 Tan shale

Dia. (in.)

New/Used

Type

Setting From/To (ft.)

4.5 New Plastic 0 to 120'

4.5 New Screen , Mfg. 120' to 160' .050

4.5 New Plastic 160' to 220'

4.5 New Screen , Mfg. 220' to 230' .050



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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #280364

Owner: **Todd & Penelope Kemper**

Owner Well #: **No Data**

Address: **25216 River Rd.  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **25216 River Rd.  
Spicewood, TX 78669**

Latitude: **30° 26' 23" N**

Longitude: **098° 04' 55" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/21/2011** Drilling End Date: **12/21/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.5</b>	<b>100</b>	<b>225</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>11 of Portland</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 125, 120, 100**

Type of Pump: **No Data**

Well Tests: **Jetted** Yield: **25 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	125-210	Trinity

Chemical Analysis Made: No

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

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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: Apex Drilling, Inc.  
P.O. Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker, P. G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	41	Tan Limestone
41	52	Tan/Grey Limestone
52	96	Grey Clay
96	115	Red Sandstone
115	119	Gravel
119	125	Red Sandstone
125	133	Gravel
133	147	Red Sandstone
147	210	Sand/Gravel
210	212	Tourquoise Clay
212	225	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+ 2' to 150' SDR17
4.5" (5" OD)	New	Slotted PVC	150' to 210' .035
4.5" (5" OD)	New	PVC	210' to 225' SDR17

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## STATE OF TEXAS WELL REPORT for Tracking #291921

Owner:	<b>SERGIO CRUZ</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25001 WHITNEY DRIVE SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25001 WHITNEY DRIVE SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 41" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 06" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **6/14/2012**      Drilling End Date: **6/14/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>50</b>
	<b>6.5</b>	<b>50</b>	<b>570</b>

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>16 CEMENT</b>
	<b>0</b>	<b>100</b>	<b>6 VOLCLAY</b>

Seal Method: **PRESSURE TRIMMIE  
CEMENTING**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **OWNER**

Surface Completion: **Surface Sleeve Installed**

Water Level: **140 ft. below land surface on 2012-06-14**      Measurement Method: **Unknown**

Packers: **3 BURLAP, PVC, RUBBER 100', 120', 140'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 7-10 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	40	TRINITY

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: CENTEX PUMP & SUPPLY, INC.  
2520 HWY. 290 WEST  
DRIPPING SPRINGS, TX 78620

Driller Name: AARON GLASS License Number: 4227

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0-1		ROCK	5"	OD	N SDR17 PVC	+3 TO 205
1-10		CALICHE	5"	OD	N SDR17 PVC	SLOT 160 TO 200 .032
10-12		BLUE/GRAY LIMESTONE				
12-16		GRAY LIMESTONE				
16-42		TAN LIMESTONE				
42-60		GRAY LIMESTONE				
60-75		HAMMETT CLAY				
75-100		HAMMETT CLAY W/RED CLAY				
100-110		GRAY LIMESTONE W/SAND				
		W/CLAY				
110-115		RED CLAY				
115-130		RED SAND				
130-140		RED W/CLAY LIMESTONE				
140-150		RED/TAN SAND				
150-155		TAN SAND				
155-160		RED/TAN SAND				
160-200		SAND & GRAVEL H2O				
200-205		TAN LIMESTONE W/BLUE CLAY				

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## STATE OF TEXAS WELL REPORT for Tracking #305506

Owner:	<b>MIKE &amp; DEBBIE BOYER</b>	Owner Well #:	<b>No Data</b>
Address:	<b>21210 KELLIWOOD GREENS DRIVE KATY, TX 77450</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25036 RIVER RD. SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 08" N</b>
		Longitude:	<b>098° 04' 54" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/31/2012**      Drilling End Date: **8/31/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>100</b>
	<b>6</b>	<b>100</b>	<b>185</b>

Drilling Method: **Air Rotary**

Borehole Completion: **CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>105</b>	<b>15 CEMENT</b>
	<b>0</b>	<b>105</b>	<b>3 VOLCLAY</b>

Seal Method: **PRESSURE TRIMMIE  
CEMENT**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **WELL DRILLED  
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **100 ft. below land surface on 2012-08-31**      Measurement Method: **Unknown**

Packers: **3 BURLAP, PVC 105', 125', 145'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 25-30 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	40	TRINITY

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: CENTEX PUMP & SUPPLY, INC.  
2520 HWY. 290 WEST  
DRIPPING SPRINGS, TX 78620

Driller Name: AARON GLASS License Number: 4227

Comments: No Data

---

Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0-1		TOP SOIL	5"	OD N	PVC	SDR17 +3 TO 185
1-10		CALICHE	5"	OD N	PVC	SDR17 SLOT 145 TO 185 .025
10-60		GRAY LIMESTONE				
60-70		HAMMETT CLAY				
70-100		HAMMETT CLAY W/RED CLAY				
100-105		RED SANDSTONE				
105-115		RED/TAN SAND & GRAVEL				
115-120		RED/TAN LIMESTONE W/RED CLAY				
120-125		RED SAND & GRAVEL				
125-145		SAND & CLAY				
145-185		SAND & GRAVEL				

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## STATE OF TEXAS WELL REPORT for Tracking #309625

Owner: **Mertz 09 Ranch**  
Address: **427 West Concho Ave.  
San Angelo, TX 76901**

Owner Well #: **No Data**

Grid #: **55-01-3**

Well Location: **west of Eldorado  
TX**

Latitude: **30° 57' 57" N**

Longitude: **100° 53' 57" W**

Well County: **Schleicher**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Stock**

Drilling Start Date: **12/5/2012**

Drilling End Date: **12/6/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.75</b>	<b>20</b>	<b>400</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>-2</b>	<b>20</b>	<b>9 cement</b>

Seal Method: **poured from top**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **rubber 20**

Type of Pump: **No Data**

Well Tests: **Estimated**      **Yield: 20-30 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	375	fresh

Chemical Analysis Made: No

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

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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: Lange Drilling Co.  
PO Box 283  
Rowena, TX 76875

Driller Name: Chris Lange License Number: 54577

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0-147		white lime	5	new	sch 40 pvc	+2-400
147-214		gray lime	mill slot		320-400	.035
214-270		white lime				
235-		water-5gpm				
270-315		gray lime				
315-321		white lime				
321-325		gray lime				
325-328		white lime				
328-400		white-yellow lime				
375-378		cave-water				

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## STATE OF TEXAS WELL REPORT for Tracking #339273

Owner:	<b>WENDY CORREA</b>	Owner Well #:	<b>No Data</b>
Address:	<b>24906 MARTIN LANE SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24907 MARTIN LANE SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 37" N</b>
		Longitude:	<b>098° 05' 05" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/20/2013**      Drilling End Date: **5/20/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>100</b>
	<b>6.5</b>	<b>100</b>	<b>205</b>

Drilling Method: **Air Hammer**

Borehole Completion: **CASED**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>7 VOLCLAY</b>
	<b>0</b>	<b>100</b>	<b>14 CEMENT</b>

Seal Method: **PRESSURE TRIMMIE  
CEMENT**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **WELL DRILLED  
FIRST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **147 ft. below land surface on 2013-05-20**      Measurement Method: **Unknown**

Packers: **5 BURLAP, PVC 100',110',135',155',195'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 10 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	40	TRINITY

Chemical Analysis Made: No

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

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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: CENTEX PUMP & SUPPLY, INC.  
2520 HWY. 290 WEST  
DRIPPING SPRINGS, TX 78620

Driller Name: AARON GLASS License Number: 4227

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-1		ROCK
1-30		TAN LIMESTONE
30-40		GRAY/TAN LIMESTONE
40-55		GRAY LIMESTONE
55-70		GRAY LIMESTONE
		(HAMMETT CLAY)
70-100		GRAY LIMESTONE (HAMMETT
		CLAY) W/RED CLAY
100-105		GRAY ROCK
105-155		RED LIMESTONE W/CLAY
		STRIPS
155-165		RED SANDSTONE
165-195		SAND & GRAVEL
195-205		BLUE CLAY STRIPS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	OD	N SDR17 PVC	+3 TO 205
5"	OD	N SDR17 PVC SLOT	155 TO 195 .032

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



## STATE OF TEXAS WELL REPORT for Tracking #343105

Owner:	Bill O'Dell	Owner Well #:	No Data
Address:	2520 Sono,a Cove Austin, TX 78738	Grid #:	57-40-4
Well Location:	24800 Lakeview Dr Spicewood, TX 78669	Latitude:	30° 25' 30" N
Well County:	Travis	Longitude:	098° 05' 01" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/22/2013**      Drilling End Date: **8/22/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	99
	6.25	99	210

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	99	7 ben 1 port

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 99,98**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 8 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	99-190	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling Inc.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker P.G. License Number: 54516

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
000-001		Top Soil	4.5"	(5OD)	New PVC	+2 to 130 SDR 17
001-024		Tan Limestone	4.5"	(5OD)	Slotted	130 to 190 .035
024-055		Gray Tan Limestone	4.5"	(5OD)	New PVC	190 to 210 SDR 17
055-081		Gray Clay				
081-099		Red Sandstone				
099-104		Gravel H2o				
104-109		Red Sandstone				
109-120		Gravel				
120-145		Red Sandstone				
145-176		Gravel H2o				
176-185		Red Sand stone				
185-190		Gravel H2o				
190-192						
192-210		Tan Clay				

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## STATE OF TEXAS WELL REPORT for Tracking #343128

Owner:	<b>George Tannehill</b>	Owner Well #:	<b>No Data</b>
Address:	<b>24802 Lakeview Dr Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24802 Lakeview Dr Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 30" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 00" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/27/2013**      Drilling End Date: **8/27/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>220</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>8ben1port</b>

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **25**

Sealed By: **APEX Dilling Inc.**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 125,120,105,100**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 5-6 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	125-201	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling Inc.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker P.G. License Number: 54516

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
000-036		Tan White Limestone	4.5"	(5OD)	New PVC	+2 to 140 SDR 17
036-055		Gray Limestone	4.5"	(5OD)	Slotted	140 to 200 .035
055-090		Clay	4.5"	(5OD)	New PVC	200 to 220 SDR 17
090-107		Red Clay				
107-109		Gravel				
109-120		Red Clay Sandstone				
120-153		Red Sandstone H2o				
153-201		Gravel H2o				
201-203		Turquoise Clay				
203		Tan Blue Clay				

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## STATE OF TEXAS WELL REPORT for Tracking #356980

Owner:	DAHR JAMAIL	Owner Well #:	No Data
Address:	500 DALLAS ST., SUITE 3434 HOUSTON, TX 77002	Grid #:	57-40-5
Well Location:	600 RIVER RD. SPICEWOOD, TX 78669	Latitude:	30° 26' 06" N
		Longitude:	098° 04' 38" W
Well County:	Travis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 11/9/2013      Drilling End Date: 11/9/2013

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	50
	6.5	50	225

Drilling Method: Air Hammer

Borehole Completion: CASED

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	50	8 CEMENT
	0	50	3 VOLCLAY

Seal Method: Slurry

Distance to Property Line (ft.): 50+

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: OWNER

Surface Completion: Surface Sleeve Installed

Water Level:	112.6 ft. below land surface on 2013-11-09	Measurement Method:	Unknown
Packers:	5 BURLAP, PVC 50',100',120',150',200'		
Type of Pump:	Submersible		
Well Tests:	Jetted	Yield:	5-10 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	50	TRINITY

Chemical Analysis Made: No

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

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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: **CENTEX PUMP & SUPPLY, INC.**  
**2520 HWY. 290 WEST**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **AARON GLASS** License Number: **4227**

Comments: **No Data**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0-1		TOP SOIL	5"	OD N	SDR17 PVC	+3 TO 165
1-18		TAN/GRAY LIMESTONE	5"	OD N	SDR17 PVC SLOT	165 TO 225 .032
18-40		GRAY LIMESTONE				
40-50		HAMMETT CLAY				
50-55		HAMMETT CLAY W/RED CLAY				
55-60		GRAY LIMESTONE				
60-90		HAMMETT & RED CLAY				
90-95		GRAVEL & SAND				
95-120		RED CLAY				
120-140		GRAVEL -SAND				
140-150		ROCK W/STRIPS OF YELLOW				
		CLAY				
150-195		SAND				
195-225		RED/YELLOW/BLUE CLAY				
		STRIPS				



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## STATE OF TEXAS WELL REPORT for Tracking #365693

Owner:	<b>John Morgan</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25222 River Rd. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25228 River Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 25" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 56" W</b>
		Elevation:	<b>774 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/16/2014**      Drilling End Date: **4/16/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>210</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>210</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>21 cement</b>

Seal Method: **pressure cemented**

Sealed By: **Steve Stewart**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **147 ft. below land surface on 2014-04-17**      Measurement Method: **Unknown**

Packers: **No Data**

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

Well Tests: **Jetted**      Yield: **10 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Trinity

Chemical Analysis Made: No

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

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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

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	6	tan limestone
6	35	hard white rock
35	40	yellow limestone
40	70	gray limestone
70	100	gray clay
100	130	red clay
130	145	red clay & gravel
145	200	red & tan trinity gravel wb 10 gpm
200	210	yellow clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	sdr-17	0 120
4.5	new	perf	120 200
4.5	new	sdr-17	200 210

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Austin, TX 78711  
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## STATE OF TEXAS WELL REPORT for Tracking #365964

Owner: **Cherry Creek Plaza Partnership**

Owner Well #: **MW-3**

Address: **1300 West Lynn Street  
Austin, TX 78703**

Grid #: **58-50-2**

Well Location: **5700 Manchaca  
Austin, TX 78745**

Latitude: **30° 12' 55" N**

Longitude: **097° 48' 00" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **6/14/2014**

Drilling End Date: **6/14/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	
Borehole:	<b>6</b>	<b>0</b>	<b>15</b>	
Drilling Method:	<b>Air Rotary</b>			
Borehole Completion:	<b>Filter Packed</b>			
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>8</b>	<b>15</b>	<b>Gravel</b>	<b>12/20</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>	
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>1 Bag Concrete</b>	
	<b>2</b>	<b>8</b>	<b>1.68 Bentonite</b>	

Seal Method: **HAND**

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

Sealed By: **Driller**

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: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>N/A</b>		

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Unknown

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

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

Company Information: **Vortex Drilling Inc.**  
**4412 Bluemel Road**  
**San Antonio, TX 78745**

Driller Name: **William A. Clayton**

License Number: **53420**

Apprentice Name: **Eddie Martinez**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

From (ft) To (ft) Description

0-5" Concrete.

.5"-4 Silty clay, medium brown, sl. moist, stiff.

4-11 LS, tan, dry, hard.

11 -15 Color change to gray.

Dia. (in.) New/Used Type Setting From/To (ft.)

2" New SCH 40 PVC .010 15' to 10' Screen

2" New SCH 40 PVC 10' to 0 to Riser

2" New Top and Bottom Cap

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #386480

Owner:	<b>Fernando Cruz</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25108 Whitney Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25108 Whitney Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 45" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 13" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/15/2014**      Drilling End Date: **12/15/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>210</b>

Drilling Method: **Air Rotary**

Borehole Completion: **cased; Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>1</b>	<b>100</b>	<b>13cmt 4gel</b>

Seal Method: **pressure pumped / trimmie**

Distance to Property Line (ft.): **6**

Sealed By: **ADC**

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

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

Method of Verification: **owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **122 ft. below land surface on 2014-12-15**      Measurement Method: **Unknown**

Packers: **burlap,plastic,rubber @ 105,100**

Type of Pump: **Submersible**      Pump Depth (ft.): **0**

Well Tests: **Jetted**      Yield: **2-3 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>n/a</b>		

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	Strata Depth (ft.)	Water Type
Water Quality:	105-210	Trinity

Chemical Analysis Made: No

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

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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: Glass Well Service

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	white and tan lime
10	15	tan clay
15	55	gray lime
55	75	gray shale
75	105	gray and white limestone
105	130	red sandstone
130	150	tan and white limestone
150	180	red and white sandstone
180	205	yellow limestone
205	210	gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5 od	new	sdr17 pvc	-3 to 150
5 od	new	sdr17 pvc (.032)	screen 150 to 190
5 od	new	sdr17 pvc	190 to 210



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

## STATE OF TEXAS WELL REPORT for Tracking #394995

Owner:	Tom Etheredge	Owner Well #:	No Data
Address:	500 Paleface Ranch Rd. S. Spicewood, TX 78669	Grid #:	57-40-4
Well Location:	500 Paleface Ranch Rd. S. Spicewood, TX 78669	Latitude:	30° 26' 14" N
Well County:	Travis	Longitude:	098° 06' 25" W
		Elevation:	817 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 3/24/2015      Drilling End Date: 3/24/2015

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	9
	8.5	9	225

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	90	225	Gravel	3/8"

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	40	6 cement
	40	90	4 bentonite

Seal Method: slurried & poured

Sealed By: Derek Scott

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Pitless Adapter Used

Water Level:	145 ft. below land surface on No Data	Measurement Method:	Unknown
Packers:	No Data		
Type of Pump:	Submersible	Pump Depth (ft.):	195
Well Tests:	Jetted	Yield:	15 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Trinity

Chemical Analysis Made: No

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

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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**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	topsoil
5	15	tan limestone & clay
15	20	red clay
20	70	tan sandstone
70	110	clay
110	140	red sandstone & clay
140	190	trinity mix w/ gravel wb
190	225	red clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	sdr-17	0 225
perf	140 - 200		

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## STATE OF TEXAS WELL REPORT for Tracking #421110

Owner:	Eric Debner	Owner Well #:	No Data
Address:	600 Twisted Oaks Horseshoe Bay , TX 78657	Grid #:	57-40-4
Well Location:	25583 Pedernales Pt Spicewood, TX 78669	Latitude:	30° 25' 57" N
Well County:	Travis	Longitude:	098° 05' 37" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 4/15/2016      Drilling End Date: 4/15/2016

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	85
	6.25	85	187

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	5	Portland 2 Bags/Sacks
	5	85	Benseal 6 Bags/Sacks

Seal Method: Pressure

Sealed By: Driller

Distance to Property Line (ft.): 50+

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

Distance to Septic Tank (ft.): 50+

Method of Verification: Land Owner

Surface Completion: Surface Sleeve Installed      Surface Completion by Driller

Water Level: No Data

Packers: Burlap/Neoprene at 85 ft.  
Burlap/Neoprene at 90 ft.

Type of Pump: No Data

Well Tests: Pump      Yield: 5 1/2 GPM

Water Quality:

Strata Depth (ft.)

85 - 167

Water Type

Trinity - TDS 920

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

**Report Amended on 3/9/2023 by Request #38895**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	45	Tan White LS
45	52	Gray LS w/ Clay
52	85	Gray Clay
85	145	Red SS
145	167	Gravel
167	187	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	107
4.5	Screen	New Plastic (PVC)	.035	107	167
4.5	Blank	New Plastic (PVC)	SDR17	167	187

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## STATE OF TEXAS WELL REPORT for Tracking #425667

Owner:	<b>Casey Williams</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25102 Lakeview Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25102 Lakeview Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 40.99" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 14.5" W</b>
		Elevation:	<b>761 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/18/2016**      Drilling End Date: **5/18/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8.5</b>	<b>12</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>200</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Cement 3 Bags/Sacks</b>
	<b>20</b>	<b>100</b>	<b>Bentonite 8 Bags/Sacks</b>

Seal Method: **Pressure**

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: **88 ft. below land surface on 2016-05-20**

Packers: **No Data**

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

Well Tests: **Jetted**      **Yield: 3 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	115 - 190	Trinity

Chemical Analysis Made: No

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

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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**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	25	tan limestone
25	75	gray limestone
75	85	brown clay
85	95	gray clay
95	115	red clay
115	190	red sandstone with sandy clay
190	200	yellow clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	140
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	140	200

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## STATE OF TEXAS WELL REPORT for Tracking #434236

Owner: **Joshua Buckner**

Owner Well #: **No Data**

Address: **8407 Selway  
Austin , TX 78736**

Grid #: **57-40-4**

Well Location: **121 Mels Rd  
Spicewood, TX 78669**

Latitude: **30° 25' 50" N**

Longitude: **098° 05' 06" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **4/21/2016**

Drilling End Date: **9/21/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>12</b>
	<b>6.25</b>	<b>12</b>	<b>208</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Portland 4 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.  
Burlap/Neoprene at 30 ft.  
Burlap/Neoprene at 110 ft.  
Burlap/Neoprene at 115 ft.  
Burlap/Neoprene at 120 ft.**

Type of Pump: **No Data**

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

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	Strata Depth (ft.)	Water Type
Water Quality:	120 - 188	Trinity

Chemical Analysis Made: No

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

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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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	33	Tan LS
33	53	Gray Tan LS
53	90	Gray Clay
90	120	Red SS
120	188	Gravel
188	200	Tan Clay
200	208	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	128
4.5	Screen	New Plastic (PVC)	.035	128	188
4.5	Blank	New Plastic (PVC)	SDR17	188	208

---

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## STATE OF TEXAS WELL REPORT for Tracking #457781

Owner:	<b>Enterline</b>	Owner Well #:	<b>No Data</b>
Address:	<b>24800 River Rd. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24800 River Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 45.4" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 00.5" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/27/2017**      Drilling End Date: **7/27/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>50</b>
	<b>6.25</b>	<b>50</b>	<b>205</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>-1</b>	<b>50</b>	<b>6 cement 2 bentonite gelclay Bags/Sacks</b>

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **>70**

Sealed By: **Driller**

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

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

Method of Verification: **well drilled first /  
owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap at 50 ft.  
Burlap and Plastic at 125 ft.  
Burlap and Plastic at 145 ft.**

Type of Pump: **Submersible**

Well Tests: **Estimated      Yield: 15-20 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	110 - 205	Lower Trinity
		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: **Glass Well Service**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	40	tan lime
40	70	blue lime
70	95	blue lime and shale
95	110	gray white limestone
110	150	red sandstone and clay
150	165	red white limestone
165	185	multi-colored limestones gravel (h2o)
185	205	yellow limestone and clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr17	-3	145
4.5	Screen	New Plastic (PVC)	sdr17 0.032	145	205

---

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## STATE OF TEXAS WELL REPORT for Tracking #465411

Owner:	<b>ARELI LOPEZ</b>	Owner Well #:	<b>No Data</b>
Address:	<b>24904 MARTIN LANE SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24904 MARTIN LANE SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 25' 36.24" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 04.14" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/31/2017**      Drilling End Date: **8/31/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>100</b>
	<b>6.125</b>	<b>100</b>	<b>210</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>TYPE H CEMENT 6 Bags/Sacks</b>
	<b>0</b>	<b>100</b>	<b>Bentonite 3 Bags/Sacks</b>

Seal Method: **PRESSURE TREMIE  
CEMENTING**

Distance to Property Line (ft.): **10**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **TAPE MEASURE**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **110 ft. below land surface on 2017-09-04**      Measurement Method: **Electric Line**

Packers: **Burlap at 100 ft.  
BURLAP & PLASTIC at 169 ft.**

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

Well Tests: **Jetted**      **Yield: 10 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	170 - 210	LOWER TRINITY
		Chemical Analysis Made: No
		Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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: Centex Pump & Supply, Inc.  
2520 Hwy. 290 West  
Dripping Springs, TX 78620

Driller Name: MARTIN DALE LINGLE License Number: 54813

Comments: No Data

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOP SOIL
1	22	WHITE LIMESTONE
22	25	BROWN LIMESTONE
25	80	GRAY LIMESTONE
80	100	BROWN CLAY
100	140	RED CLAY
140	170	BROWN LIMESTONE
170	205	GRAVEL
205	210	BROWN CLAY

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	Blank	New Plastic (PVC)	SDR17	2	170
5	Perforated or Slotted	New Plastic (PVC)	SDR17	170	210

---

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## STATE OF TEXAS WELL REPORT for Tracking #471117

Owner:	<b>Rick Shealy</b>	Owner Well #:	<b>2</b>
Address:	<b>24613 Pedernales Cliff Trail Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24613 Pedernales Cliff Trail Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 21.89" N</b>
		Longitude:	<b>098° 04' 53.2" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>749 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **2/14/2018**      Drilling End Date: **2/14/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>250</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>160</b>	<b>250</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>160</b>	<b>Cement 39 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **25**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **30**

Variance Number: **008-18**

Distance to Septic Tank (ft.): **30**

Method of Verification: **tape**

Surface Completion: **Pitless Adapter Used**      **Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **220**

Well Tests: **Jetted**      **Yield: 15 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: **800 tds**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>13</b>	<b>white limestone</b>
<b>13</b>	<b>20</b>	<b>tan limestone</b>
<b>20</b>	<b>60</b>	<b>gray limestone</b>
<b>60</b>	<b>80</b>	<b>gray clay</b>
<b>80</b>	<b>130</b>	<b>red sandstone</b>
<b>130</b>	<b>160</b>	<b>red clay</b>
<b>160</b>	<b>180</b>	<b>gravel</b>
<b>180</b>	<b>210</b>	<b>red limestone</b>
<b>210</b>	<b>240</b>	<b>gray clay</b>
<b>240</b>	<b>250</b>	<b>tan limestone</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
4.5	Blank	New Plastic (PVC)	sdr-17	0	170
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	170	210
4.5	Blank	New Plastic (PVC)	sdr-17	210	250



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

## STATE OF TEXAS WELL REPORT for Tracking #489225

Owner:	Lee Grote	Owner Well #:	No Data
Address:	25300 Pedernales Point Spicewood, TX 78669	Grid #:	57-40-4
Well Location:	25300 Pedernales Point Spicewood, TX 78669	Latitude:	30° 26' 14.91" N
		Longitude:	098° 05' 07.7" W
Well County:	Travis	Elevation:	701 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 7/27/2018      Drilling End Date: 7/27/2018

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10.5	0	8.5
	8.5	8.5	204

Drilling Method: Air Rotary

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	80	204	Gravel	3/8"

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	80	Cement 14 Bags/Sacks

Seal Method: Pressure

Sealed By: Driller

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Surface Sleeve Installed      Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: Submersible

Well Tests: Jetted      Yield: 10-15 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	80 - 160	Trinity

Chemical Analysis Made: No

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

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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: top of production zone was at 80'

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	11	caliche
11	21	red shale
21	35	gravel
35	72	gray limestone
72	92	gravel
92	111	shale
111	130	tan limestone
130	140	gravel
140	160	gray limestone
160	204	gray limestone w/ shale stringers

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	80
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	80	200

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## STATE OF TEXAS WELL REPORT for Tracking #491821

Owner:	<b>Craig Roberts</b>	Owner Well #:	<b>No Data</b>
Address:	<b>24900 River Rd Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24900 River Rd Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 50" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 59" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/26/2018**      Drilling End Date: **7/26/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>225</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>7 Benseal 2 Portland 9 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **5+**

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

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

Water Level: **No Data**

Packers: **Burlap/Neoprene at 100 ft.  
Burlap/Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 45 GPM**

Water Quality:

Strata Depth (ft.)

152 - 205

Water Type

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

**Report Amended on 10/1/2018 by Request #26132**

**Report Amended on 10/1/2018 by Request #26140**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	30	Tan LS
30	42	Gray Tan LS
42	53	Tan LS
53	58	Gray Tam LS
58	92	Gray Clay
92	152	Red SS
152	205	Gravel
205	225	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	145
4.5	Screen	New Plastic (PVC)	.035	145	205
4.5	Blank	New Plastic (PVC)	SDR17	205	225

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## STATE OF TEXAS WELL REPORT for Tracking #511022

Owner:	<b>Jorge Burgos</b>	Owner Well #:	<b>No Data</b>
Address:	<b>201 N. Paleface Ranch Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>201 N. Paleface Ranch Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 25" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 06' 00" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **3/19/2019**      Drilling End Date: **3/19/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>18</b>
	<b>6.25</b>	<b>18</b>	<b>224</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Portland 4 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

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

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.  
Burlap/Neoprene at 25 ft.  
Burlap/Neoprene at 120 ft.  
Burlap/Neoprene at 130 ft.**

Type of Pump: **No Data**

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



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	Strata Depth (ft.)	Water Type
Water Quality:	137 - 204	Trinity - TDS 620
Chemical Analysis Made:		No
Did the driller knowingly penetrate any strata which contained injurious constituents?:		No

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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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	35	Tan Red LS
35	61	Tan White LS
61	77	Gray Tan LS
77	85	Gray LS w/ Clay
85	114	Gray Clay
114	137	Red LS
137	141	Gravel
141	160	Red SS
160	204	Gravel
204	205	Turquoise Clay
205	224	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	144
4.5	Screen	New Plastic (PVC)	.035	144	204
4.5	Blank	New Plastic (PVC)	SDR17	204	224

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## STATE OF TEXAS WELL REPORT for Tracking #536204

Owner:	<b>Petroleum Wholesale, LP</b>	Owner Well #:	<b>MW-2</b>
Address:	<b>P.O. Box 4456 Houston, TX 77210</b>	Grid #:	<b>45-13-5</b>
Well Location:	<b>5934 I-20 West Odessa, TX 79763</b>	Latitude:	<b>31° 48' 43.14" N</b>
Well County:	<b>Ector</b>	Longitude:	<b>102° 25' 56.93" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Monitor</b>

Drilling Start Date: **2/14/2020**      Drilling End Date: **2/14/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>70</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>48</b>	<b>70</b>	<b>Sand</b>	<b>20/40</b>

Annular Seal Data: **No Data**

Seal Method: **Tremie**

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**

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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**

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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: **Talon/LPE**  
**921 N. Bivins**  
**Amarillo, TX 79107**

Driller Name: **Shane Currie**

License Number: **54499**

Apprentice Name: **Colby Chapa**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Asphalt Pavement/Caliche Base
1	26	Sand, Fine Grained, Pinkish Tan w/ Small Caliche Gravel
26	70	Sand, Fine-Medium Grained, Tan-Orange

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
2	Blank	New Plastic (PVC)	40	0.25	50
2	Screen	New Plastic (PVC)	40/0.010	50	70

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## STATE OF TEXAS WELL REPORT for Tracking #537867

Owner:	<b>Greg McBride</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25011 Lakeview dr Spicewood , TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25011 Lakeview dr Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 37.33" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 16.25" W</b>
		Elevation:	<b>717 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **1/16/2020**      Drilling End Date: **1/20/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10.625</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>200</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 3</b>
	<b>10</b>	<b>100</b>	<b>Bentonite 8</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **20**

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **85+**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level:	<b>53 ft. below land surface on 2020-01-22</b>	Measurement Method:	<b>Electric Line</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>180</b>
Well Tests:	<b>No Test Data Specified</b>		

### 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

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>top soil</b>
<b>2</b>	<b>10</b>	<b>caliche</b>
<b>10</b>	<b>30</b>	<b>tan clay/limestone</b>
<b>30</b>	<b>40</b>	<b>grey clay</b>
<b>40</b>	<b>70</b>	<b>grey limestone/with clay</b>
<b>70</b>	<b>110</b>	<b>red gravel</b>
<b>110</b>	<b>135</b>	<b>tan sandstone wb 5-10 gpm</b>
<b>135</b>	<b>145</b>	<b>grey sandstone</b>
<b>145</b>	<b>170</b>	<b>multi colored sandstone</b>
<b>170</b>	<b>200</b>	<b>dark grey clay</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>0</b>	<b>140</b>
<b>4.5</b>	<b>Perforated or Slotted</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>140</b>	<b>200</b>

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## STATE OF TEXAS WELL REPORT for Tracking #538512

Owner:	Alejandra Paredon	Owner Well #:	No Data
Address:	25104 Lakeview Dr. Spicewood, TX 78669	Grid #:	57-40-4
Well Location:	25104 Lakeview Dr. Spicewood, TX 78669	Latitude:	30° 26' 08.6" N
Well County:	Travis	Longitude:	098° 05' 26.2" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 2/24/2020 Drilling End Date: 2/24/2020

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	100
	6.125	100	230

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

Annular Seal Data: No Data

Seal Method: CUTTINGS/ CEMENT

Sealed By: CTD

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 NOT by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

	Description (number of sacks & material)	Top Depth (ft.)	Bottom Depth (ft.)
Plug Information:	Cement	0	5
	Cuttings	5	230



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: Centex Pump & Supply, Inc.

2520 Hwy. 290 West  
Dripping Springs, TX 78620

Driller Name: Martin Lingle

License Number: 54813

Comments: No Data

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	SAND/ROCK
20	25	GRAY LIMESTONE
25	60	GRAY W/ CLAY LIMESTONE
60	65	RED CLAY
65	85	GRAY LIMESTONE/CLAY
85	120	RED SAND/ GRAVEL
120	125	BROWN CLAY
125	190	RED BROWN
190	230	YELLOW CLAY

Dia. (in.) New/Used Type Setting From/To (ft.)

No Data

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #559779

Owner:	David June	Owner Well #:	No Data
Address:	14622 Carols Way Dr. Houston , TX 77070	Grid #:	57-40-4
Well Location:	521 Nomad Dr Spicewood, TX 78669	Latitude:	30° 25' 44" N
Well County:	Travis	Longitude:	098° 05' 37" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 11/12/2020      Drilling End Date: 11/12/2020

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.5	0	100
	6.25	100	196

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	100	7 Benseal 2 Portland 9 Bags/Sacks

Seal Method: Pressure

Distance to Property Line (ft.): 10

Sealed By: Driller

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

Distance to Septic Tank (ft.): 50

Method of Verification: Land Owner

Surface Completion: Surface Sleeve Installed      Surface Completion by Driller

Water Level: No Data

Packers: Burlap/Neoprene at 100 ft.  
Burlap/Neoprene at 105 ft.

Type of Pump: No Data

Well Tests: Jetted      Yield: 25 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	105 - 176	Trinity

Chemical Analysis Made: No

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

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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: Apex Drilling, Inc.  
P.O. Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: S. Travis Co

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	20	Tan White LS
20	40	Gray LS
40	55	Gray LS w/ Clay
55	60	Brown Clay
60	76	Gray LS w/ Clay
76	132	Red SS
132	138	Gravel Red SS
138	142	Gravel W/ Sand
142	174	Gravel W/ Sand
174	176	Turquoise Clay
176	196	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	116
4.5	Screen	New Plastic (PVC)	.035	116	176
4.5	Blank	New Plastic (PVC)	SDR17	176	196

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## STATE OF TEXAS WELL REPORT for Tracking #600456

Owner:	Lloyd Helms	Owner Well #:	No Data
Address:	26000 Master Parkway Spicewood , TX 78669	Grid #:	57-40-4
Well Location:	25646 Pedernales Point Dr Spicewood, TX 78669	Latitude:	30° 26' 01" N
		Longitude:	098° 05' 37" W
Well County:	Travis	Elevation:	No Data
Type of Work:	Unknown	Proposed Use:	Unknown

Drilling Start Date: 3/18/2022      Drilling End Date: 3/18/2022

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	92
	6.25	92	180

Drilling Method: Unknown

Borehole Completion: Unknown

Annular Seal Data: No Data

Seal Method: Unknown

Sealed By: Driller

Distance to Property Line (ft.): UNKNOWN

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

Distance to Septic Tank (ft.): UNKNOWN

Method of Verification: No Data

Surface Completion: Unknown

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Apprentice Name: **Alfonso Rodriguez Jr.**

Apprentice Number: **60952**

Comments: **SWTCGCD - Approved**

**DRY**  
**Backfilled 2' Cement Cap**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	27	White Tan LS
27	36	Tan LS
36	53	Gray Tan LS
53	92	Gray Clay ( Hammet )
92	106	Red SS
106	112	Red Tan SS
112	149	Red Tan LS w/ Gravel
149	175	Gravel
175	180	Turquoise Tan Clay

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

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## STATE OF TEXAS WELL REPORT for Tracking #603201

Owner:	Forestar Real Estate Group Inc	Owner Well #:	2
Address:	2221 E. Lamar Blvd. Arlington, TX 76006	Grid #:	57-40-4
Well Location:	316 Paleface Point Dr Spicewood, TX 78669	Latitude:	30° 26' 10.71" N
		Longitude:	098° 05' 52.32" W
Well County:	Travis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/28/2022** Drilling End Date: **3/29/2022**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)	
Borehole:	8.75	0	210	
Drilling Method:	Air Rotary			
Borehole Completion:	Filter Packed			
	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	100	210	Gravel	.375
	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)	
Annular Seal Data:	0	20	Cement 5 Bags/Sacks	
	20	100	QuilkgROUT 10 Bags/Sacks	
Seal Method:	Pumped		Distance to Property Line (ft.): 300+	
Sealed By:	Driller		Distance to Septic Field or other concentrated contamination (ft.): 300+	
			Distance to Septic Tank (ft.): 300+	
			Method of Verification: Map	
Surface Completion:	Surface Sleeve Installed		Surface Completion by Driller	

Water Level:	124 ft. below land surface on 2022-04-04	Measurement Method:	Electric Line
Packers:	No Data		
Type of Pump:	No Data		
Well Tests:	Pump	Yield: 4 GPM with 60 ft. drawdown after 24 hours	

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

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

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

Company Information: **NextGen Water Well Service**  
**11911 West County Road 56**  
**Midland, TX 79707**

Driller Name: **Cody Myers**

License Number: **60303**

Apprentice Name: **Billy Sheckler**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Top (ft.)	Bottom (ft.)	Description
0	8	Top Soil/Clay
8	40	Limestone
40	110	Gray Shale and Clay
110	135	Sandstone
135	145	Brown Clay
145	200	Sandstone with Clay Stringers
200	210	Gray Clay

Casing:  
BLANK PIPE & WELL SCREEN DATA

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR 17	0	130
4.5	Screen	New Plastic (PVC)	SDr 17 0.035	130	210

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## STATE OF TEXAS WELL REPORT for Tracking #603203

Owner:	Forestar Real Estate Group Inc	Owner Well #:	1
Address:	2221 E. Lamar Blvd. Arlington, TX 76006	Grid #:	57-40-4
Well Location:	316 Paleface Point Dr Spicewood, TX 78669	Latitude:	30° 26' 12.14" N
		Longitude:	098° 05' 56.58" W
Well County:	Travis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/28/2022**      Drilling End Date: **3/29/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	
Borehole:	<b>8.75</b>	<b>0</b>	<b>215</b>	
Drilling Method:	<b>Air Rotary</b>			
Borehole Completion:	<b>Filter Packed</b>			
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>110</b>	<b>215</b>	<b>Gravel</b>	<b>.375</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>	
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Cement 5 Bags/Sacks</b>	
	<b>20</b>	<b>110</b>	<b>Quikgrout 10 Bags/Sacks</b>	
Seal Method:	<b>Pumped</b>		Distance to Property Line (ft.): <b>300+</b>	
Sealed By:	<b>Driller</b>		Distance to Septic Field or other concentrated contamination (ft.): <b>300+</b>	
			Distance to Septic Tank (ft.): <b>300+</b>	
			Method of Verification: <b>Map</b>	
Surface Completion:	<b>Surface Sleeve Installed</b>		<b>Surface Completion by Driller</b>	

Water Level:	<b>121 ft. below land surface on 2022-03-30</b>	Measurement Method:	<b>Electric Line</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>No Data</b>		
Well Tests:	<b>No Test Data Specified</b>		

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: **NextGen Water Well Service**  
**11911 West County Road 56**  
**Midland, TX 79707**

Driller Name: **Cody Myers**

License Number: **60303**

Apprentice Name: **Billy Sheckler**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	6	Top Soil
6	30	Limestone
30	110	Gray Shale and Clay
110	145	Tan Sandstone
145	155	Brown CLay
155	205	Sandstone with clay stringers
205	215	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR 17	0	135
4.5	Screen	New Plastic (PVC)	SDR 17 0.035	135	215

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## STATE OF TEXAS WELL REPORT for Tracking #636797

Owner:	Jay Raulerson	Owner Well #:	57404JR
Address:	115 Vicinty Trail Spicewood, TX 78669	Grid #:	57-40-4
Well Location:	115 Vicinty Trail Spicewood, TX 78669	Latitude:	30° 25' 53" N
Well County:	Travis	Longitude:	098° 05' 14" W
		Elevation:	710 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **3/29/2023**      Drilling End Date: **3/29/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	100
	6.13	100	250

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	100	<b>Cement 12 Bags/Sacks</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **60**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **71 ft. below land surface, and 1 GPM**  
artesian flow on **2023-04-04**

Measurement Method: **Electric Line**

Packers: **Burlap at 100 ft.**  
**Burlap/Plastic at 120 ft.**  
**Burlap/Plastic at 200 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **220**

Well Tests: **Jetted**      **Yield: 1 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	210 - 250	No Data

Chemical Analysis Made: No

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

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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: Centex Pump & Supply, Inc.  
2520 Hwy. 290 West  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	Brown Tan Shale
10	15	Gray
15	22	Red Clay
22	90	Red Sandy Clay
90	110	Brown Tan
110	140	Red Sand Stone
140	220	Tan Sand w/ Gravel
220	240	Sand Gravel
240	250	Tan Shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	210
4.5	Perforated or Slotted	New Plastic (PVC)	SDR17	210	250

---

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## STATE OF TEXAS WELL REPORT for Tracking #655444

Owner:	<b>Spice To Fit LLC.</b>	Owner Well #:	<b>57407SF</b>
Address:	<b>19409 Sean Avery Path Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>4316 Cypress Canyon Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 36" N</b>
		Longitude:	<b>098° 05' 14" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>794 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/7/2023**      Drilling End Date: **12/7/2023**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>100</b>
	<b>7</b>	<b>100</b>	<b>230</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>Cement 13 Bags/Sacks</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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 by Driller**

Water Level: **177 ft. below land surface on 2023-12-07**

Packers: **Burlap/Plastic at 100 ft.  
Burlap/Plastic at 120 ft.  
Burlap/Plastic at 150 ft.**

Type of Pump: **Submersible**      Pump Depth (ft.): **210**

Well Tests: **Jetted**      **Yield: 10/15 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	170 - 230	Lower Trinity
		Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained injurious constituents?:		No

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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: **Centex Pump & Supply, Inc.**  
**2520 Hwy. 290 West**  
**Dripping Springs, TX 78620**

Driller Name: **Martin Lingle** License Number: **54813**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	37	Caliche
37	85	Gray
85	95	Gray Strip Clay
95	110	Red Sand Stone Clay
110	115	Gray
115	130	Red Clay
130	150	Gray
150	180	Red Sand Stone
180	190	Gravel
190	225	Brown Sand Gravel
225	230	Blue Shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	0	170
4.5	Perforated or Slotted	New Plastic (PVC)	SDR17	170	230



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## STATE OF TEXAS WELL REPORT for Tracking #673574

Owner:	<b>Griseld Benitez &amp; Jesus Cardoso Jaimes</b>	Owner Well #:	<b>57405GB</b>
Address:	<b>15503 Ulman Dr. Austin, TX 78734</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24805 Leatha Lane Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 36" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 58" W</b>
		Elevation:	<b>786 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/16/2024**      Drilling End Date: **7/16/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>100</b>
	<b>6.125</b>	<b>100</b>	<b>230</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>Cement 14 Bags/Sacks</b>

Seal Method: **Positive Displacement**

Distance to Property Line (ft.): **5**

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **100**

Method of Verification: **Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **163 ft. below land surface on 2024-07-16**      Measurement Method: **Electric Line**

Packers: **Burlap at 100 ft.  
Burlap/Plastic at 120 ft.  
Burlap/Plastic at 140 ft.  
Burlap/Plastic at 166 ft.**

Type of Pump: **Submersible**

Pump Depth (ft.): **210**

Well Tests: **Jetted**      **Yield: 5/7 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	170 - 230	Lower Trinity
		Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained injurious constituents?:		No

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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: Centex Pump & Supply, Inc.  
2520 Hwy. 290 West  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	30	White
30	60	Tan Brown
60	80	Gray
80	110	Gray w/ Strip Clay
110	170	Red
170	210	LG Red Gravel
210	225	SM Gravel
225	230	Brown Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	0	170
4.5	Perforated or Slotted	New Plastic (PVC)	SDR17	170	230

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #674570

Owner:	<b>Michelle Lane</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25104 Whitney Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25104 Whitney Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 25' 46" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 12" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/24/2024**      Drilling End Date: **7/24/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>199</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>7 Benseal 2 Portland 9 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **32'**

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

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

Water Level: **No Data**

Packers: **Burlap/Neoprene at 100 ft.**  
**Burlap/Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 12 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	105 - 180	L. Trinity

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: Apex Drilling, Inc.  
P.O. Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: SW Travis Co 57404ML

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	25	Tan LS
25	81	Gray Tan LS
81	145	Red SS
145	179	Gravel
179	180	Torquise Clay
180	191	Tan Clay
191	199	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	119
4.5	Screen	New Plastic (PVC)	.035	119	179
4.5	Blank	New Plastic (PVC)	SDR17	179	199

---

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## STATE OF TEXAS WELL REPORT for Tracking #23609

Owner:	David Searcy	Owner Well #:	No Data
Address:	24428 Pedernales Drive Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	24428 Pedernales Drive Spicewood, TX 78669	Latitude:	30° 28' 04" N
Well County:	Travis	Longitude:	098° 05' 35" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 7/25/2003      Drilling End Date: 7/25/2003

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8	0	20
	6.5	20	230

Drilling Method: Air Rotary

Borehole Completion: cased

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

Seal Method: Slurry

Sealed By: Driller

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: landowner

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: Burlap 140', 130', 20'

Type of Pump: Submersible

Pump Depth (ft.): 200

Well Tests: Estimated      Yield: 60 GPM

Water Quality:

Strata Depth (ft.)

140' - 220'

Water Type

Trinity

Chemical Analysis Made: **Unknown**

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: **APEX Drilling**  
**PO Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael Becker**

License Number: **54516**

Apprentice Name: **Andrew Johnson**

Apprentice Number: **1116**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Gravel
3	13	Caliche
13	35	Sand-Gravel
35	45	Tan LS
45	50	Tan-Gry LS
50	57	Gry LS
57	65	Gry Clay
65	75	Tan Clay
75	95	Gry Clay
95	120	Red Clay-Tan LS
120	140	Red Clay-Red SS
140	150	Gravel (H2O)
150	160	Red SS
160	198	Gravel (H2O)
198	205	Red-Tan SS
205	220	Gravel (H2O)
220	225	Tan LS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5"OD)	New	PVC +2 to 230' Sch40	

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## STATE OF TEXAS WELL REPORT for Tracking #90499

Owner:	Lou Harris	Owner Well #:	1
Address:	312 CR 420 Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	312 CR 420 Spicewood, TX 78669	Latitude:	30° 27' 36" N
Well County:	Burnet	Longitude:	098° 06' 53" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **4/26/2006**      Drilling End Date: **4/26/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6	20	210

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	20	4 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 98', 95', 20'**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 8 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	98 - 190	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling, Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker, P.G. License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	20	Tan Clay
20	34	White-Tan Limestone
34	60	Grey Limestone
60	98	Blue Clay
98	112	Red Clay
112	122	Gravel
122	145	Red Clay
145	190	Gravel
190	210	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5"OD) New	PVC	+2' to 150' Sch40
4.5"	(5"OD) New	Slotted	150' to 190' .035
4.5"	(5"OD) New	PVC	190' to 210' Sch40

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## STATE OF TEXAS WELL REPORT for Tracking #91533

Owner:	Donald Gilde	Owner Well #:	No Data
Address:	21918 Briarcliff Dr Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	201 Red Bluff Rd Lot # 36 Spicewood, TX 78669	Latitude:	30° 27' 33" N
Well County:	Burnet	Longitude:	098° 07' 07" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **6/12/2006**      Drilling End Date: **6/12/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	20
	6	20	180

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	20	5 of Portland

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 75', 70', 20'**

Type of Pump: **No Data**

Well Tests: **Jetted**      Yield: **1/2 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	120-160	Trinity

Chemical Analysis Made: No

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

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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: **Apex Drilling, Inc**  
**PO Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **Assigned SWN 57-40-104 by TWDB on 6/13/2012.**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	30	Grey & Tan Limestone
30	45	Grey Limestone
45	75	Grey Clay
75	85	Red Sandstone
85	90	Gravel
90	100	Red Sandstone
100	160	Gravel
160	165	Tan clay
165	180	Grey Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 120' Sch40
4.5" (5" OD)	New	Slotted	120' to 160' .035
4.5" (5" OD)	New	PVC	160' to 180' Sch40

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## STATE OF TEXAS WELL REPORT for Tracking #102754

Owner:	<b>BRANDY &amp; EDUARDO SALMERON</b>	Owner Well #:	<b>No Data</b>
Address:	<b>12501 CR 404 SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>12501 CR 404 SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 27' 28" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 06' 26" W</b>
		Elevation:	<b>908 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/8/2006**      Drilling End Date: **12/8/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>11</b>
	<b>6.75</b>	<b>11</b>	<b>285</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>9</b>	<b>5</b>
	<b>9</b>	<b>11</b>	<b>1</b>

Seal Method: **SLURRIED & POURED**

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

Sealed By: **CESAR RAMOS**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **118 ft. below land surface on 2006-12-11**      Measurement Method: **Unknown**

Packers: **NEOPRENE 11  
NEOPRENE 105  
NEOPRENE 235  
NEOPRENE 240**

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

Well Tests: **Jetted**      Yield: **7 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

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

---

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

Company Information: BEE CAVE DRILLING  
185 ANGELFIRE DRIVE  
DRIPPING SPRINGS, TX 78620

Driller Name: JIM BLAIR License Number: 54416

Apprentice Name: CESAR RAMOS Apprentice Number: 3090

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	WHITE ROCK
10	30	GRAY LIMESTONE
30	70	YELLOW SANDSTONE
70	85	RED SANDSTONE
85	100	RED CLAY
100	130	WHITE ROCK W/B 4 GPM
130	145	GRAY ROCK
145	195	GRAY CLAY
195	200	GRAY ROCK
200	235	RED CLAY
235	275	BROWN ROCK W/B 3 GPM
275	285	GOLD CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-242
4.5	NEW	SCREEN MFG.	242-282 .050
4.5	NEW	PLASTIC	282-285

---

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## STATE OF TEXAS WELL REPORT for Tracking #103092

Owner:	DAVE BIEHN	Owner Well #:	No Data
Address:	26904 Founders Place Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	26904 Founders Place Spicewood, TX 78669	Latitude:	30° 28' 03" N
Well County:	Travis	Longitude:	098° 05' 42" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 10/20/2006      Drilling End Date: 10/20/2006

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	30
	6	30	320

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	30	6

Seal Method: Slurry

Distance to Property Line (ft.): 50+

Sealed By: Central Texas Drilling

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Owner

Surface Completion: Surface Sleeve Installed

Water Level: No Data

Packers: 3 Packers at 30', 110', 115'

Type of Pump: Submersible

Well Tests: Jetted      Yield: 8 GPM

---

	Strata Depth (ft.)	Water Type
Water Quality:	40	Trinity

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: Central Texas Drilling Inc.  
500 Southland Drive  
Burnet, TX 78611

Driller Name: Frank Glass License Number: 1313

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
000-001		Top soil	4.5"	New	Plastic	+2-320 17 & 40
001-020		Caliche	60'	Screen		
020-100		Blue lime				
100-115		Clay brown				
115-160		Large gravel				
160-200		Blue clay				
200-320		Smithwick shale or Marble Falls limestone				

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## STATE OF TEXAS WELL REPORT for Tracking #105073

Owner: **ROBERT DAY**

Owner Well #: **No Data**

Address: **111 Cloudland Court  
Spicewood, TX 78669**

Grid #: **57-40-1**

Well Location: **111 Cloudland Court  
Spicewood, TX 78669**

Latitude: **30° 27' 38" N**

Longitude: **098° 06' 24" W**

Well County: **Travis**

Elevation: **No Data**

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #37418**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/10/2007**

Drilling End Date: **1/10/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9</b>	<b>0</b>	<b>20</b>
	<b>6</b>	<b>20</b>	<b>260</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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: **Owner**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

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

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	Strata Depth (ft.)	Water Type
Water Quality:	30	Trinity

Chemical Analysis Made: No

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

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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: **Western Water Wells LLC**  
**500 Southland Drive**  
**Burnet, TX 78611**

Driller Name: **Frank Glass** License Number: **1313**

Comments: **Well to be plugged.**

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	Top soil
3	55	Caliche & clay
55	75	Cow creek white porous lime
75	140	Gray lime & Hammond
140	225	Red clay & gravel Trinity
225	245	Yellow clay
245	260	Smithwick

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

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## STATE OF TEXAS WELL REPORT for Tracking #123252

Owner:	<b>Gloster Bend Resource</b>	Owner Well #:	<b>GlosterBn#1</b>
Address:	<b>PO Box 679000 Austin, TX 78767</b>	Grid #:	<b>57-40-2</b>
Well Location:	<b>Singleton Bend Rd Austin, TX 78767</b>	Latitude:	<b>30° 28' 15" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 56" W</b>
		Elevation:	<b>697 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/30/2007**      Drilling End Date: **8/31/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	
Borehole:	<b>8</b>	<b>0</b>	<b>200</b>	
Drilling Method:	<b>Mud (Hydraulic) Rotary</b>			
Borehole Completion:	<b>Filter Packed</b>			
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>160</b>	<b>Gravel</b>	<b>6-12</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>	
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>24portland2baro</b>	
Seal Method:	<b>pressure grout</b>		Distance to Property Line (ft.): <b>n/a</b>	
Sealed By:	<b>Driller</b>		Distance to Septic Field or other concentrated contamination (ft.): <b>n/a</b>	
			Distance to Septic Tank (ft.): <b>No Data</b>	
			Method of Verification: <b>n/a</b>	

Surface Completion: **Surface Sleeve Installed**

Water Level:	<b>68 ft. below land surface on 2007-06-24</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>gravel packed 100-160</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>140</b>
Well Tests:	<b>Pump</b>	Yield:	<b>16+ GPM</b>

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	Strata Depth (ft.)	Water Type
Water Quality:	125-160	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services, Inc.  
PO Box 525  
Dripping Springs, TX 78620

Driller Name: Martin D. Lingle, Jr. License Number: 54813

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	topsoil
2	45	sand gravel
45	48	gray clay
48	57	gravel clay
57	65	red clay
65	75	gravel gray clay
75	125	red clay gravel
125	140	gravel sand
140	152	brown limestone
152	157	yellow clay
157	165	brown clay
165	167	hard limestone
167	174	light gray clay
174	200	dark clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	N	PVC-SDR 17IB	5-100
4.5	N	PVC-17 SLOTTED .035	100-160

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Austin, TX 78711  
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## STATE OF TEXAS WELL REPORT for Tracking #146397

Owner:	<b>Paul Jones</b>	Owner Well #:	<b>No Data</b>
Address:	<b>3500 McNeil Dr Austin, TX 78727</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>1229 CR 420 Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 52" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 06' 21" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/3/2008**      Drilling End Date: **5/3/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.5</b>	<b>20</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4 of Portland</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 120', 115', 20'**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 7-8 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	127-180	Trinity

Chemical Analysis Made: No

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

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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: Apex Drilling, Inc  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Andrew J Johnson License Number: 54989

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	10	Tan Limestone
10	34	Tan Limestone w/ Red Clay
34	80	Grey-Tan Limestone
80	102	Grey Clay
102	127	Red Sandstone
127	135	Gravel H2O
135	153	Sandstone
153	157	Gravel H2O
157	163	Sandstone
163	180	Gravel H2O
180	183	Turquoise Clay
183	200	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2' to 120' SDR17
4.5" (5" OD)	New	Slotted PVC	120' to 180' .035

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## STATE OF TEXAS WELL REPORT for Tracking #153340

Owner:	<b>GEORGE DODGE</b>	Owner Well #:	<b>No Data</b>
Address:	<b>200 JIM DAVIDSON DR SUGAR LAND, TX 77478</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>304 HIDDEN HILLS SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 27' 51" N</b>
		Longitude:	<b>098° 06' 48" W</b>
Well County:	<b>Burnet</b>	Elevation:	<b>800 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/8/2008**

Drilling End Date: **8/8/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>6.75</b>	<b>12</b>	<b>195</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>6</b>	<b>5</b>
	<b>6</b>	<b>12</b>	<b>6</b>

Seal Method: **SLURRIED & POURED**

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

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **82**

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

Method of Verification: **TAPE (CITY SEWER)**

Surface Completion: **Surface Sleeve Installed**

Water Level: **102 ft. below land surface on 2008-08-12** Measurement Method: **Unknown**

Packers: **NEOPRENE 12  
NEOPRENE 128  
NEOPRENE 130**

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

Well Tests: **Jetted** Yield: **2 GPM**

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

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

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

Company Information: **BEE CAVE DRILLING INC**  
**185 ANGELFIRE DR**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **57534**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	WHITE ROCK
3	25	GRAY LIMESTONE
25	55	TAN LIMESTONE
55	65	TAN SANDSTONE
65	80	TAN LIMESTONE
80	126	RED CLAY
126	145	WHITE ROCK W/B 2 GPM TDS 400
145	170	GRAY ROCK
170	195	GRAY SHALE

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-135
4.5	NEW	SCREEN MFG	135-165 .050
4.5	NEW	PLASTIC	165-195

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## STATE OF TEXAS WELL REPORT for Tracking #166479

Owner:	Connie Boynton	Owner Well #:	No Data
Address:	5400 Apache Creek Cove Austin, TX 78735	Grid #:	57-40-1
Well Location:	119 Indian Mound Road Spicewood, TX 78669	Latitude:	30° 28' 21" N
Well County:	Burnet	Longitude:	098° 06' 24" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 12/11/2008      Drilling End Date: 12/11/2008

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.62	0	20
	6.75	20	205

Drilling Method: Air Hammer

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	1	25	1.5 cement

Seal Method: gravity cemented

Distance to Property Line (ft.): 200

Sealed By: Driller

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

Distance to Septic Tank (ft.): No Data

Method of Verification: estimated

Surface Completion: Pitless Adapter Used

Water Level:	121.5 ft. below land surface on 2008-12-12	Measurement Method:	Unknown
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Packers: poor boy 25'

Type of Pump: No Data

Well Tests: Jetted      Yield: 2 GPM

Water Quality:

Strata Depth (ft.)

119

Water Type

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: L & L Drilling Co.

P.O. Box 217  
Hye, TX 78635

Driller Name: Gregory A. Smith

License Number: 1595

Apprentice Name: Lynette Smith

Apprentice Number: 56980

Comments: No Data

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	brown topsoil
1	11	white limestone & yellow caliche
11	67	gray shale & clay
67	119	red shale
119	179	red & white limestone
119	179	water 2 gpm
179	188	brown shale
188	205	oily gray shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	0 - 119 0.265
5	new	plastic slotted	119 - 205 0.265

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## STATE OF TEXAS WELL REPORT for Tracking #188861

Owner: **Richard Ragland**  
Address: **1133 CR 420  
Spicewood, TX 78669**  
Well Location: **1133 CR 4420  
Spicewood, TX 78669**  
Well County: **Burnet**

Owner Well #: **No Data**  
Grid #: **57-40-1**  
Latitude: **30° 27' 49" N**  
Longitude: **098° 06' 30" W**  
Elevation: **No Data**

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #124928**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/20/2009**

Drilling End Date: **7/20/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>6.75</b>	<b>0</b>	<b>155</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>15</b>	<b>1 cement</b>

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **>75**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **125**

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

Method of Verification: **estimated**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **none**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 0 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>no casing 0 - 15 cement 1 sack</b>		



Water Quality:

Strata Depth (ft.)

n/a

Water Type

n/a

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: **L & L Drilling Co.**

**P.O. Box 217  
Hye, TX 78635**

Driller Name: **Gregory A. Smith**

License Number: **1595**

Apprentice Name: **Lynette Smith**

Apprentice Number: **56980**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	9	yellow clay
9	14	white limestone & caliche
14	16	yellow limestone & caliche
16	38	gray limestone & gray shale
38	54	gray limestone
54	74	gray shale & clay
74	76	gray limestone with some brown
76	88	gray shale & clay
88	109	brown & red clay
109	112	gravel
124	128	gravel
128	146	red, white & brown limestone
146	147	gravel
147	151	red, white & brown limestone
151	155	yellow shale
1112	124	red clay

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

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## STATE OF TEXAS WELL REPORT for Tracking #188862

Owner: **Richard Ragland**  
Address: **1133 CR 420  
Spicewood, TX 78669**  
Well Location: **1133 CR 4420  
Spicewood, TX 78669**  
Well County: **Burnet**

Owner Well #: **No Data**  
Grid #: **57-40-1**  
Latitude: **30° 27' 51" N**  
Longitude: **098° 06' 28" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/20/2009**

Drilling End Date: **7/20/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>25</b>
	<b>6.75</b>	<b>25</b>	<b>185</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>25</b>	<b>2 cement</b>

Seal Method: **gravity cemented**

Distance to Property Line (ft.): **>75**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **125**

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

Method of Verification: **estimated**

Surface Completion: **Surface Sleeve Installed**

Water Level: **170 ft. below land surface on 2009-07-20** Measurement Method: **Unknown**

Packers: **poor boy 25'**

Type of Pump: **No Data**

Well Tests: **Jetted** Yield: **2 GPM**

Water Quality:

Strata Depth (ft.)

145

Water Type

800 TDS

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: L &amp; L Drilling Co.

P.O. Box 217  
Hye, TX 78635

Driller Name: Gregory A. Smith

License Number: 1595

Apprentice Name: Lynette Smith

Apprentice Number: 56980

Comments: No Data

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	3	brown clay
3	8	yellow limestone & caliche
8	13	yellow clay
13	18	yellow limestone
18	21	gray limestone
21	23	gray shale & clay
23	26	black limestone
26	37	gray limestone
37	39	gray & brown limestone
39	56	gray limestone
56	89	gray shale & clay with layers of gray limestone
89	104	red clay
104	106	gravel
106	128	red clay
128	129	gravel
129	134	red, white & brown limestone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5	new	plastic solid	0 - 104 0.265
5	new	plastic slotted	104 - 108 0.265
5	new	plastic solid	108 - 125 0.265
5	new	plastic slotted	125 - 165 0.265
5	new	plastic solid	165 - 185 0.265

134	137	yellow limestone
137	147	red, white & brown limestone
145	165	water 2 gpm
147	150	gravel
150	163	gravel & red, white & brown limestone
163	185	yellow shale

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## STATE OF TEXAS WELL REPORT for Tracking #207661

Owner:	Joe Wyatt	Owner Well #:	WLB-01
Address:	2917 Marina Shores Drive Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	Marina Shores Drive Spicewood, TX 78669	Latitude:	30° 28' 15" N
Well County:	Travis	Longitude:	098° 05' 45" W
		Elevation:	758 ft. above sea level
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 12/16/2009      Drilling End Date: 12/16/2009

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)	
Borehole:	4	0	30	
Drilling Method:	Bored			
Borehole Completion:	Filter Packed			
Filter Pack Intervals:	Top Depth (ft.) 5	Bottom Depth (ft.) 30	Filter Material Gravel	Size 20/40 Sand
Annular Seal Data:	Top Depth (ft.) 0 2 5	Bottom Depth (ft.) 2 5 30	Description (number of sacks & material) 1 Ready Mix 1 Bentonite 3 Bags Sand	
Seal Method:	Poured		Distance to Property Line (ft.):	No Data
Sealed By:	Driller		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:	22.2 ft. below land surface on 2009-12-16	Measurement Method:	Unknown
Packers:	None		
Type of Pump:	No Data		
Well Tests:	No Test Data Specified		

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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: **Holt Engineering, Inc.**  
**2220 Barton Skyway**  
**Austin, TX 78704**

Driller Name: **John Webb** License Number: **3023**

Comments: **No Data**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	to .1	Brick Pavers	2"	New	Plastic	0 Ft. to 10 Ft.
.1	to .3	Sand Base	2"	New	Slotted	10 Ft. to 30 Ft.
.3	to 5	Fill-Tan & light brown				
5	to 23.3	Limestone, tan & light brown				
23.3	to 30	Clay, greenish tan				

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## STATE OF TEXAS WELL REPORT for Tracking #207669

Owner:	Joe Wyatt	Owner Well #:	WLB-02
Address:	2917 Marina Shores Drive Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	Marina Shores Drive Spicewood, TX 78669	Latitude:	30° 28' 14" N
Well County:	Travis	Longitude:	098° 05' 44" W
		Elevation:	758 ft. above sea level
Type of Work:	New Well	Proposed Use:	Monitor

Drilling Start Date: 12/16/2009      Drilling End Date: 12/16/2009

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)	
Borehole:	4	0	35	
Drilling Method:	Bored			
Borehole Completion:	Filter Packed			
Filter Pack Intervals:	Top Depth (ft.) 3	Bottom Depth (ft.) 35	Filter Material Gravel	Size 20/40 Sand
Annular Seal Data:	Top Depth (ft.) 0 2 3	Bottom Depth (ft.) 2 3 35	Description (number of sacks & material) 1 Ready Mix 1 Bentonite 3.5 Bags Sand	
Seal Method:	Poured		Distance to Property Line (ft.):	No Data
Sealed By:	Driller		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:	34.7 ft. below land surface on 2009-12-18	Measurement Method:	Unknown
Packers:	None		
Type of Pump:	No Data		
Well Tests:	No Test Data Specified		



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: No

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

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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: **Holt Engineering, Inc.**  
**2220 Barton Skyway**  
**Austin, TX 78704**

Driller Name: **John Webb** License Number: **3023**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	0.1	Asphalt
0.1	0.9	Base Tan
0.9	1.4	Fill Light brown
1.4	2	Clayey silt Tan
2	28.5	Limestone Tan
28.5	35	Clayshale Gray

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
2"	New	Plastic	0 Ft. to 10 Ft.
2"	New	Slotted	10 Ft. to 35 Ft.

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

## STATE OF TEXAS WELL REPORT for Tracking #228199

Owner:	<b>Pamela Hucht</b>	Owner Well #:	<b>1</b>
Address:	<b>905 Indian Mound Rd. Spicewood, TX 78669</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>905 Indian Mound Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 28' 20" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 06' 02" W</b>
		Elevation:	<b>775 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/9/2010**

Drilling End Date: **7/10/2010**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8</b>	<b>12</b>	<b>100</b>
	<b>6.75</b>	<b>100</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:			<b>42</b>
	<b>0</b>	<b>2</b>	<b>2 cement</b>
	<b>2</b>	<b>100</b>	<b>40 bentonite</b>

Seal Method: **pressure cement**

Distance to Property Line (ft.): **15**

Sealed By: **Alonzo Duke**

Distance to Septic Field or other  
concentrated contamination (ft.): **not yet inst**

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

Method of Verification: **customer**

Surface Completion: **Surface Sleeve Installed**

Water Level: **100 ft. below land surface on 2010-07-10** Measurement Method: **Unknown**

Packers: **neoprene 105**  
**neoprene 110**

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

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

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	Strata Depth (ft.)	Water Type
Water Quality:	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 Angelfire Dr.**  
**Dripping Springs, TX 78620**

Driller Name: **Jim Blair** License Number: **54416**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	30	caliche
30	90	blue clay
90	100	red clay
100	120	tan rock
120	170	red gravel
170	190	red rock
190	200	blue clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	Plastic	0 140
4.5	New	Plastic perf	140 180
4.5	New	Plastic	180 200

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## STATE OF TEXAS WELL REPORT for Tracking #250203

Owner: **Robert Shebesta**

Owner Well #: **1**

Address: **650 CR 450  
Burnet, TX 78611**

Grid #: **57-40-1**

Well Location: **650 CR 420  
Burnet, TX 78611**

Latitude: **30° 27' 53" N**

Longitude: **098° 06' 52" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/15/2011**

Drilling End Date: **3/15/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.5</b>	<b>20</b>	<b>165</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4 of Portland</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 85, 80, 25, 20**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

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	Strata Depth (ft.)	Water Type
Water Quality:	108-150	Trinity

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: Apex Drilling, Inc.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	4	Red Clay
4	42	Tan, Gray Limestone
42	75	Gray Clay
75	108	Red Sandstone
108	110	Gravel
110	118	Red Sandstone
118	150	Gravel & H2O
150	165	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+ 2' to 90' SDR17
4.5" (5" OD)	New	Slotted PVC	90' to 150' .035
4.5" (5" OD)	New	PVC	150' to 165' SDR17

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## STATE OF TEXAS WELL REPORT for Tracking #261828

Owner:	<b>Steve Cook</b>	Owner Well #:	<b>#2</b>
Address:	<b>12000 Starcrest Drive Ste. 107 San Antonio, TX 78247</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>North Paleface Ranch Road Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 01" N</b>
		Longitude:	<b>098° 06' 15" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>823 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **6/23/2011**      Drilling End Date: **6/23/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>6.75</b>	<b>10</b>	<b>85</b>

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>1</b>	<b>20</b>	<b>10 / Concrete</b>

Seal Method: **Unknown**

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

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **Tape - wheel**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **Neoprene 20'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 10 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>N/A</b>		

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Fresh

Chemical Analysis Made: No

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

---

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

Company Information: **Bee Cave Drilling**  
**185 Angelfire Drive**  
**Dripping Springs, TX 78620**

Driller Name: **Charles Coffindaffer #58658** License Number: **58658**

Comments: **No Data**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	3	Topsoil	4.5	New	Plastic	0 to 65'
3	10	Tan limestone	4.5	New	Screen	Mfg. 65' to 85' .050
10	55	Red rock				
55	65	White sandstone				
65	75	Brown / tan limestone				
75	85	Grey rock				
85		Grey clay				

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## STATE OF TEXAS WELL REPORT for Tracking #281847

Owner:	david raring	Owner Well #:	No Data
Address:	481 scenic ridge spicewood, TX	Grid #:	57-40-1
Well Location:	481 scenic ridge spicewood, TX	Latitude:	30° 27' 42" N
Well County:	Burnet	Longitude:	098° 06' 12" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Closed-Loop Geothermal

Drilling Start Date: **2/15/2012**      Drilling End Date: **2/16/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>4.5</b>	<b>0</b>	<b>300</b>

Drilling Method: **Air Rotary**

Borehole Completion: **bh 20**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:			<b>9</b>

Seal Method: **tremipe**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Unknown

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

---

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

Company Information: **geothermal advantage**  
**3200 nottingham dr**  
**mckinney, TX 75070**

Driller Name: **freddie wright** License Number: **58667**

Comments: **4 wells**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
1	5	Clay	No Data			
5	300	chale				

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## STATE OF TEXAS WELL REPORT for Tracking #283991

Owner: **COUNTRY CLUB AT LAKESIDE**

Owner Well #: **No Data**

Address: **1900 CLUBHOUSE HILL DRIVE  
SPICEWOOD, TX 78669**

Grid #: **57-40-1**

Well Location: **1900 CLUBHOUSE HILL DRIVE  
SPICEWOOD, TX 78669**

Latitude: **30° 27' 39" N**

Longitude: **098° 06' 05" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/30/2012**

Drilling End Date: **1/30/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>18</b>
	<b>6.25</b>	<b>18</b>	<b>210</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>18</b>	<b>4 BENTONITE</b>

Seal Method: **Slurry**

Distance to Property Line (ft.): **N/A**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **OWNER**

Surface Completion: **Surface Sleeve Installed**

Water Level: **160 ft. below land surface on 2012-01-30** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** Yield: **8-10 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	60	TRINITY

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: CENTEX PUMP & SUPPLY, INC.  
2520 HWY. 290 WEST  
DRIPPING SPRINGS, TX 78620

Driller Name: AARON GLASS License Number: 4227

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-2		TOP SOIL
2-15		TAN LIMESTONE
15-20		RED LIMESTONE W/CLAY
20-30		TAN W/RED LIMESTONE
30-40		TAN LIMESTONE
40-65		GRAY LIMESTONE
65-75		TAN W/GRAY LIMESTONE
75-80		BLUE/GRAY LIMESTONE
80-90		BLUE/GRAY LIMESTONE
		W/CLAY
90-125		BLUE/GRAY LIMESTONE
		W/RED CLAY
125-135		RED LIMESTONE W/RED
		SANDSTONE
135-140		RED SAND W/GRAVEL STRIPS
140-155		SAND W/RED CLAY
155-195		RED SAND & GRAVEL
195-210		BLUE CLAY STRIPS

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6 1/4"	N	SCH. 40 PVC	+2 TO 18'

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## STATE OF TEXAS WELL REPORT for Tracking #286612

Owner:	WAYNE MOCK	Owner Well #:	1
Address:	LOT 29,BLOCK b,SECTION 1 MARBLE FALLS, TX 78654	Grid #:	57-40-4
Well Location:	ROCK CANYON COVE MARBLE FALLS, TX 78654	Latitude:	30° 27' 14" N
		Longitude:	098° 07' 18" W
Well County:	Travis	Elevation:	740 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **5/7/2012**      Drilling End Date: **5/9/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9.75</b>	<b>0</b>	<b>40</b>
	<b>6.25</b>	<b>40</b>	<b>220</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>10</b>

Seal Method: **PRESSURE CEMENTED**

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

Sealed By: **Driller**

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: **103 ft. below land surface on 2012-05-09**      Measurement Method: **Unknown**

Packers: **RUBBER 100'**  
**RUBBER 180'**

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

Well Tests: **Jetted**      Yield: **35 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	TRINITY
		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: HILL COUNTRY WATER WELL  
POBOX 220  
BRIGGS, TX 78608

Driller Name: JOE MCDEARMON License Number: 2334

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	12	CALICHE
12	14	YELLOW CLAY
14	24	SAND
24	30	GRAVEL
30	50	WHITE LIME
50	120	GRAY LIME
120	160	RED SHALE
160	180	SANSTONE
180	190	BROWN SANDSTONE
190	195	SANDSTONE
195	200	TRINITY SAND
200	205	SANDSTONE
205	210	TRINITY SAND
210	220	ELLENBERG

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0/180 SDR17
4.5	NEW	SCREEN	200/220 .032

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## STATE OF TEXAS WELL REPORT for Tracking #307898

Owner:	Jay Cheek	Owner Well #:	3
Address:	1013 Indain Mound Spicewood, TX 78669	Grid #:	57-40-1
Well Location:	1013 Indian Mound Spicewood, TX 78669	Latitude:	30° 28' 23" N
Well County:	Travis	Longitude:	098° 05' 59" W
		Elevation:	773 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 12/6/2012      Drilling End Date: 12/6/2012

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	10
	8	10	210

Drilling Method: Air Hammer

Borehole Completion: Filter Packed

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	100	210	Gravel	3/8"

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	100	20 cement

Seal Method: pressure cemented

Distance to Property Line (ft.): 8

Sealed By: Steve Stewart

Distance to Septic Field or other  
concentrated contamination (ft.): 52

Distance to Septic Tank (ft.): No Data

Method of Verification: tape

Surface Completion: Pitless Adapter Used

Water Level: 124 ft. below land surface on 2012-12-07      Measurement Method: Unknown

Packers: No Data

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

Well Tests: Jetted      Yield: 40 GPM



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Trinity

Chemical Analysis Made: No

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

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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

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	4	red caliche
4	28	white limestone
28	50	gray clay
50	60	tan limestone
60	70	brown clay
70	95	red sandstone w/ tan rock
95	190	tan & red limestone & sandstone wb 40gpm 500 tds
190	210	brown & black rock

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	sdr-17 pvc	0 130
4.5	new	sdr-17 pvc slotted	130 210

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## STATE OF TEXAS WELL REPORT for Tracking #311600

Owner:	Janice Warren	Owner Well #:	No Data
Address:	7309 Old Spicewood Rd. Spicewood, TX 78667	Grid #:	57-40-1
Well Location:	1017 Indian Mound Rd. Spicewood, TX 78667	Latitude:	30° 28' 21" N
Well County:	Burnet	Longitude:	098° 06' 00" W
		Elevation:	No Data
Type of Work:	Deepening	Proposed Use:	Domestic

Drilling Start Date: 1/7/2013      Drilling End Date: 1/7/2013

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	7	0	160
	6.125	160	205

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

Annular Seal Data: No Data

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 Sleeve Installed

Water Level: 155 ft. below land surface on 2013-01-07      Measurement Method: Unknown

Packers: burlap,plastic 155 and 135

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

Well Tests: Jetted      Yield: 5-7 GPM

	Description (number of sacks & material)	Top Depth (ft.)	Bottom Depth (ft.)
Plug Information:	n/a		

Water Quality:

Strata Depth (ft.)

160-175

Water Type

trinity

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: Western Water Wells  
CTGCD  
clean out exsisting well

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	160	exsisting borehole
160	170	multi-colored limestones (gravel)
170	175	yellow limestone
175	190	yellow clay
190	205	gray clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5 od.	new	sdr17 pvc	-3 to 145
5 od.	new	sdr17 pvc (.032)	screen 145 to 185
5 od.	new	sdr17 pvc	185 to 205

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Austin, TX 78711  
(512) 334-5540

## STATE OF TEXAS WELL REPORT for Tracking #324857

Owner:	<b>Sheila &amp; Craig Nickels</b>	Owner Well #:	<b>No Data</b>
Address:	<b>4300 Travis Peak Trail Marble falls, TX 78654</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>marble falls, TX 78654</b>	Latitude:	<b>30° 27' 42" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 05' 59" W</b>
		Elevation:	<b>784 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Closed-Loop Geothermal</b>

Drilling Start Date: **7/1/2013**      Drilling End Date: **7/7/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>4.5</b>	<b>0</b>	<b>300</b>

Drilling Method: **Air Hammer; Air Rotary**

Borehole Completion: **BH20**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>300</b>	<b>9 BH20</b>

Seal Method: **Tremite**

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

Sealed By: **Freddie Wright**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Unknown

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

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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: Geothermal Advantage  
2425 Brenham Dr  
McKinney, TX 75070

Driller Name: Michael Wright License Number: 58690

Comments: 6 Geothermal Bore Holes

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	7	top soil	No Data			
8	300	hard sandstone/shale				

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## STATE OF TEXAS WELL REPORT for Tracking #328696

Owner:	<b>Jim Henry</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1007 Indian Mound Rd. Spicewood, TX 78669</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>1007 Indian Mound Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 28' 27" N</b>
		Longitude:	<b>098° 05' 56" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>758 ft. above sea level</b>
Type of Work:	<b>Deepening</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/30/2013**      Drilling End Date: **5/31/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>6</b>	<b>160</b>	<b>190</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>50</b>	<b>6 cement</b>

Seal Method: **slurry and pour**

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

Sealed By: **Steve Stewart**

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: **124 ft. below land surface on 2013-06-01**      Measurement Method: **Unknown**

Packers: **shale trap 20, 110**

Type of Pump: **Submersible**      Pump Depth (ft.): **170**

Well Tests: **No Test Data Specified**

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Water Quality:

Strata Depth (ft.)

Water Type

**No Data**

**Trinity**

Chemical Analysis Made: **No**

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

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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**

Apprentice Name: **Steve Stewart**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
160	175	red & white gravel
175	180	blue clay
180	190	black shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	new	sdr-17 pvc	0 135
4.5"	new	sdr-17 perf	135 175
4.5"	new	sdr-17 pvc	175 190

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## STATE OF TEXAS WELL REPORT for Tracking #350471

Owner:	<b>Mike Delamore</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1313 Majesctic Hill Blvd Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>1117 Starlight Canyon Ct. Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 16" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 06' 22" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **10/25/2013**      Drilling End Date: **10/25/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.25</b>	<b>20</b>	<b>300</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4 port</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 215,210,105,20**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 2-3 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	216-279	L Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling Inc.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Michael G Becker P.G License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	8	Tan Limestone
8	8	Gray Tan Limestone
8	81	Tan Limestone w/Sand
81	111	Red Sandstone w/ clay
111	127	Tan Limestone
127	164	Gray Tan Limestone
164	196	Gray Clay
196	216	Red Sandstone
216	224	Gravel H2o
224	236	Red Sandstone
236	279	Gravel H2o
279	300	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	(5OD)	New PVC	+2 to 225 SDR 17
4.5"	(5OD)	New Slotted	225 to 285 .035
4.5"	(5OD)	New PVC	285 to 300 SDR 17

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## STATE OF TEXAS WELL REPORT for Tracking #379880

Owner:	<b>Paul Motheral</b>	Owner Well #:	<b>No Data</b>
Address:	<b>26100 Country Side Dr Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>1116 Saddlebrook Canyon Ct Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 19" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 06' 05" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/15/2014**      Drilling End Date: **8/15/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>70</b>
	<b>6.25</b>	<b>70</b>	<b>145</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>60</b>	<b>3ben 1 port</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **5+**

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap/Neoprene 60**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 16 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	60-117	M Trinity

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: APEX Drilling INC.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	16	Tan Limestone
16	18	Gray Tan Limestone
18	58	Tan Limestone
58	60	Red Clay
60	72	Red Tan Sandstone
72	76	Sand
76	82	Red Tan Sandstone
82	103	Tan Limestone w Red Clay
103	117	Tan White Limestone
117	144	Gray Limestone
144	145	Gray Limestone w Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	( 5OD )	New PVC	+2' to 65' SDR17
4.5"	( 5OD )	New Slotted	65' to 85' .035
4.5"	( 5OD )	New PVC	85' to 105' SDR17
4.5"	( 5OD )	New Slotted	105' to 125' .035
4.5"	( 5OD )	New PVC	125' to 145' SDR17

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## STATE OF TEXAS WELL REPORT for Tracking #380214

Owner:	<b>Aqua Texas Inc.</b>	Owner Well #:	<b>1</b>
Address:	<b>1106 Clayton Lane, Suite 400W Austin, TX 78723</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>Barton Creek TX</b>	Latitude:	<b>30° 27' 20" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 06' 15" W</b>
		Elevation:	<b>No Data</b>

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #97872**

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Test Well</b>
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Drilling Start Date: **9/15/2014**      Drilling End Date: **9/15/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.25</b>	<b>20</b>	<b>320</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Plugged**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>320</b>	<b>18 Benseal</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 2.6 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>None 320 3 18 Benseal</b>		
	<b>3 0 1 Portland</b>		

---

	Strata Depth (ft.)	Water Type
Water Quality:	110-271	Trinity

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: APEX Drilling INC.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	9	Tan Limestone
9	41	Gray Tan Limestone
41	55	Tan Limestone w Sand
55	110	Red Sandstone w Clay
110	122	Tan White Limestone H2o 1.6gpm
122	153	Gray Tan Limestone
153	195	Gray Clay ( Hammet )
170	271	Torques Clay
195	220	Red Sandstone
220	225	Gravel
225	270	Red Sandstone & Gravel H2o 1gpm
271	295	Tan Clay
295	320	Gray Clay ( Smithwick )

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



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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #380217

Owner: **Aqua Texas Inc.**

Owner Well #: **2**

Address: **1106 Clayton Lane, Suite 400W  
Austin, TX 78723**

Grid #: **57-40-4**

Well Location: **Barton Creek  
TX**

Latitude: **30° 27' 13" N**

Longitude: **098° 06' 09" W**

Well County: **Travis**

Elevation: **No Data**

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #97873**

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **9/16/2014**

Drilling End Date: **9/16/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.25</b>	<b>20</b>	<b>263</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Plugged**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>263</b>	<b>14 Benseal</b>

Seal Method: **Pressure**

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

Sealed By: **Driller**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 7.3 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>None 263 3 14 Benseal</b>		
	<b>3 0 1 Portland</b>		

---

	Strata Depth (ft.)	Water Type
Water Quality:	55-223	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling INC.  
P O Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Top Soil
2	33	Tan Red Sandstone w Clay
33	42	Red Clay
42	55	Red Clay Tan Limestone
55	80	Tan White Limestone 4gpm
80	107	Gray Tan Limestone
107	140	Gray Clay
140	179	Red Sandstone
179	193	Red Sandstone w gravel
193	223	Gravel 3.3gpm
223	225	Turquoise Clay
225	258	Tan Clay
258	263	Gray Clay

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

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

## STATE OF TEXAS WELL REPORT for Tracking #401733

Owner:	<b>Amelia Bryant</b>	Owner Well #:	<b>TW#1</b>
Address:	<b>1400 CR 420 Spicewood, TX 78669</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>1400 CR 420 Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 58" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 06' 20" W</b>
		Elevation:	<b>854 ft. above sea level</b>

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #151478**

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>
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Drilling Start Date: **7/10/2015**      Drilling End Date: **7/10/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

Annular Seal Data: **No Data**

Seal Method: **Pour**

Sealed By: **Driller**

Distance to Property Line (ft.): **51**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

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

Method of Verification: **Measured**

Surface Completion: **Unknown**

Water Level:	<b>0 ft. below land surface on 2015-07-10</b>	Measurement Method:	<b>Unknown</b>
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Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>2 to 200 Backfill Cutting</b>		
	<b>0 to 2 2 Portland cement</b>		

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	<i>Strata Depth (ft.)</i>	<i>Water Type</i>
Water Quality:	<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **No**

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

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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: **Whisenant & Lyle Water Services**  
**PO Box 525**  
**Dripping Springs, TX 78620**

Driller Name: **Martin Lingle** License Number: **54813**

Comments: **No Data**

**Report Amended on 11/30/2015 by Request #15252**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>	<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>0</b>	<b>0</b>	<b>Plug</b>	<b>No Data</b>			

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## STATE OF TEXAS WELL REPORT for Tracking #402044

Owner:	<b>Amelia Bryant</b>	Owner Well #:	<b>Well#2</b>
Address:	<b>1400 CR 420 Spicewood, TX 78669</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>1400 CR 420 Spicewood, TX 78669</b>	Latitude:	<b>30° 28' 01.42" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 06' 20.16" W</b>
		Elevation:	<b>779 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/2/2015**      Drilling End Date: **7/8/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>180</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Straight Wall</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>60</b>	<b>10 cement</b>
Seal Method:	<b>Pos Displacement</b>	Distance to Property Line (ft.):	<b>51</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>N/A</b>
		Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>measured</b>
Surface Completion:	<b>Surface Sleeve Installed</b>		

Water Level:	<b>114 ft. below land surface on 2015-07-06</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>Shale Packer 65 6Mil Poly 70 Shale Packer 75 6Mil Poly 80</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>160</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>.5 GPM</b>

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	Strata Depth (ft.)	Water Type
Water Quality:	60-180	Good TDS 600
		Chemical Analysis Made: No
	Did the driller knowingly penetrate any strata which contained injurious constituents?: No	

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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: **Whisenant & Lyle Water Services**  
**PO Box 525**  
**Dripping Springs, TX 78620**

Driller Name: **Brice Bormann** License Number: **54855**

Apprentice Name: **Tyler Loman**

Comments: **No Data**

**Report Amended on 11/30/2015 by Request #15262**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	5	brown sandy loam
5	60	gray red sandstone shale
60	175	rock gravel sand
175	180	smith wick clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2-140
4.5	New	PVC-17 Slotted	140-180 .032

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## STATE OF TEXAS WELL REPORT for Tracking #438698

Owner: **Paul D. & Cynthia G. Jones**

Owner Well #: **No Data**

Address: **1229 CR 420  
Spicewood, TX 78669**

Grid #: **57-40-1**

Well Location: **1229 CR 420  
Spicewood, TX 78669**

Latitude: **30° 27' 54" N**

Longitude: **098° 06' 21" W**

Well County: **Burnet**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/20/2016**

Drilling End Date: **10/20/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>15</b>
	<b>6.25</b>	<b>15</b>	<b>180</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Portland 4 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.  
Burlap/Neoprene at 30 ft.  
Burlap/Neoprene at 85 ft.  
Burlap/Neoprene at 90 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 2.5 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	85 - 160	Trinity - TDS 600
		Chemical Analysis Made: No
		Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	20	Tan Red LS
20	52	Gray LS
52	58	Gray Clay
58	160	Red SS
160	161	Tortoise Clay
161	180	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	100
4.5	Screen	New Plastic (PVC)	.035	100	160
4.5	Blank	New Plastic (PVC)	SDR17	160	180

---

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## STATE OF TEXAS WELL REPORT for Tracking #506806

Owner:	<b>Glenn DaGian</b>	Owner Well #:	<b>No Data</b>
Address:	<b>215 Antigua Way Austin, TX 78738</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>Indian Mound Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 28' 19.14" N</b>
		Longitude:	<b>098° 06' 05.22" W</b>
Well County:	<b>Burnet</b>	Elevation:	<b>755 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **3/11/2019**      Drilling End Date: **3/11/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10.5</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>200</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>13</b>	<b>Cement 4 Bags/Sacks</b>
	<b>13</b>	<b>100</b>	<b>Bentonite 13 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **5'**

Sealed By: **Driller**

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: **92 ft. below land surface on 2019-03-18**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **180**

Well Tests: **Jetted**      **Yield: 40-45 GPM**

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	<i>Strata Depth (ft.)</i>	<i>Water Type</i>
Water Quality:	<b>120 - 180</b>	<b>Trinity</b>

Chemical Analysis Made: **No**

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

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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: **800 tds**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>topsoil</b>
<b>2</b>	<b>25</b>	<b>caliche</b>
<b>25</b>	<b>75</b>	<b>brown clay</b>
<b>75</b>	<b>185</b>	<b>tan sandstone</b>
<b>185</b>	<b>200</b>	<b>green clay</b>

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>0</b>	<b>120</b>
<b>4.5</b>	<b>Perforated or Slotted</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>120</b>	<b>180</b>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>180</b>	<b>200</b>

---

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## STATE OF TEXAS WELL REPORT for Tracking #544267

Owner:	<b>Dominique Randall</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1121 Indian Mound Spicewood, TX 78665</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>1121 Indian Mound Spicewood, TX 78665</b>	Latitude:	<b>30° 28' 18" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 06' 01" W</b>
		Elevation:	<b>775 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/16/2020** Drilling End Date: **4/20/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>3</b>
	<b>8.5</b>	<b>3</b>	<b>190</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>190</b>	<b>Gravel</b>	<b>3/8</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>Cement 18</b>

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **8**

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

Distance to Septic Tank (ft.): **90**

Method of Verification: **No Data**

Surface Completion: **Surface Sleeve Installed**

Water Level: **100 ft. below land surface on 2020-04-21** Measurement Method: **Electric Line**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **160**

Well Tests: **Jetted** Yield: **15+ GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data
		Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained injurious constituents?:		No

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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**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	topsoil
2	30	white limestone
30	55	grey clay
55	60	tan limestone
60	80	red clay
80	110	red sandstone / clay
110	170	red limestone
170	190	black /tan/white sandstone
190	195	grey shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	150
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	150	190

---

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## STATE OF TEXAS WELL REPORT for Tracking #586295

Owner:	<b>Gary Wier</b>	Owner Well #:	<b>No Data</b>
Address:	<b>P O Box 268 Spicewood , TX 78611</b>	Grid #:	<b>57-40-1</b>
Well Location:	<b>293 Oaks Rd Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 38" N</b>
Well County:	<b>Burnet</b>	Longitude:	<b>098° 07' 19" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **10/6/2021**      Drilling End Date: **10/6/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.25</b>	<b>20</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Portland 4 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

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

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.  
Burlap/Neoprene at 25 ft.  
Burlap/Neoprene at 105 ft.  
Burlap/Neoprene at 110 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 1.6 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	112 - 180	Trinity

Chemical Analysis Made: No

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

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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: Apex Drilling, Inc.  
P.O. Box 867  
Marble Falls, TX 78654

Driller Name: Andrew Jackson Johnson License Number: 54989

Comments: CTGCD # 8288

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top SOil
1	11	Tan LS w /Red Clay
11	17	White Tan LS
17	30	Tan LS w/ Sand
30	37	Gray LS
37	48	Gray LS w/ Clay
48	59	Gray Tan LS
59	64	Gray Tan LS w/ CLay
64	98	Hammet Clay
98	112	Red SS
112	135	Red SS w / Gravel
135	180	Gravel
180	198	Tan Clay
198	200	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	120
4.5	Screen	New Plastic (PVC)	.035	120	180
4.5	Blank	New Plastic (PVC)	SDR17	180	200



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(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #586742

Owner: **Kirk Covington**  
Address: **921 Lauder Dr.  
Spicewood , TX 78669**  
Well Location: **1345 CR 414  
Spicewood, TX 78669**  
Well County: **Burnet**

Owner Well #: **No Data**  
Grid #: **57-40-1**  
Latitude: **30° 28' 24" N**  
Longitude: **098° 06' 38" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Unknown**

Drilling Start Date: **10/8/2021**

Drilling End Date: **10/8/2021**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.25</b>	<b>20</b>	<b>182</b>

Drilling Method: **Unknown**

Borehole Completion: **Backfilled 2' Cement Cap ( Dry )**

Annular Seal Data: **No Data**

Seal Method: **Unknown**

Sealed By: **Driller**

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

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

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

Method of Verification: **No Data**

Surface Completion: **No Data**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 0 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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **CTGCD # 8300**  
**Dry Backfilled 2' Cement Cap**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	13	Tan Red LS
13	28	White Tan LS
28	37	Tan LS
37	53	Gray LS w/ Clay
53	72	Hammet Clay
72	79	Red SS
79	87	Red SS w/ Gravel and Sand
87	109	Red SS w/ Sand
109	155	Red SS w/ Gravel Sand
155	172	Gravel
172	182	Tan Clay

Dia. (in.) New/Used Type Setting From/To (ft.)

No Data

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## STATE OF TEXAS WELL REPORT for Tracking #610596

Owner: **Dereck Norwood**  
Address: **126 CR 420  
Spicewood , TX 78669**  
Well Location: **12001 CR 404  
Spicewood, TX 78669**  
Well County: **Burnet**

Owner Well #: **No Data**  
Grid #: **57-40-4**  
Latitude: **30° 27' 29" N**  
Longitude: **098° 07' 01" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/29/2022**

Drilling End Date: **6/29/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6.25</b>	<b>20</b>	<b>213</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>Portland 4 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 20 ft.  
Burlap/Neoprene at 25 ft.  
Burlap/Neoprene at 108 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 3 GPM**

Water Quality:

Strata Depth (ft.)

108 - 193

Water Type

Trinity - TDS 360

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**License Number: **54989**Apprentice Name: **Alfonso Rodriguez Jr.**Apprentice Number: **60952**Comments: **CTGCD # 8769**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	6	Tan Clay
6	14	Tan LS w/ Gravel
14	21	Tan KS w Red Clay
21	39	White Tan LS
39	53	Gray LS
53	63	Gray LS w/ Clay
63	85	Hammet Clay
85	101	Red SS
101	108	Red SS w/ Gravel
108	126	Sand Red SS Gravel Mix
126	140	Red SS
140	193	Gravel
193	213	Turquoise Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	133
4.5	Screen	New Plastic (PVC)	.035	133	193
4.5	Blank	New Plastic (PVC)	SDR17	193	213

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## STATE OF TEXAS WELL REPORT for Tracking #666222

Owner: **Wolfgang Maasberg**  
Address: **309 Bedford Dr  
Spicewood , TX 78669**  
Well Location: **222 Indian Mound Rd  
Spicewood, TX 78669**  
Well County: **Burnet**  
Number of Wells Drilled: **2**

Owner Well #: **1**  
Grid #: **57-40-1**  
Latitude: **30° 28' 31" N**  
Longitude: **098° 06' 25" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/6/2024**

Drilling End Date: **5/6/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>50</b>
	<b>6.25</b>	<b>50</b>	<b>176</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>50</b>	<b>3 Benseal 4 Portland 7 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 50 ft.**  
**Burlap/Neoprene at 55 ft.**  
**Burlap/Neoprene at 65 ft.**  
**Burlap/Neoprene at 68 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 2 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	69 - 156	Trinity

Chemical Analysis Made: No

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

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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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **CTGCD # 9436**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	21	Tan LS
21	25	Gray Tan LS
25	57	Gray Clay
57	69	Red LS
69	156	Red LS w/ Gravel
156	157	Turquoise Clay
157	170	Tan Clay
170	176	Gray Shale

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	96
4.5	Screen	New Plastic (PVC)	.035	96	156
4.5	Blank	New Plastic (PVC)	SDR17	156	176

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## STATE OF TEXAS WELL REPORT for Tracking #666223

Owner: **Wolfgang Maasberg**  
Address: **309 Bedford Dr  
Spicewood , TX 78669**  
Well Location: **222 Indian Mound Rd  
Spicewood, TX 78669**  
Well County: **Burnet**  
Number of Wells Drilled: **2**

Owner Well #: **2**  
Grid #: **57-40-1**  
Latitude: **30° 28' 29" N**  
Longitude: **098° 06' 22" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/7/2024**

Drilling End Date: **5/7/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>50</b>
	<b>6.25</b>	<b>50</b>	<b>180</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>50</b>	<b>3 Benseal 3 Portland 6 Bags/Sacks</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **Land Onwer**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 50 ft.**  
**Burlap/Neoprene at 55 ft.**  
**Burlap/Neoprene at 70 ft.**  
**Burlap/Neoprene at 75 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 1 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	79 - 161	Trinity

Chemical Analysis Made: No

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

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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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **CTGCD # 9443**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	14	Tan LS
14	24	Gray Tan LS
24	55	Gray Clay
55	79	Red SS
79	160	Sand and Gravel
160	161	Turquoise Clay
161	180	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	100
4.5	Screen	New Plastic (PVC)	.035	100	160
4.5	Blank	New Plastic (PVC)	SDR17	160	180

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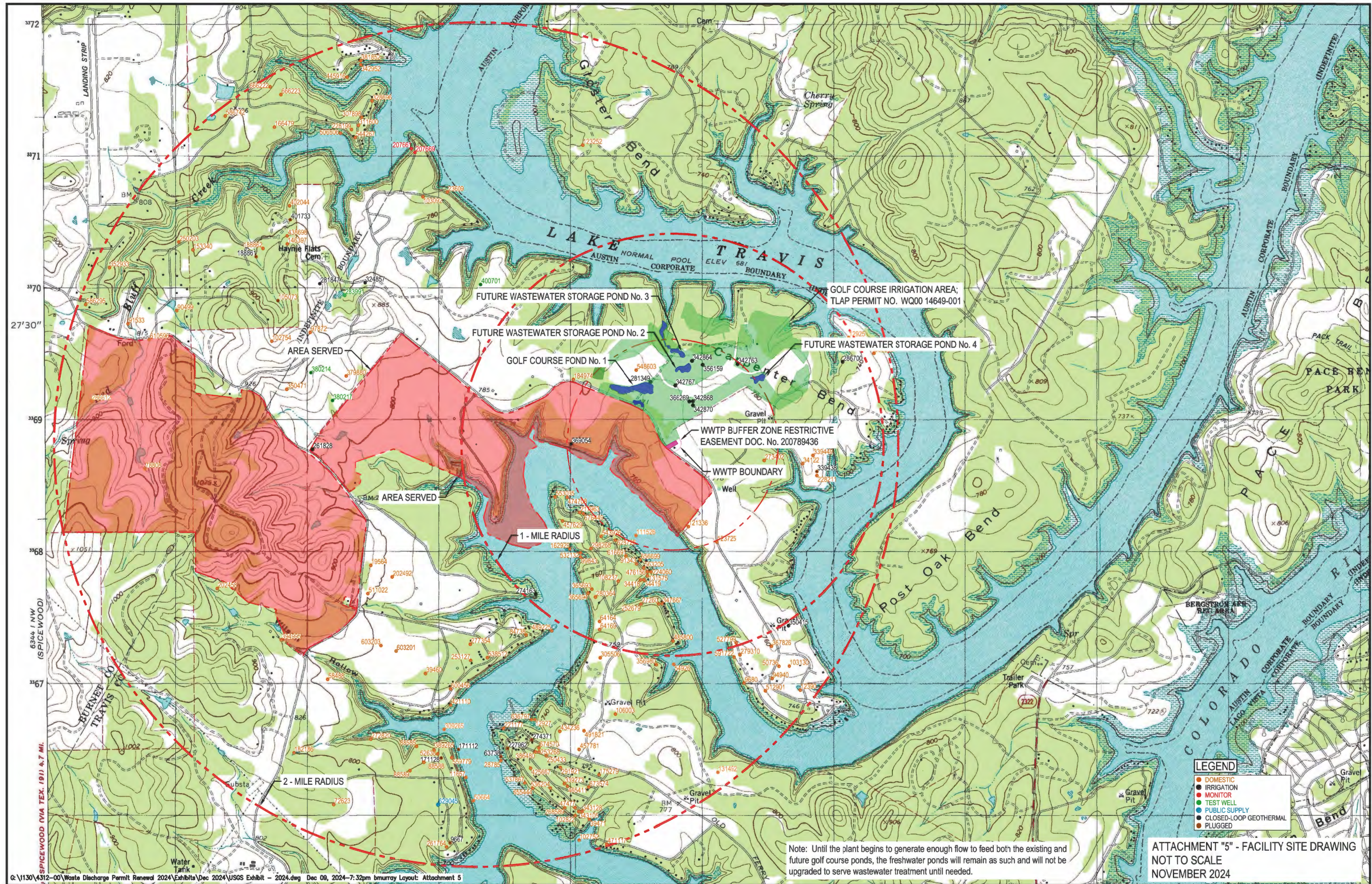
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## STATE OF TEXAS WELL REPORT for Tracking #548603

Owner:	Lakecliff Racquet Club	Owner Well #:	No Data
Address:	25609 Kahala Sunset Ct Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	25609 Kahala Sunset Ct Spicewood, TX 78669	Latitude:	30° 27' 19" N
		Longitude:	098° 04' 42" W
Well County:	Travis	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 5/7/2020      Drilling End Date: 5/7/2020

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.5	0	246

Drilling Method: Air Rotary

Borehole Completion: 3/8 Pea Gravel 100-246

Annular Seal Data: No Data

Seal Method: Pressure

Sealed By: Driller

Distance to Property Line (ft.): 15

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

Distance to Septic Tank (ft.): 50

Method of Verification: Land Owner

Surface Completion: Surface Sleeve Installed

Surface Completion by Driller

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: Jetted      Yield: 60+ GPM

	<i>Strata Depth (ft.)</i>	<i>Water Type</i>
Water Quality:	<b>107 - 226</b>	<b>Trinity - TDS 650</b>
		Chemical Analysis Made: <b>No</b>
		Did the driller knowingly penetrate any strata which contained injurious constituents?: <b>No</b>

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>1</b>	<b>Top Soil</b>
<b>1</b>	<b>22</b>	<b>Ta Red LS</b>
<b>22</b>	<b>47</b>	<b>Tan LS</b>
<b>47</b>	<b>80</b>	<b>Gray Tan LS</b>
<b>80</b>	<b>107</b>	<b>Gray Clay</b>
<b>107</b>	<b>128</b>	<b>Red SS</b>
<b>128</b>	<b>159</b>	<b>Gravel</b>
<b>159</b>	<b>169</b>	<b>Red SS</b>
<b>169</b>	<b>226</b>	<b>Gravel</b>
<b>226</b>	<b>246</b>	<b>Tan Clay</b>

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>SDR17</b>	<b>2</b>	<b>166</b>
<b>4.5</b>	<b>Screen</b>	<b>New Plastic (PVC)</b>	<b>.035</b>	<b>166</b>	<b>226</b>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>SDR17</b>	<b>226</b>	<b>246</b>

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## STATE OF TEXAS WELL REPORT for Tracking #281349

Owner:	Lakecliff Country Club	Owner Well #:	1
Address:	1700 Kahala Sunset Drive Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	1700 Kahala Sunset Drive Spicewood, TX 78669	Latitude:	30° 27' 16" N
Well County:	Travis	Longitude:	098° 04' 38" W
		Elevation:	809 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **2/29/2012**      Drilling End Date: **3/13/2012**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>9.875</b>	<b>0</b>	<b>220</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>16</b>	<b>220</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>116</b>	<b>15ptln2hlp12bns</b>
Seal Method:	<b>Pos. Displacement</b>		
Sealed By:	<b>Driller</b>		
	Distance to Property Line (ft.): <b>200+</b>		
	Distance to Septic Field or other concentrated contamination (ft.): <b>N/A</b>		
	Distance to Septic Tank (ft.): <b>No Data</b>		
	Method of Verification: <b>Measured</b>		

Surface Completion: **Surface Sleeve Installed**

Water Level:	<b>153 ft. below land surface on 2012-03-06</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>Gravel Pack</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>200</b>
Well Tests:	<b>Pump</b>	Yield:	<b>30 GPM</b>



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	Strata Depth (ft.)	Water Type
Water Quality:	160-220	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	4	Topsoil
4	18	Brown Red Limestone
18	19	Yellow White Limestone
19	28	White Limestone
28	29	Yellow Limestone
29	39	Yellow White Limestone
39	40	Void
40	45	Brown Limestone
45	70	Gray Limestone
70	75	Brown Clay
75	83	Gray Limestone
83	86	Blue Clay
86	140	Sand Brown Limestone
140	155	Red Clay Sand
155	218	Red Sand Big Rock
218	240	Black Clay-Smith Wick

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6.9	New	PVC-SDR 17IB	+2'/106'
6.9	New	PVC-17 Slotted	.035 160'/220'

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## STATE OF TEXAS WELL REPORT for Tracking #342767

Owner:	<b>Mark Sitterle</b>	Owner Well #:	<b>1</b>
Address:	<b>2400 Cliff Point Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>2400 Cliff Point Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 15" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 31" W</b>
		Elevation:	<b>535 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/17/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>240</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>124</b>	<b>240</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>124</b>	<b>1hlp5bns6TypH</b>
Seal Method:	<b>Pos. Displacement</b>	Distance to Property Line (ft.):	<b>35</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>300+</b>
		Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>Measured</b>

Surface Completion: **Pitless Adapter Used**

Water Level:	<b>124 ft. below land surface on 2013-09-18</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>180</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>15+ GPM</b>

Water Quality:

Strata Depth (ft.)

160/230

Water Type

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: Whisenant & Lyle Water Services

P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle

License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 500

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Topsoil
2	18	White Brown Yellow Limestone
18	20	Brown Limestone
20	30	Tan Brown Limestone
30	40	Gray Limestone wet
40	43	Brown Limestone
43	74	Gray Limestone
74	76	Brown Shale
76	85	Gray Limestone Shale
85	110	Red Sandstone Rock
110	140	Brown Limestone Rock
140	230	Brown Rock
230	240	Gravel Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/180'
4.5	New	PVC-17 Slotted .035	180'/240'

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**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 #342864

Owner:	Rod Sellers	Owner Well #:	1
Address:	P.O. Box 890649 Houston, TX 77289	Grid #:	57-40-5
Well Location:	25714 Cliff Circle Spicewood, TX 78669	Latitude:	30° 27' 21" N
		Longitude:	098° 04' 26" W
Well County:	Travis	Elevation:	768 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: 9/24/2013      Drilling End Date: 9/25/2013

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	8	0	220
Drilling Method:	Air Rotary		
Borehole Completion:	Filter Packed		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	100	220	Gravel
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	177	2hlp95bns19TypH
Seal Method:	Pos. Displacement	Distance to Property Line (ft.):	5
Sealed By:	Driller	Distance to Septic Field or other concentrated contamination (ft.):	250+
		Distance to Septic Tank (ft.):	No Data
		Method of Verification:	Measured

Surface Completion: Pitless Adapter Used

Water Level:	144 ft. below land surface on 2013-09-26	Measurement Method:	Unknown
Packers:	No Data		
Type of Pump:	Submersible	Pump Depth (ft.):	180
Well Tests:	Jetted	Yield:	15+ GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	160/220	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 500

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	22	White Limestone
22	45	Brown Limestone Sand Wet
45	95	Gray Limestone Shale
95	118	Red Sandstone Sand
118	160	Red Brown Sandstone
160	216	Brown Sandstone Rock
216	220	Gray Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/160'
4.5	New	PVC-17 Slotted	.035 160'/220'

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(512) 334-5540

## STATE OF TEXAS WELL REPORT for Tracking #356159

Owner:	<b>Bart Jones</b>	Owner Well #:	<b>1</b>
Address:	<b>25630 Cliff Crossing Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25630 Cliff Crossing Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 23" W</b>
		Elevation:	<b>731 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **2/21/2014**      Drilling End Date: **2/24/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>200</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>140</b>	<b>200</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>140</b>	<b>10bns/7hlp/3tyH</b>
Seal Method:	<b>Pos. Displacement</b>	Distance to Property Line (ft.):	<b>20</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>6</b>
Variance Number:	<b>032-14</b>	Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>Measured</b>
Surface Completion:	<b>Unknown</b>		

Water Level:	<b>112 ft. below land surface on 2014-02-24</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>No Data</b>		
Well Tests:	<b>Jetted</b>	Yield:	<b>15-18 GPM</b>



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	Strata Depth (ft.)	Water Type
Water Quality:	140/200	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 650  
Variance 032-14

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	6	White Limestone Hard
6	7	Brown Limestone
7	15	Brown White Limestone Hard
15	17	Brown Sandstone
17	32	Gray Limestone
32	55	Gray Limestone
55	60	Gray Shale
60	62	Brown Sandstone
62	80	Gray Limestone
80	90	Red Sandstone Damp
90	92	Blue Shale Gravel
92	120	Red Sandstone
120	140	Gravel Red Sandstone
140	198	Gravel & Rock
198	200	Blue Shale Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/140'
4.5	PVC-17	Slotted .035	140'/200'

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #342763

Owner:	<b>Stephan James</b>	Owner Well #:	<b>1</b>
Address:	<b>3030 Cliff Overlook Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>3030 Cliff Overlook Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
		Longitude:	<b>098° 04' 13" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>950 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/19/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>130</b>	<b>2hpg5bnsI6TypH</b>

Seal Method: **Pos. Displacement**

Sealed By: **Driller**

Distance to Property Line (ft.): **9'**

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

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

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **125 ft. below land surface on 2013-09-24**      Measurement Method: **Unknown**

Packers: **6MIL Poly 100'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 06 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	160/195	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 500

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	5	White Limestone
5	6	Brown Limestone
6	16	Brown White Limestone
16	50	Gray Limestone
50	55	Gray Shale
55	70	Gray Red Shale
70	78	Gray Limestone
78	90	Brown Red Sand
90	180	Red Sand Rock
180	195	Brown Sand Rock
195	200	Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB	+2'/140'
4.5	New	PVC-17 Slotted	.035 140'/180'
4.5	New	PVC-SDR 17IB	180'/200'

---

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(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #366269

Owner:	<b>Terry Neiman</b>	Owner Well #:	<b>No Data</b>
Address:	<b>PO Box 4007 Horseshoe Bay, TX 78657</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25264 Kahala Sunset Court Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 11" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 27" W</b>
		Elevation:	<b>771 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **6/2/2014**      Drilling End Date: **6/4/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>240</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>154</b>	<b>240</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>154</b>	<b>2 3/8hp12bs2ptl</b>
Seal Method:	<b>Pos. displacement</b>	Distance to Property Line (ft.):	<b>15</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>N/A</b>
Variance Number:	<b>064-14</b>	Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>Measured</b>
Surface Completion:	<b>Pitless Adapter Used</b>		

Water Level:	<b>160 ft. below land surface on 2014-06-02</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>Gravel Pack</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>200</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>10-15 GPM</b>

Water Quality:

Strata Depth (ft.)

140-240

Water Type

Good TDS 470

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: Whisenant & Lyle Water Services

PO Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle

License Number: 54813

Apprentice Name: Travis Haffelder

Apprentice Number: 58603

Comments: No Data

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	3	Red tan sandstone
3	4	White limestone
4	10	Brown tan limestone sandstone
10	21	Red tan sand clay
21	24	White limestone
24	44	White brown sandstone
44	51	Brown sandstone
51	85	Gray limestone
85	90	Gray shale
90	95	Red gray shale
95	113	Gray sandstone
113	130	Red sandstone
130	230	Brown sandstone rock
230	240	Blue brown shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB +2	to 160
4.5	New	PVC-17 Slotted .035	160 to 220
4.5	New	PVC-SDR 17IB	220 to 240

---

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Austin, TX 78711  
(512) 334-5540**



## STATE OF TEXAS WELL REPORT for Tracking #342868

Owner:	Bill Thomas	Owner Well #:	1
Address:	25616 Kahala Sunset Ct. Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	25616 Kahala Sunset Ct. Spicewood, TX 78669	Latitude:	30° 27' 11" N
		Longitude:	098° 04' 26" W
Well County:	Travis	Elevation:	793 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: 9/25/2013      Drilling End Date: 9/27/2013

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)	
Borehole:	8	0	260	
Drilling Method:	Air Rotary			
Borehole Completion:	Filter Packed			
	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	123	200	Gravel	
	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)	
Annular Seal Data:	0	127	1h1pg5bns16TypH	
Seal Method:	Pos. Displacement	Distance to Property Line (ft.):	6	
Sealed By:	Driller	Distance to Septic Field or other concentrated contamination (ft.):	150+	
		Distance to Septic Tank (ft.):	No Data	
		Method of Verification:	Measured	

Surface Completion: Pitless Adapter Used

Water Level:	167 ft. below land surface on 2013-09-26	Measurement Method:	Unknown
Packers:	No Data		
Type of Pump:	Submersible	Pump Depth (ft.):	200
Well Tests:	Jetted	Yield:	20+ GPM

---

	Strata Depth (ft.)	Water Type
Water Quality:	200/260	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 500

---

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-1/2		Topsoil
1/2-6		Red Clay Sand
6-18		Red Sandstone White Limestone
18-20		Brown Limestone
20-45		White Limestone
45-47		Brown Sandstone White Limestone
47-53		Brown Limestone
53-110		Gray Limestone
110-135		Red Sandstone
135-137		Brown Sandstone
137-200		Red Rock Sandstone
200-250		Brown Limestone
250-260		Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB	+2'/200'
4.5	New	PVC-17 Slotted	.035 200'/260'

---

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #342870

Owner:	<b>John &amp; Sheryl Scott</b>	Owner Well #:	<b>1</b>
Address:	<b>25617 Kahala Sunset Ct. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25617 Kahala Sunset Ct Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 10" N</b>
		Longitude:	<b>098° 04' 26" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>793 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/18/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>280</b>
Drilling Method:	<b>Air Rotary</b>		
Borehole Completion:	<b>Filter Packed</b>		
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>
Filter Pack Intervals:	<b>164</b>	<b>280</b>	<b>Gravel</b>
	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>153</b>	<b>1hlp6bns16TypH</b>
Seal Method:	<b>Pos. Displacement</b>	Distance to Property Line (ft.):	<b>8</b>
Sealed By:	<b>Driller</b>	Distance to Septic Field or other concentrated contamination (ft.):	<b>300+</b>
		Distance to Septic Tank (ft.):	<b>No Data</b>
		Method of Verification:	<b>Measured</b>

Surface Completion: **Pitless Adapter Used**

Water Level:	<b>163 ft. below land surface on 2013-09-18</b>	Measurement Method:	<b>Unknown</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>240</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>15+ GPM</b>

---

	Strata Depth (ft.)	Water Type
Water Quality:	230/275	Good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
P.O. Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Apprentice Name: Travis Haffelder

Comments: TDS 500

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Caliche
1	5	Red Sandstone
5	8	Brown Sandstone
8	10	Gray Brown Sandstone
10	12	Brown Red Limestone
12	18	Red Sandstone
18	20	Brown Limestone
20	21	Red Shale
21	23	Brown Limestone
23	30	Light Brown Red Sandstone
30	32	Yellow Limestone
32	50	White Limestone
50	55	Brown Red Sand
55	95	Gray Limestone
95	97	Brown Red Shale
97	115	Gray Limestone
115	117	Red Sandstone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/240'
4.5	New	PVC-17 Slotted .035	240'/280'

117	140	Brown Red Sandstone
140	145	Rock Red Sandstone
145	200	Red Sandstone
200	275	Brown Rock Sandstone
275	280	Gray & Black Clay

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**Austin, TX 78711**  
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## STATE OF TEXAS WELL REPORT for Tracking #273402

Owner:	Heiser Development c/o Jason Mann	Owner Well #:	1
Address:	901 S. Mopac, Bldg 2, Ste 505 Austin, TX 78746	Grid #:	57-40-5
Well Location:	2205 Haney Creek Dr. Spicewood, TX 78669	Latitude:	30° 26' 56" N
		Longitude:	098° 04' 06" W
Well County:	Travis	Elevation:	764 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/24/2011**      Drilling End Date: **10/15/2011**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>7.875</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>60</b>	<b>2h1plg 15ptld</b>

Seal Method: **Pos. Displacement**

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

Sealed By: **Whisenant & Lyle Water Service**

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

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **116 ft. below land surface on 2011-08-25**      Measurement Method: **Unknown**

Packers: **6Mil poly 60**  
**6Mil poly 100**  
**6Mil poly-Shale packer 160**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **20+ GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	140/ 200	good

Chemical Analysis Made: No

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

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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: Whisenant & Lyle Water Services  
PO Box 525  
Dripping Springs, TX 78620

Driller Name: Martin Lingle License Number: 54813

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	18	White limestone
18	37	Brown sand limestone
37	70	Gray limestone sand
70	80	Gray shale
80	95	Gray clay
95	98	Gray limestone
98	140	Red sandstone
140	198	Gravel
198	200	Blue clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB +2	140'
4.5	New	PVC-17 Slotted .035	140-200



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## STATE OF TEXAS WELL REPORT for Tracking #121336

Owner:	STEVE HUGHES	Owner Well #:	No Data
Address:	1251 LAKESHORE DR SPICEWOOD, TX 78669	Grid #:	57-40-5
Well Location:	1231 LAKESHORE DR SPICEWOOD, TX 78669	Latitude:	30° 26' 40" N
Well County:	Travis	Longitude:	098° 04' 28" W
		Elevation:	853 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/27/2007**      Drilling End Date: **8/27/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	10	0	140

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	0	2	2
	2	100	16

Seal Method: **PRESSURE CEMENTED**

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

Sealed By: **Driller**

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

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

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **55 ft. below land surface on 2007-08-28**      Measurement Method: **Unknown**

Packers: **NEOPRENE 100**  
**NEOPRENE 118**  
**NEOPRENE 120**

Type of Pump: **Submersible**      Pump Depth (ft.): **126**

Well Tests: **Jetted**      Yield: **80 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

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

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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 ANGELFIRE DR  
DRIPPING SPRINGS, TX 78620

Driller Name: BOBBY ROBERTS License Number: 54416

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	2	SURFACE ROCK
2	14	BROWN GRAVEL
14	35	TAN LIMESTONE
35	70	BLUE SHALE
70	80	RED SHALE
80	115	RED CLAY
115	140	RED ROCK W/B 80 GPM TDS 660

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-120
4.5	NEW	SCREEN MFG	120-140 .050

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## STATE OF TEXAS WELL REPORT for Tracking #111526

Owner:	<b>LARRY EISENBERG</b>	Owner Well #:	<b>No Data</b>
Address:	<b>3004 SPARKLING BROOK LN AUSTIN, TX 78746</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25204 SUNSET RIVER CR SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 38" N</b>
		Longitude:	<b>098° 04' 43" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>800 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/12/2007**      Drilling End Date: **4/12/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8</b>	<b>12</b>	<b>170</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>2</b>
	<b>2</b>	<b>105</b>	<b>9</b>

Seal Method: **PRESSURE CEMENTED**

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

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **86**

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

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **90 ft. below land surface on 2007-04-14**      Measurement Method: **Unknown**

Packers: **NEOPRENE 105  
NEOPRENE 110  
NEOPRENE 128  
NEOPRENE 130**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

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

---

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

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

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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  
185 ANGELFIRE DR  
DRIPPING SPRINGS, TX 78620

Driller Name: JIM BLAIR License Number: 54416

Apprentice Name: CESAR RAMOS Apprentice Number: 57534

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	28	TAN ROCK
28	38	GREY ROCK
38	90	BLUE SHALE
90	115	BLACK ROCK
115	130	RED CLAY
130	170	RED ROCK W/B 30 GPM TDS 690

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-130
4.5	NEW	SCREEN MFG.	130-170 .050

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## STATE OF TEXAS PLUGGING REPORT for Tracking #147051

Owner:	Holzapfel	Owner Well #:	No Data
Address:	26804 masters parkway spicewood, TX 78669	Grid #:	57-40-4
Well Location:	26804 masters parkway spicewood, TX 78669	Latitude:	30° 27' 01" N
Well County:	Travis	Longitude:	098° 05' 01" W
		Elevation:	No Data

---

Well Type: Closed-Loop Geothermal

### Drilling Information

Company:	Sarris well Drilling	Date Drilled:	5/23/2014
Driller:	Anthony Sarris	License Number:	58870

### Well Report Tracking #369054

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4.5	0	250

### Plugging Information

Date Plugged:	5/23/2014	Plugger:	Anthony Sarris
Plug Method:	Unknown		

Casing Left in Well:	Plug(s) Placed in Well:
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No Data

Description (number of sacks & material)

Not Provided

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: Sarris well Drilling  
p o box  
austin, TX 78760

Driller Name:	Anthony Sarris	License Number:	58870
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Comments: drilled 5 new geothermal closed loop wells 0-250

## STATE OF TEXAS WELL REPORT for Tracking #184974

Owner:	<b>Carl Jones</b>	Owner Well #:	<b>1</b>
Address:	<b>2525 Bainbridge Street Odessa, TX 79762</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24017 Haynie Flat Road Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 17" N</b>
		Longitude:	<b>098° 05' 00" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/27/2009**      Drilling End Date: **5/28/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>205</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>125</b>	<b>30</b>

Seal Method: **Tremie**

Distance to Property Line (ft.): **31**

Sealed By: **ADC**

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

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

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **97 ft. below land surface on 2009-06-13**      Measurement Method: **Unknown**

Packers: **neophrene/burlap 125'**

Type of Pump: **Submersible**      Pump Depth (ft.): **100**

Well Tests: **Estimated**      Yield: **10 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	125'-205'	Trinity

Chemical Analysis Made: No

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

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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.**  
**PO Box 1060**  
**Manchaca, TX 78652**

Driller Name: **Byron Benoit** License Number: **1955**

Apprentice Name: **Frank Barnard** Apprentice Number: **56366**

Comments: **No Data**

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	1	topsoil	4.5"	New	Plastic	-2' to 205' sdr17
1	125	tan lime	slotted			125'-205'
125	205	broken red sandstone				

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## STATE OF TEXAS PLUGGING REPORT for Tracking #187078

Owner:	<b>OAR Spicewood Real Estate Holdings LLC</b>	Owner Well #:	<b>1</b>
Address:	<b>25928 Haynie Flatt Rd spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>25928 Haynie Flatt Rd spicewood, TX 78669</b>	Latitude:	<b>30° 27' 15.84" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 09.24" W</b>
		Elevation:	<b>784</b>
Well Type:	<b>Domestic</b>		

### Drilling Information

Company:	<b>no data</b>	Date Drilled:	<b>No Data</b>
Driller:	<b>no data</b>	License Number:	<b>no data</b>

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>5</b>	<b>1</b>	<b>150</b>

### Plugging Information

Date Plugged: **5/6/2019**      Plugger: **Jay Ledbetter**

Plug Method: **Pour in 3/8 bentonite chips when standing water in well is less than 100 feet depth, cement top 2 feet**

Variance Number: **no**

Casing Left in Well:			Plug(s) Placed in Well:		
<i>Dia (in.)</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
<b>5</b>	<b>-2</b>	<b>150</b>	<b>2</b>	<b>150</b>	<b>Bentonite 30 Bags/Sacks</b>

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: **Action Water Well Service**  
**100 Spanish Oak Trail**  
**Spicewood, TX 78669**

Driller Name: **Jay Ledbetter**      License Number: **54182**

Comments: **top with 2' cement cap to - 2' grade**

## STATE OF TEXAS WELL REPORT for Tracking #34122

Owner:	<b>David Searcy</b>	Owner Well #:	<b>1</b>
Address:	<b>24428 Pedernales Drive Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>24428 Pedernales Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 55" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 03' 55" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/25/2003**      Drilling End Date: **7/25/2003**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>20</b>
	<b>6</b>	<b>20</b>	<b>230</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>4</b>

Seal Method: **Slurry**

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

Sealed By: **Driller**

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

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

Method of Verification: **landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 140', 130', 20'**

Type of Pump: **No Data**

Well Tests: **Estimated      Yield: 60 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	95-220	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling, Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	13	Caliche
13	35	Sand-Gravel
35	45	Tan LS
45	75	Gry LS w/ Clay
75	95	Gry Clay
95	120	Red Clay-SS
120	140	Red Clay & SS
140	150	Gravel (H2O)
150	160	Red SS
160	198	Gravel-Sand (H2O)
198	202	Red SS
202	220	Gravel-Sand (H2O)
220	230	Tan-Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"(5"OD)	New	PVC	+2 to 230
Sch40			

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## STATE OF TEXAS WELL REPORT for Tracking #123725

Owner:	JOHN SCHMID	Owner Well #:	No Data
Address:	3800 N LAMAR, STE 730-180 AUSTIN, TX 78756	Grid #:	57-40-5
Well Location:	24603 HAYNIE FLAT RD SPICEWOOD, TX 78669	Latitude:	30° 26' 36" N
		Longitude:	098° 04' 20" W
Well County:	Travis	Elevation:	760 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 8/6/2007

Drilling End Date: 9/7/2007

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	12
	8	12	195

Drilling Method: Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	2	2
	2	161	25

Seal Method: PRESSURE CEMENTED

Distance to Property Line (ft.): No Data

Sealed By: CESAR RAMOS

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

Distance to Septic Tank (ft.): No Data

Method of Verification: NOT YET INSTALLED

Surface Completion: Surface Sleeve Installed

Water Level: 79 ft. below land surface on 2007-09-10      Measurement Method: Unknown

Packers: NEOPRENE 161  
NEOPRENE 162  
NEOPRENE 163

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

Well Tests: Jetted      Yield: 70 GPM

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

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

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

Company Information: **BEE CAVE DRILLING INC**  
**185 ANGELFIRE DR**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **57534**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	5	GRAY SURFACE ROCK
5	7	TAN SAND
7	43	WHITE ROCK
43	75	GRAY ROCK
75	105	BLUE SHALE
105	125	RED ROCK W/B 10 GPM TDS 840
125	163	RED SHALE
163	190	RED ROCK W/B 70 GPM TDS 700
190	195	BLUE CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-163
4.5	NEW	SCREEN MFG	163-183 .050
4.5	NEW	PLASTIC	183-195

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## STATE OF TEXAS WELL REPORT for Tracking #228211

Owner:	<b>Brian Bailey Homes</b>	Owner Well #:	<b>1</b>
Address:	<b>11610 Bee Caves Rd. #230 Austin, TX 78734</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>Haynie Creek Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 52" N</b>
		Longitude:	<b>098° 03' 51" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>727 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/30/2010**      Drilling End Date: **7/31/2010**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>6.75</b>	<b>12</b>	<b>272</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>8</b>	<b>4 cement</b>
	<b>8</b>	<b>12</b>	<b>2 bentonite</b>

Seal Method: **slurry and pour**

Distance to Property Line (ft.): **200**

Sealed By: **Alonzo Duke**

Distance to Septic Field or other  
concentrated contamination (ft.): **not yet inst**

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

Method of Verification: **customer**

Surface Completion: **Surface Sleeve Installed**

Water Level: **62 ft. below land surface on 2010-07-31**      Measurement Method: **Unknown**

Packers: **neoprene 12**  
**neoprene 170**  
**neoprene 175**

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

Well Tests: **Pump**      Yield: **7 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data
		Chemical Analysis Made: No
Did the driller knowingly penetrate any strata which contained injurious constituents?:		No

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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 Angelfire Dr.**  
**Dripping Springs, TX 78620**

Driller Name: **Jim Blair** License Number: **54416**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	white rock
10	30	brown sandstone
30	85	grey clay
85	100	red clay
100	110	black rock
110	170	red clay
170	250	brown limestone wb
250	272	grey clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	plastic	0 232
4.5	new	plastic perf	232 272

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #339438

Owner:	<b>Ben Morelan</b>	Owner Well #:	<b>3</b>
Address:	<b>2750 Haynie Creek Ln. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>2750 Haynie Creek Ln. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 53" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 03' 51" W</b>
		Elevation:	<b>1514 ft. above sea level</b>

**\*\*Plugged Within 48 Hours\*\***

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #142872**

Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>
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Drilling Start Date: **6/28/2013**      Drilling End Date: **7/1/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>270</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>6 cement</b>

Seal Method: **slurry and pour**

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

Sealed By: **Steve Stewart**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Unknown      Yield: 0 GPM**

	<i>Description (number of sacks &amp; material)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Plug Information:	<b>no casing installed</b>		
	<b>backfilled with dry cuttings to 10'</b>		

**cement from 10' to surface**

Water Quality: **No Data**

Water Type

**No Data**

Chemical Analysis Made: **Unknown**

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

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

Company Information: **Bee Cave Drilling, Inc.**  
**185 Angel Fire Dr.**  
**Dripping Springs, TX 78620**

Driller Name: **Jim Blair** License Number: **54416**

Apprentice Name: **Steve Stewart**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	8	white limestone
8	15	tan limestone
15	40	yellow & tan limestone
40	100	gray shale
100	110	brown shale
110	140	black shale
140	170	tan clay
170	210	brown rock w/ clay
210	270	tan & red clay

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

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## STATE OF TEXAS WELL REPORT for Tracking #339449

Owner:	<b>Ben Morelan</b>	Owner Well #:	<b>4</b>
Address:	<b>2750 Haynie Creek Ln. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>2750 Haynie Creek Ln. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 57" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 03' 52" W</b>
		Elevation:	<b>1514 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/1/2013**

Drilling End Date: **7/2/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>245</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>245</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>50</b>	<b>8 cement</b>

Seal Method: **slurry and pour**

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

Sealed By: **Steve Stewart**

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

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

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **77 ft. below land surface on 2013-07-05** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **230**

Well Tests: **Pump** Yield: **3 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Unknown

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

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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

Apprentice Name: Steve Stewart

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	8	white limestone
8	15	tan limestone
15	40	yellow & tan limestone
40	80	gray shale
80	100	red clay
100	110	red clay w/ rock
110	160	red clay
160	245	red clay and gravel wb

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	new	sdr-17	0 100
4.5	new	perf	100 245

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## STATE OF TEXAS WELL REPORT for Tracking #369054

Owner:	Holzapfel	Owner Well #:	No Data
Address:	26804 masters parkway spicewood, TX 78669	Grid #:	57-40-4
Well Location:	26804 masters parkway spicewood, TX 78669	Latitude:	30° 27' 01" N
Well County:	Travis	Longitude:	098° 05' 01" W
		Elevation:	No Data
			<b>**Plugged Within 48 Hours**</b>

**\*\*This well has been plugged\*\***

**Plugging Report Tracking #147051**

Type of Work:	New Well	Proposed Use:	Closed-Loop Geothermal
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Drilling Start Date: **5/17/2014**      Drilling End Date: **5/23/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>4.5</b>	<b>0</b>	<b>250</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>20</b>	<b>250</b>	<b>Gravel</b>	<b>3/8</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>20</b>	<b>3 bentonite</b>

Seal Method: **Poured**

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

Sealed By: **Driller**

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

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

Method of Verification: **owner**

Surface Completion: **Alternative Procedure Used**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Unknown

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: Sarris well Drilling  
p o box  
austin, TX 78760

Driller Name: Anthony Sarris License Number: 58870

Comments: drilled 5 new geothermal closed loop wells 0-250

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
From (ft)	To (ft)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0-3		clay	one inch	new	polyethylene pipe	0 -250
3-	250	rock and limestone				

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## STATE OF TEXAS WELL REPORT for Tracking #34418

Owner: **Kevin Woodstock c/o Action Water Wells**

Owner Well #: **1**

Address: **100 Spanish Oak Trail  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **Spicewood  
Spicewood, TX 78669**

Latitude: **30° 26' 27" N**

Longitude: **098° 04' 42" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/19/2003**

Drilling End Date: **8/19/2003**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6</b>	<b>100</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>11</b>

Seal Method: **Pressure Tremmie**

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

Sealed By: **APEX Drilling, Inc**

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

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

Method of Verification: **landowner /  
contractor**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 108', 104', 100'**

Type of Pump: **No Data**

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

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	Strata Depth (ft.)	Water Type
Water Quality:	108-182	Trinity

Chemical Analysis Made: No

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

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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: APEX Drilling, Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	22	Tan LS
22	38	Gry LS
38	63	Blue Clay
63	108	Red Clay
108	112	Gravel
112	120	Red Clay
120	160	Gravel-H2O
160	165	Tan LS
165	182	Gravel-H2O
182	200	Tan Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"(5"od)	New	PVC	+2 to 200 Sch40
4.5"	New	Slotted	160 to 180 .035
4.5"	New	Slotted	140 to 160 .035

---

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #34419

Owner: **Kevin Woodstock c/o Action Water Wells**

Owner Well #: **2**

Address: **100 Spanish Oak Trail  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **Spicewood  
Spicewood, TX 78669**

Latitude: **30° 26' 27" N**

Longitude: **098° 04' 41" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/20/2003**

Drilling End Date: **8/20/2003**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6</b>	<b>100</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>11</b>

Seal Method: **Pressure Tremmie**

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

Sealed By: **APEX Drilling, Inc**

Distance to Septic Field or other  
concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **landowner /  
contractor**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 120', 110', 100'**

Type of Pump: **No Data**

Well Tests: **Estimated**      **Yield: 50 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	124-179	Trinity

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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: APEX Drilling, Inc.  
PO Box 867  
Marble Falls, TX 78654

Driller Name: Michael G. Becker License Number: 54516

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	Caliche
5	20	Tan LS
20	30	Gry LS
30	55	Tan LS
55	67	Gry Clay
67	124	Red SS w/ Clay
124	170	Gravel-H2O
170	175	Tan LS
175	179	Gravel-H2O
179	200	Tan Blue Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"(5"od)	New	PVC	+2 to 200 Sch40
4.5"	New	Slotted	160 to 180 .035
4.5"	New	Slotted	140 to 160 .035

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## STATE OF TEXAS WELL REPORT for Tracking #91343

Owner: **Austin Classic Builders**

Owner Well #: **No Data**

Address: **100 Spanish Oak Trail  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **1129 Lake Shore Dr  
Spicewood, TX 78669**

Latitude: **30° 26' 31" N**

Longitude: **098° 04' 43" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **7/25/2006**

Drilling End Date: **7/25/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.5</b>	<b>100</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>11 of Portland</b>

Seal Method: **Pressure Tremmie**

Distance to Property Line (ft.): **5**

Sealed By: **Apex Drilling, Inc.**

Distance to Septic Field or other  
concentrated contamination (ft.): **80**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Landowner**

Surface Completion: **Surface Sleeve Installed**

Water Level: **No Data**

Packers: **Burlap 105', 100'**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 45 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	75-181	Trinity

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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: **Apex Drilling, Inc**  
**PO Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Michael G Becker P.G.** License Number: **54516**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	8	Gravel
8	30	Tan Limestone
30	65	Grey Limestone w/ Clay
65	95	Red Clay
95	98	Gravel
98	118	Clay
118	157	Gravel
157	181	Sand-Red-Tan
181	200	Tan Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5" (5" OD)	New	PVC	+2 to 120' Sch40
4.5" (5" OD)	New	Slotted PVC	120' to 180' .035
4.5" (5" OD)	New	PVC	180' to 200' Sch40

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #99843

Owner:	<b>CASTLETOP RANCH</b>	Owner Well #:	<b>No Data</b>
Address:	<b>COX'S CROSSING SPICEWOOD, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25800 COX'S CROSSING SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 33" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 59" W</b>
		Elevation:	<b>734 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **11/16/2006**      Drilling End Date: **11/16/2006**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>11</b>
	<b>6.75</b>	<b>11</b>	<b>170</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>6</b>	<b>4</b>
	<b>6</b>	<b>11</b>	<b>4</b>

Seal Method: **SLURRIED & POURED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **250**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **78 ft. below land surface on 2006-11-20**      Measurement Method: **Unknown**

Packers: **NEOPRENE 13  
NEOPRENE 95  
NEOPRENE 100**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **50 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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  
185 ANGELFIRE DR  
DRIPPING SPRINGS, TX 78620

Driller Name: JIM BLAIR 54416 License Number: 54416

Apprentice Name: CESAR RAMOS Apprentice Number: 3090

Comments: Amended 1/22/07 ref#4180

Report Amended on by Request #4180

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	20	TAN SHALE
20	48	TAN SANDSTONE
48	58	BROWN ROCK
58	65	BROWN SANDSTONE
65	69	BROWN CLAY
69	100	BROWN SANDSTONE
100	167	BROWN ROCK W/B 50 GPM TDS 650
167	170	YELLOW CLAY

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-105
4.5	NEW	SCREEN	MFG. 105-165 .050
4.5	NEW	PLASTIC	165-170

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**IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY**

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Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #108237

Owner:	BECKY MADISON	Owner Well #:	No Data
Address:	1251 LAKESHORE DR SPICEWOOD, TX 78669	Grid #:	57-40-5
Well Location:	25219 RIVER RD SPICEWOOD, TX 78669	Latitude:	30° 26' 26.83" N
Well County:	Travis	Longitude:	098° 04' 48.43" W
		Elevation:	750 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 3/13/2007      Drilling End Date: 3/13/2007

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	12
	6.75	12	210

Drilling Method: Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	6	4
	6	12	5

Seal Method: SLURRIED & POURED

Distance to Property Line (ft.): No Data

Sealed By: CESAR RAMOS

Distance to Septic Field or other  
concentrated contamination (ft.): No Data

Distance to Septic Tank (ft.): No Data

Method of Verification: NOT YET INSTALLED

Surface Completion: Surface Sleeve Installed

Water Level: 122 ft. below land surface on 2007-03-13      Measurement Method: Unknown

Packers: NEOPRENE 12  
NEOPRENE 125  
NEOPRENE 135

Type of Pump: Submersible      Pump Depth (ft.): 200

Well Tests: Jetted      Yield: 15 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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  
185 ANGELFIRE DR  
DRIPPING SPRINGS, TX 78620

Driller Name: Jim Blair License Number: 54416

Comments: No Data

Report Amended on 7/31/2023 by Request #40056

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	WHITE ROCK
3	7	TAN SANDSTONE
7	40	WHITE ROCK
40	53	YELLOW ROCK
53	56	GRAY ROCK
56	70	BLUE SHALE
70	80	RED SHALE
80	96	BLACK SHALE
96	130	RED SANDSTONE
130	210	RED ROCK W/B 15 GPM TDS 610

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-140
4.5	NEW	SCREEN MFG	140-200 .050
4.5	NEW	PLASTIC	200-21

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**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #111526

Owner:	<b>LARRY EISENBERG</b>	Owner Well #:	<b>No Data</b>
Address:	<b>3004 SPARKLING BROOK LN AUSTIN, TX 78746</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25204 SUNSET RIVER CR SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 38" N</b>
		Longitude:	<b>098° 04' 43" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>800 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/12/2007**      Drilling End Date: **4/12/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8</b>	<b>12</b>	<b>170</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>2</b>
	<b>2</b>	<b>105</b>	<b>9</b>

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **86**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **90 ft. below land surface on 2007-04-14**      Measurement Method: **Unknown**

Packers: **NEOPRENE 105  
NEOPRENE 110  
NEOPRENE 128  
NEOPRENE 130**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **30 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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  
185 ANGELFIRE DR  
DRIPPING SPRINGS, TX 78620

Driller Name: JIM BLAIR License Number: 54416

Apprentice Name: CESAR RAMOS Apprentice Number: 57534

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	2	TOPSOIL	4.5	NEW	PLASTIC	0-130
2	28	TAN ROCK	4.5	NEW	SCREEN MFG.	130-170 .050
28	38	GREY ROCK				
38	90	BLUE SHALE				
90	115	BLACK ROCK				
115	130	RED CLAY				
130	170	RED ROCK W/B 30 GPM TDS 690				

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## STATE OF TEXAS WELL REPORT for Tracking #131575

Owner:	<b>TODD COPENHAVER</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1403 HARGIS CREEK TR AUSTIN, TX 78717</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>1209 LAKESHORE DR SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 28" N</b>
		Longitude:	<b>098° 04' 40" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>741 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/1/2007**      Drilling End Date: **12/1/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8</b>	<b>12</b>	<b>155</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>3</b>
	<b>2</b>	<b>105</b>	<b>16</b>

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **55 ft. below land surface on 2007-12-04**      Measurement Method: **Unknown**

Packers: **NEOPRENE 105  
NEOPRENE 107  
NEOPRENE 125  
NEOPRENE 127**

Type of Pump: **Submersible**      Pump Depth (ft.): **140**

Well Tests: **Jetted**      Yield: **100 GPM**

Water Quality:

Strata Depth (ft.)

Water Type

No Data

No Data

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which  
contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING INC**  
**185 ANGEL FIRE DR**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR**

License Number: **54416**

Apprentice Name: **CESAR RAMOS**

Apprentice Number: **57534**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	TOPSOIL
1	20	CALICHE
20	75	BLUE SHALE
75	125	RED SANDSTONE
125	155	RED ROCK W/B 100 GPM TDS 730

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-135
4.5	NEW	SCREEN MFG	135-155 .050

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## STATE OF TEXAS WELL REPORT for Tracking #162929

Owner:	<b>CLARK ASPY</b>	Owner Well #:	<b>No Data</b>
Address:	<b>8310 CAP OF TX HWY N, STE 490 AUSTIN, TX 78731</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>7 MATHIS CIRCLE SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 35" N</b>
		Longitude:	<b>098° 05' 02" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>715 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **11/25/2008**      Drilling End Date: **11/25/2008**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8</b>	<b>12</b>	<b>170</b>

Drilling Method: **Air Hammer**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>20</b>

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **68 ft. below land surface on 2008-11-26**      Measurement Method: **Unknown**

Packers: **NEOPRENE 100  
NEOPRENE 105  
NEOPRENE 108**

Type of Pump: **Submersible**      Pump Depth (ft.): **150**

Well Tests: **Jetted**      Yield: **30 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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 ANGELFIRE DR  
DRIPPING SPRINGS, TX 78620

Driller Name: BOBBY ROBERTS License Number: 54416

Apprentice Name: CESAR RAMOS Apprentice Number: 57534

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	10	FILL
10	20	TAN SHALE
20	40	SAND
40	60	RED SANDSTONE
60	90	BLACK ROCK
90	105	BLUE SHALE
105	120	GREY ROCK
120	170	GRAVEL W/B 30 GPM TDS 600

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-130
4.5	NEW	SCREEN MFG	130-170

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #217963

Owner:	SHERRY ELLENBOGEN	Owner Well #:	001
Address:	1327 LAKESHORE DR. SPICEWOOD, TX 78669	Grid #:	57-40-5
Well Location:	1327 LAKESHORE DR. SPICEWOOD, TX 78669	Latitude:	30° 26' 44" N
		Longitude:	098° 04' 59" W
Well County:	Travis	Elevation:	716 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 4/14/2010      Drilling End Date: 4/14/2010

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	12
	8	12	15

Drilling Method: Air Rotary

Borehole Completion: Open Hole

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	2	3 CEMENT
	2	85	9 CEMENT

Seal Method: PRESSURE CEMENTED

Distance to Property Line (ft.): 150

Sealed By: Driller

Distance to Septic Field or other  
concentrated contamination (ft.): 80

Distance to Septic Tank (ft.): No Data

Method of Verification: STEEL TAPE

Surface Completion: Surface Sleeve Installed

Water Level: 31 ft. below land surface on 2010-04-15      Measurement Method: Unknown

Packers: 1 NEOPRENE 85  
1 NEOPRENE 87

Type of Pump: Submersible      Pump Depth (ft.): 90

Well Tests: Jetted      Yield: 150 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	No Data

Chemical Analysis Made: Yes

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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  
185 ANGLE FIRE DR.  
DRIPPING SPRINGS, TX 78620

Driller Name: BOBBY ROBERTS License Number: 54416

Comments: No Data

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Lithology:			Casing:			
DESCRIPTION & COLOR OF FORMATION MATERIAL			BLANK PIPE & WELL SCREEN DATA			

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	10	FILL
10	45	BROWN CLAY
45	60	BROWN ROCK
60	70	BROWN SHALE
70	80	BROWN ROCK
80	85	BROWN CLAY
85	105	BROWN ROCK W/B 150 TDS 500

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0 TO 85
4.5	NEW	SCREEN MFG	85 TO 105 .050

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(512) 334-5540

## STATE OF TEXAS WELL REPORT for Tracking #365693

Owner:	<b>John Morgan</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25222 River Rd. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25228 River Rd. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 25" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 56" W</b>
		Elevation:	<b>774 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/16/2014**      Drilling End Date: **4/16/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>210</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>210</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>21 cement</b>

Seal Method: **pressure cemented**

Sealed By: **Steve Stewart**

Distance to Property Line (ft.): **No Data**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **147 ft. below land surface on 2014-04-17**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**      Pump Depth (ft.): **200**

Well Tests: **Jetted**      Yield: **10 GPM**



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	Strata Depth (ft.)	Water Type
Water Quality:	No Data	Trinity

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

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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

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	6	tan limestone
6	35	hard white rock
35	40	yellow limestone
40	70	gray limestone
70	100	gray clay
100	130	red clay
130	145	red clay & gravel
145	200	red & tan trinity gravel wb 10 gpm
200	210	yellow clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	new	sdr-17	0 120
4.5	new	perf	120 200
4.5	new	sdr-17	200 210

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**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 #457629

Owner: **Kristin Bevis**

Owner Well #: **No Data**

Address: **P O Box 12992  
Austin , TX 78711**

Grid #: **57-40-4**

Well Location: **1320 Lakeshore Dr  
Spicewood, TX 78669**

Latitude: **30° 26' 42" N**

Longitude: **098° 05' 04" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **6/29/2017**

Drilling End Date: **6/29/2017**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>95</b>
	<b>6.25</b>	<b>95</b>	<b>205</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>95</b>	<b>6 Benseal 2 Portland 8 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **20**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **50+**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 95 ft.  
Burlap/Neoprene at 97 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 25 GPM**

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	Strata Depth (ft.)	Water Type
Water Quality:	95 - 185	Trinity TDS-500
		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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	20	Tan LS
20	32	Gray Tan LS
32	64	Gray Clay
64	95	Red SS
95	185	Gravel
185	205	Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	125
4.5	Screen	New Plastic (PVC)	.035	125	185
4.5	Blank	New Plastic (PVC)	SDR17	185	205

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## STATE OF TEXAS WELL REPORT for Tracking #474708

Owner:	<b>Brian Parker</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1335 Lakeshore Dr. Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>1335 Lakeshore Dr. Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 47.8" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 02.54" W</b>
		Elevation:	<b>708 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **3/3/2018**

Drilling End Date: **3/3/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>8</b>
	<b>8.5</b>	<b>8</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>200</b>	<b>Gravel</b>	<b>3/8"</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>98</b>	<b>Cement 30 Bags/Sacks</b>
	<b>98</b>	<b>100</b>	<b>Bentonite 2 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

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: **40 ft. below land surface on 2018-03-07**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **180**

Well Tests: **Jetted** **Yield: 50+ GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	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**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	8	tan limestone
8	76	red clay and limestone
76	148	red sandstone & rock
148	160	gray shale and clay
160	200	gray limestone & sandstone w/ gravel layers

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	140
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	140	200

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## STATE OF TEXAS WELL REPORT for Tracking #476156

Owner: **Mac ( David ) Lane**

Owner Well #: **No Data**

Address: **5204 Crystal Water Dr  
Austin , TX 78735**

Grid #: **57-40-5**

Well Location: **1215 Lakeshore Dr  
Spicewood, TX 78669**

Latitude: **30° 26' 29" N**

Longitude: **098° 04' 40" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **3/1/2018**

Drilling End Date: **3/1/2018**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>185</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>7 Benseal 1 Portland 8 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **5**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **50**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 100 ft.  
Burlap/Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 60 GPM**

---

	Strata Depth (ft.)	Water Type
Water Quality:	119 - 165	Trinity / TDS 600
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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	7	Tan LS
7	15	Gravel
15	27	Tan LS
27	50	Tan Red Clay
50	54	Tan LS
54	60	Gray Clay
60	119	Red SS
119	165	Gravel
165	185	Tan Red Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	105
4.5	Screen	New Plastic (PVC)	.035	105	165
4.5	Blank	New Plastic (PVC)	SDR17	165	185



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## STATE OF TEXAS WELL REPORT for Tracking #527799

Owner:	Action Water Wells ( Pour )	Owner Well #:	No Data
Address:	100 Spanish Oak Trail Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	24443 Pedernales Dr Spicewood, TX 78669	Latitude:	30° 26' 11" N
Well County:	Travis	Longitude:	098° 04' 15" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 10/30/2019      Drilling End Date: 10/30/2019

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	8.5	0	100
	6.25	100	232

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	100	7 Benseal 2 Portland 9 Bags/Sacks

Seal Method: Pressure

Distance to Property Line (ft.): 30

Sealed By: Driller

Distance to Septic Field or other  
concentrated contamination (ft.): 50

Distance to Septic Tank (ft.): 50

Method of Verification: Land Owner

Surface Completion: Surface Sleeve Installed      Surface Completion by Driller

Water Level: No Data

Packers: Burlap/ Neoprene at 100 ft.  
Burlap/ Neoprene at 102 ft.

Type of Pump: No Data

Well Tests: Jetted      Yield: 45 GPM

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	Strata Depth (ft.)	Water Type
Water Quality:	100 - 212	Trinity - TDS 530
	Chemical Analysis Made: No	
	Did the driller knowingly penetrate any strata which contained injurious constituents?: No	

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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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson** License Number: **54989**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	15	Tan LS
15	29	Sand and Gravel
29	40	Tan LS
40	60	Gray LS
60	90	Gray Clay
90	142	Red SS
142	192	Gravel
192	199	Red SS
199	212	Gravel
212	213	Turquoise Clay
212	225	Tan Clay
225	232	Gray Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	152
4.5	Screen	New Plastic (PVC)	.035	152	212
4.5	Blank	New Plastic (PVC)	SDR17	212	232

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## STATE OF TEXAS WELL REPORT for Tracking #532132

Owner:	<b>Mike Lorenz</b>	Owner Well #:	<b>No Data</b>
Address:	<b>25409 Mathis Circle Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25409 Mathis Circle Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 34" N</b>
		Longitude:	<b>098° 04' 59" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>737 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **12/5/2019**      Drilling End Date: **12/5/2019**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10.5</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>100</b>
	<b>6.75</b>	<b>100</b>	<b>175</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>90</b>	<b>Cement 18</b>
	<b>90</b>	<b>100</b>	<b>Bentonite 3</b>

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **40**

Distance to Septic Field or other  
concentrated contamination (ft.): **120**

Distance to Septic Tank (ft.): **100**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **No Data**

Packers: **Rubber at 100 ft.  
Rubber at 102 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted      Yield: 70 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

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>2</b>	<b>Topsoil</b>
<b>2</b>	<b>15</b>	<b>gravel/sand</b>
<b>15</b>	<b>40</b>	<b>tan shale</b>
<b>40</b>	<b>50</b>	<b>brown shale</b>
<b>50</b>	<b>55</b>	<b>dark grey shale</b>
<b>55</b>	<b>60</b>	<b>tan sandstone</b>
<b>60</b>	<b>65</b>	<b>grey limestone/clay</b>
<b>65</b>	<b>75</b>	<b>red sandstone</b>
<b>75</b>	<b>80</b>	<b>black rock</b>
<b>80</b>	<b>90</b>	<b>shale</b>
<b>90</b>	<b>125</b>	<b>gravel wb 20-25 gpm at 700 tds</b>
<b>125</b>	<b>170</b>	<b>gravel wb 50 gpm at 560 tds</b>
<b>170</b>	<b>175</b>	<b>tan clay</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>0</b>	<b>115</b>
<b>4.5</b>	<b>Perforated or Slotted</b>	<b>New Plastic (PVC)</b>	<b>sdr-17</b>	<b>115</b>	<b>175</b>

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## STATE OF TEXAS WELL REPORT for Tracking #553035

Owner:	<b>William Huynh</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1352 Lakeshore Dr Spicewood, TX 78669</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>1352 Lakeshore Dr Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 48" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 06" W</b>
		Elevation:	<b>706 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/29/2020**      Drilling End Date: **7/30/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10.625</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>100</b>
	<b>6.75</b>	<b>100</b>	<b>170</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Perforated or Slotted**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>2</b>	<b>8</b>	<b>Cement 2</b>
	<b>8</b>	<b>100</b>	<b>Bentonite 9</b>

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **25**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level: **54 ft. below land surface on 2020-09-03**      Measurement Method: **Electric Line**

Packers: **Rubber at 100 ft.  
Rubber at 105 ft.  
Rubber at 110 ft.  
Rubber at 115 ft.**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      **Yield: 20+ 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

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	topsoil
2	18	sand/sandstone
18	22	grey clay
22	30	limestone w/clay
30	90	red limestone
90	105	hard limestone
105	160	tan sandstone
160	170	grey clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	sdr-17	0	120
4.5	Perforated or Slotted	New Plastic (PVC)	sdr-17	120	170

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**Austin, TX 78711**  
**(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #563205

Owner: **Ryan Nesloney**  
Address: **1215 Lakeshore Dr  
Spicewood , TX 78669**  
Well Location: **1215 Lakeshore Dr  
Spicewood, TX 78669**  
Well County: **Travis**

Owner Well #: **No Data**  
Grid #: **57-40-5**  
Latitude: **30° 26' 30" N**  
Longitude: **098° 04' 41" W**  
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/28/2020** Drilling End Date: **12/28/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>100</b>
	<b>6.5</b>	<b>100</b>	<b>185</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>7 Benseal 2 Portland 9 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **15**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **50**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 100 ft.  
Burlap/Neoprene at 105 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 60 GPM**

Water Quality:

Strata Depth (ft.)

**118 - 166**

Water Type

**L. Trinity**

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **S. Travis Co**  
**Reg. ONLY**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
<b>0</b>	<b>1</b>	<b>Top Soil</b>
<b>1</b>	<b>5</b>	<b>Tan LS</b>
<b>5</b>	<b>22</b>	<b>Gravel</b>
<b>22</b>	<b>37</b>	<b>Gray Red Clay</b>
<b>37</b>	<b>42</b>	<b>Tan LS</b>
<b>42</b>	<b>58</b>	<b>Gray LS</b>
<b>58</b>	<b>118</b>	<b>Red SS</b>
<b>118</b>	<b>165</b>	<b>Gravel</b>
<b>165</b>	<b>166</b>	<b>Turquoise Clay</b>
<b>166</b>	<b>185</b>	<b>Tan Clay</b>

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>SDR17</b>	<b>2</b>	<b>105</b>
<b>4.5</b>	<b>Screen</b>	<b>New Plastic (PVC)</b>	<b>.035</b>	<b>105</b>	<b>165</b>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>SDR17</b>	<b>165</b>	<b>185</b>

---

**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 #616691

Owner:	<b>Shumate Homes Inc.</b>	Owner Well #:	<b>No Data</b>
Address:	<b>3516 S. Pace Bend Rd Spicewood , TX 78611</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>1248 Lakeshore Dr Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 33" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 46" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **8/15/2022**      Drilling End Date: **8/15/2022**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>100</b>
	<b>6.25</b>	<b>100</b>	<b>213</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>100</b>	<b>6 Benseal 5 Portland 11 Bags/Sacks</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **60+**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **100+**

Distance to Septic Tank (ft.): **50+**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**      **Surface Completion by Driller**

Water Level: **No Data**

Packers: **Burlap/Neoprene at 100 ft.  
Burlap/Neoprene at 105 ft.  
Burlap/Neoprene at 120 ft.  
Burlap/Neoprene at 125 ft.**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 42 GPM**

Water Quality:

Strata Depth (ft.)

130 - 193

Water Type

Trinity

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**License Number: **54989**Apprentice Name: **Alfonso Rodriguez Jr**Apprentice Number: **60952**Comments: **SW Travis Co Approved**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Top Soil
1	7	Gravel
7	18	White Tan LS w/ Gravel
18	32	Gravel
32	45	Gray LS w/ Clay
45	77	Hammet Clay
77	130	Red SS
130	141	Gravel w/ Red SS ( H2O )
141	193	Gravel w/ Sand ( H2o )
193	213	Turquoise Tan Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	2	133
4.5	Screen	New Plastic (PVC)	.035	133	193
4.5	Blank	New Plastic (PVC)	SDR17	193	213

---

**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 #656699

Owner:	Hunter Mark F 2010 Living Trust	Owner Well #:	57405MH2
Address:	1227 Lakeshore Dr. Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	1227 Lakeshore Dr. Spicewood, TX 78669	Latitude:	30° 26' 32" N
Well County:	Travis	Longitude:	098° 04' 42" W
		Elevation:	743 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: 12/27/2023      Drilling End Date: 12/27/2023

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9	0	100
	6.25	100	190

Drilling Method: Air Rotary

Borehole Completion: Straight Wall

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	100	Cement 12 Bags/Sacks

Seal Method: Pressure

Distance to Property Line (ft.): 5

Sealed By: Driller

Distance to Septic Field or other  
concentrated contamination (ft.): 100+

Distance to Septic Tank (ft.): 100+

Method of Verification: Owner

Surface Completion: Pitless Adapter Used

Surface Completion by Driller

Water Level: 120 ft. below land surface on 2023-12-27

Packers: Burlap at 100 ft.  
Burlap/Plastic at 110 ft.  
Burlap/Plastic at 120 ft.  
Burlap/Plastic at 130 ft.

Type of Pump: Submersible

Pump Depth (ft.): 180

Well Tests: Jetted      No Test Data Specified



---

	Strata Depth (ft.)	Water Type
Water Quality:	130 - 190	Lower Trinity
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: **Centex Pump & Supply, Inc.**  
**2520 Hwy. 290 West**  
**Dripping Springs, TX 78620**

Driller Name: **Martin Lingle** License Number: **54813**

Comments: **No Data**

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	20	Caliche/Rock
20	65	Tan-Gray Strip Clay
65	95	Red Clay
95	120	Gravel w/ Red Clay
120	130	Gray Clay
130	160	Gravel
160	181	Sand & Sand Stone
181	190	Tan w/ Yellow Clay

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
4.5	Blank	New Plastic (PVC)	SDR17	0	130
4.5	Perforated or Slotted	New Plastic (PVC)	SDR17	130	190

---

**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 #676449

Owner:	<b>Russell Young</b>	Owner Well #:	<b>No Data</b>
Address:	<b>1323 Lakeshore Drive Spicewood , TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>1323 Lakeshore Drive Spicewood, TX 78669</b>	Latitude:	<b>30° 26' 43.7" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 57.9" W</b>
		Elevation:	<b>725 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **7/10/2024**      Drilling End Date: **7/11/2024**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10.625</b>	<b>0</b>	<b>10</b>
	<b>8.5</b>	<b>10</b>	<b>220</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>220</b>	<b>Gravel</b>	<b>3/8</b>

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>10</b>	<b>Cement 4</b>
	<b>10</b>	<b>100</b>	<b>Bentonite 12</b>

Seal Method: **Pressure**

Distance to Property Line (ft.): **40**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **100**

Distance to Septic Tank (ft.): **100**

Method of Verification: **No Data**

Surface Completion: **Pitless Adapter Used**

Water Level:	<b>86 ft. below land surface on 2024-07-19</b>	Measurement Method:	<b>Electric Line</b>
Packers:	<b>No Data</b>		
Type of Pump:	<b>Submersible</b>	Pump Depth (ft.):	<b>200</b>
Well Tests:	<b>Jetted</b>	Yield:	<b>15 GPM</b>

---

	Strata Depth (ft.)	Water Type
Water Quality:	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 Rd.  
Dripping Springs, TX 78620

Driller Name: Michael Scott License Number: 59719

Comments: No Data

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Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	4	topsoil
4	10	tan limestone
10	100	grey limestone
100	130	red clay
130	140	red sand
140	160	tan limestone / gravel
160	180	grey clay / limestone
180	200	tan sandstone / grey clay wb 15+gpm
200	220	tan limestone

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	Blank	New Plastic (PVC)		0	180
5	Screen	New Plastic (PVC)		180	220

---

**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**





WATER LEVEL JUNE, 2019

FUTURE WASTEWATER STORAGE POND No. 3

GOLF COURSE IRRIGATION AREA;  
TLAP PERMIT NO. WQ00 14649-001

FUTURE WASTEWATER STORAGE POND No. 2

FUTURE WASTEWATER STORAGE POND No. 4

GOLF COURSE POND No. 1

WWTP BUFFER ZONE RESTRICTIVE  
EASEMENT DOC. No. 200789436

WWTP BOUNDARY

1/2 - MILE RADIUS

1 - MILE RADIUS

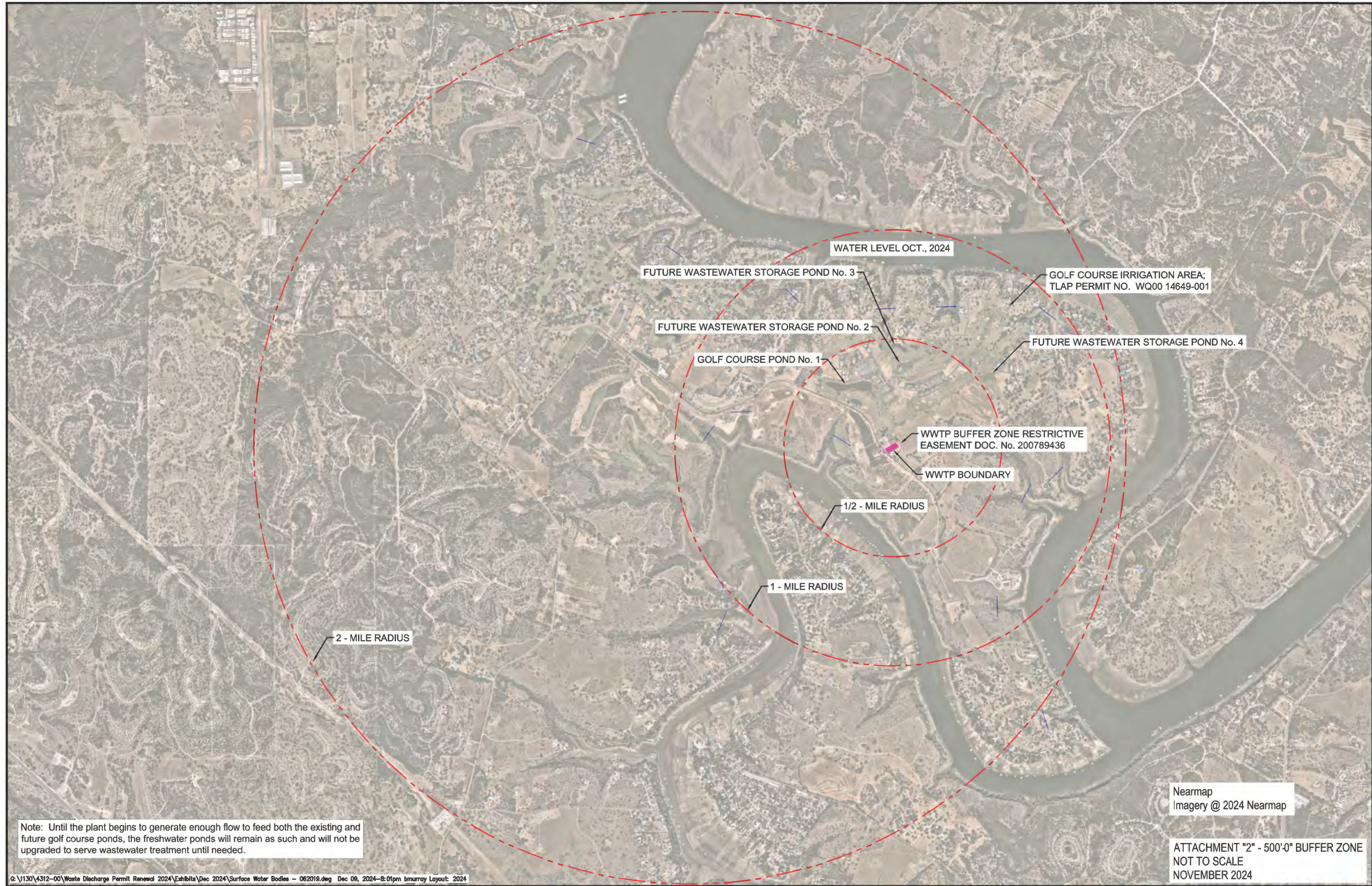
2 - MILE RADIUS

Nearmap  
Imagery @ 2024 Nearmap

Note: Until the plant begins to generate enough flow to feed both the existing and future golf course ponds, the freshwater ponds will remain as such and will not be upgraded to serve wastewater treatment until needed.

ATTACHMENT "2" - 500'-0" BUFFER ZONE  
NOT TO SCALE  
NOVEMBER 2024



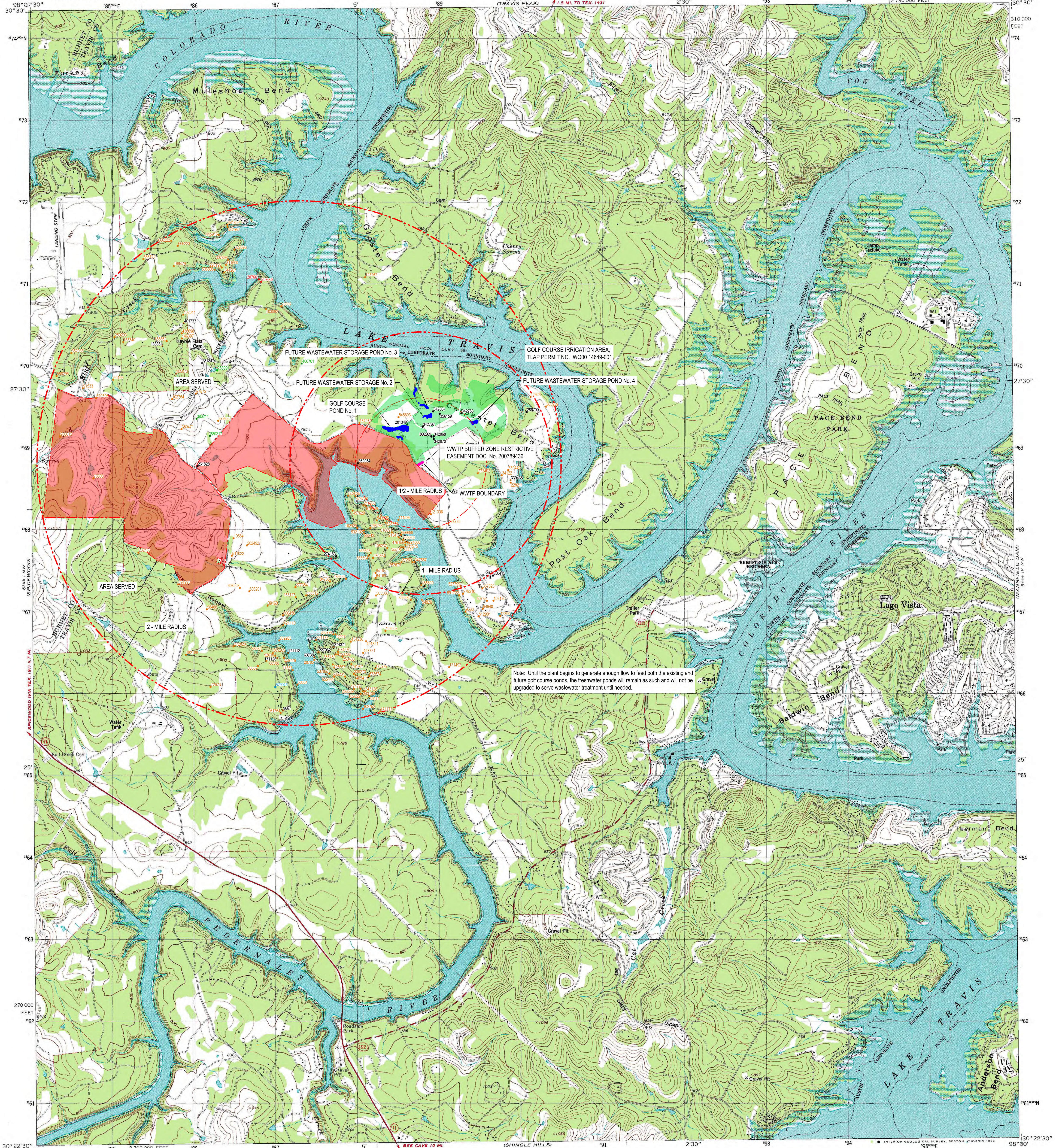


Note: Until the plant begins to generate enough flow to feed both the existing and future golf course ponds, the freshwater ponds will remain as such and will not be upgraded to serve wastewater treatment until needed.

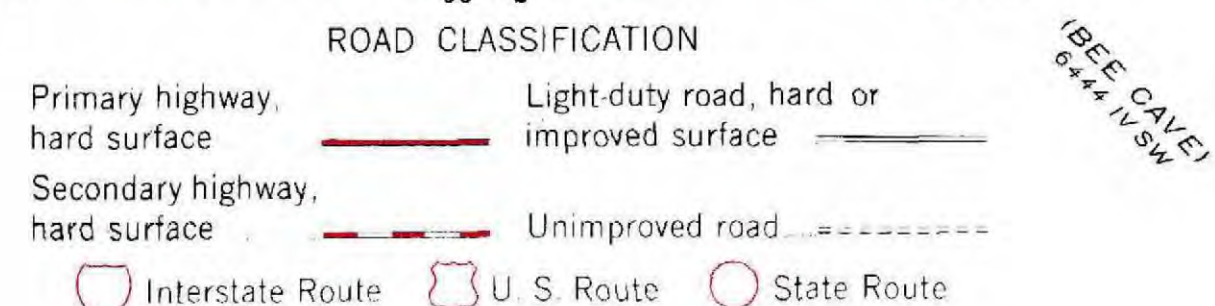
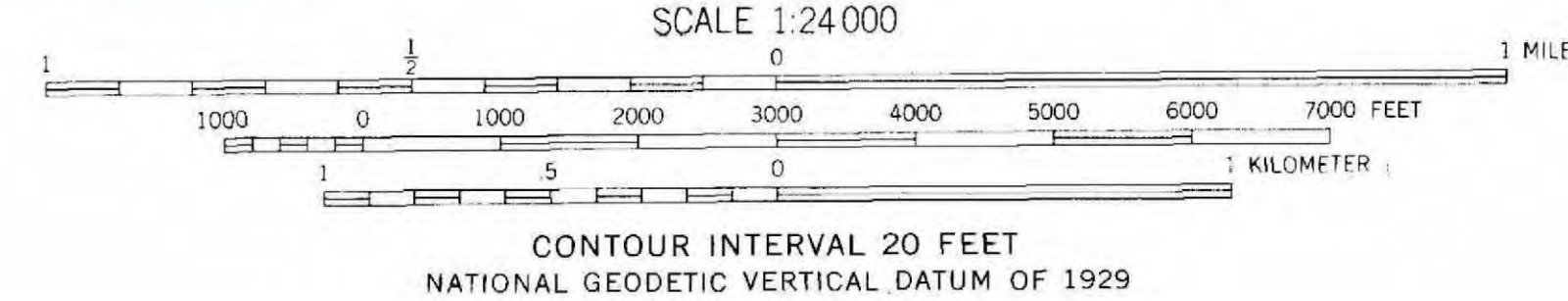
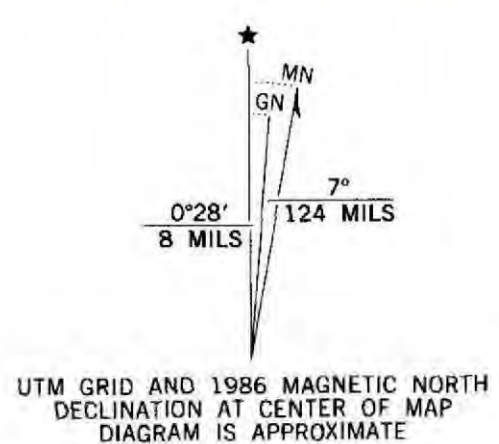
Nearmap  
Imagery @ 2024 Nearmap

ATTACHMENT "2" - 500'-0" BUFFER ZONE  
NOT TO SCALE  
NOVEMBER 2024





Mapped, edited and published by the Geological Survey  
Revised in cooperation with the Texas Water Development Board  
Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial photographs  
taken 1966. Field checked 1967. Revised from aerial  
photographs taken 1985. Field checked 1986  
Map edited 1986  
Projection and 10,000-foot grid ticks: Texas  
coordinate system, central zone (Lambert conformal conic)  
1000-meter Universal Transverse Mercator grid, zone 14  
1927 North American Datum  
To place on the predicted North American Datum 1983  
move the projection lines 17 meters south and  
29 meters east as shown by dashed corner ticks  
Fine red dashed lines indicate selected fence lines  
There may be private inholdings within the boundaries of



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



PACE BEND, TEX.

30098-D1-TF-024

1986

DMA 6344 1 NE-SERIES V882



**DOMESTIC WASTEWATER PERMIT  
APPLICATION – MINOR AMENDMENT *with* RENEWAL**

**PERMIT WQ0014649001**

**TWO RIVERS WASTEWATER TREATMENT PLANT**

**ARBOR WAY, INC.**

**DEC Job No. 4312-00**

**November 2024**



**TEXAS COMMISSION  
ON  
ENVIRONMENTAL QUALITY**

**PERMIT WQ0014649001**

**DOMESTIC WASTEWATER PERMIT  
APPLICATION – MINOR AMENDMENT *with* RENEWAL**

**OVERNIGHT TO: Executive Director  
Application Review and Processing Team (MC 148)  
Texas Commission on Environmental Quality  
12100 Park 35 Circle  
Austin, TX 78753**

**SUBMITTED BY: DE Corp.  
3100 West Alabama  
Houston, TX 77098  
  
DEC Job No. 4312-00**

**ON BEHALF OF: Arbor Way, Inc.**

## **November 2024**

# **TABLE OF CONTENTS**

COPY OF APPLICATION FEE CHECK .....	N/A
APPLICATION CHECKLIST .....	PAGE 1
ADMINISTRATIVE REPORT 1.0 .....	PAGES 2-24
TECHNICAL REPORT 1.0 .....	PAGES 1-20
WORKSHEET 3.0 .....	PAGES 36-42

### **ATTACHMENTS**

- 1) Lease Agreement with Lake Cliff on Lake Travis, L.P. for Effluent Disposal Site
- 2) USGS Quadrangle Map
- 3) Flow Diagram
- 4) Treatment Unit Dimensions
- 5) Facility Site Drawing
- 6) Annual Cropping Plan
- 7) USDA Soil Survey Map



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
**DOMESTIC WASTEWATER PERMIT APPLICATION  
CHECKLIST**

Complete and submit this checklist with the application.

APPLICANT: Arbor Way, Inc.

PERMIT NUMBER: WQ0014649001

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Original USGS Map	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Administrative Report 1.1	<input type="checkbox"/>	<input type="checkbox"/>	Affected Landowners Map	<input type="checkbox"/>	<input type="checkbox"/>
SPIF	<input type="checkbox"/>	<input type="checkbox"/>	Landowner Disk or Labels	<input type="checkbox"/>	<input type="checkbox"/>
Core Data Form	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Buffer Zone Map	<input type="checkbox"/>	<input type="checkbox"/>
Public Involvement Plan Form	<input type="checkbox"/>	<input type="checkbox"/>	Flow Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Site Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Technical Report 1.1	<input type="checkbox"/>	<input type="checkbox"/>	Original Photographs	<input type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.0	<input type="checkbox"/>	<input type="checkbox"/>	Design Calculations	<input type="checkbox"/>	<input type="checkbox"/>
Worksheet 2.1	<input type="checkbox"/>	<input type="checkbox"/>	Solids Management Plan	<input type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water Balance	<input type="checkbox"/>	<input type="checkbox"/>
Worksheet 3.1	<input type="checkbox"/>	<input type="checkbox"/>			
Worksheet 3.2	<input type="checkbox"/>	<input type="checkbox"/>			
Worksheet 3.3	<input type="checkbox"/>	<input type="checkbox"/>			
Worksheet 4.0	<input type="checkbox"/>	<input type="checkbox"/>			
Worksheet 5.0	<input type="checkbox"/>	<input type="checkbox"/>			
Worksheet 6.0	<input type="checkbox"/>	<input type="checkbox"/>			
Worksheet 7.0	<input type="checkbox"/>	<input type="checkbox"/>			

For TCEQ Use Only

Segment Number \_\_\_\_\_ County \_\_\_\_\_  
Expiration Date \_\_\_\_\_ Region \_\_\_\_\_  
Permit Number \_\_\_\_\_



If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

## Section 1. Application Fees (Instructions Page 29)

**Indicate the amount submitted for the application fee (check only one).**

Flow	New/Major Amendment	Renewal
<0.05 MGD	\$350.00 <input type="checkbox"/>	\$315.00 <input type="checkbox"/>
≥0.05 but <0.10 MGD	\$550.00 <input type="checkbox"/>	\$515.00 <input type="checkbox"/>
≥0.10 but <0.25 MGD	\$850.00 <input type="checkbox"/>	\$815.00 <input type="checkbox"/>
≥0.25 but <0.50 MGD	\$1,250.00 <input type="checkbox"/>	\$1,215.00 <input type="checkbox"/>
≥0.50 but <1.0 MGD	\$1,650.00 <input type="checkbox"/>	\$1,615.00 <input checked="" type="checkbox"/>
≥1.0 MGD	\$2,050.00 <input type="checkbox"/>	\$2,015.00 <input type="checkbox"/>

Minor Amendment (for any flow) \$150.00 ☐**Payment Information:**

Mailed      Check/Money Order Number: 329313  
Check/Money Order Amount: \$1,065.00  
Name Printed on Check: DE Corp.

EPAY Voucher Number: [Click here to enter text](#)

Copy of Payment Voucher enclosed? Yes ☐

## Section 2. Type of Application (Instructions Page 29)

- |   |   |
|---|---|
| <input type="checkbox"/> New TPDES                              | <input type="checkbox"/> New TLAP                                       |
| <input type="checkbox"/> Major Amendment <u>with</u> Renewal    | <input checked="" type="checkbox"/> Minor Amendment <u>with</u> Renewal |
| <input type="checkbox"/> Major Amendment <u>without</u> Renewal | <input type="checkbox"/> Minor Amendment <u>without</u> Renewal         |
| <input type="checkbox"/> Renewal without changes                | <input type="checkbox"/> Minor Modification of permit                   |

For amendments or modifications, describe the proposed changes: add 0.160 MGD flow phase

**For existing permits:**

Permit Number: WQ0014649001

EPA I.D. (TPDES only): TX

Expiration Date: December 1, 2024

### Section 3. Facility Owner (Applicant) and Co-Applciant Information (Instructions Page 29)

**A. The owner of the facility must apply for the permit.**

What is the Legal Name of the entity (applicant) applying for this permit?

Arbor Way, Inc.

*(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)*

If the applicant is currently a customer with the TCEQ, what is the Customer Number (CN)?  
You may search for your CN on the TCEQ website at <http://www15.tceq.texas.gov/crpub/>

CN: 603257957

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Ralph Thomas

Credential (P.E, P.G., Ph.D., etc.):

Title: President

**B. Co-applciant information.** Complete this section only if another person or entity is required to apply as a co-permittee.

What is the Legal Name of the co-applciant applying for this permit?

N/A

*(The legal name must be spelled exactly as filed with the TX SOS, with the County, or in the legal documents forming the entity.)*

If the co-applciant is currently a customer with the TCEQ, what is the Customer Number (CN)? You may search for your CN on the TCEQ website at:  
<http://www15.tceq.texas.gov/crpub/>

CN:

What is the name and title of the person signing the application? The person must be an executive official meeting signatory requirements in 30 TAC § 305.44.

Prefix (Mr., Ms., Miss):

First and Last Name:

Credential (P.E, P.G., Ph.D., etc.):

Title:

Provide a brief description of the need for a co-permittee:

### C. Core Data Form

Complete the Core Data Form for each customer and include as an attachment. If the customer type selected on the Core Data Form is **Individual**, complete **Attachment 1** of Administrative Report 1.0.

**Attachment:** N/A

## Section 4. Application Contact Information (Instructions Page 30)

This is the person(s) TCEQ will contact if additional information is needed about this application. Provide a contact for administrative questions and technical questions.

A. Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Yvonne Rivera

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Project Manager

Organization Name: DE Corp.

Mailing Address: 3100 W Alabama St.

City, State, Zip Code: Houston, TX 77098

Phone No.: 713-520-9570 Ext.:  Fax No.:

E-mail Address: yvonne.rivera@decorp.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix (Mr., Ms., Miss):

First and Last Name:

Credential (P.E, P.G., Ph.D., etc.):

Title:

Organization Name:

Mailing Address:

City, State, Zip Code:

Phone No.:  Ext.:  Fax No.:

E-mail Address:

Check one or both: ☐ Administrative Contact ☐ Technical Contact

## Section 5. Permit Contact Information (Instructions Page 30)

Provide two names of individuals that can be contacted throughout the permit term.

A. Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Yvonne Rivera

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Project Manager

Organization Name: DE Corp.

Mailing Address: 3100 W Alabama St.

City, State, Zip Code: Houston, TX 77098

Phone No.: 713-520-9570 Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: yvonne.rivera@decorp.com

**B.** Prefix (Mr., Ms., Miss): [REDACTED]

First and Last Name: [REDACTED]

Credential (P.E, P.G., Ph.D., etc.): [REDACTED]

Title: [REDACTED]

Organization Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] Ext.: [REDACTED] Fax No.: [REDACTED]

E-mail Address: [REDACTED]

## Section 6. Billing Information (Instructions Page 30)

The permittee is responsible for paying the annual fee. The annual fee will be assessed to permits ***in effect on September 1 of each year***. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (using form TCEQ-20029).

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Ralph Thomas

Credential (P.E, P.G., Ph.D., etc.): [REDACTED]

Title: President

Organization Name: Arbor Way, Inc.

Mailing Address: 202 Arborway Court

City, State, Zip Code: Houston, TX 77057

Phone No.: 713-542-6159 Ext.: [REDACTED] Fax No.:

E-mail Address: Ralph@rthomastx.com

## Section 7. DMR/MER Contact Information (Instructions Page 31)

Provide the name and complete mailing address of the person delegated to receive and submit Discharge Monitoring Reports (EPA 3320-1) or maintain Monthly Effluent Reports.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: Ralph Thomas

Credential (P.E, P.G., Ph.D., etc.):

Title: President

Organization Name: Arbor Way, Inc.

Mailing Address: 202 Arborway Court

City, State, Zip Code: Houston, TX 77057

Phone No.: 713-542-6159 Ext.:

Fax No.:

E-mail Address: Ralph@rthomastx.com

DMR data is required to be submitted electronically. Create an account at:

<https://www.tceq.texas.gov/permitting/netdmr/netdmr.html>.

## Section 8. Public Notice Information (Instructions Page 31)

### A. Individual Publishing the Notices

Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Yvonne Rivera

Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Project Manager

Organization Name: DE Corp.

Mailing Address: 3100 W Alabama St.

City, State, Zip Code: Houston, TX 77098

Phone No.: 713-520-9570 Ext.:

Fax No.:

E-mail Address: yvonne.rivera@decorp.com

### B. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package

Indicate by a check mark the preferred method for receiving the first notice and instructions:

☒ E-mail Address

☐ Fax

☐ Regular Mail

### C. Contact person to be listed in the Notices

Prefix (Mr., Ms., Miss): Ms.

First and Last Name: Yvonne Rivera



Credential (P.E, P.G., Ph.D., etc.): P.E.

Title: Project Manager

Organization Name: DE Corp.

Phone No.: 713-520-9570 Ext.:

E-mail: yvonne.rivera@decorp.com

#### D. Public Viewing Information

*If the facility or outfall is located in more than one county, a public viewing place for each county must be provided.*

Public building name: Lake Travis Community Library

Location within the building:

Physical Address of Building: 1938 Lohmans Crossing

City: Austin

County: Travis

Contact Name: Morgan McMilliam

Phone No.: 512-263-2885 Ext.:

#### E. Bilingual Notice Requirements:

This information **is required** for **new, major amendment, minor amendment or minor modification, and renewal applications.**

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Please call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine whether an alternative language notices are required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

☒ Yes ☐ No

If **no**, publication of an alternative language notice is not required; **skip to** Section 9 below.

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

☐ Yes ☒ No

3. Do the students at these schools attend a bilingual education program at another location?

☒ Yes ☐ No

4. Would the school be required to provide a bilingual education program but the school has waived out of this requirement under 19 TAC §89.1205(g)?
- ☐ Yes      ☒ No
5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Spanish

## F. Public Involvement Plan Form

**Attachment:** N/A

- A.** If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN104790332

- B. Name of project or site (the name known by the community where located):**

- C. Owner of treatment facility: Arbor Way, Inc.

- D. Owner of land where treatment facility is or will be:**

First and Last Name: Arbor Way, Inc.

Mailing Address: 202 Arborway Court

City, State, Zip Code: Houston, TX 77057

Phone No.: 713-542-6159

E-mail Address: [Ralph@rthomastx.com](mailto:Ralph@rthomastx.com)

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

- E. Owner of effluent disposal site:

First and Last Name: Lakecliff on Lake Travis, L.P.

Mailing Address: 111 Clubland Court

City, State, Zip Code: Spicewood, TX 78669

Phone No.: [REDACTED] E-mail Address: [REDACTED]

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

**Attachment:** See Attachment 1

- F. Owner of sewage sludge disposal site (if authorization is requested for sludge disposal on property owned or controlled by the applicant):

Prefix (Mr., Ms., Miss): N/A

First and Last Name: [REDACTED]

Mailing Address: [REDACTED]

City, State, Zip Code: [REDACTED]

Phone No.: [REDACTED] E-mail Address: [REDACTED]

If the landowner is not the same person as the facility owner or co-applicant, attach a lease agreement or deed recorded easement. See instructions.

**Attachment:** [REDACTED]

## Section 10. TPDES Discharge Information (Instructions Page 34)

- A. Is the wastewater treatment facility location in the existing permit accurate?

☐ Yes ☐ No

If **no**, or a new permit application, please give an accurate description:

[REDACTED]

- B. Are the point(s) of discharge and the discharge route(s) in the existing permit correct?

☐ Yes ☐ No

If **no**, or a new or amendment permit application, provide an accurate description of the point of discharge and the discharge route to the nearest classified segment as defined in 30 TAC Chapter 307:

[REDACTED]

City nearest the outfall(s): [REDACTED]

County in which the outfalls(s) is/are located: [REDACTED]

Outfall Latitude: [REDACTED] Longitude: [REDACTED]

- C. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☐ No

If **yes**, indicate by a check mark if:

☐ Authorization granted ☐ Authorization pending

For **new and amendment** applications, provide copies of letters that show proof of contact and the approval letter upon receipt.

**Attachment:**

- D. For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge.

## Section 11. TLAP Disposal Information (Instructions Page 36)

- A. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☒ Yes ☐ No

If **no, or a new or amendment permit application**, provide an accurate description of the disposal site location:

- B. City nearest the disposal site: Spicewood
- C. County in which the disposal site is located: Travis
- D. Disposal Site Latitude: 30deg 27' 01" N Longitude: 98deg 04" 31" W
- E. For **TLAPs**, describe the routing of effluent from the treatment facility to the disposal site:

From the Wastewater Treatment Facility via underground pipe to the Golf Course Holding Ponds

- F. For **TLAPs**, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained:

Segment 1404 of the Colorado River Basin

## Section 12. Miscellaneous Information (Instructions Page 37)

- A. Is the facility located on or does the treated effluent cross American Indian Land?

☐ Yes ☒ No

- B. If the existing permit contains an onsite sludge disposal authorization, is the location of the sewage sludge disposal site in the existing permit accurate?

☒ Yes ☐ No ☐ Not Applicable

If No, or if a new onsite sludge disposal authorization is being requested in this permit application, provide an accurate location description of the sewage sludge disposal site.

- C. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person formerly employed by the TCEQ who represented your company and was paid for service regarding the application:

- D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If **yes**, provide the following information:

Account number:

Amount past due:

- E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If **yes**, please provide the following information:

Enforcement order number:

Amount past due:

## Section 13. Attachments (Instructions Page 38)

Indicate which attachments are included with the Administrative Report. Check all that apply:

- ☒ Lease agreement or deed recorded easement, if the land where the treatment facility is located or the effluent disposal site are not owned by the applicant or co-applicant.
- ☒ Original full-size USGS Topographic Map with the following information:
- Applicant's property boundary

- Treatment facility boundary
  - Labeled point of discharge for each discharge point (TPDES only)
  - Highlighted discharge route for each discharge point (TPDES only)
  - Onsite sewage sludge disposal site (if applicable)
  - Effluent disposal site boundaries (TLAP only)
  - New and future construction (if applicable)
  - 1 mile radius information
  - 3 miles downstream information (TPDES only)
  - All ponds.
- ☐ Attachment 1 for Individuals as co-applicants
- ☐ Other Attachments. Please specify: Link here to attachments

## Section 14. Signature Page (Instructions Page 39)

*If co-applicants are necessary, each entity must submit an original, separate signature page.*

Permit Number: WQ0014649001

Applicant: Areté Thomas Ranch Holdings, LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code § 305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed):

Signatory title:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

(Use blue ink)

Subscribed and Sworn to before me by the said \_\_\_\_\_

on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

My commission expires on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
Notary Public

[SEAL]

\_\_\_\_\_  
County, Texas



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

#### Plain Language Summary Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

Applicants should use this template to develop a plain language summary as required by [Title 30, Texas Administrative Code \(30 TAC\), Chapter 39, Subchapter H](#). Applicants may modify the template as necessary to accurately describe their facility as long as the summary includes the following information: (1) the function of the proposed plant or facility; (2) the expected output of the proposed plant or facility; (3) the expected pollutants that may be emitted or discharged by the proposed plant or facility; and (4) how the applicant will control those pollutants, so that the proposed plant will not have an adverse impact on human health or the environment.

Fill in the highlighted areas below to describe your facility and application in plain language. Instructions and examples are provided below. Make any other edits necessary to improve readability or grammar and to comply with the rule requirements.

If you are subject to the alternative language notice requirements in [30 TAC Section 39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package**. For your convenience, a Spanish template has been provided below.

#### ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER

*The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.*

Arbor Way, Inc. (CN: 603257957) proposes to operate Two Rivers Wastewater Treatment Plant (RN: 104790332), a wastewater treatment facility. The facility will be located at approximately 1,200-feet northwest of the intersection of Haynie Flat Road and Travis Lakeside Drive, in Spicewood, Travis County, Texas 78669. Permit renewal with minor amendment to add 0.160 MGD flow phase. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain five-day biological oxygen demand (BOD5), total suspended solids (TSS), and *Escherichia coli*. Domestic wastewater will be treated by an activated sludge process plant and the treatment units include a bar screen, digester, aeration basin, clarifier, and chlorine contact basin.



**PLANTILLA EN ESPAÑOL PARA SOLICITUDES NUEVAS/RENOVACIONES/ENMIENDAS DE  
TPDES o TLAP**

**AGUAS RESIDUALES** Introduzca 'INDUSTRIALES' o 'DOMÉSTICAS' aquí /**AGUAS PLUVIALES**

*El siguiente resumen se proporciona para esta solicitud de permiso de calidad del agua pendiente que está siendo revisada por la Comisión de Calidad Ambiental de Texas según lo requerido por el Capítulo 39 del Código Administrativo de Texas 30. La información proporcionada en este resumen puede cambiar durante la revisión técnica de la solicitud y no es una representación ejecutiva fedérale de la solicitud de permiso.*

Arbor way, Inc (CN: 603257957) propone operar la Planta de Tratamiento de Aguas Residuales Two Rivers RN: 104790332, una instalacion de tratamiento de aguas residuales. La instalación estará ubicada en aproximadamente a 1,200 pies al noroeste de la interseccion de Haynie Flat Road y Travis Lakeside Drive, en Spicewood, Condado de Travis, Texas 78669. Renovación del permiso con enmienda menor para agregar una fase de flujo de 0.160 MGD. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan demanda biologica de oxigeno de cinco dias (BOD5), solidos suspendidos totales (TSS), y Escherichia coli . Aguas residuales domesticas. estará tratado por una planta de proceso de lodos activados y las unidades de tratamiento incluyen criba de barras, digestor, balsa de aireación, clarificador y balsa de contacto de cloro.

## DOMESTIC ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

### Section 1. Affected Landowner Information (Instructions Page 41)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☐ The applicant's property boundaries
  - ☐ The facility site boundaries within the applicant's property boundaries
  - ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
  - ☐ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
  - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
  - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
  - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
  - ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
  - ☐ The property boundaries of all landowners surrounding the effluent disposal site
  - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
  - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☐ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive      ☐ Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses:
- 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 44)

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 44)

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

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

### FOR AGENCIES REVIEWING DOMESTIC TPDES WASTEWATER PERMIT APPLICATIONS

#### TCEQ USE ONLY:

Application type: \_\_\_\_Renewal \_\_\_\_Major Amendment \_\_\_\_Minor Amendment \_\_\_\_New

County: \_\_\_\_\_ Segment Number: \_\_\_\_\_

Admin Complete Date: \_\_\_\_\_

#### Agency Receiving SPIF:

\_\_\_\_ Texas Historical Commission

\_\_\_\_ U.S. Fish and Wildlife

\_\_\_\_ Texas Parks and Wildlife Department

\_\_\_\_ U.S. Army Corps of Engineers

#### **This form applies to TPDES permit applications only.** (Instructions, Page 53)

The SPIF must be completed as a separate document. The TCEQ will mail a copy of the SPIF to each agency as required by the TCEQ agreement with EPA. If any of the items are not completely addressed or further information is needed, you will be contacted to provide the information before the permit is issued. Each item must be completely addressed.

**Do not refer to a response of any item in the permit application form.** Each attachment must be provided with this form separately from the administrative report of the application. The application will not be declared administratively complete without this form being completed in its entirety including all attachments.

The following applies to all applications:

1. Permittee: \_\_\_\_\_

Permit No. WQ00 \_\_\_\_\_

EPA ID No. TX \_\_\_\_\_

Address of the project (or a location description that includes street/highway, city/vicinity, and county):

\_\_\_\_\_

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss):

First and Last Name:

Credential (P.E, P.G., Ph.D., etc.):

Title:

Mailing Address:

City, State, Zip Code:

Phone No.:  Ext.:  Fax No.:

E-mail Address:

2. List the county in which the facility is located:
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

- ☐ Proposed access roads, utility lines, construction easements
- ☐ Visual effects that could damage or detract from a historic property's integrity
- ☐ Vibration effects during construction or as a result of project design
- ☐ Additional phases of development that are planned for the future

☐ Sealing caves, fractures, sinkholes, other karst features

☐ Disturbance of vegetation or wetlands

6. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

7. Describe existing disturbances, vegetation, and land use:

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

8. List construction dates of all buildings and structures on the property:

9. Provide a brief history of the property, and name of the architect/builder, if known.

# WATER QUALITY PERMIT

## PAYMENT SUBMITTAL FORM

**Use this form to submit the Application Fee, if the mailing the payment.**

- Complete items 1 through 5 below.
- Staple the check or money order in the space provided at the bottom of this document.
- **Do not mail this form with the application form.**
- Do not mail this form to the same address as the application.
- Do not submit a copy of the application with this form as it could cause duplicate permit entries.

**Mail this form and the check or money order to:**

*BY REGULAR U.S. MAIL*

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
P.O. Box 13088  
Austin, Texas 78711-3088

*BY OVERNIGHT/EXPRESS MAIL*

Texas Commission on Environmental Quality  
Financial Administration Division  
Cashier's Office, MC-214  
12100 Park 35 Circle  
Austin, Texas 78753

**Fee Code: WQP      Waste Permit No: WQ0014649001**

1. Check or Money Order Number: 329313
2. Check or Money Order Amount: \$1,065.00
3. Date of Check or Money Order: 02/29/24
4. Name on Check or Money Order: DE Corp.
5. APPLICATION INFORMATION

Name of Project or Site: Two Rivers Wastewater Treatment Plant

Physical Address of Project or Site:

If the check is for more than one application, attach a list which includes the name of each Project or Site (RE) and Physical Address, exactly as provided on the application.

**Staple Check or Money Order in This Space**

THIS PAGE INTENTIONALLY LEFT BLANK



## ATTACHMENT 1

### INDIVIDUAL INFORMATION

---

#### **Section 1. Individual Information (Instructions Page 50)**

Complete this attachment if the facility applicant or co-applicant is an individual. Make additional copies of this attachment if both are individuals.

Prefix (Mr., Ms., Miss):

Full legal name (first, middle, last):

Driver's License or State Identification Number:

Date of Birth:

Mailing Address:

City, State, and Zip Code:

Phone Number:  Fax Number:

E-mail Address:

CN:

#### **For Commission Use Only:**

Customer Number:

Regulated Entity Number:

Permit Number:

## CHECKLIST OF COMMON DEFICIENCIES

Below is a list of common deficiencies found during the administrative review of domestic wastewater permit applications. To ensure the timely processing of this application, please review the items below and indicate by checking Yes that each item is complete and in accordance applicable rules at 30 TAC Chapters 21, 281, and 305. If an item is not required this application, indicate by checking N/A where appropriate. Please do not submit the application until the items below have been addressed.

Core Data Form (TCEQ Form No. 10400) ☐ Yes  
*(Required for all applications types. Must be completed in its entirety and signed.  
 Note: Form may be signed by applicant representative.)*

Correct and Current Industrial Wastewater Permit Application Forms ☐ Yes  
*(TCEQ Form Nos. 10053 and 10054. Version dated 6/25/2018 or later.)*

Water Quality Permit Payment Submittal Form (Page 19) ☐ Yes  
*(Original payment sent to TCEQ Revenue Section. See instructions for mailing address.)*

7.5 Minute USGS Quadrangle Topographic Map Attached ☐ Yes  
*(Full-size map if seeking "New" permit.  
 8 ½ x 11 acceptable for Renewals and Amendments)*

Current/Non-Expired, Executed Lease Agreement or Easement Attached ☐ N/A ☐ Yes

Landowners Map ☐ N/A ☐ Yes  
*(See instructions for landowner requirements)*

### **Things to Know:**

- All the items shown on the map must be labeled.
- The applicant's complete property boundaries must be delineated which includes boundaries of contiguous property owned by the applicant.
- The applicant cannot be its own adjacent landowner. You must identify the landowners immediately adjacent to their property, regardless of how far they are from the actual facility.
- If the applicant's property is adjacent to a road, creek, or stream, the landowners on the opposite side must be identified. Although the properties are not adjacent to applicant's property boundary, they are considered potentially affected landowners. If the adjacent road is a divided highway as identified on the USGS topographic map, the applicant does not have to identify the landowners on the opposite side of the highway.

Landowners Cross Reference List ☐ N/A ☐ Yes  
*(See instructions for landowner requirements)*

Landowners Labels or USB Drive attached ☐ N/A ☐ Yes  
*(See instructions for landowner requirements)*

Original signature per 30 TAC § 305.44 – Blue Ink Preferred ☐ Yes  
*(If signature page is not signed by an elected official or principle executive officer,  
 a copy of signature authority/delegation letter must be attached)*



# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

## DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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For any questions about this form, please contact the Domestic Wastewater Permitting Team at 512-239-4671.

The following information is required for all renewal, new, and amendment applications.

### Section 1. Permitted or Proposed Flows (Instructions Page 43)

#### A. Existing/Interim I Phase

Design Flow (MGD): 0.16

2-Hr Peak Flow (MGD): 0.64

Estimated construction start date: to be determined

Estimated waste disposal start date: Click to enter text.

#### B. Interim II Phase

Design Flow (MGD): N/A - There is no Interim II Phase

2-Hr Peak Flow (MGD): Click to enter text.

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

#### C. Final Phase

Design Flow (MGD): 0.32

2-Hr Peak Flow (MGD): 1.28

Estimated construction start date: to be determined

Estimated waste disposal start date: Click to enter text.

#### D. Current Operating Phase

Provide the startup date of the facility: to be determined

### Section 2. Treatment Process (Instructions Page 43)

#### A. Current Operating Phase

Provide a detailed description of the treatment process. **Include the type of treatment plant, mode of operation, and all treatment units.** Start with the plant's head works and

finish with the point of discharge. Include all sludge processing and drying units. **If more than one phase exists or is proposed, a description of *each phase* must be provided.**

See previous application

## B. Treatment Units

In Table 1.0(1), provide the treatment unit type, the number of units, and dimensions (length, width, depth) of **each treatment unit, accounting for *all* phases of operation.**

**Table 1.0(1) - Treatment Units**

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
See Attachment 3		

## C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.

**Attachment: 4**

## Section 3. Site Information and Drawing (Instructions Page 44)

Provide the TPDES discharge outfall latitude and longitude. Enter N/A if not applicable.

- Latitude: [Click to enter text.](#)
- Longitude: [Click to enter text.](#)

Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: [Click to enter text.](#)
- Longitude: [Click to enter text.](#)

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: 5**

Provide the name **and** a description of the area served by the treatment facility.

Travis County Improvement District No. 1. A 1,250-acre single family residential development

Collection System Information **for wastewater TPDES permits only**: Provide information for each **uniquely owned** collection system, existing and new, served by this facility, including satellite collection systems. **Please see the instructions for a detailed explanation and examples.**

**Collection System Information**

Collection System Name	Owner Name	Owner Type	Population Served
		Choose an item.	
		Choose an item.	
		Choose an item.	
		Choose an item.	

## Section 4. Unbuilt Phases (Instructions Page 45)

Is the application for a renewal of a permit that contains an unbuilt phase or phases?

☒ Yes ☐ No

**If yes**, does the existing permit contain a phase that has not been constructed **within five years** of being authorized by the TCEQ?

☒ Yes ☐ No

**If yes**, provide a detailed discussion regarding the continued need for the unbuilt phase. **Failure to provide sufficient justification may result in the Executive Director recommending denial of the unbuilt phase or phases.**

To provide water and wastewater service to property owners within the District.

## Section 5. Closure Plans (Instructions Page 45)

Have any treatment units been taken out of service permanently, or will any units be taken out of service in the next five years?

☐ Yes ☒ No

If **yes**, was a closure plan submitted to the TCEQ?

☐ Yes ☐ No

If **yes**, provide a brief description of the closure and the date of plan approval.

[Click to enter text.](#)

## Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit.

### A. Summary transmittal

Have plans and specifications been approved for the existing facilities and each proposed phase?

☐ Yes ☒ No

If **yes**, provide the date(s) of approval for each phase: [Click to enter text.](#)

Provide information, including dates, on any actions taken to meet a *requirement or provision* pertaining to the submission of a summary transmittal letter. **Provide a copy of an approval letter from the TCEQ, if applicable.**

[Click to enter text.](#)

### B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

Provide information below, including dates, on any actions taken to meet the conditions of the buffer zone. If available, provide any new documentation relevant to maintaining the buffer zones.

[Click to enter text.](#)

### C. Other actions required by the current permit

Does the *Other Requirements* or *Special Provisions* section in the existing permit require submission of any other information or other required actions? Examples include Notification of Completion, progress reports, soil monitoring data, etc.

☐ Yes ☒ No

If **yes**, provide information below on the status of any actions taken to meet the conditions of an *Other Requirement* or *Special Provision*.

Click to enter text.

#### D. Grit and grease treatment

##### 1. *Acceptance of grit and grease waste*

Does the facility have a grit and/or grease processing facility onsite that treats and decants or accepts transported loads of grit and grease waste that are discharged directly to the wastewater treatment plant prior to any treatment?

☐ Yes ☒ No

If **No**, stop here and continue with Subsection E. Stormwater Management.

##### 2. *Grit and grease processing*

Describe below how the grit and grease waste is treated at the facility. In your description, include how and where the grit and grease is introduced to the treatment works and how it is separated or processed. Provide a flow diagram showing how grit and grease is processed at the facility.

Click to enter text.

##### 3. *Grit disposal*

Does the facility have a Municipal Solid Waste (MSW) registration or permit for grit disposal?

☐ Yes ☐ No

If **No**, contact the TCEQ Municipal Solid Waste team at 512-239-2335. Note: A registration or permit is required for grit disposal. Grit shall not be combined with treatment plant sludge. See the instruction booklet for additional information on grit disposal requirements and restrictions.

Describe the method of grit disposal.

Click to enter text.

#### 4. *Grease and decanted liquid disposal*

Note: A registration or permit is required for grease disposal. Grease shall not be combined with treatment plant sludge. For more information, contact the TCEQ Municipal Solid Waste team at 512-239-2335.

Describe how the decant and grease are treated and disposed of after grit separation.

Click to enter text.

### E. Stormwater management

#### 1. *Applicability*

Does the facility have a design flow of 1.0 MGD or greater in any phase?

☐ Yes ☒ No

Does the facility have an approved pretreatment program, under 40 CFR Part 403?

☐ Yes ☒ No

If **no to both of the above**, then skip to Subsection F, Other Wastes Received.

#### 2. *MSGP coverage*

Is the stormwater runoff from the WWTP and dedicated lands for sewage disposal currently permitted under the TPDES Multi-Sector General Permit (MSGP), TXR050000?

☐ Yes ☐ No

If **yes**, please provide MSGP Authorization Number and skip to Subsection F, Other Wastes Received:

TXR05 Click to enter text. or TXRNE Click to enter text.

If **no**, do you intend to seek coverage under TXR050000?

☐ Yes ☐ No

#### 3. *Conditional exclusion*

Alternatively, do you intend to apply for a conditional exclusion from permitting based TXR050000 (Multi Sector General Permit) Part II B.2 or TXR050000 (Multi Sector General Permit) Part V, Sector T 3(b)?

☐ Yes ☐ No

If **yes**, please explain below then proceed to Subsection F, Other Wastes Received:



Click to enter text.

**4. Existing coverage in individual permit**

Is your stormwater discharge currently permitted through this individual TPDES or TLAP permit?

☐ Yes ☐ No

**If yes**, provide a description of stormwater runoff management practices at the site that are authorized in the wastewater permit then skip to Subsection F, Other Wastes Received.

Click to enter text.

**5. Zero stormwater discharge**

Do you intend to have no discharge of stormwater via use of evaporation or other means?

☐ Yes ☐ No

**If yes**, explain below then skip to Subsection F. Other Wastes Received.

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

**6. Request for coverage in individual permit**

Are you requesting coverage of stormwater discharges associated with your treatment plant under this individual permit?

☐ Yes ☐ No

**If yes**, provide a description of stormwater runoff management practices at the site for which you are requesting authorization in this individual wastewater permit and describe whether you intend to comingle this discharge with your treated effluent or discharge it via a separate dedicated stormwater outfall. Please also indicate if you intend to divert stormwater to the treatment plant headworks and indirectly discharge it to water in the state.

Click to enter text.

Note: Direct stormwater discharges to waters in the state authorized through this individual permit will require the development and implementation of a stormwater pollution prevention plan (SWPPP) and will be subject to additional monitoring and reporting requirements. Indirect discharges of stormwater via headworks recycling will require compliance with all individual permit requirements including 2-hour peak flow limitations. All stormwater discharge authorization requests will require additional information during the technical review of your application.

#### F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If yes, attach a Sewage Sludge Solids Management Plan. See Example 5 in the instructions.

Click to enter text.

#### G. Other wastes received including sludge from other WWTPs and septic waste

##### 1. Acceptance of sludge from other WWTPs

Does or will the facility accept sludge from other treatment plants at the facility site?

☐ Yes ☒ No

**If yes, attach sewage sludge solids management plan. See Example 5 of the 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<sub>5</sub> concentration of the sludge, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

##### 2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

**If yes, does the facility have a Type V processing unit?**

☐ Yes ☐ No

**If yes, does the unit have a Municipal Solid Waste permit?**

☐ Yes ☐ No

If **yes to any of the above**, provide the date the plant started or is anticipated to start accepting septic waste, an estimate of monthly septic waste acceptance (gallons or millions of gallons), an estimate of the BOD<sub>5</sub> concentration of the septic waste, and the design BOD<sub>5</sub> concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

Note: Permits that accept sludge from other wastewater treatment plants may be required to have influent flow and organic loading monitoring.

**3. Acceptance of other wastes (not including septic, grease, grit, or RCRA, CERCLA or as discharged by IUs listed in Worksheet 6)**

Is or will the facility accept wastes that are not domestic in nature excluding the categories listed above?

☐ Yes ☒ No

If **yes**, provide the date that the plant started accepting the waste, an estimate how much waste is accepted on a monthly basis (gallons or millions of gallons), a description of the entities generating the waste, and any distinguishing chemical or other physical characteristic of the waste. Also note if this information has or has not changed since the last permit action.

Click to enter text.

## Section 7. Pollutant Analysis of Treated Effluent (Instructions Page 50)

Is the facility in operation?

☐ Yes ☒ No

If **no**, this section is not applicable. Proceed to Section 8.

If **yes**, provide effluent analysis data for the listed pollutants. **Wastewater treatment facilities** complete Table 1.0(2). **Water treatment facilities** discharging filter backwash water, complete Table 1.0(3). Provide copies of the laboratory results sheets. **These tables are not applicable for a minor amendment without renewal.** See the instructions for guidance.

Note: The sample date must be within 1 year of application submission.

**Table 1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities**

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD <sub>5</sub> , 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					
<i>E.coli</i> (CFU/100ml) freshwater					
Enterococci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, $\mu$ mohs/cm, †					
Oil & Grease, mg/l					
Alkalinity (CaCO <sub>3</sub> )*, 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 <sub>3</sub> ), mg/l					

## Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: to be determined

Facility Operator's License Classification and Level: Click to enter text.

Facility Operator's License Number: Click to enter text.

## Section 9. Sludge and Biosolids Management and Disposal (Instructions Page 51)

### A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

☐ Design flow  $\geq$  1 MGD

- ☐ Serves  $\geq 10,000$  people
- ☐ Class I Sludge Management Facility (per 40 CFR § 503.9)
- ☐ Biosolids generator
- ☐ Biosolids end user – land application (onsite)
- ☐ Biosolids end user – surface disposal (onsite)
- ☐ Biosolids end user – incinerator (onsite)

## B. WWTP's Biosolids Treatment Process

Check all that apply. See instructions for guidance.

- ☐ Aerobic Digestion
- ☐ Air Drying (or sludge drying beds)
- ☐ Lower Temperature Composting
- ☐ Lime Stabilization
- ☐ Higher Temperature Composting
- ☐ Heat Drying
- ☐ Thermophilic Aerobic Digestion
- ☐ Beta Ray Irradiation
- ☐ Gamma Ray Irradiation
- ☐ Pasteurization
- ☐ Preliminary Operation (e.g. grinding, de-gritting, blending)
- ☐ Thickening (e.g. gravity thickening, centrifugation, filter press, vacuum filter)
- ☐ Sludge Lagoon
- ☐ Temporary Storage ( $< 2$  years)
- ☐ Long Term Storage ( $\geq 2$  years)
- ☐ Methane or Biogas Recovery
- ☐ Other Treatment Process: [Click to enter text.](#)

## C. Biosolids Management

Provide information on the *intended* biosolids management practice. Do not enter every management practice that you want authorized in the permit, as the permit will authorize all biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

## Biosolids Management

Management Practice	Handler or Preparer Type	Bulk or Bag Container	Amount (dry metric tons)	Pathogen Reduction Options	Vector Attraction Reduction Option
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

If “Other” is selected for Management Practice, please explain (e.g. monofill or transport to another WWTP): [Click to enter text.](#)

### D. Disposal site

Disposal site name: [to be determined](#)

TCEQ permit or registration number: [Click to enter text.](#)

County where disposal site is located: [Click to enter text.](#)

### E. Transportation method

Method of transportation (truck, train, pipe, other): [truck](#)

Name of the hauler: [to be determined](#)

Hauler registration number: [Click to enter text.](#)

Sludge is transported as a:

Liquid ☐    semi-liquid ☐    semi-solid ☐    solid ☐

## Section 10. Permit Authorization for Sewage Sludge Disposal (Instructions Page 53)

### A. Beneficial use authorization

Does the existing permit include authorization for land application of sewage sludge for beneficial use?

☐ Yes ☒ No

If **yes**, are you requesting to continue this authorization to land apply sewage sludge for beneficial use?

☐ Yes ☐ No

If **yes**, is the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)** attached to this permit application (see the instructions for details)?

☐ Yes ☐ No

### B. Sludge processing authorization

Does the existing permit include authorization for any of the following sludge processing, storage or disposal options?

Sludge Composting	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Marketing and Distribution of sludge	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Sludge Surface Disposal or Sludge Monofill	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Temporary storage in sludge lagoons	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

If **yes** to any of the above sludge options and the applicant is requesting to continue this authorization, is the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)** attached to this permit application?

☐ Yes ☐ No

## Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

If yes, complete the remainder of this section. If no, proceed to Section 12.

### A. Location information

The following maps are required to be submitted as part of the application. For each map, provide the Attachment Number.

- Original General Highway (County) Map:  
**Attachment:** [Click to enter text.](#)
- USDA Natural Resources Conservation Service Soil Map:  
**Attachment:** [Click to enter text.](#)
- Federal Emergency Management Map:  
**Attachment:** [Click to enter text.](#)
- Site map:  
**Attachment:** [Click to enter text.](#)

Discuss in a description if any of the following exist within the lagoon area. Check all that apply.

- ☐ Overlap a designated 100-year frequency flood plain
- ☐ Soils with flooding classification
- ☐ Overlap an unstable area
- ☐ Wetlands
- ☐ Located less than 60 meters from a fault
- ☐ None of the above

**Attachment:** [Click to enter text.](#)

If a portion of the lagoon(s) is located within the 100-year frequency flood plain, provide the protective measures to be utilized including type and size of protective structures:

Click to enter text.

## B. Temporary storage information

Provide the results for the pollutant screening of sludge lagoons. These results are in addition to pollutant results in *Section 7 of Technical Report 1.0*.

Nitrate Nitrogen, mg/kg: [Click to enter text.](#)

Total Kjeldahl Nitrogen, mg/kg: [Click to enter text.](#)

Total Nitrogen (=nitrate nitrogen + TKN), mg/kg: [Click to enter text.](#)

Phosphorus, mg/kg: [Click to enter text.](#)

Potassium, mg/kg: [Click to enter text.](#)

pH, standard units: [Click to enter text.](#)

Ammonia Nitrogen mg/kg: [Click to enter text.](#)

Arsenic: [Click to enter text.](#)

Cadmium: [Click to enter text.](#)

Chromium: [Click to enter text.](#)

Copper: [Click to enter text.](#)

Lead: [Click to enter text.](#)

Mercury: [Click to enter text.](#)

Molybdenum: [Click to enter text.](#)

Nickel: [Click to enter text.](#)

Selenium: [Click to enter text.](#)

Zinc: [Click to enter text.](#)

Total PCBs: [Click to enter text.](#)

Provide the following information:

Volume and frequency of sludge to the lagoon(s): [Click to enter text.](#)

Total dry tons stored in the lagoons(s) per 365-day period: [Click to enter text.](#)

Total dry tons stored in the lagoons(s) over the life of the unit: [Click to enter text.](#)

## C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of  $1 \times 10^{-7}$  cm/sec?

☐ Yes ☐ No

If yes, describe the liner below. Please note that a liner is required.



[Click to enter text.](#)

#### D. Site development plan

Provide a detailed description of the methods used to deposit sludge in the lagoon(s):

[Click to enter text.](#)

Attach the following documents to the application.

- Plan view and cross-section of the sludge lagoon(s)  
**Attachment:** [Click to enter text.](#)
- Copy of the closure plan  
**Attachment:** [Click to enter text.](#)
- Copy of deed recordation for the site  
**Attachment:** [Click to enter text.](#)
- Size of the sludge lagoon(s) in surface acres and capacity in cubic feet and gallons  
**Attachment:** [Click to enter text.](#)
- Description of the method of controlling infiltration of groundwater and surface water from entering the site  
**Attachment:** [Click to enter text.](#)
- Procedures to prevent the occurrence of nuisance conditions  
**Attachment:** [Click to enter text.](#)

#### E. Groundwater monitoring

Is groundwater monitoring currently conducted at this site, or are any wells available for groundwater monitoring, or are groundwater monitoring data otherwise available for the sludge lagoon(s)?

☐ Yes ☐ No

If groundwater monitoring data are available, provide a copy. Provide a profile of soil types encountered down to the groundwater table and the depth to the shallowest groundwater as a separate attachment.

**Attachment:** [Click to enter text.](#)

## Section 12. Authorizations/Compliance/Enforcement (Instructions)

**A. Additional authorizations**

Does the permittee have additional authorizations for this facility, such as reuse authorization, sludge permit, etc?

☐ Yes ☒ No

If yes, provide the TCEQ authorization number and description of the authorization:

Click to enter text.

**B. Permittee enforcement status**

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

Is the permittee required to meet an implementation schedule for compliance or enforcement?

☐ Yes ☒ No

If yes to either question, provide a brief summary of the enforcement, the implementation schedule, and the current status:

Click to enter text.

**Section 13. RCRA/CERCLA Wastes (Instructions Page 55)**

**A. RCRA hazardous wastes**

Has the facility received in the past three years, does it currently receive, or will it receive RCRA hazardous waste?

☐ Yes ☒ No

**B. Remediation activity wastewater**

Has the facility received in the past three years, does it currently receive, or will it receive CERCLA wastewater, RCRA remediation/corrective action wastewater or other remediation activity wastewater?

☐ Yes ☒ No

**C. Details about wastes received**

If yes to either Subsection A or B above, provide detailed information concerning these wastes with the application.

**Attachment:** [Click to enter text.](#)

## Section 14. Laboratory Accreditation (Instructions Page 56)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:
  - periodically inspected by the TCEQ; or
  - located in another state and is accredited or inspected by that state; or
  - performing work for another company with a unit located in the same site; or
  - performing pro bono work for a governmental agency or charitable organization.
- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review 30 TAC Chapter 25 for specific requirements.

The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

### CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*.

Printed Name: Ralph Thomas

Title: President

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 57)

#### A. Justification of permit need

Provide a detailed discussion regarding the need for any phase(s) not currently permitted. Failure to provide sufficient justification may result in the Executive Director recommending denial of the proposed phase(s) or permit.

[Click to enter text.](#)

#### B. Regionalization of facilities

For additional guidance, please review [TCEQ's Regionalization Policy for Wastewater Treatment](#)<sup>1</sup>.

Provide the following information concerning the potential for regionalization of domestic wastewater treatment facilities:

##### 1. *Municipally incorporated areas*

If the applicant is a city, then Item 1 is not applicable. Proceed to Item 2 Utility CCN areas.

Is any portion of the proposed service area located in an incorporated city?

☐ Yes ☐ No ☐ Not Applicable

If yes, within the city limits of: [Click to enter text.](#)

If yes, attach correspondence from the city.

Attachment: [Click to enter text.](#)

If consent to provide service is available from the city, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the city versus the cost of the proposed facility or expansion attached.

Attachment: [Click to enter text.](#)

##### 2. *Utility CCN areas*

Is any portion of the proposed service area located inside another utility's CCN area?

☐ Yes ☐ No

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<sup>1</sup> <https://www.tceq.texas.gov/permitting/wastewater/tceq-regionalization-for-wastewater>

If **yes**, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the CCN facilities versus the cost of the proposed facility or expansion.

**Attachment:** [Click to enter text.](#)

### 3. *Nearby WWTPs or collection systems*

Are there any domestic permitted wastewater treatment facilities or collection systems located within a three-mile radius of the proposed facility?

☐ Yes ☐ No

If **yes**, attach a list of these facilities and collection systems that includes each permittee's name and permit number, and an area map showing the location of these facilities and collection systems.

**Attachment:** [Click to enter text.](#)

If **yes**, attach proof of mailing a request for service to each facility and collection system, the letters requesting service, and correspondence from each facility and collection system.

**Attachment:** [Click to enter text.](#)

If the facility or collection system agrees to provide service, attach a justification for the proposed facility and a cost analysis of expenditures that includes the cost of connecting to the facility or collection system versus the cost of the proposed facility or expansion.

**Attachment:** [Click to enter text.](#)

## Section 2. Proposed Organic Loading (Instructions Page 59)

Is this facility in operation?

☐ Yes ☐ No

If **no**, proceed to Item B, Proposed Organic Loading.

If **yes**, provide organic loading information in Item A, Current Organic Loading

### A. Current organic loading

Facility Design Flow (flow being requested in application): [Click to enter text.](#)

Average Influent Organic Strength or BOD<sub>5</sub> Concentration in mg/l: [Click to enter text.](#)

Average Influent Loading (lbs/day = total average flow X average BOD<sub>5</sub> conc. X 8.34): [Click to enter text.](#)

Provide the source of the average organic strength or BOD<sub>5</sub> concentration.

[Click to enter text.](#)

## B. Proposed organic loading

This table must be completed if this application is for a facility that is not in operation or if this application is to request an increased flow that will impact organic loading.

**Table 1.1(1) – Design Organic Loading**

Source	Total Average Flow (MGD)	Influent BOD <sub>5</sub> Concentration (mg/l)
Municipality		
Subdivision		
Trailer park – transient		
Mobile home park		
School with cafeteria and showers		
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory		
Motel		
Restaurant		
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources		
AVERAGE BOD <sub>5</sub> from all sources		

## Section 3. Proposed Effluent Quality and Disinfection (Instructions Page 59)

### A. Existing/Interim I Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

## B. Interim II Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

## C. Final Phase Design Effluent Quality

Biochemical Oxygen Demand (5-day), mg/l: [Click to enter text.](#)

Total Suspended Solids, mg/l: [Click to enter text.](#)

Ammonia Nitrogen, mg/l: [Click to enter text.](#)

Total Phosphorus, mg/l: [Click to enter text.](#)

Dissolved Oxygen, mg/l: [Click to enter text.](#)

Other: [Click to enter text.](#)

## D. Disinfection Method

Identify the proposed method of disinfection.

- ☐ Chlorine: [Click to enter text.](#) mg/l after [Click to enter text.](#) minutes detention time at peak flow

Dechlorination process: [Click to enter text.](#)

- ☐ Ultraviolet Light: [Click to enter text.](#) seconds contact time at peak flow
- ☐ Other: [Click to enter text.](#)

## Section 4. Design Calculations (Instructions Page 59)

Attach design calculations and plant features for each proposed phase. Example 4 of the instructions includes sample design calculations and plant features.

Attachment: [Click to enter text.](#)

## Section 5. Facility Site (Instructions Page 60)

### A. 100-year floodplain

Will the proposed facilities be located above the 100-year frequency flood level?

- ☐ Yes ☐ No

If **no**, describe measures used to protect the facility during a flood event. Include a site map showing the location of the treatment plant within the 100-year frequency flood level. If applicable, provide the size and types of protective structures.

[Click to enter text.](#)



Provide the source(s) used to determine 100-year frequency flood plain.

[Click to enter text.](#)

For a new or expansion of a facility, will a wetland or part of a wetland be filled?

☐ Yes ☐ No

If **yes**, has the applicant applied for a US Corps of Engineers 404 Dredge and Fill Permit?

☐ Yes ☐ No

If **yes**, provide the permit number: [Click to enter text.](#)

If **no**, provide the approximate date you anticipate submitting your application to the Corps: [Click to enter text.](#)

## B. Wind rose

Attach a wind rose: [Click to enter text.](#)

# Section 6. Permit Authorization for Sewage Sludge Disposal (Instructions Page 60)

## A. Beneficial use authorization

Are you requesting to include authorization to land apply sewage sludge for beneficial use on property located adjacent to the wastewater treatment facility under the wastewater permit?

☐ Yes ☐ No

If **yes**, attach the completed **Application for Permit for Beneficial Land Use of Sewage Sludge (TCEQ Form No. 10451)**: [Click to enter text.](#)

## B. Sludge processing authorization

Identify the sludge processing, storage or disposal options that will be conducted at the wastewater treatment facility:

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

If **any of the above**, sludge options are selected, attach the completed **Domestic Wastewater Permit Application: Sewage Sludge Technical Report (TCEQ Form No. 10056)**: [Click to enter text.](#)

# Section 7. Sewage Sludge Solids Management Plan (Instructions Page 61)

Attach a solids management plan to the application.

**Attachment:** [Click to enter text.](#)

The sewage sludge solids management plan must contain the following information:

- Treatment units and processes dimensions and capacities

- Solids generated at 100, 75, 50, and 25 percent of design flow
- Mixed liquor suspended solids operating range at design and projected actual flow
- Quantity of solids to be removed and a schedule for solids removal
- Identification and ownership of the ultimate sludge disposal site
- For facultative lagoons, design life calculations, monitoring well locations and depths, and the ultimate disposal method for the sludge from the facultative lagoon

An example of a sewage sludge solids management plan has been included as Example 5 of the instructions.

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

### Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☐ No

If **no**, proceed to Section 2. If **yes**, provide the following:

Owner of the drinking water supply: [Click to enter text.](#)

Distance and direction to the intake: [Click to enter text.](#)

Attach a USGS map that identifies the location of the intake.

**Attachment:** [Click to enter text.](#)

### Section 2. Discharge into Tidally Affected Waters (Instructions Page 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☐ No

If **no**, proceed to Section 3. If **yes**, complete the remainder of this section. If no, proceed to Section 3.

#### A. Receiving water outfall

Width of the receiving water at the outfall, in feet: [Click to enter text.](#)

#### B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from outfall(s).

[Click to enter text.](#)

#### C. Sea grasses

Are there any sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s).

[Click to enter text.](#)

### Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☐ Yes ☐ No

If **yes**, this Worksheet is complete.

If **no**, complete Sections 4 and 5 of this Worksheet.

### Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: [Click to enter text.](#)

#### A. Receiving water type

Identify the appropriate description of the receiving waters.

- ☐ Stream
- ☐ Freshwater Swamp or Marsh
- ☐ Lake or Pond

Surface area, in acres: [Click to enter text.](#)

Average depth of the entire water body, in feet: [Click to enter text.](#)

Average depth of water body within a 500-foot radius of discharge point, in feet:  
[Click to enter text.](#)

- ☐ Man-made Channel or Ditch
- ☐ Open Bay
- ☐ Tidal Stream, Bayou, or Marsh
- ☐ Other, specify: [Click to enter text.](#)

#### B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

- ☐ Intermittent - dry for at least one week during most years
- ☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses
- ☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

- ☐ USGS flow records
- ☐ Historical observation by adjacent landowners
- ☐ Personal observation
- ☐ Other, specify: [Click to enter text.](#)

### C. Downstream perennial confluences

List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point.

[Click to enter text.](#)

### D. Downstream characteristics

Do the receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.)?

☐ Yes ☐ No

If yes, discuss how.

[Click to enter text.](#)

### E. Normal dry weather characteristics

Provide general observations of the water body during normal dry weather conditions.

[Click to enter text.](#)

Date and time of observation: [Click to enter text.](#)

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

## Section 5. General Characteristics of the Waterbody (Instructions Page 66)

### A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities

☐ Urban runoff

☐ Upstream discharges

☐ Agricultural runoff

☐ Septic tanks

☐ Other(s), specify: [Click to enter text.](#)

## B. Waterbody uses

Observed or evidences of the following uses. Check all that apply.

- |  |  |
|--|--|
| <input type="checkbox"/> Livestock watering    | <input type="checkbox"/> Contact recreation                                      |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation                                  |
| <input type="checkbox"/> Fishing               | <input type="checkbox"/> Navigation  |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply                                 |
| <input type="checkbox"/> Park activities       | <input type="checkbox"/> Other(s), specify: <a href="#">Click to enter text.</a> |

## C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 2.1: STREAM PHYSICAL CHARACTERISTICS

Required for new applications, major facilities, and applications adding an outfall.

Worksheet 2.1 is not required for discharges to intermittent streams or discharges directly to (or within 300 feet of) a classified segment.

### Section 1. General Information (Instructions Page 66)

Date of study: [Click to enter text.](#) Time of study: [Click to enter text.](#)

Stream name: [Click to enter text.](#)

Location: [Click to enter text.](#)

Type of stream upstream of existing discharge or downstream of proposed discharge (check one).

☐ Perennial ☐ Intermittent with perennial pools

### Section 2. Data Collection (Instructions Page 66)

Number of stream bends that are well defined: [Click to enter text.](#)

Number of stream bends that are moderately defined: [Click to enter text.](#)

Number of stream bends that are poorly defined: [Click to enter text.](#)

Number of riffles: [Click to enter text.](#)

Evidence of flow fluctuations (check one):

☐ Minor ☐ moderate ☐ severe

Indicate the observed stream uses and if there is evidence of flow fluctuations or channel obstruction/modification.

[Click to enter text.](#)

## Stream transects

In the table below, provide the following information for each transect downstream of the existing or proposed discharges. Use a separate row for each transect.

**Table 2.1(1) - Stream Transect Records**

<b>Stream type at transect</b> Select riffle, run, glide, or pool. See Instructions, Definitions section.	<b>Transect location</b>	<b>Water surface width (ft)</b>	<b>Stream depths (ft)</b> at 4 to 10 points along each transect from the channel bed to the water surface. Separate the measurements with commas.
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			
<a href="#">Choose an item.</a>			

## Section 3. Summarize Measurements (Instructions Page 66)

Streambed slope of entire reach, from USGS map in feet/feet: [Click to enter text.](#)

Approximate drainage area above the most downstream transect (from USGS map or county highway map, in square miles): [Click to enter text.](#)

Length of stream evaluated, in feet: [Click to enter text.](#)

Number of lateral transects made: [Click to enter text.](#)

Average stream width, in feet: [Click to enter text.](#)

Average stream depth, in feet: [Click to enter text.](#)

Average stream velocity, in feet/second: [Click to enter text.](#)

Instantaneous stream flow, in cubic feet/second: [Click to enter text.](#)

Indicate flow measurement method (type of meter, floating chip timed over a fixed distance, etc.): [Click to enter text.](#)

Size of pools (large, small, moderate, none): [Click to enter text.](#)

Maximum pool depth, in feet: [Click to enter text.](#)



# DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

The following is required for renewal, new, and amendment permit applications.

## Section 1. Type of Disposal System (Instructions Page 68)

Identify the method of land disposal:

- |   |  |
|---|--|
| <input type="checkbox"/> Surface application  | <input type="checkbox"/> Subsurface application                |
| <input checked="" type="checkbox"/> Irrigation  | <input type="checkbox"/> Subsurface soils absorption           |
| <input type="checkbox"/> Drip irrigation system   | <input type="checkbox"/> Subsurface area drip dispersal system |
| <input type="checkbox"/> Evaporation  | <input type="checkbox"/> Evapotranspiration beds               |
| <input type="checkbox"/> Other (describe in detail): <a href="#">Click to enter text.</a> |  |

NOTE: All applicants without authorization or proposing new/amended subsurface disposal MUST complete and submit Worksheet 7.0.

For existing authorizations, provide Registration Number: [Click to enter text.](#)

## Section 2. Land Application Site(s) (Instructions Page 68)

In table 3.0(1), provide the requested information for the land application sites. Include the agricultural or cover crop type (wheat, cotton, alfalfa, bermuda grass, native grasses, etc.), land use (golf course, hayland, pastureland, park, row crop, etc.), irrigation area, amount of effluent applied, and whether or not the public has access to the area. Specify the amount of land area and the amount of effluent that will be allotted to each agricultural or cover crop, if more than one crop will be used.

**Table 3.0(1) – Land Application Site Crops**

Crop Type & Land Use	Irrigation Area (acres)	Effluent Application (GPD)	Public Access? Y/N
Golf Course, Bermuda, and Native Grasses	170	320,000	No

### Section 3. Storage and Evaporation Lagoons/Ponds (Instructions Page 68)

**Table 3.0(2) – Storage and Evaporation Ponds**

Pond Number	Surface Area (acres)	Storage Volume (acre-feet)	Dimensions	Liner Type
1	4.5	40.5	1070' x 850' x 9.5'	Synthetic
2	To be determined	Pond not built yet		
3	To be determined	Pond not built yet		
4	To be determined	Pond not built yet		

Attach a copy of a liner certification that was prepared, signed, and sealed by a Texas licensed professional engineer for each pond.

**Attachment:** [Click to enter text.](#)

### Section 4. Flood and Runoff Protection (Instructions Page 68)

Is the land application site within the 100-year frequency flood level?

☐ Yes ☒ No

If yes, describe how the site will be protected from inundation.

[Click to enter text.](#)

Provide the source used to determine the 100-year frequency flood level:

FEMA FIRM 48453C0180H, Revised September 26, 2008

Provide a description of tailwater controls and rainfall run-on controls used for the land application site.

The irrigation of the golf course will be maintained without runoff. Dams on the golf course property intercept runoff before it reaches Lake Travis.

## Section 5. Annual Cropping Plan (Instructions Page 68)

Attach an Annual Cropping Plan which includes a discussion of each of the following items. If not applicable, provide a detailed explanation indicating why. **Attachment:** 6

- Soils map with crops
- Cool and warm season plant species
- Crop yield goals
- Crop growing season
- Crop nutrient requirements
- Additional fertilizer requirements
- Minimum/maximum harvest height (for grass crops)
- Supplemental watering requirements
- Crop salt tolerances
- Harvesting method/number of harvests
- Justification for not removing existing vegetation to be irrigated

## Section 6. Well and Map Information (Instructions Page 69)

Attach a USGS map with the following information shown and labeled. If not applicable, provide a detailed explanation indicating why. **Attachment:** 2

- 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
548603	Domestic	Y	Choose an item.	
281349	Irrigation	Y	Choose an item.	
342767	Irrigation	Y	Choose an item.	
342864	Irrigation	Y	Choose an item.	
356159	Irrigation	Y	Choose an item.	

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
342763	Irrigation	Y	Choose an item.	
366269	Irrigation	Y	Choose an item.	
342868	Irrigation	Y	Choose an item.	
342870	Irrigation	Y	Choose an item.	
273402	Domestic	Y	Choose an item.	

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
121336	Domestic	Y	Choose an item.	
111526	Domestic	Y	Choose an item.	
369054		N	Plugged	
184974	Domestic	Y	Choose an item.	
			Choose an item.	

If water quality data or well log information is available please include the information in an attachment listed by Well ID.

**Attachment:** [Click to enter text.](#)

## Section 7. Groundwater Quality (Instructions Page 69)

Attach a Groundwater Quality Technical Report which assesses the impact of the wastewater disposal system on groundwater. This report shall include an evaluation of the water wells (including the information in the well table provided in Item 6. above), the wastewater application rate, and pond liners. Indicate by a check mark that this report is provided.

**Attachment:** [Click to enter text.](#)

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

Do you plan to install ground water monitoring wells or lysimeters around the land application site? ☐ Yes ☒ No

If **yes**, provide the proposed location of the monitoring wells or lysimeters on a site map.

**Attachment:** [Click to enter text.](#)

## Section 8. Soil Map and Soil Analyses (Instructions Page 70)

### A. Soil map

Attach a USDA Soil Survey map that shows the area to be used for effluent disposal.

**Attachment:** 7

### 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:** A soils analysis has not been conducted.

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

## Section 9. Effluent Monitoring Data (Instructions Page 71)

Is the facility in operation?

☐ Yes ☒ No

**If no**, this section is not applicable and the worksheet is complete.

**If yes**, provide the effluent monitoring data for the parameters regulated in the existing permit. If a parameter is not regulated in the existing permit, enter N/A.

**Table 3.0(5) – Effluent Monitoring Data**

[illegible]

Provide a discussion of all persistent excursions above the permitted limits and any corrective actions taken.

Click to enter text.

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.1: SURFACE LAND DISPOSAL OF EFFLUENT

The following is required for new and major amendment permit applications. Renewal and minor amendment permit applications may be asked for this worksheet on a case by case basis.

### Section 1. Surface Disposal (Instructions Page 72)

Complete the item that applies for the method of disposal being used.

#### A. Irrigation

Area under irrigation, in acres: [Click to enter text.](#)

Design application frequency:

hours/day [Click to enter text.](#) And days/week [Click to enter text.](#)

Land grade (slope):

average percent (%): [Click to enter text.](#)

maximum percent (%): [Click to enter text.](#)

Design application rate in acre-feet/acre/year: [Click to enter text.](#)

Design total nitrogen loading rate, in lbs N/acre/year: [Click to enter text.](#)

Soil conductivity (mmhos/cm): [Click to enter text.](#)

Method of application: [Click to enter text.](#)

Attach a separate engineering report with the water balance and storage volume calculations, method of application, irrigation efficiency, and nitrogen balance.

**Attachment:** [Click to enter text.](#)

#### B. Evaporation ponds

Daily average effluent flow into ponds, in gallons per day: [Click to enter text.](#)

Attach a separate engineering report with the water balance and storage volume calculations.

**Attachment:** [Click to enter text.](#)

#### C. Evapotranspiration beds

Number of beds: [Click to enter text.](#)

Area of bed(s), in acres: [Click to enter text.](#)

Depth of bed(s), in feet: [Click to enter text.](#)

Void ratio of soil in the beds: [Click to enter text.](#)

Storage volume within the beds, in acre-feet: [Click to enter text.](#)

Attach a separate engineering report with the water balance and storage volume calculations, and a description of the lining.

**Attachment:** [Click to enter text.](#)



#### D. Overland flow

Area used for application, in acres: [Click to enter text.](#)

Slopes for application area, percent (%): [Click to enter text.](#)

Design application rate, in gpm/foot of slope width: [Click to enter text.](#)

Slope length, in feet: [Click to enter text.](#)

Design BOD<sub>5</sub> loading rate, in lbs BOD<sub>5</sub>/acre/day: [Click to enter text.](#)

Design application frequency:

hours/day: [Click to enter text.](#) **And** days/week: [Click to enter text.](#)

Attach a separate engineering report with the method of application and design requirements according to *30 TAC Chapter 217*.

**Attachment:** [Click to enter text.](#)

## Section 2. Edwards Aquifer (Instructions Page 73)

Is the facility subject to *30 TAC Chapter 213*, Edwards Aquifer Rules?

☐ Yes ☐ No

If **yes**, is the facility located on the Edwards Aquifer Recharge Zone?

☐ Yes ☐ No

If **yes**, attach a geological report addressing potential recharge features.

**Attachment:** [Click to enter text.](#)

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.2: SURFACE LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal **MUST** complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **does not meet** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System*.

### Section 1. Subsurface Application (Instructions Page 74)

Identify the type of system:

- ☐ Conventional Gravity Drainfield, Beds, or Trenches (new systems must be less than 5,000 GPD)
- ☐ Low Pressure Dosing
- ☐ Other, specify: [Click to enter text.](#)

Application area, in acres: [Click to enter text.](#)

Area of drainfield, in square feet: [Click to enter text.](#)

Application rate, in gal/square foot/day: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

Area of trench, in square feet: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

Number of beds: [Click to enter text.](#)

Dosing amount per area, in inches/day: [Click to enter text.](#)

Infiltration rate, in inches/hour: [Click to enter text.](#)

Storage volume, in gallons: [Click to enter text.](#)

Area of bed(s), in square feet: [Click to enter text.](#)

Soil Classification: [Click to enter text.](#)

Attach a separate engineering report with the information required in *30 TAC § 309.20*, excluding the requirements of *§ 309.20 b(3)(A)* and *(B)* design analysis which may be asked for on a case by case basis. Include a description of the schedule of dosing basin rotation.

Attachment: [Click to enter text.](#)

### Section 2. Edwards Aquifer (Instructions Page 74)

Is the subsurface system over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

- ☐ Yes ☐ No

Is the subsurface system over the Edwards Aquifer Transition Zone as mapped by TCEQ?

- ☐ Yes ☐ No

**If yes to either question**, the subsurface system may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team, at 512-239-4671, to schedule a pre-application meeting.

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 3.3: SUBSURFACE AREA DRIP DISPERSAL (SADDS) LAND DISPOSAL OF EFFLUENT

The following **is required** for **new and major amendment** subsurface area drip dispersal system permit applications. Renewal and minor amendments applicants may be asked for the worksheet on a case by case basis.

NOTE: All applicants proposing new/amended subsurface disposal **MUST** complete and submit Worksheet 7.0. This worksheet applies to any subsurface disposal system that **meets** the definition of a subsurface area drip dispersal system as defined in *30 TAC Chapter 222, Subsurface Area Drip Dispersal System*.

### Section 1. Administrative Information (Instructions Page 75)

A. Provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the treatment facility:

B. [Click to enter text.](#) Is the owner of the land where the treatment facility is located the same as the owner of the treatment facility?

☐ Yes ☐ No

If **no**, provide the legal name of all corporations or other business entities managed, owned, or otherwise closely related to the owner of the land where the treatment facility is located.

[Click to enter text.](#)

C. Owner of the subsurface area drip dispersal system: [Click to enter text.](#)

D. Is the owner of the subsurface area drip dispersal system the same as the owner of the wastewater treatment facility or the site where the wastewater treatment facility is located?

☐ Yes ☐ No

If **no**, identify the names of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in Item 1.C.

[Click to enter text.](#)

E. Owner of the land where the subsurface area drip dispersal system is located: [Click to enter text.](#)

F. Is the owner of the land where the subsurface area drip dispersal system is located the same as owner of the wastewater treatment facility, the site where the wastewater treatment facility is located, or the owner of the subsurface area drip dispersal system?

☐ Yes ☐ No

If **no**, identify the name of all corporations or other business entities managed, owned, or otherwise closely related to the entity identified in item 1.E.

[Click to enter text.](#)

## Section 2. Subsurface Area Drip Dispersal System (Instructions Page 75)

### A. Type of system

- ☐ Subsurface Drip Irrigation
- ☐ Surface Drip Irrigation
- ☐ Other, specify: [Click to enter text.](#)

### B. Irrigation operations

Application area, in acres: [Click to enter text.](#)

Infiltration Rate, in inches/hour: [Click to enter text.](#)

Average slope of the application area, percent (%): [Click to enter text.](#)

Maximum slope of the application area, percent (%): [Click to enter text.](#)

Storage volume, in gallons: [Click to enter text.](#)

Major soil series: [Click to enter text.](#)

Depth to groundwater, in feet: [Click to enter text.](#)

### C. Application rate

Is the facility located **west** of the boundary shown in *30 TAC § 222.83* **and** also using a vegetative cover of non-native grasses over seeded with cool season grasses during the winter months (October-March)?

☐ Yes ☐ No

If **yes**, then the facility may propose a hydraulic application rate not to exceed 0.1 gal/square foot/day.

Is the facility located **east** of the boundary shown in *30 TAC § 222.83* **or** in any part of the state when the vegetative cover is any crop other than non-native grasses?

☐ Yes ☐ No

If **yes**, the facility must use the formula in *30 TAC §222.83* to calculate the maximum hydraulic application rate.

Do you plan to submit an alternative method to calculate the hydraulic application rate for approval by the executive director?

☐ Yes ☐ No

Hydraulic application rate, in gal/square foot/day: [Click to enter text.](#)

Nitrogen application rate, in lbs/gal/day: [Click to enter text.](#)

### D. Dosing information

Number of doses per day: [Click to enter text.](#)

Dosing duration per area, in hours: [Click to enter text.](#)

Rest period between doses, in hours: [Click to enter text.](#)

Dosing amount per area, in inches/day: [Click to enter text.](#)

Number of zones: [Click to enter text.](#)

Does the proposed subsurface drip irrigation system use tree vegetative cover as a crop?

☐ Yes ☐ No

If **yes**, provide a vegetation survey by a certified arborist. Please call the Water Quality Assessment Team at (512) 239-4671 to schedule a pre-application meeting.

**Attachment:** [Click to enter text.](#)

### Section 3. Required Plans (Instructions Page 75)

#### A. Recharge feature plan

Attach a Recharge Feature Plan with all information required in *30 TAC §222.79*.

**Attachment:** [Click to enter text.](#)

#### B. Soil evaluation

Attach a Soil Evaluation with all information required in *30 TAC §222.73*.

**Attachment:** [Click to enter text.](#)

#### C. Site preparation plan

Attach a Site Preparation Plan with all information required in *30 TAC §222.75*.

**Attachment:** [Click to enter text.](#)

#### D. Soil sampling/testing

Attach soil sampling and testing that includes all information required in *30 TAC §222.157*.

**Attachment:** [Click to enter text.](#)

### Section 4. Floodway Designation (Instructions Page 76)

#### A. Site location

Is the existing/proposed land application site within a designated floodway?

☐ Yes ☐ No

#### B. Flood map

Attach either the FEMA flood map or alternate information used to determine the floodway.

**Attachment:** [Click to enter text.](#)

### Section 5. Surface Waters in the State (Instructions Page 76)

#### A. Buffer Map

Attach a map showing appropriate buffers on surface waters in the state, water wells, and springs/seeps.

**Attachment:** [Click to enter text.](#)

**B. Buffer variance request**

Do you plan to request a buffer variance from water wells or waters in the state?

☐ Yes ☐ No

If **yes**, then attach the additional information required in *30 TAC § 222.81(c)*.

**Attachment:** [Click to enter text.](#)

**Section 6. Edwards Aquifer (Instructions Page 76)**

**A.** Is the SADDs located over the Edwards Aquifer Recharge Zone as mapped by TCEQ?

☐ Yes ☐ No

**B.** Is the SADDs located over the Edwards Aquifer Transition Zone as mapped by TCEQ?

☐ Yes ☐ No

If **yes to either question**, then the SADDs may be prohibited by *30 TAC §213.8*. Please call the Municipal Permits Team at 512-239-4671 to schedule a pre-application meeting.

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

### Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: [Click to enter text.](#)

**Table 4.0(1) – Toxics Analysis**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile				50
Aldrin				0.01
Aluminum				2.5
Anthracene				10
Antimony				5
Arsenic				0.5
Barium				3
Benzene				10
Benzydine				50
Benzo(a)anthracene				5
Benzo(a)pyrene				5
Bis(2-chloroethyl)ether				10
Bis(2-ethylhexyl)phthalate				10
Bromodichloromethane				10
Bromoform				10
Cadmium				1
Carbon Tetrachloride				2
Carbaryl				5
Chlordane*				0.2
Chlorobenzene				10
Chlorodibromomethane				10

<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
Chloroform				10
Chlorpyrifos				0.05
Chromium (Total)				3
Chromium (Tri) (*1)				N/A
Chromium (Hex)				3
Copper				2
Chrysene				5
p-Chloro-m-Cresol				10
4,6-Dinitro-o-Cresol				50
p-Cresol				10
Cyanide (*2)				10
4,4'- DDD				0.1
4,4'- DDE				0.1
4,4'- DDT				0.02
2,4-D				0.7
Demeton (O and S)				0.20
Diazinon				0.5/0.1
1,2-Dibromoethane				10
m-Dichlorobenzene				10
o-Dichlorobenzene				10
p-Dichlorobenzene				10
3,3'-Dichlorobenzidine				5
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
Dichloromethane				20
1,2-Dichloropropane				10
1,3-Dichloropropene				10
Dicofol				1
Dieldrin				0.02
2,4-Dimethylphenol				10
Di-n-Butyl Phthalate				10
Diuron				0.09
Endosulfan I (alpha)				0.01



<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Ethylbenzene				10
Fluoride				500
Guthion				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclohexane (alpha)				0.05
Hexachlorocyclohexane (beta)				0.05
gamma-Hexachlorocyclohexane (Lindane)				0.05
Hexachlorocyclopentadiene				10
Hexachloroethane				20
Hexachlorophene				10
Lead				0.5
Malathion				0.1
Mercury				0.005
Methoxychlor				2
Methyl Ethyl Ketone				50
Mirex				0.02
Nickel				2
Nitrate-Nitrogen				100
Nitrobenzene				10
N-Nitrosodiethylamine				20
N-Nitroso-di-n-Butylamine				20
Nonylphenol				333
Parathion (ethyl)				0.1
Pentachlorobenzene				20
Pentachlorophenol				5
Phenanthrene				10

<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
Polychlorinated Biphenyls (PCB's) (*3)				0.2
Pyridine				20
Selenium				5
Silver				0.5
1,2,4,5-Tetrachlorobenzene				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Thallium				0.5
Toluene				10
Toxaphene				0.3
2,4,5-TP (Silvex)				0.3
Tributyltin (see instructions for explanation)				0.01
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
2,4,5-Trichlorophenol				50
TTHM (Total Trihalomethanes)				10
Vinyl Chloride				10
Zinc				5

(\*1) Determined by subtracting hexavalent Cr from total Cr.

(\*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(\*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

## Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: [Click to enter text.](#)

**Table 4.0(2)A – Metals, Cyanide, and Phenols**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Antimony				5
Arsenic				0.5
Beryllium				0.5
Cadmium				1
Chromium (Total)				3
Chromium (Hex)				3
Chromium (Tri) (*1)				N/A
Copper				2
Lead				0.5
Mercury				0.005
Nickel				2
Selenium				5
Silver				0.5
Thallium				0.5
Zinc				5
Cyanide (*2)				10
Phenols, Total				10

(\*1) Determined by subtracting hexavalent Cr from total Cr.

(\*2) Cyanide, amenable to chlorination or weak-acid dissociable

**Table 4.0(2)B – Volatile Compounds**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein				50
Acrylonitrile				50
Benzene				10
Bromoform				10
Carbon Tetrachloride				2
Chlorobenzene				10
Chlorodibromomethane				10
Chloroethane				50
2-Chloroethylvinyl Ether				10
Chloroform				10
Dichlorobromomethane [Bromodichloromethane]				10
1,1-Dichloroethane				10
1,2-Dichloroethane				10
1,1-Dichloroethylene				10
1,2-Dichloropropane				10
1,3-Dichloropropylene [1,3-Dichloropropene]				10
1,2-Trans-Dichloroethylene				10
Ethylbenzene				10
Methyl Bromide				50
Methyl Chloride				50
Methylene Chloride				20
1,1,2,2-Tetrachloroethane				10
Tetrachloroethylene				10
Toluene				10
1,1,1-Trichloroethane				10
1,1,2-Trichloroethane				10
Trichloroethylene				10
Vinyl Chloride				10

**Table 4.0(2)C – Acid Compounds**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol				10
2,4-Dichlorophenol				10
2,4-Dimethylphenol				10
4,6-Dinitro-o-Cresol				50
2,4-Dinitrophenol				50
2-Nitrophenol				20
4-Nitrophenol				50
P-Chloro-m-Cresol				10
Pentalchlorophenol				5
Phenol				10
2,4,6-Trichlorophenol				10

**Table 4.0(2)D – Base/Neutral Compounds**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene				10
Acenaphthylene				10
Anthracene				10
Benzidine				50
Benzo(a)Anthracene				5
Benzo(a)Pyrene				5
3,4-Benzofluoranthene				10
Benzo(ghi)Perylene				20
Benzo(k)Fluoranthene				5
Bis(2-Chloroethoxy)Methane				10
Bis(2-Chloroethyl)Ether				10
Bis(2-Chloroisopropyl)Ether				10
Bis(2-Ethylhexyl)Phthalate				10
4-Bromophenyl Phenyl Ether				10
Butyl benzyl Phthalate				10
2-Chloronaphthalene				10
4-Chlorophenyl phenyl ether				10
Chrysene				5
Dibenzo(a,h)Anthracene				5
1,2-(o)Dichlorobenzene				10
1,3-(m)Dichlorobenzene				10
1,4-(p)Dichlorobenzene				10
3,3-Dichlorobenzidine				5
Diethyl Phthalate				10
Dimethyl Phthalate				10
Di-n-Butyl Phthalate				10
2,4-Dinitrotoluene				10
2,6-Dinitrotoluene				10
Di-n-Octyl Phthalate				10
1,2-Diphenylhydrazine (as Azo- benzene)				20
Fluoranthene				10

<b>Pollutant</b>	<b>AVG Effluent Conc. (µg/l)</b>	<b>MAX Effluent Conc. (µg/l)</b>	<b>Number of Samples</b>	<b>MAL (µg/l)</b>
Fluorene				10
Hexachlorobenzene				5
Hexachlorobutadiene				10
Hexachlorocyclo-pentadiene				10
Hexachloroethane				20
Indeno(1,2,3-cd)pyrene				5
Isophorone				10
Naphthalene				10
Nitrobenzene				10
N-Nitrosodimethylamine				50
N-Nitrosodi-n-Propylamine				20
N-Nitrosodiphenylamine				20
Phenanthrene				10
Pyrene				10
1,2,4-Trichlorobenzene				10

**Table 4.0(2)E - Pesticides**

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin				0.01
alpha-BHC (Hexachlorocyclohexane)				0.05
beta-BHC (Hexachlorocyclohexane)				0.05
gamma-BHC (Hexachlorocyclohexane)				0.05
delta-BHC (Hexachlorocyclohexane)				0.05
Chlordane				0.2
4,4-DDT				0.02
4,4-DDE				0.1
4,4,-DDD				0.1
Dieldrin				0.02
Endosulfan I (alpha)				0.01
Endosulfan II (beta)				0.02
Endosulfan Sulfate				0.1
Endrin				0.02
Endrin Aldehyde				0.1
Heptachlor				0.01
Heptachlor Epoxide				0.01
PCB-1242				0.2
PCB-1254				0.2
PCB-1221				0.2
PCB-1232				0.2
PCB-1248				0.2
PCB-1260				0.2
PCB-1016				0.2
Toxaphene				0.3

\* For PCBs, if all are non-detects, enter the highest non-detect preceded by a "<".



### Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

- ☐ 2,4,5-trichlorophenoxy acetic acid  
Common Name 2,4,5-T, CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid  
Common Name Silvex or 2,4,5-TP, CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate  
Common Name Erbon, CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate  
Common Name Ronnel, CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol  
Common Name TCP, CASRN 95-95-4
- ☐ hexachlorophene  
Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

[Click to enter text.](#)

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☐ No

If **yes**, provide a brief description of the conditions for its presence.

[Click to enter text.](#)

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: [Click to enter text.](#)

**Table 4.0(2)F – Dioxin/Furan Compounds**

Compound	Toxic Equivalenc y Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of **1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

### Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: [Click to enter text.](#)

48-hour Acute: [Click to enter text.](#)

### Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☐ No

**If yes**, describe the progress to date, if applicable, in identifying and confirming the toxicant.

[Click to enter text.](#)

### Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

**Table 5.0(1) Summary of WET Tests**

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal

# DOMESTIC WASTEWATER PERMIT APPLICATION

## WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following is required for all publicly owned treatment works.

### Section 1. All POTWs (Instructions Page 89)

#### A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs - non-categorical, and Other IUs.

**If there are no users, enter 0 (zero).**

Categorical IUs:

Number of IUs: [Click to enter text.](#)

Average Daily Flows, in MGD: [Click to enter text.](#)

Significant IUs - non-categorical:

Number of IUs: [Click to enter text.](#)

Average Daily Flows, in MGD: [Click to enter text.](#)

Other IUs:

Number of IUs: [Click to enter text.](#)

Average Daily Flows, in MGD: [Click to enter text.](#)

#### B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☐ No

**If yes**, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

[Click to enter text.](#)

### C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☐ No

If **yes**, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

[Click to enter text.](#)

### D. Pretreatment program

Does your POTW have an approved pretreatment program?

☐ Yes ☐ No

If **yes**, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☐ Yes ☐ No

If **yes**, complete Section 2.c. and 2.d. only, and skip Section 3.

If **no to either question above**, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

### E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: [Click to enter text.](#)

## Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

### A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☐ No

If **yes**, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

#### B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☐ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

#### C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

**Table 6.0(1) – Parameters Above the MAL**

Pollutant	Concentration	MAL	Units	Date

#### D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☐ No

If **yes**, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

### Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

#### A. General information

Company Name: [Click to enter text.](#)

SIC Code: [Click to enter text.](#)

Contact name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Telephone number: [Click to enter text.](#)

Email address: [Click to enter text.](#)

#### B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

#### C. Product and service information

Provide a description of the principal product(s) or services performed.

Click to enter text.

#### D. Flow rate information



See the Instructions for definitions of “process” and “non-process wastewater.”

Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: [Click to enter text.](#)

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

**E. Pretreatment standards**

Is the SIU or CIU subject to technically based local limits as defined in the instructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

**If subject to categorical pretreatment standards**, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: [Click to enter text.](#)

[Click or tap here to enter text.](#) [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

Category: [Click to enter text.](#)

Subcategories: [Click to enter text.](#)

**F. Industrial user interruptions**

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

**If yes**, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

[Click to enter text.](#)

# WORKSHEET 7.0

## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

### CLASS V INJECTION WELL INVENTORY/AUTHORIZATION FORM

Submit the completed form to:

TCEQ  
IUC Permits Team  
Radioactive Materials Division  
MC-233  
PO Box 13087  
Austin, Texas 78711-3087  
512-239-6466

For TCEQ Use Only  
Reg. No. \_\_\_\_\_  
Date Received \_\_\_\_\_  
Date Authorized \_\_\_\_\_

#### Section 1. General Information (Instructions Page 92)

**1. TCEQ Program Area**

Program Area (PST, VCP, IHW, etc.): [Click to enter text.](#)

Program ID: [Click to enter text.](#)

Contact Name: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

**2. Agent/Consultant Contact Information**

Contact Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

**3. Owner/Operator Contact Information**

☐ Owner ☐ Operator

Owner/Operator Name: [Click to enter text.](#)

Contact Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

**4. Facility Contact Information**

Facility Name: [Click to enter text.](#)

Address: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Location description (if no address is available): [Click to enter text.](#)

Facility Contact Person: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

5. **Latitude and Longitude, in degrees-minutes-seconds**

Latitude: [Click to enter text.](#)

Longitude: [Click to enter text.](#)

Method of determination (GPS, TOPO, etc.): [Click to enter text.](#)

Attach topographic quadrangle map as attachment A.

6. **Well Information**

Type of Well Construction, select one:

- ☐ Vertical Injection
- ☐ Subsurface Fluid Distribution System
- ☐ Infiltration Gallery
- ☐ Temporary Injection Points
- ☐ Other, Specify: [Click to enter text.](#)

Number of Injection Wells: [Click to enter text.](#)

7. **Purpose**

Detailed Description regarding purpose of Injection System:

[Click to enter text.](#)

Attach a Site Map as Attachment B (Attach the Approved Remediation Plan, if appropriate.)

8. **Water Well Driller/Installer**

Water Well Driller/Installer Name: [Click to enter text.](#)

City, State, and Zip Code: [Click to enter text.](#)

Phone Number: [Click to enter text.](#)

License Number: [Click to enter text.](#)

## Section 2. Proposed Down Hole Design

Attach a diagram signed and sealed by a licensed engineer as Attachment C.

**Table 7.0(1) – Down Hole Design Table**

Name of String	Size	Setting Depth	Sacks Cement/Grout – Slurry Volume – Top of Cement	Hole Size	Weight (lbs/ft) PVC/Steel
Casing					
Tubing					
Screen					

### Section 3. Proposed Trench System, Subsurface Fluid Distribution System, or Infiltration Gallery

Attach a diagram signed and sealed by a licensed engineer as Attachment D.

System(s) Dimensions: [Click to enter text.](#)

System(s) Construction: [Click to enter text.](#)

### Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: [Click to enter text.](#)
2. Receiving Formation Name of Injection Zone: [Click to enter text.](#)
3. Well/Trench Total Depth: [Click to enter text.](#)
4. Surface Elevation: [Click to enter text.](#)
5. Depth to Ground Water: [Click to enter text.](#)
6. Injection Zone Depth: [Click to enter text.](#)
7. Injection Zone vertically isolated geologically? ☐ Yes ☐ No  
Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:  
Name: [Click to enter text.](#)  
Thickness: [Click to enter text.](#)
8. Provide a list of contaminants and the levels (ppm) in contaminated aquifer  
Attach as Attachment E.
9. Horizontal and Vertical extent of contamination and injection plume  
Attach as Attachment F.
10. Formation (Injection Zone) Water Chemistry (Background levels) TDS, etc.  
Attach as Attachment G.
11. Injection Fluid Chemistry in PPM at point of injection  
Attach as Attachment H.
12. Lowest Known Depth of Ground Water with < 10,000 PPM TDS: [Click to enter text.](#)
13. Maximum injection Rate/Volume/Pressure: [Click to enter text.](#)
14. Water wells within 1/4 mile radius (attach map as Attachment I): [Click to enter text.](#)
15. Injection wells within 1/4 mile radius (attach map as Attachment J): [Click to enter text.](#)
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): [Click to enter text.](#)
17. Sampling frequency: [Click to enter text.](#)
18. Known hazardous components in injection fluid: [Click to enter text.](#)

## Section 5. Site History

1. Type of Facility: [Click to enter text.](#)
2. Contamination Dates: [Click to enter text.](#)
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): [Click to enter text.](#)
4. Previous Remediation (attach results of any previous remediation as attachment M): [Click to enter text.](#)

**NOTE: Authorization Form should be completed in detail and authorization given by the TCEQ before construction, operation, and/or conversion can begin. Attach additional pages as necessary.**

### *Class V Injection Well Designations*

- 5A07 Heat Pump/AC return (IW used for groundwater to heat and/or cool buildings)
- 5A19 Industrial Cooling Water Return Flow (IW used to cool industrial process equipment)
- 5B22 Salt Water Intrusion Barrier (IW used to inject fluids to prevent the intrusion of salt water into an aquifer)
- 5D02 Storm Water Drainage (IW designed for the disposal of rain water)
- 5D04 Industrial Stormwater Drainage Wells (IW designed for the disposal of rain water associated with industrial facilities)
- 5F01 Agricultural Drainage (IW that receive agricultural runoff)
- 5R21 Aquifer Recharge (IW used to inject fluids to recharge an aquifer)
- 5S23 Subsidence Control Wells (IW used to control land subsidence caused by ground water withdrawal)
- 5W09 Untreated Sewage
- 5W10 Large Capacity Cesspools (Cesspools that are designed for 5,000 gpd or greater)
- 5W11 Large Capacity Septic systems (Septic systems designed for 5,000 gpd or greater)
- 5W12 WTP disposal
- 5W20 Industrial Process Waste Disposal Wells
- 5W31 Septic System (Well Disposal method)
- 5W32 Septic System Drainfield Disposal
- 5X13 Mine Backfill (IW used to control subsidence, dispose of mining byproducts, and/or fill sections of a mine)
- 5X25 Experimental Wells (Pilot Test) (IW used to test new technologies or tracer dye studies)
- 5X26 Aquifer Remediation (IW used to clean up, treat, or prevent contamination of a USDW)
- 5X27 Other Wells
- 5X28 Motor Vehicle Waste Disposal Wells (IW used to dispose of waste from a motor vehicle site - These are currently banned)
- 5X29 Abandoned Drinking Water Wells (waste disposal)



## **Attachment 1**

### **Lease Agreement with Owner of Effluent Disposal Site**

**Lake Cliff on Lake Travis, L.P.**

### **Section 9 E, Page 9 of 24**

(Administrative Report 1.0)

# TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



TRANSFER OF

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PERMIT NO. WQ0014649001

FROM: South Central Water Company

TO: Arbor Way, Inc.

Ownership of the facilities covered by the above-referenced permit issued August 08, 2006, has changed. That part of the signature page pertaining to the name and mailing address of the permit holder is hereby changed so that the same shall hereinafter be and read as follows:

"Arbor Way, Inc.  
1001 Fannin Street, Suite 1800  
Houston, Texas 77002"

The transferee is financially responsible for the proper maintenance and operation of the facility so as to comply with the terms and conditions of the permit. The failure to operate the facility in accordance with the terms and conditions of the permit may be good cause for revocation of the permit.

This transfer is in accordance with 30 Texas Administrative Code Section 305.64.

This order is part of the permit and should be attached there to.

Issued Date: October 25, 2007

A handwritten signature in black ink, appearing to be "D. P. ...", written over a horizontal line.

For The Commission





PERMIT NO. WQ0014649001

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
P.O. Box 13087  
Austin, Texas 78711-3087

This is a new permit.

PERMIT TO DISCHARGE WASTES  
under provisions of Chapter 26  
of the Texas Water Code

Permittee:

South Central Water Company  
P.O. Box 570177  
Houston, Texas 77257

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 4952

General Description and Location of Waste Disposal System:

Description: The Two Rivers Wastewater Treatment Facility consists of an activated sludge process plant using the complete mix mode. Treatment units include bar screens, aeration basins, final clarifiers, sludge digester and chlorine contact chamber. The facility includes 4 storage ponds with a total surface area of 4.5 acres and total capacity of 63.3 acre-feet for storage of treated effluent prior to irrigation. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.430 million gallons per day (MGD) via surface irrigation of 170 acres at a golf course. Application rates to the irrigated land shall not exceed 2.8 acre-feet per year per acre irrigated. The permittee will maintain turf grass and other ground cover on the disposal site.

Location: The wastewater treatment facility and disposal site are located approximately 1,200 feet northwest of the intersection of Haynie Flat Road and Travis Lakeside Drive in Travis County, Texas. (See Attachment A.)

Drainage Area: The disposal site is located in the drainage basin of the Colorado River in Segment No. 1404 of the Colorado River Basin. No discharge of pollutants into water in the State is authorized by this permit.

This permit and the authorization contained herein shall expire at midnight on **December 1, 2010**.

ISSUED DATE: **AUG 08 2006**

A handwritten signature in black ink, appearing to be "B. White", written over a horizontal line.

For the Commission

**EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS**

**Conditions of the Permit: No discharge of pollutants into water in the State is authorized.**

**A. Effluent Limitations**

Character: Treated Domestic Sewage Effluent

Volume: Interim I Daily Average Flow - 0.038 MGD from the treatment system  
Interim II Daily Average Flow - 0.125 MGD from the treatment system  
Final Daily Average Flow - 0.430 MGD from the treatment system

Quality: The following effluent limitations shall be required:

<u>Parameter</u>	<u>Effluent Concentrations</u> (Not to Exceed)			
	<u>Daily Average</u> mg/l	<u>7-Day Average</u> mg/l	<u>Daily Maximum</u> mg/l	<u>Single Grab</u> mg/l
Biochemical Oxygen Demand (5-day)	20	30	45	65
Total Suspended Solids	20	30	45	65

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units.

The effluent shall be chlorinated in a chlorine contact chamber to a residual of 1.0 mg/l with a minimum detention time of 20 minutes. If the effluent is to be transferred to a holding pond or tank, re-chlorination prior to the effluent being delivered into the irrigation system will be required. A trace chlorine residual shall be maintained in the effluent at the point of irrigation application.

**B. Monitoring Requirements:**

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Five/week	Instantaneous
Biochemical Oxygen Demand (5-day)	One/week	Grab
Total Suspended Solids	One/week	Grab
pH	One/month	Grab
Chlorine Residual	Five/week	Grab

The monitoring shall be done after the final treatment unit and prior to storage of the treated effluent. If the effluent is land applied directly from the treatment system, monitoring shall be done after the final treatment unit and prior to land application. These records shall be maintained on a monthly basis and be available at the plant site for inspection by authorized representatives of the Commission for at least three years.

## STANDARD PERMIT CONDITIONS

This permit is granted in accordance with the Texas Water Code and the rules and other Orders of the Commission and the laws of the State of Texas.

## DEFINITIONS

All definitions in Section 26.001 of the Texas Water Code and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

### 1. Flow Measurements

- a. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.
- b. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with a 1 million gallons per day or greater permitted flow.
- c. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

### 2. Concentration Measurements

- a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.
  - i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.
  - ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.
- b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.
- c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

### 3. Sample Type

- a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).
- b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids which have not been classified as hazardous waste separated from wastewater by unit processes.
6. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

## MONITORING REQUIREMENTS

### 1. Monitoring Requirements

Monitoring results shall be collected at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling in accordance with 30 TAC §§ 319.4 - 319.12.

As provided by state law, the permittee is subject to administrative, civil and criminal penalties, as applicable, for negligently or knowingly violating the Texas Water Code, Chapters 26, 27, and 28, and Texas Health and Safety Code, Chapter 361, including but not limited to knowingly making any false statement, representation, or certification on any report, record or other document submitted or required to be maintained under this permit, including monitoring reports, records or reports of compliance or noncompliance, or falsifying, tampering with or knowingly rendering inaccurate any monitoring device or method required by this permit or violating any other requirement imposed by state or federal regulations.

### 2. Test Procedures

Unless otherwise specified in this permit, test procedures for the analysis of pollutants shall comply with procedures specified in 30 TAC §§ 319.11 - 319.12. Measurements, tests and calculations shall be accurately accomplished in a representative manner.

### 3. Records of Results

- a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.
- b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, and records of all data used to complete the application for this permit shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, or application. This period shall be extended at the request of the Executive Director.
- c. Records of monitoring activities shall include the following:
  - i. date, time and place of sample or measurement;
  - ii. identity of individual who collected the sample or made the measurement.
  - iii. date and time of analysis;
  - iv. identity of the individual and laboratory who performed the analysis;
  - v. the technique or method of analysis; and
  - vi. the results of the analysis or measurement and quality assurance/quality control records.

The period during which records are required to be kept shall be automatically extended to the date of the final disposition of any administrative or judicial enforcement action that maybe instituted against the permittee.

### 4. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in determining compliance with permit requirements.

## 5. Calibration of Instruments

All automatic flow measuring or recording devices and all totalizing meters for measuring flows shall be accurately calibrated by a trained person at plant start-up and as often thereafter as necessary to ensure accuracy, but not less often than annually unless authorized by the Executive Director for a longer period. Such person shall verify in writing that the device is operating properly and giving accurate results. Copies of the verification shall be retained at the facility site and/or shall be readily available for review by a TCEQ representative for a period of three years.

## 6. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date to the Regional Office and the Enforcement Division (MC 224).

## 7. Noncompliance Notification

- a. In accordance with 30 TAC § 305.125(9), any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.
  - b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:
    - i. Unauthorized discharges as defined in Permit Condition 2(g).
    - ii. Any unanticipated bypass which exceeds any effluent limitation in the permit.
  - c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.
  - d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible.
8. In accordance with the procedures described in 30 TAC §§ 35.301 - 35.303 (relating to Water Quality Emergency and Temporary Orders) if the permittee knows in advance of the need for a bypass, it shall submit prior notice by applying for such authorization.

## 9. Changes in Discharges of Toxic Substances

All existing manufacturing, commercial, mining, and silvicultural permittees shall notify the Regional Office, orally or by facsimile transmission within 24 hours, and both the Regional Office and the Enforcement Division (MC 224) in writing within five (5) working days, after becoming aware of or having reason to believe:

- a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant listed at 40 CFR Part 122, Appendix D, Tables II and III (excluding Total Phenols) which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. One hundred micrograms per liter (100 µg/L);
  - ii. Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
  - iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

- b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
  - i. Five hundred micrograms per liter (500 µg/L);
  - ii. One milligram per liter (1 mg/L) for antimony;
  - iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or
  - iv. The level established by the TCEQ.

#### 10. Signatories to Reports

All reports and other information requested by the Executive Director shall be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

### PERMIT CONDITIONS

#### 1. General

- a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.
- b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:
  - i. Violation of any terms or conditions of this permit;
  - ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
  - iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

#### 2. Compliance

- a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.
- b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation or suspension, or for denial of a permit renewal application or an application for a permit for another facility.
- c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
- d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation which has a reasonable likelihood of adversely affecting human health or the environment.
- e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.
- f. A permit may be amended, suspended and reissued, or revoked for cause in accordance with 30 TAC §§ 305.62 and 305.66 and Texas Water Code Section 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.



- g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Special Provisions section of this permit.
- h. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under Texas Water Code §§7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties).

### 3. Inspections and Entry

- a. Inspection and entry shall be allowed as prescribed in the Texas Water Code Chapters 26, 27, and 28, and Texas Health and Safety Code Chapter 361.
- b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in Texas Water Code Section 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

### 4. Permit Amendment and/or Renewal

- a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:
  - i. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9;
  - ii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
- b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.
- c. The permittee must apply for an amendment or renewal prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.
- d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

- e. In accordance with the Texas Water Code § 26.029(b), after a public hearing, notice of which shall be given to the permittee, the Commission may require the permittee, from time to time, for good cause, in accordance with applicable laws, to conform to new or additional conditions.

5. Permit Transfer

- a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.
- b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

This permit does not authorize any activity of hazardous waste storage, processing, or disposal which requires a permit or other authorization pursuant to the Texas Health and Safety Code.

7. Property Rights

A permit does not convey any property rights of any sort, or any exclusive privilege.

8. Permit Enforceability

The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

9. Relationship to Permit Application

The application pursuant to which the permit has been issued is incorporated herein; provided, however, that in the event of a conflict between the provisions of this permit and the application, the provisions of the permit shall control.

10. Notice of Bankruptcy.

- a. Each permittee shall notify the executive director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:
  - i. the permittee;
  - ii. an entity (as that term is defined in 11 USC, §101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or
  - iii. an affiliate (as that term is defined in 11 USC, §101(2)) of the permittee.
- b. This notification must indicate:
  - i. the name of the permittee;
  - ii. the permit number(s);
  - iii. the bankruptcy court in which the petition for bankruptcy was filed; and
  - iv. the date of filing of the petition.

## OPERATIONAL REQUIREMENTS

- 1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.



2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.
3. Domestic wastewater treatment facilities shall comply with the following provisions:
  - a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.
  - b. The permittee shall submit a closure plan for review and approval to the Land Application Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.
4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.
5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.
6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under Texas Water Code § 7.302(b)(6).
7. Documentation

For all written notifications to the Commission required of the permittee by this permit, the permittee shall keep and make available a copy of each such notification under the same conditions as self-monitoring data are required to be kept and made available. Except for information specified as not confidential in 30 TAC § 1.5(d), any information submitted pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted in the manner prescribed in the application form or by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, information may be made available to the public without further notice. If the Commission or Executive Director agrees with the designation of confidentiality, the TCEQ will not provide the information for public inspection unless required by the Texas Attorney General or a court pursuant to an open records request. If the Executive Director does not agree with the designation of confidentiality, the person submitting the information will be notified.

8. Facilities which generate domestic wastewater shall comply with the following provisions; domestic wastewater treatment facilities at permitted industrial sites are excluded.
  - a. Whenever flow measurements for any domestic sewage treatment facility reach 75 percent of the permitted daily average or annual average flow for three consecutive months, the permittee must initiate engineering and financial planning for expansion and/or upgrading of the domestic wastewater treatment and/or collection facilities. Whenever the flow reaches 90 percent of the permitted daily average or annual average flow for three consecutive months, the permittee shall obtain necessary authorization from the Commission to commence construction of the necessary additional treatment and/or collection facilities. In the case of a domestic wastewater treatment facility which reaches 75 percent of the permitted daily average or annual average flow for three consecutive months, and the planned population to be served or the quantity of waste produced is not expected to exceed the design limitations of the treatment facility, the permittee shall submit an engineering report supporting this claim to the Executive Director of the Commission.

If in the judgement of the Executive Director the population to be served will not cause permit noncompliance, then the requirement of this section may be waived. To be effective, any waiver must be in writing and signed by the Director of the Enforcement Division (MC 149) of the Commission, and such waiver of these requirements will be reviewed upon expiration of the existing permit; however, any such waiver shall not be interpreted as condoning or excusing any violation of any permit parameter.

- b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission, and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been secured.

- c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.
10. Facilities which generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:
- a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.
  - b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.
  - c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.
  - d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Registration, Review, and Reporting Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.
  - e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.
  - f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC Chapter 335 and must include the following, as it pertains to wastewater treatment and discharge:
    - i. Volume of waste and date(s) generated from treatment process;
    - ii. Volume of waste disposed of on-site or shipped off-site;
    - iii. Date(s) of disposal;
    - iv. Identity of hauler or transporter;
    - v. Location of disposal site; and
    - vi. Method of final disposal.
- The above records shall be maintained on a monthly basis. The records shall be retained at the facility site, or shall be readily available for review by authorized representatives of the TCEQ for at least five years.
11. For industrial facilities to which the requirements of 30 TAC Chapter 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with Chapter 361 of the Texas Health and Safety Code.

## SLUDGE PROVISIONS

The permittee is authorized to dispose of sludge only at a Texas Commission on Environmental Quality (TCEQ) authorized land application site or co-disposal landfill. **The disposal of sludge by land application on property owned, leased or under the direct control of the permittee is a violation of the permit unless the site is authorized by the TCEQ. This provision does not authorize Distribution and Marketing of sludge. This provision does not authorize land application of Class A Sludge. This provision does not authorize the permittee to land apply sludge on property owned, leased or under the direct control of the permittee.**

### SECTION I. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE LAND APPLICATION

#### A. General Requirements

1. The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC Chapter 312 and all other applicable state and federal regulations in a manner which protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants which may be present in the sludge.
2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.
3. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

#### B. Testing Requirements

1. Sewage sludge shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method, which receives the prior approval of the TCEQ for the contaminants listed in Table 1 of 40 CFR Section 261.24. Sewage sludge failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Registration, Review, and Reporting Division and the Regional Director (MC Region 11) within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Registration, Review, and Reporting Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 11) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year.

2. Sewage sludge shall not be applied to the land if the concentration of the pollutants exceed the pollutant concentration criteria in Table 1. The frequency of testing for pollutants in Table 1 is found in Section I.C.

TABLE 1

<u>Pollutant</u>	<u>Ceiling Concentration (milligrams per kilogram)*</u>
Arsenic	75
Cadmium	85
Chromium	3000
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
PCBs	49
Selenium	100
Zinc	7500

\* Dry weight basis

## 3. Pathogen Control

All sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following methods to ensure that the sludge meets either the Class A or Class B pathogen requirements.

- a. Six alternatives are available to demonstrate compliance with Class A sewage sludge. The first 4 options require either the density of fecal coliform in the sewage sludge be less than 1000 Most Probable Number (MPN) per gram of total solids (dry weight basis), or the density of Salmonella sp. bacteria in the sewage sludge be less than three MPN per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. Below are the additional requirements necessary to meet the definition of a Class A sludge.

Alternative 1 - The temperature of the sewage sludge that is used or disposed shall be maintained at or above a specific value for a period of time. See 30 TAC Section 312.82(a)(2)(A) for specific information.

Alternative 2 - The pH of the sewage sludge that is used or disposed shall be raised to above 12 std. units and shall remain above 12 std. units for 72 hours.

The temperature of the sewage sludge shall be above 52 degrees Celsius for 12 hours or longer during the period that the pH of the sewage sludge is above 12 std. units.

At the end of the 72-hour period during which the pH of the sewage sludge is above 12 std. units, the sewage sludge shall be air dried to achieve a percent solids in the sewage sludge greater than 50 percent.

Alternative 3 - The sewage sludge shall be analyzed for enteric viruses prior to pathogen treatment. The limit for enteric viruses is less than one Plaque-forming Unit per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC Section 312.82(a)(2)(C)(i-iii) for specific information. The sewage sludge shall be analyzed for viable helminth ova prior to pathogen treatment. The limit for viable helminth ova is less than one per four grams of total solids (dry weight basis) either before or following pathogen treatment. See 30 TAC Section 312.82(a)(2)(C)(iv-vi) for specific information.

Alternative 4 - The density of enteric viruses in the sewage sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed. The density of viable helminth ova in the sewage sludge shall be less than one per four grams of total solids (dry weight basis) at the time the sewage sludge is used or disposed.

Alternative 5 (PFRP) - Sewage sludge that is used or disposed of shall be treated in one of the processes to Further Reduce Pathogens (PFRP) described in 40 CFR Part 503, Appendix B. PFRP include composting, heat drying, heat treatment, and thermophilic aerobic digestion.

Alternative 6 (PFRP Equivalent) - Sewage sludge that is used or disposed of shall be treated in a process that has been approved by the U. S. Environmental Protection Agency as being equivalent to those in Alternative 5.

- b. Three alternatives are available to demonstrate compliance with Class B criteria for sewage sludge.

Alternative 1 -

- i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.
- ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

Alternative 2 - Sewage sludge that is used or disposed of shall be treated in one of the Processes to Significantly Reduce Pathogens (PSRP) described in 40 CFR Part 503, Appendix B, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;
- iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U. S. Environmental Protection Agency final guidance;
- iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and
- v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

Alternative 3 - Sewage sludge shall be treated in an equivalent process that has been approved by the U. S. Environmental Protection Agency, so long as all of the following requirements are met by the generator of the sewage sludge.

- i. Prior to use or disposal, all the sewage sludge must have been generated from a single location, except as provided in paragraph v. below;
- ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U. S. Environmental Protection Agency final guidance;
- iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;
- iv. The executive director will accept from the U. S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

- v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

In addition, the following site restrictions must be met if Class B sludge is land applied:

- i. Food crops with harvested parts that touch the sewage sludge/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of sewage sludge.
- ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of sewage sludge when the sewage sludge remains on the land surface for 4 months or longer prior to incorporation into the soil.
- iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of sewage sludge when the sewage sludge remains on the land surface for less than 4 months prior to incorporation into the soil.
- iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of sewage sludge.
- v. Animals shall not be allowed to graze on the land for 30 days after application of sewage sludge.
- vi. Turf grown on land where sewage sludge is applied shall not be harvested for 1 year after application of the sewage sludge when the harvested turf is placed on either land with a high potential for public exposure or a lawn.
- vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of sewage sludge.
- viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of sewage sludge.
- ix. Land application of sludge shall be in accordance with the buffer zone requirements found in 30 TAC Section 312.44.

#### 4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following alternatives 1 through 10 for Vector Attraction Reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38 percent.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30 and 37 degrees Celsius. Volatile solids must be reduced by less than 17 percent to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with a percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20 degrees Celsius. Volatile solids must be reduced by less than 15 percent to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20 degrees Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40 degrees Celsius and the average temperature of the sewage sludge shall be higher than 45 degrees Celsius.

- Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.
- Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75 percent based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 8 - The percent solids of sewage sludge that contains unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 90 percent based on the moisture content and total solids prior to mixing with other materials at the time the sludge is used. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.
- Alternative 9 -
- i. Sewage sludge shall be injected below the surface of the land.
  - ii. No significant amount of the sewage sludge shall be present on the land surface within one hour after the sewage sludge is injected.
  - iii. When sewage sludge that is injected below the surface of the land is Class A with respect to pathogens, the sewage sludge shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.
- Alternative 10 -
- i. Sewage sludge applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.
  - ii. When sewage sludge that is incorporated into the soil is Class A with respect to pathogens, the sewage sludge shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

### C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- once during the term of this permit
PCBs	- once during the term of this permit

All metal constituents and Fecal coliform or Salmonella sp. bacteria shall be monitored at the appropriate frequency shown below, pursuant to 30 TAC Section 312.46(a)(1):

<u>Amount of sewage sludge (*) metric tons per 365-day period</u>	<u>Monitoring Frequency</u>
0 to less than 290	Once/Year
290 to less than 1,500	Once/Quarter
1,500 to less than 15,000	Once/Two Months
15,000 or greater	Once/Month

(\*) The amount of bulk sewage sludge applied to the land (dry weight basis).

Representative samples of sewage sludge shall be collected and analyzed in accordance with the methods referenced in 30 TAC Section 312.7.

**SECTION II. REQUIREMENTS SPECIFIC TO BULK SEWAGE SLUDGE FOR APPLICATION TO THE LAND MEETING CLASS A or B PATHOGEN REDUCTION AND THE CUMULATIVE LOADING RATES IN TABLE 2, OR CLASS B PATHOGEN REDUCTION AND THE POLLUTANT CONCENTRATIONS IN TABLE 3**

For those permittees meeting Class A or B pathogen reduction requirements and that meet the cumulative loading rates in Table 2 below, or the Class B pathogen reduction requirements and contain concentrations of pollutants below listed in Table 3, the following conditions apply:

**A. Pollutant Limits**

Table 2

<u>Pollutant</u>	<u>Cumulative Pollutant Loading Rate (pounds per acre)</u>
Arsenic	36
Cadmium	35
Chromium	2677
Copper	1339
Lead	268
Mercury	15
Molybdenum	Report Only
Nickel	375
Selenium	89
Zinc	2500

Table 3

<u>Pollutant</u>	<u>Monthly Average Concentration (milligrams per kilogram)*</u>
Arsenic	41
Cadmium	39
Chromium	1200
Copper	1500
Lead	300
Mercury	17
Molybdenum	Report Only
Nickel	420
Selenium	36
Zinc	2800

\* Dry weight basis

**B. Pathogen Control**

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, a reclamation site, shall be treated by either Class A or Class B pathogen reduction requirements as defined above in Section I.B.3.

**C. Management Practices**

1. Bulk sewage sludge shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.
2. Bulk sewage sludge not meeting Class A requirements shall be land applied in a manner which complies with the Management Requirements in accordance with 30 TAC Section 312.44.
3. Bulk sewage sludge shall be applied at or below the agronomic rate of the cover crop.



4. An information sheet shall be provided to the person who receives bulk sewage sludge sold or given away. The information sheet shall contain the following information:
  - a. The name and address of the person who prepared the sewage sludge that is sold or given away in a bag or other container for application to the land.
  - b. A statement that application of the sewage sludge to the land is prohibited except in accordance with the instruction on the label or information sheet.
  - c. The annual whole sludge application rate for the sewage sludge application rate for the sewage sludge that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

#### D. Notification Requirements

1. If bulk sewage sludge is applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk sewage sludge is proposed to be applied. The notice shall include:
  - a. The location, by street address, and specific latitude and longitude, of each land application site.
  - b. The approximate time period bulk sewage sludge will be applied to the site.
  - c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk sewage sludge.
2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.

#### E. Record keeping Requirements

The sludge documents will be retained at the facility site and/or shall be readily available for review by a TCEQ representative. The person who prepares bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative for a period of five years. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC Section 312.47 for persons who land apply.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.
2. A description of how the pathogen reduction requirements are met (including site restrictions for Class B sludges, if applicable).
3. A description of how the vector attraction reduction requirements are met.
4. A description of how the management practices listed above in Section II.C are being met.
5. The following certification statement:

"I certify, under penalty of law, that the applicable pathogen requirements in 30 TAC Section 312.82(a) or (b) and the vector attraction reduction requirements in 30 TAC Section 312.83(b) have been met for each site on which bulk sewage sludge is applied. This determination has been made under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate the information used to determine that the management practices have been met. I am aware that there are significant penalties for false certification including fine and imprisonment."
6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained.

The person who applies bulk sewage sludge or a sewage sludge material shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC Section 312.47 for persons who land apply.

1. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC Section 312.47(a)(4)(A)(ii) or 30 TAC Section 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.
2. The location, by street address, and specific latitude and longitude, of each site on which sludge is applied.
3. The number of acres in each site on which bulk sludge is applied.
4. The date and time sludge is applied to each site.
5. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.
6. The total amount of sludge applied to each site in dry tons.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

#### **F. Reporting Requirements**

The permittee shall report annually to the TCEQ Regional Office (MC Region 11) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division, by September 1 of each year the following information:

1. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.
2. The frequency of monitoring listed in Section I.C. which applies to the permittee.
3. Toxicity Characteristic Leaching Procedure (TCLP) results.
4. Identity of hauler(s) and TCEQ transporter number.
5. PCB concentration in sludge in mg/kg.
6. Date(s) of disposal.
7. Owner of disposal site(s).
8. Texas Commission on Environmental Quality registration number, if applicable.
9. Amount of sludge disposal dry weight (lbs/acre) at each disposal site.
10. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.
11. Level of pathogen reduction achieved (Class A or Class B).
12. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B sludge, include information on how site restrictions were met.
13. Vector attraction reduction alternative used as listed in Section I.B.4.
14. Annual sludge production in dry tons/year.

15. Amount of sludge land applied in dry tons/year.
16. The certification statement listed in either 30 TAC Section 312.47(a)(4)(A)(ii) or 30 TAC Section 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge treatment activities, shall be attached to the annual reporting form.
17. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.
  - a. The location, by street address, and specific latitude and longitude.
  - b. The number of acres in each site on which bulk sewage sludge is applied.
  - c. The date and time bulk sewage sludge is applied to each site.
  - d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk sewage sludge applied to each site.
  - e. The amount of sewage sludge (i.e., dry tons) applied to each site.

The above records shall be maintained on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

**SECTION III. REQUIREMENTS APPLYING TO ALL SEWAGE SLUDGE DISPOSED IN A MUNICIPAL SOLID WASTE LANDFILL**

- A. The permittee shall handle and dispose of sewage sludge in accordance with 30 TAC Chapter 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC Chapter 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
- B. If the permittee generates sewage sludge and supplies that sewage sludge to the owner or operator of a Municipal Solid Waste Landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.
- C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge disposal practice.
- D. Sewage sludge shall be tested once during the term of this permit in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR Section 261.24. Sewage sludge failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

Following failure of any TCLP test, the management or disposal of sewage sludge at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Registration, Review, and Reporting Division and the Regional Director (MC Region 11) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Registration, Review, and Reporting Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 11) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year.

- E. Sewage sludge shall be tested as needed, in accordance with the requirements of 30 TAC Chapter 330.

F. Record keeping Requirements

The permittee shall develop the following information and shall retain the information for five years.

1. The description (including procedures followed and the results) of all liquid Paint Filter Tests performed.
2. The description (including procedures followed and results) of all TCLP tests performed.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

G. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 11) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 1 of each year the following information:

1. Toxicity Characteristic Leaching Procedure (TCLP) results.
2. Annual sludge production in dry tons/year.
3. Amount of sludge disposed in a municipal solid waste landfill in dry tons/year.
4. Amount of sludge transported interstate in dry tons/year.
5. A certification that the sewage sludge meets the requirements of 30 TAC Chapter 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.
6. Identity of hauler(s) and transporter registration number.
7. Owner of disposal site(s).
8. Location of disposal site(s).
9. Date(s) of disposal.

The above records shall be maintained on-site on a monthly basis and shall be made available to the Texas Commission on Environmental Quality upon request.

**SPECIAL PROVISIONS:**

1. This permit is granted subject to the policy of the Commission to encourage the development of areawide waste collection, treatment and disposal systems. The Commission reserves the right to amend this permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an areawide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such areawide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.
2. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

This Category D facility must be operated by a chief operator or an operator holding a Category D license or higher. The facility must be operated a minimum of five days per week by the licensed chief operator or an operator holding the required level of license or higher. The licensed chief operator or operator holding the required level of license or higher must be available by telephone or pager seven days per week. Where shift operation of the wastewater treatment facility is necessary, each shift which does not have the on-site supervision of the licensed chief operator must be supervised by an operator in charge who is licensed not less than one level below the category for the facility.

3. The permittee shall maintain and operate the treatment facility in order to achieve optimum efficiency of treatment capability. This shall include required monitoring of effluent flow and quality as well as appropriate grounds and building maintenance.
4. Prior to construction of each phase of the treatment facilities the permittee shall submit to the TCEQ Wastewater Permitting Section (MC 148) a summary submittal letter in accordance with the requirements in 30 TAC Section 317.1. If requested by the Wastewater Permitting Section, the permittee shall submit plans, specifications and a final engineering design report which comply with 30 TAC Chapter 317, Design Criteria for Sewerage Systems. The permittee shall clearly show how the treatment system will meet the permitted effluent limitations required on Page 2 of the permit.
5. Prior to construction of the treatment facility, the permittee shall submit sufficient evidence of legal restrictions prohibiting residential structures within the part of the buffer zone not owned by the permittee according to 30 TAC Section 309.13(e)(3). The evidence of legal restrictions shall be submitted to the executive director in care of the TCEQ Wastewater Permitting Section (MC 148). The permittee shall comply with the requirements of 30 TAC Section 309.13(a) through (d). (See Attachment B.)
6. Monitoring requirements contained in the permit are suspended from the effective date of the permit until plant startup. The permittee shall provide written notice to the TCEQ Regional Office (MC Region 11) and the Applications Review and Processing Team (MC 148) of the Water Quality Division at least forty-five (45) days prior to plant startup or anticipated discharge, whichever comes first and prior to completion of each additional phase.

7. Application rates to the irrigated land shall not exceed 2.8 acre-feet per year per acre irrigated. The permittee is responsible for providing equipment to determine application rates and maintaining accurate records of the volume of effluent applied. These records shall be made available for review by the Texas Commission on Environmental Quality and shall be maintained for at least three years.
8. Irrigation practices shall be designed and managed so as to prevent ponding of effluent or contamination of ground and surface waters and to prevent the occurrence of nuisance conditions in the area. The golf course ground cover shall be established and well maintained in the irrigation area throughout the year for wastewater and nutrient uptake by the crop and to prevent pathways for wastewater surfacing. Tailwater control facilities shall be provided as necessary to prevent the discharge of any wastewater from the irrigated land.
9. Wastewater shall not be applied for irrigation during rainfall events or when the ground is frozen or saturated.
10. The permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply for any area where treated effluent is stored or where there exist hose bibs or faucets. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
11. Spray fixtures for the irrigation system shall be of such design that they cannot be operated by unauthorized personnel.
12. Irrigation with effluent shall be accomplished only when the area specified is not in use.
13. An annual analysis of a representative soil sample taken from the root zone of the irrigated site shall be made. Each soil boring shall be separated into three samples according to the following depth zones: 0 to 6 inches, 6 to 18 inches and 18 to 30 inches below the ground surface. Each zone shall be thoroughly mixed prior to being analyzed. Sampling procedures shall employ accepted techniques of soil science for obtaining representative analytical results. Analysis shall be performed for pH, total nitrogen, potassium, phosphorus and conductivity.

The permittee shall submit the results of the soil sample analyses to the TCEQ Regional Office (MC Region 11) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division during September of each year.

14. Holding ponds shall conform to the Texas Commission on Environmental Quality "Design Criteria for Sewerage Systems" requirements for stabilization ponds with regard to construction and levee design, and a minimum of 2 feet of freeboard shall be maintained.
15. Permanent transmission lines shall be installed from the holding pond to each tract of land to be irrigated utilizing effluent from that pond.
16. Facilities for the retention of treated or untreated wastewater shall be adequately lined to control seepage. The following methods of pond lining are acceptable.
  - a. In-situ clay soils or placed and compacted clay soils meeting the following requirements:

- 1) More than 30% passing a No. 200 mesh sieve
- 2) Liquid limit greater than 30%
- 3) Plasticity index greater than 15
- 4) A minimum thickness of 2 feet
- 5) Permeability equal to or less than  $1 \times 10^{-7}$  cm/sec (\*)
- 6) Soil compaction will be 95% standard proctor at optimum moisture content (\*)

(\*) For new and/or modified ponds only.

- b. Membrane lining with a minimum thickness of 20 mils, and an underdrain leak detection system.
- c. An alternate method of pond lining may be utilized with prior approval from the Executive Director.

The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed pond lining meets the appropriate criteria above prior to utilization of the facilities. The certification shall be sent to the TCEQ Regional Office (MC Region 11) and Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division.

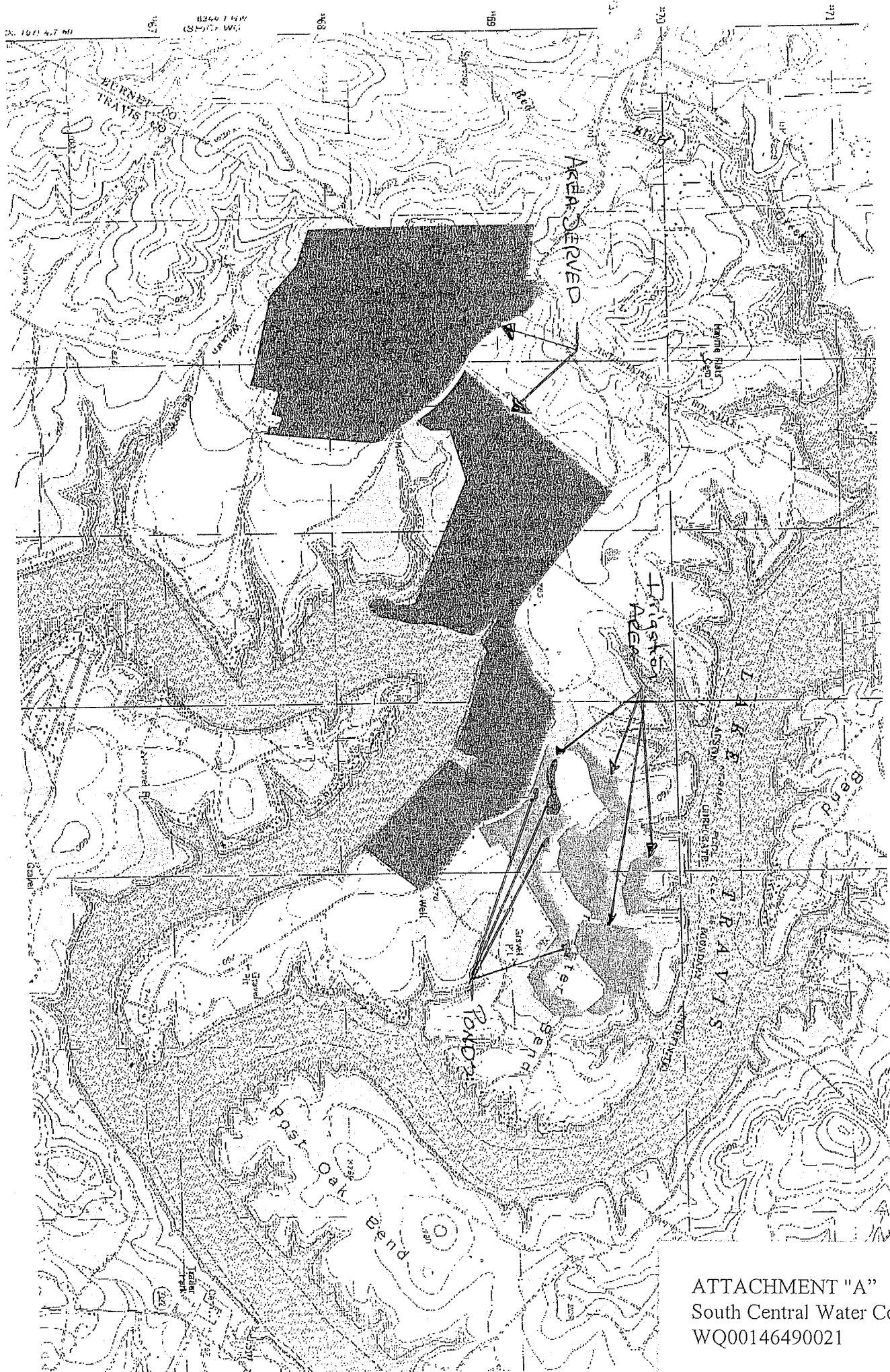
17. A vegetated buffer of 150 feet minimum shall be maintained around any water wells found on the golf course in accordance with §309.13 (c)(1).
18. A vegetation buffer of 100 feet minimum shall be maintained around surface water bodies, watercourses, or Lake Travis. The 100 foot vegetation buffer will also exclude the application of wastewater.
19. Should the applicant substitute monitoring wells for a synthetic liner underdrain leak detection system, the applicant will submit a Monitoring Plan and obtain written approval prior to the storage of wastewater in the proposed effluent pond from the Water Quality Assessment (WQA) Team (MC-150). The Monitoring Plan will contain the following:
  - a). A base map showing the footprint of the effluent pond, location of, at a minimum, 3 monitor wells placed equidistantly around the perimeter of the pond, a north arrow, and a scale;
  - b). An engineering diagram of the monitoring wells that show the dimension (width and depth) of the concrete pad surrounding the monitoring well, total depth of the well, screening interval that will collect water from a leaking liner;
  - c). Observation schedule for checking the presence of water in the monitoring wells and;
  - d). Provisions for analyzing the water that collects in the monitoring well and reporting the results to the TCEQ.

Upon receipt of approval, or approval with modifications, of the Monitoring Plan by the Executive Director, the permittee shall implement the Monitoring Plan in accordance with all schedules contained within the approved plan.

If the applicant chooses to propose another method other than monitoring wells that will substitute for an under-drain leak detection system, the applicant will submit the engineering proposal to the Water Quality Division Professional Engineer (MC-148) for approval, or approval with modifications, before storage of wastewater in the proposed effluent pond commences.

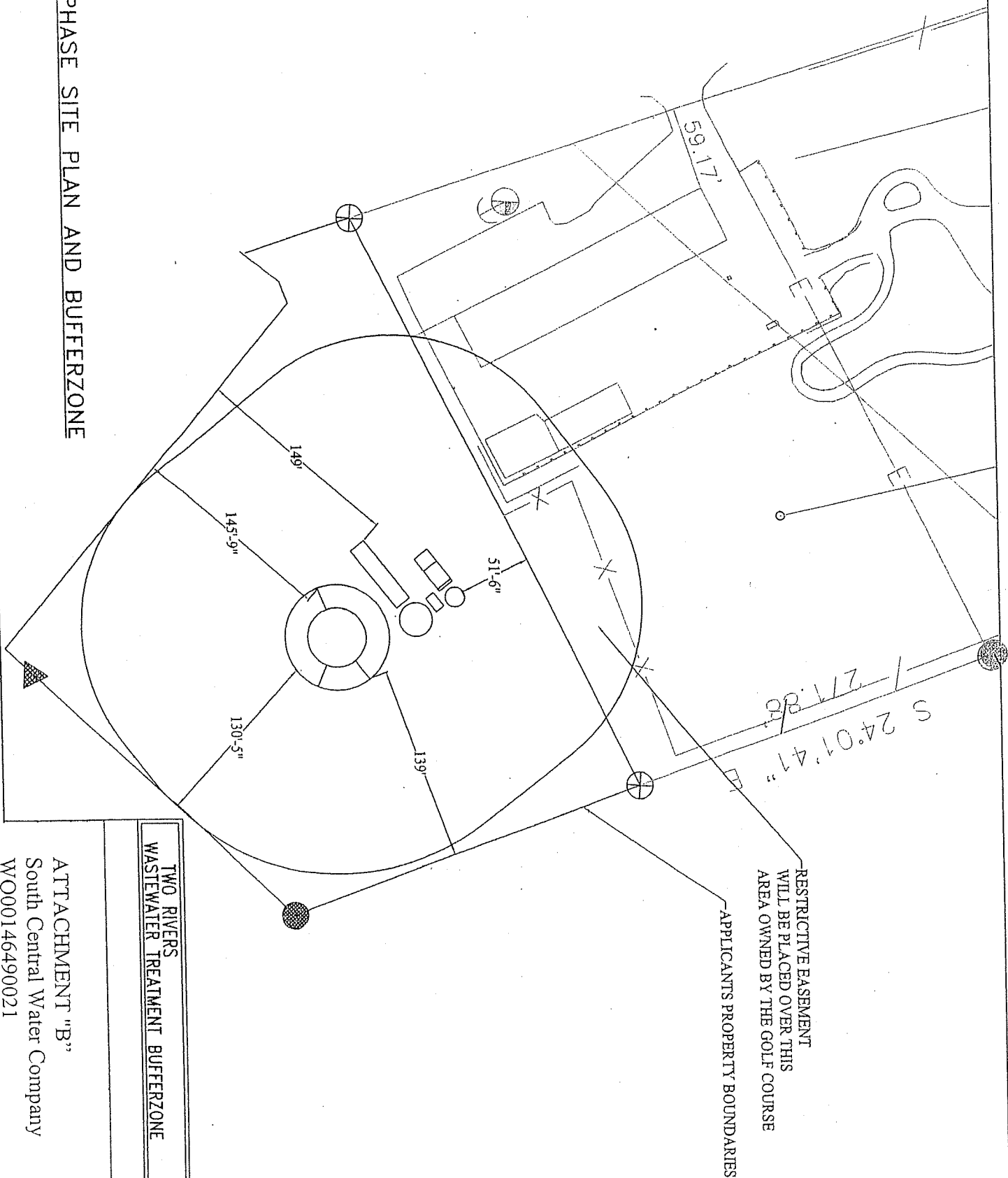


20. The WQA geologist recommends that the applicant consider the transition for using an existing pond on a golf course to contain wastewater. The golf course pond/lake level is traditionally (and by photographs contained in the permit) maintained at maximum freeboard for aesthetic reasons and to enhance the golf course landscape combining "playability with hazards". The ponds purpose will change when wastewater is introduced and storage will take precedence over the aesthetic qualities of maintaining a constant maximum freeboard. If the freeboard is maintained, as presently shown in photographs, the possibility will exist that during extended periods of precipitation, when no irrigation can occur, wastewater may have the opportunity to over flow the ponds containment area and constitute a discharge. A careful management of the volume of wastewater contained in the pond must include provisions for extended wet weather storage. Photographs also show a rock/tiled drain entering the pond that adds stormwater runoff to the ponds capacity. The stormwater now diverted to the pond area will need to be re-routed so as not to compromise the ponds ability to contain all the generated wastewater.
21. The permittee shall provide facilities for the protection of its wastewater treatment facilities from a 100-year flood.



ATTACHMENT "A"  
South Central Water Company  
WQ00146490021

# FINAL PHASE SITE PLAN AND BUFFERZONE



ATTACHMENT "B"  
South Central Water Company  
WQ00146490021



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**FIRST AMENDMENT TO AGREEMENT FOR THE DELIVERY  
AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES**

This Agreement is entered into by and between LAKECLIFF ON LAKE TRAVIS, L.P. ("Club") and SOUTH CENTRAL WATER COMPANY, INC. ("SCWC").

The above referenced Club and SCWC have heretofore entered into an "AGREEMENT FOR THE DELIVERY AND USE OF TREATED WASTEWATER EFFLUENT FOR PERMITTED PURPOSES" dated June 29, 2005.

The Club and SCWC hereby agree to adopt certain additional provisions as follows:

- 1) The June 29, 2005 agreement is affirmed, ratified, and incorporated herein as Exhibit "A."
- 2) Attached hereto and made a part hereof is Exhibit "B," a legal description of approximately 176 acres upon which the Club's golf course is located. The Club hereby commits to take and use the effluent to irrigate the golf course located within the tract described in Exhibit "B."
- 3) The Club acknowledges that the Security State Bank and Trust, Fredericksburg, Texas is the holder of lien or liens upon the property described in Exhibit "B" and the Club will obtain the Consent and Joinder of the Bank to the Agreement and the First Amendment thereto. Said Consent and Joinder is attached hereto as Exhibit "C" and made a part hereof.
- 4) All terms and conditions of the original agreement shall remain in full force and effect.



EXECUTED this the 9 day of June, 2006.

LAKECLIFF ON LAKE TRAVIS, L.P.

BY: Robert Day  
Robert Day, General Manager

STATE OF TEXAS

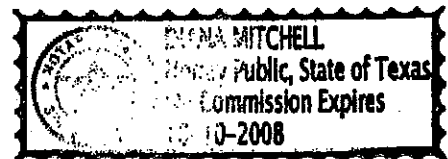
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COUNTY OF TRAVIS

This instrument was acknowledged before me on the 9<sup>th</sup> day of June, 2006, by ROBERT DAY, General Partner of Lakecliff on Lake Travis, L.P.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9<sup>th</sup> day of June, 2006.

[Signature]  
Notary Public-in and for  
the State of Texas



Executed this the 9 day of June, 2006.

SOUTH CENTRAL WATER COMPANY,  
INC.

BY: [Signature]  
Malcolm Bailey, President

STATE OF TEXAS  
COUNTY OF TRAVIS

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This instrument was acknowledged before me on the 9<sup>th</sup> day of June, 2006, by MALCOLM BAILEY, President of South Central Water Company, Inc.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9<sup>th</sup> day of June, 2006.

[Signature]  
Notary Public in and for  
the State of Texas



# EXHIBIT 'C'

## CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, being the owners and holders of an existing lien(s) upon and against the real property described in the foregoing First Amendment to Agreement for the Delivery and Use of Treated Wastewater Effluent for Permitted Purposes, as such lienholder, do hereby consent to and join in said Agreement.

This consent and joinder shall not be construed or operate as a release of any mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 9 day of June, 2006.

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherrod

Title: Sr. VP

THE STATE OF TEXAS  
COUNTY OF GILLESPIE

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BEFORE ME, the undersigned authority, on this day personally appeared Joe David Sherrod of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 9<sup>th</sup> day of June, 2006.



[Signature]  
Notary Public-State of Texas  
Printed Name of Notary:

Diana Mitchell  
My Commission Expires: Oct 10, 2008



01-6120076 GP



AMEND

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**SECOND AMENDMENT TO AGREEMENT FOR THE DELIVERY  
AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES**

This Agreement is entered into by and between LAKECLIFF ON LAKE TRAVIS, L.P. ("Club") and SOUTH CENTRAL WATER COMPANY, INC. ("SCWC").

The above referenced Club and SCWC have heretofore entered into an "AGREEMENT FOR THE DELIVERY AND USE OF TREATED WASTEWATER EFFLUENT FOR PERMITTED PURPOSES" dated June 29, 2005 and the "FIRST AMENDMENT TO AGREEMENT FOR DELIVERY AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES," dated June 9, 2006, hereinafter called "Prior Agreements," and said Prior Agreements are incorporated herein by reference.

The Club and SCWC hereby agree to adopt the following amendments and additional provisions:

- 1) The Club and SCWC agree that an additional treated effluent holding pond capacity will be needed by SCWC, and the Club hereby grants to SCWC an easement for the construction, installation, operation, repair, and maintenance of additional effluent holding pond or ponds capable of holding 23.3 acre feet of treated effluent. The easement granted herein shall be located within the approximate 70.896 acre tract described in the Prior Agreements and may utilize the existing effluent holding pond and adjacent sand trap area located near Haynie Flat Road to achieve the required holding capacity. Prior to constructing the holding pond, SCWC shall notify the Club of the exact dimensions of the pond and appurtenant access and maintenance berms, and SCWC and the Club agree to execute a revised easement for the holding point site and appurtenances.
- 2) The Club acknowledges that the Security State Bank and Trust, Fredericksburg, Texas is the holder of lien or liens upon the 70.896 acres described in the Prior Agreements, and the Club will obtain

EXHIBIT

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C-2



the Consent and Joinder of the Bank to the Agreement and the First Amendment thereto. Said Consent and Joinder is attached hereto as Exhibit "" and made a part hereof.

- 3) The Grantee shall have the right to assign any and all of its rights and interest herein and under the Prior Agreements.
- 4) All other terms and conditions of the original agreement and the First Amendment shall remain in full force and effect.

EXECUTED this the 5 day of Jan, 2006.

LAKECLIFF ON LAKE TRAVIS, L.P.

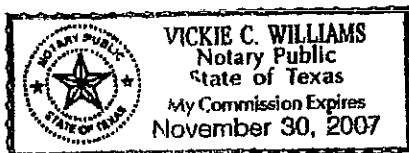
BY: Robert Day  
Robert Day, President, RD Inc.,  
General Partner for  
Lakecliff on Lake Travis, L.P.

STATE OF TEXAS

COUNTY OF TRAVIS

This instrument was acknowledged before me on the 5 day of Jan, 2006, by ROBERT DAY, General Partner for Lakecliff on Lake Travis, L.P.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 5 day of Jan, 2006.



Vickie Williams  
Notary Public in and for  
the State of Texas

Executed this the 5 day of Jan, 2006.<sup>7</sup>

SOUTH CENTRAL WATER COMPANY,  
INC.

BY: Malcolm Bailey  
Malcolm Bailey, President

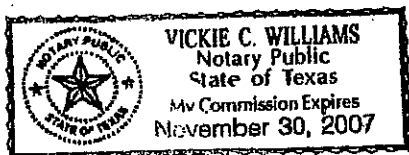
STATE OF TEXAS

COUNTY OF TRAVIS

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This instrument was acknowledged before me on the 5 day of Jan, 2006, by MALCOLM BAILEY, President of South Central Water Company, Inc.

Jan, 2006.  
GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 5 day of



Vickie Williams  
Notary Public in and for  
the State of Texas

X STA-CASH - Courtsey  
AFTER RECORDING, ~~RETURN TO:~~  
MALCOLM BAILEY  
5818 BEVERLY HILL, Suite 200  
HOUSTON, TX 77057

# CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, being the owners and holders of an existing lien(s) upon and against the real property described in the foregoing "SECOND AMENDMENT TO AGREEMENT FOR THE DELIVERY AND USE OF TREATED EFFLUENT FOR PERMITTED PURPOSES," as such lienholder, do hereby consent to and join in said Easement.

This consent and joinder shall not be construed or operate as a release of said mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 5<sup>th</sup> day of January, 2006.7

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherrod

Title: Gr. Vice President

THE STATE OF TEXAS  
COUNTY OF GILLESPIE Travis

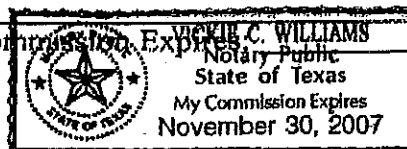
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BEFORE ME, the undersigned authority, on this day personally appeared Joe David Sherrod of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 5 day of Jan, 2006.7

[Signature]  
Notary Public-State of Texas  
Printed Name of Notary:

My Commission Expires



AGREEMENT FOR THE DELIVERY AND USE OF TREATED WASTEWATER  
EFFLUENT FOR PERMITTED PURPOSES

This Agreement is entered into between LAKECLIFF ON LAKE TRAVIS, LP (Club), a Texas partnership whose principal place of business is in Burnet County, Texas, and SOUTH CENTRAL WATER COMPANY, INC. (SCWC), a Texas corporation whose principal place of business is in Harris County, Texas.

1. PURPOSE

The purpose of this Agreement is to establish a mutually acceptable arrangement that complies with applicable state and federal regulations herein SCWC, a state-licensed retail public sewer utility, can deliver treated wastewater effluent (effluent) to the Club for use as an irrigation media on those portions of Club's golf course at the Lakecliff Country Club in Travis County, Texas suitable for such uses under the rules of the Texas Commission on Environmental Quality (TCEQ).

2. TERM

2.1 This Agreement shall become effective on the date of signature indicated herein.

2.2 Delivery of effluent shall not commence until:

- a) all necessary governmental permits for the wastewater treatment plant (WWTP) and other components of SCWC's sewer system that will generate the effluent have been received from the appropriate regulatory authorities;
- b) the WWTP and all associated plant and sewage collection system have been constructed and placed into commercial operation in conformance with their permits;
- c) the effluent disposal system, including all facilities necessary to transport the effluent to the Club for storage and/or irrigation have been constructed and tested; and
- d) SCWC has developed a sufficient customer base to generate a sufficient quantity of effluent to Club without disrupting the proper operation of the WWTP and causing a violation of its water quality permit.

2.2 Once effluent delivery from the WWTP to the Club has begun, this Agreement shall be in affect and run concurrent with the terms and extensions of all wastewater discharge permits associated with this plant.



### **3. PRICE**

**3.1 Club initially shall pay SCWC \$0.00 per 1,000 gallons of effluent delivered.**

**3.2 The price may be re-negotiated by the parties commencing in January of odd numbered years during any term of the Agreement. If no agreement on a new price is reached after a party has requested re-negotiation, the price shall remain fixed for one (1) additional two (2) year term. If a party asks to re-negotiate the price on the odd numbered year following the two (2) years of automatic no-price change and no agreement on price change is reached for a second consecutive time, the price shall automatically escalate ten (10%) percent. The price shall escalate ten (10%) every in January of odd number year thereafter until the parties re-negotiate a new base price; at which time, this cycle shall start again.**

### **4. DELIVERY OF EFFLUENT**

**4.1 SCWC shall deliver the effluent through a pipeline(s) owned and operated by SCWC that shall transport the effluent from the WWTP to a retention pond or lagoon located near or on the Club's golf course. The retention pond or lagoon shall be clay- or plastic-lined or otherwise meet the regulations of the TCEQ for effluent retention impoundments.**

**4.2 SCWC shall be responsible for maintaining and operating the effluent delivery lines to Club's retention pond.**

**4.3 Club shall be responsible for maintaining the retention pond and all facilities required thereafter (downstream) to deliver and disburse the effluent as an irrigation media over areas of the golf course (and any approved proximate areas). This shall include all irrigation system lines, controls, pumps, sprinkler heads, and other irrigation water supplies.**

**4.4 All facilities constructed by either party and all repairs made thereto shall be in conformance with applicable TCEQ rules.**

### **5. CONTROL**

**5.1 Since the wastewater permittee is always responsible to the TCEQ of the proper management and disposal of the treated effluent in conformance with the permit, SCWC must retain the exclusive right to terminate the flow of effluent at any time to insure that it is not discharge at inappropriate times or places in violation of health and environmental laws. SCWC's licensed operators shall be empowered to order anyone operating a holding pond or irrigating system using effluent to cease and desist from any act that violates the TCEQ permit. This authority shall not extend to ordering the cessation of use of other sources of water not produced by SCWC's WWTP, unless those other water supplies have been commingled with SCWC effluent.**

5.2 SCWC's effluent delivery system shall contain sufficient valves and controls that it can be closed at either end by SCWC employees or Contractors. Except during emergencies when necessary to prevent hazards to public health or safety or endangerment to public waters, the Club, its employees or contractors shall not have access to or the right to use such controls without the direct supervision of a licensed SCWC sewer operator being on-site at that time.

5.3 SCWC, its employees and contractors shall have an easement to enter and travel over and across the Club's property for the purpose of constructing, inspecting, maintaining, repairing, identifying and replacing any portion of the effluent transportation, retention and disbursal system on said property. SCWC's employees and contractors shall not interfere with or disturb portions of the irrigation system not owned by SCWC without prior notice to the Club unless delay would result in an immediate hazard to public health or safety or endangerment to state waters. In such emergency cases, SCWC's personnel shall take only such remedial actions as are necessary to fix the immediate problem and remove the threat(s).

5.4 Club shall provide SCWC with exclusive recorded easements for all SCWC pipelines and other facilities on Club property necessary to construct and operate the facilities necessary to fulfill SCWC's obligations under this Agreement. The Club shall be responsible for obtaining, at its cost, all easements necessary off the Club's property to construct and maintain the necessary effluent pipeline(s) and appurtenances. All pipeline easements shall be no less than twenty (20) feet in width, measured off the centerline of the pipeline. All pipeline easements shall have an adjacent parallel twenty (20) foot construction easement for the period of initial construction and testing. Easements for all other facilities shall extend no less than twenty (20) feet beyond the outermost points of the physical plant in question in all directions. Ingress/egress to all facilities must be granted. These easements may terminate one (1) year after the facilities have been permanently removed from any type of public utility service under state or federal permit(s), license(s) or certificate(s). SCWC shall have the right to abandon any underground plant or facilities, including pipelines, in place without obligation to the Club, other landowner or third party if such abandonment is permitted by state or federal regulations governing sewer utilities.

5.5 SCWC's exclusive rights to use the easements to be provided hereunder shall also include the right to remove or trim trees, shrubs, plants or other encumbrances as may be necessary to maintain the integrity of SCWC's facilities, make repairs, perform inspections or tests or otherwise comply with TCEQ rules. SCWC shall have a duty to restore the easement to its preconstruction condition as reasonably as possible. No permanent structures may be built in or across any easement; however, roadways and drives shall be permitted so long as they are not wider than Texas Department of Transportation specifications for a Farm-to-Market road without improved shoulders. Wider drives or roadways may be permitted on a case-by-case basis after the submission of plans to SCWC and the accommodation of SCWC's need of access to the pipeline under such paving.

5.6 Once effluent is delivered to the Club's retention pond, it shall be Club's responsibility (as SCWC's agent under the water quality permit) to manage and control the effluent in a manner that complies with all provisions of SCWC's wastewater permit, the Texas Water Code, TCEQ rules and USEPA rules. The Club shall not (without limitation):

- a) irrigate with effluent in places or under conditions that could reasonably result in the effluent coming into contact with humans;
- b) irrigate during a rainfall event;
- c) irrigate or release effluent any place where the effluent could run off into the waters of the state;
- d) irrigate with effluent at a rate greater than that authorized in SCWC's permit;  
or
- e) fail to use and record the data from any monitoring equipment ordered by the TCEQ in SCWC's wastewater permit or by rule or order.

5.7 If the Club violates any provision of §5.5 or other provision of SCWC's wastewater permit or TCEQ rule or order related to the maintenance or use of effluent, SCWC may terminate deliveries of effluent to the Club immediately. SCWC shall have the right to have all facilities capable of removing effluent from the retention pond and transporting it for irrigation use taken out of operation and locked under SCWC's control. In such cases, effluent deliveries and usage shall remain terminated until the offending condition has been adequately remedied. The Club shall be liable for all fines, penalties, clean up costs and other expenses arising from any such violation. SCWC shall be reimbursed for all reasonable expenses and costs it incurs in responding to or defending such violations within thirty (30) days of billing the Club for the same. The parties agree that they may use the same counsel and consultants to defend any enforcement action arising from such violation in the interest of keeping common costs low.

## 6. OTHER

6.1 This exclusive Agreement may not be canceled by SCWC or the Club their heirs, assigns, or successors in title or interest, by sale, gift, foreclosure, inheritance or otherwise, without the written consent of the other party.

6.2 The Club shall indemnify and save harmless SCWC and its agents and employees from all suits, actions, or claims of any character, type, or description brought or made on account of negligence or acts of omission or commission by the Club or its representatives, assigns or heirs occurring after the date of this agreement and relating in any way to water service to the effluent irrigation system. In the event a claim is made or a lawsuit is filed which would be subject to this indemnity, SCWC, its agents or employees, shall have the right to employ counsel, which counsel shall be satisfactory to the Club, and

the Club shall pay the reasonable and necessary attorney's fees incurred in defending such claim at the time fees are billed by the attorney.

6.3 SCWC shall indemnify and save harmless the Club and its agents and employees from all suits, actions, or claims of any character, type, or description brought or made on account of negligence or acts of omission or commission by SCWC or its representatives, assigns or heirs relating in any way to wastewater service to SCWC's certificated service area, the operation of the WWTP, or the delivery of effluent to the point of discharge at the retention pond. In the event a claim is made or a lawsuit is filed which would be subject to this indemnity, the Club, its agents or employees, shall have the right to employ counsel, which counsel shall be satisfactory to SCWC, and SCWC shall pay the reasonable and necessary attorney's fees incurred in defending such claim at the time fees are billed by the attorney.

6.4 This Agreement is performable in Harris and Burnet Counties, Texas. All parties agree that if any party(ies) should default on any of the conditions and covenants hereunder or threaten to do so, or should it be necessary for any reason for either to hire or retain an attorney to represent them in connection with this Agreement, the party(ies) found to be responsible agrees to pay to the prevailing party(ies) a reasonable amount for costs and attorney's fees. Before the commencement of litigation, the parties agree to submit any dispute arising hereunder not resolved by mutual agreement to mediation before a neutral third-party mediator ("Mediator"). The Mediator shall be selected by mutual agreement of the parties or by court order absent such agreement. The parties agree that this agreement may be enforceable by specific performance as well as any other remedy available at law or in equity. Venue over any civil cause of action arising from this agreement shall lie in the courts of Harris County, Texas and shall be subject to and interpreted by the laws of the State of Texas. Venue over any administrative cause of action arising from this agreement shall lie in TCEQ and the courts of Travis County, Texas.

6.5 SCWC and the Club acknowledge receipt of a complete copy of this Agreement and further acknowledge that they have carefully examined all terms and conditions and fully understand it.

6.6 The official addresses of the parties for purposes of notices, correspondence or other matters arising herefrom shall be the following until written notice to the other parties of any change:

Lakecliff on Lake Travis, LP  
Attn: Robert J. Day  
111 Clubland Court  
Spicewood, Texas 78669

The Club

South Central Water Company  
Attn: Malcolm D. Bailey, President  
5818 Beverly Hill, Suite 200  
Houston, Texas 77057

SCWC



Any and all notices or other communications required or permitted by this Agreement or by law to be delivered to, served on or given to either party to this Agreement, by the other party to this Agreement, shall be in writing and shall be deemed properly delivered, given or served when personally delivered to either party, the Club or SCWC, to whom it is directed, or in lieu of personal service, when deposited in the United States mail, first-class postage prepaid, certified mail, return receipt requested, at the address for notices set forth in this Agreement. The Club or SCWC may change this address for the purposes of this Paragraph by giving written notice of the change to the other party in the manner provided in this Agreement.

6.7 This Agreement supersedes any and all other agreements, either oral or in writing, between the parties hereto with respect to the subject matter hereof, and no other agreement, statement or promise relating to the subject matter of this Agreement which is not contained herein shall be valid or binding.

6.8 This Agreement shall be binding on the heirs, executors, administrators, legal representatives, successors and permitted assigns of the respective parties.

6.9 This Agreement may be amended by the mutual agreement of the parties herein in a written instrument specifically referencing this Agreement.

ENTERED on the 29 day of June, 2005.

THE CLUB

SCWC

BY:

Robert J. Day

BY:

Malcolm D. Bailey  
Malcolm D. Bailey, President

Robert J. Day, Pres. RJD, Inc  
print name & title

General Partner for  
Lakechiff on Lake Travis, L.P

# EXHIBIT "B"

**JAMES E. GARON**

REGISTERED PROFESSIONAL  
LAND SURVEYOR

Email: jgaron@austin.rr.com

924 Main Street  
Bastrop, Texas 78602  
512-303-4185  
512-321-2107 fax

July 17, 2002

**TRACT ONE:**

**LEGAL DESCRIPTION: BEING A 70.896 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN EWERS SURVEY NO. 308, THE JOHN EWERS SURVEY NO. 410 AND THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING**

**PORTIONS OF THAT CERTAIN 247.604 ACRE TRACT OF LAND AND 33.977 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155;**

**A PORTION OF THAT CERTAIN 5.88 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12750, PAGE 1417 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**A PORTION OF THAT CERTAIN 14.575 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000202389;**

**AND A PORTION OF THAT CERTAIN 5.002 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2001013138;**

**ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 70.896 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:**

**BEGINNING at an iron rod set on the southerly right-of-way line of Kahala Sunset Drive, being Lot 43, LakeCliff on Lake Travis Section Eleven as recorded by plat in Document No. 200100315 of the plat records of Travis County, Texas for the northwesterly corner of Lot 23 of said subdivision;**

**THENCE South 15°22'23" West a distance of 118.16 feet to an iron rod set for the southwest corner of said Lot 23;**

**THENCE along the southerly line of Lots 23-42 of said subdivision the following eight (8) calls:**

- 1. South 74°37'37" East a distance of 170.19 feet to an iron rod set for corner of Lots 23 and 24;**
- 2. South 86°58'15" East a distance of 199.92 feet to an iron rod set for corner of Lots 24 and 25;**
- 3. North 80°46'55" East a distance of 77.31 feet to an iron rod set for corner of Lots 25 and 26;**

4. North 75°5'38" East a distance of 76.61 feet to an iron rod set for corner of Lots 26 and 27;
5. North 69°22'47" East a distance of 76.96 feet to an iron rod set for corner of Lots 27 and 28;
6. North 63°39'05" East a distance of 77.41 feet to an iron rod set for corner of Lots 28 and 29;
7. North 60°36'38" East a distance of 448.00 feet to an iron rod set for corner of Lots 35 and 36;
8. North 58°38'00" East a distance of 585.56 feet to an iron rod set on the southerly line of Stableford Cove, being Lot 12, LakeCliff on Lake Travis Section Eight as recorded by plat in Document No. 200100316 of said plat records, for the most easterly corner of Lot 42;

THENCE along said line of Stableford Cove the following five (5) calls:

1. South 64°16'03" East a distance of 55.16 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 274.13 feet along the arc of said curve to the left having a radius of 360.00 feet and a chord bearing South 87°47'02" East a distance of 267.56 feet to an iron rod set for point of tangency;
3. North 70°24'05" East a distance of 63.09 feet to an iron rod set for point of curvature of a curve to the right;
4. a length of 203.30 feet along the arc of a said curve to the right having a radius of 360.00 feet and a chord bearing North 86°34'47" East a distance of 200.61 feet to an iron rod set for point of tangency;
5. South 77°14'31" East a distance of 56.11 feet to an iron rod set for the northwest corner of Lot 1, LakeCliff on Lake Travis Section Nine as recorded by plat in Document No. 200100314 of said plat records;

THENCE South 33°48'16" West a distance of 131.62 feet to an rod set for the most westerly corner of said Lot 1;

THENCE South 36°28'01" East a distance of 519.00 feet to an iron rod set for the most southerly corner of Lots 3 and 4 of said subdivision;

THENCE South 89°39'26" East a distance of 114.56 feet to an iron rod set for angle point on the southerly line of said Lot 4;

THENCE North 59°42'41" East a distance of 207.74 feet to an iron rod set for angle point on the southwesterly line of Lot 5 of said subdivision;

THENCE North 36°25'01" East a distance of 128.63 feet to an iron rod set for the most easterly corner of Lots 5 and 6 of said subdivision;

THENCE North 20°38'33" East a distance of 377.94 feet to an iron rod set on the curving southeasterly r-o-w line of Stableford Cove for the northeasterly corner of Lot 7, Lakecliff on Lake Travis Section Nine;

THENCE along said line of Stableford Cove the following four (4) calls:

1. a length of 18.40 feet along the arc of a curve to the left having a radius of 880.00 feet and a chord bearing North 63°5'10" East a distance of 18.40 feet to an iron rod set for point of tangency;
2. North 62°29'14" East a distance of 90.55 feet to an iron rod set for point of curvature of a curve to the left;
3. a length of 179.08 feet along the arc of said curve to the left having a radius of 330.00 feet and a chord bearing North 46°56'29" East a distance of 178.89 feet to an iron rod set for point of tangency;
4. North 31°23'43" East a distance of 17.08 feet to an iron rod set for the westerly corner of Lot 11, of said Lake Cliff on Lake Travis Section Eight;

THENCE along said Lot 11, South 58°38'17" East a distance of 87.13 feet to an iron rod set for angle point and South 6°47'43" East a distance of 225.10 feet to an iron rod set for the most southerly corner of said Lot 11, common with an angle point of Lot 1A, Block "A", Replat of Lot 1, Block "A"; Travis Lakeside Phase One as recorded by plat in Document No. 200100318 of said plat records;

THENCE along said Lot 1A the following nine (9) calls:

1. South 7°41'16" West a distance of 391.84 feet to an iron rod set for angle point;
2. South 47°24'05" West a distance of 328.85 feet to an iron rod set for angle point;
3. South 60°1'39" West a distance of 554.55 feet to an iron rod set for corner;
4. North 53°53'00" West a distance of 378.98 feet to an iron rod set for corner;
5. South 25°0'58" West a distance of 10.19 feet to an iron rod set for corner;
6. North 52°1'30" West a distance of 670.31 feet to an iron rod set for corner;
7. South 58°47'40" West a distance of 1190.33 feet to an iron rod set for angle point;
8. South 58°38'12" West a distance of 883.92 feet to an iron rod found for the most northerly corner of said 5.002 acre tract;
9. South 24°1'41" East a distance of 271.88 feet to an iron rod set for corner;

THENCE South 59°34'59" West a distance of 452.50 feet to an iron rod set on the northeasterly line of Haynie Flat Road;

THENCE along said line of Haynie Flat Road the following nine (9) calls:

1. North 21°49'35" West a distance of 552.80 feet to a point of curvature of a curve to the left;
2. a length of 415.97 feet along the arc of said curve to the left having a radius of 778.66 feet and a chord bearing North 33°9'08" West a distance of 411.04 feet to a point of compound curvature;
3. a length of 218.81 feet a curve to the left having a radius of 932.48 feet and a chord bearing North 58°26'30" West a distance of 218.32 feet to an endpoint;
4. North 84°25'35" West a distance of 182.76 feet to a point for corner;
5. North 25°34'27" East a distance of 5.22 feet to a point for corner;
6. North 64°25'35" West a distance of 56.48 feet to an angle point;
7. North 70°0'37" West a distance of 393.28 feet to an angle point;
8. North 69°10'15" West a distance of 195.53 feet to an angle point;
9. North 69°14'34" West a distance of 305.08 feet to an iron rod set for corner;

THENCE North 20°55'26" East a distance of 267.19 feet to an iron rod set for corner;

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THENCE South  $80^{\circ}19'48''$  East a distance of 50.67 feet to an iron rod set for corner;

THENCE North  $9^{\circ}40'12''$  East a distance of 28.90 feet to an iron rod set for corner on the southerly r-o-w line of Gallery Drive and Lot 43, LakeCliff on Lake Travis Section Eleven;

THENCE along Gallery Drive and said Lot 43 the following three (3) calls:

1. South  $80^{\circ}19'48''$  East a distance of 535.50 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 476.60 feet along the arc of said curve to the left having a radius of 818.20 feet and a chord bearing North  $82^{\circ}58'57''$  East a distance of 469.69 feet to an iron rod set for point of tangency;
3. North  $66^{\circ}17'43''$  East a distance of 481.07 feet to an iron rod set for point of curvature of a curve to the right;

THENCE a length of 39.43 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing South  $68^{\circ}31'08''$  East a distance of 35.47 feet to an iron rod set for point of tangency on the southwesterly r-o-w line of Kahala Sunset Drive;

THENCE along said line of Kahala Sunset Drive and Lot 43 the following three (3) calls:

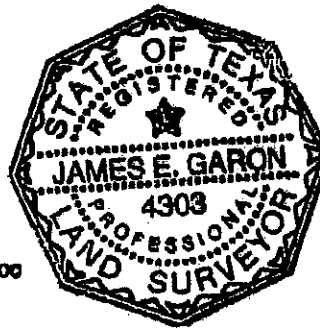
1. South  $23^{\circ}19'55''$  East a distance of 63.13 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 390.54 feet along the arc of said curve to the left having a radius of 438.18 feet and a chord bearing South  $48^{\circ}58'55''$  East a distance of 377.62 feet to an iron rod set for point of tangency;
3. South  $74^{\circ}37'37''$  East a distance of 258.83 feet to the POINT OF BEGINNING and containing 70.898 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:

  
James E. Garon

Registered Professional Land Surveyor

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**JAMES E. GARON**

REGISTERED PROFESSIONAL  
LAND SURVEYOR

Email: jgaron@austin.rr.com

924 Main Street  
Bastrop, Texas 78802  
512-303-4185  
512-321-2107 fax

July 17, 2002

**TRACT TWO:**

**LEGAL DESCRIPTION: BEING A 54.455 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN EWERS SURVEY NO. 308, THE JOHN EWERS SURVEY NO. 410 AND THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING**

**PORTIONS OF THAT CERTAIN 247.604 ACRE TRACT OF LAND AND 33.977 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155;**

**A PORTION OF THAT CERTAIN 5.86 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12750, PAGE 1417 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**AND A PORTION OF THAT CERTAIN 162.041 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12130, PAGE 1704 AND FORMERLY PLATTED AS LOTS 2-7, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 54.455 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:**

**BEGINNING at an iron rod set on the northerly right-of-way line of Gallery Drive, being Lot 43, LakeCliff on Lake Travis Section Eleven as recorded by plat in Document No. 200100315 of the plat records of Travis County, Texas for the southwesterly corner of Lot 9, LakeCliff on Lake Travis Section Twelve as recorded by plat in Document No. 200100324 of said plat records;**

**THENCE along Gallery Drive the following three (3) calls:**

- 1. North 80°19'48" West a distance of 42.27 feet to an iron rod set for point of curvature of a curve to the right;**
- 2. a length of 48.52 feet along the arc of said curve to the right having a radius of 440.00 feet and a chord bearing North 77°10'16" West a distance of 48.49 feet to an iron rod set for point of tangency;**
- 3. North 74°0'44" West a distance of 153.27 feet to an iron rod set for point of curvature of a curve to the right;**

**THENCE a length of 39.27 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing North 29°0'44" West a distance of 35.36 feet to an iron rod set**

for point of tangency on the easterly r-o-w line of Cliff Point as dedicated by plat of LakeCliff on Lake Travis Section One;

THENCE along said line of Cliff Point the following three (4) calls:

1. North  $15^{\circ}59'16''$  East a distance of 147.25 feet;
2. a length of 177.40 feet a curve to the right having a radius of 430.00 feet and with a chord bearing of North  $27^{\circ}48'24''$  East;
3. a length of 38.07 feet a curve to the right having a radius of 430.00 feet and with a chord bearing of North  $42^{\circ}9'43''$  East;
4. North  $44^{\circ}41'53''$  East a distance of 1017.26 feet;

THENCE South  $48^{\circ}27'31''$  East a distance of 122.58 feet to an iron rod set for angle point;

THENCE North  $75^{\circ}21'44''$  East a distance of 287.38 feet to an iron rod set for angle point;

THENCE North  $39^{\circ}6'27''$  East a distance of 379.01 feet to an iron rod set for the most westerly corner of Lot 1, LakeCliff on Lake Travis Section Thirteen as recorded by plat in Document No. 200100319 of said plat records;

THENCE South  $48^{\circ}46'22''$  East a distance of 244.08 feet to an iron rod set for the southerly corner of said Lot 1;

THENCE North  $37^{\circ}12'12''$  East a distance of 243.34 feet to an iron rod set on the southeasterly r-o-w line of Cliff Crossing for the most easterly corner of said Lot 1;

THENCE South  $52^{\circ}5'14''$  East a distance of 171.71 feet along said line of Cliff Crossing to an iron rod set for the most northerly corner of Lot 2, LakeCliff on Lake Travis Section Thirteen;

THENCE South  $37^{\circ}54'46''$  West a distance of 135.00 feet to an iron rod set for the westerly corner of said Lot 2;

THENCE South  $52^{\circ}5'14''$  East a distance of 240.00 feet to an iron rod set for the common corner of Lots 3 and 4 of said subdivision;

THENCE South  $16^{\circ}37'49''$  West a distance of 135.52 feet to an iron rod set for angle point;

THENCE South  $51^{\circ}9'56''$  East a distance of 421.12 feet along the southeasterly line of Lots 4 through 8 of said subdivision to an iron rod set for angle point;

THENCE North  $66^{\circ}33'17''$  East a distance of 170.21 feet to an iron rod set for angle point;

THENCE North  $35^{\circ}40'53''$  East a distance of 159.80 feet to an iron rod set on the curving southerly r-o-w line of Cliff Crossing for the easterly corner of Lot 9, LakeCliff on Lake Travis Section Thirteen;

THENCE along said line of Cliff Crossing the following four (4) calls:

1. a length of 459.36 feet along the arc of a curve to the left having a radius of 830.00 feet and a chord bearing South  $86^{\circ}1'49''$  East a distance of 453.52 feet to an iron rod set for point of tangency;
2. North  $78^{\circ}6'53''$  East a distance of 412.72 feet to an iron rod set for point of curvature of a curve to the right;
3. a length of 91.92 feet along the arc of said curve to the right having a radius of 300.00 feet and a chord bearing North  $86^{\circ}53'34''$  East a distance of 91.56 feet to an iron rod set for point of tangency;
4. South  $84^{\circ}19'45''$  East a distance of 50.00 feet to an iron rod set for point of curvature of a curve to the right;

THENCE a length of 39.27 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing South  $39^{\circ}19'45''$  East a distance of 35.36 feet to an iron rod set for point of tangency on the west r-o-w line of Kahala Sunset Drive;

THENCE along said r-o-w line, South  $5^{\circ}58'02''$  West a distance of 311.83 feet to an iron rod set for point of curvature of a curve to the right and a length of 148.54 feet along the arc of said curve to the right having a radius of 770.01 feet and a chord bearing South  $11^{\circ}29'41''$  West a distance of 148.31 feet to an iron rod set for the northeasterly corner of Lot 22, LakeCliff on Lake Travis Section Eleven;

THENCE North  $67^{\circ}45'48''$  West a distance of 115.00 feet to an iron rod set for the northwest corner of said Lot 22;

THENCE South  $39^{\circ}27'22''$  West a distance of 410.51 feet along the westerly line of Lots 16-22 of said subdivision to an iron rod set for the common westerly corner of Lots 15 and 16;

THENCE South  $61^{\circ}8'39''$  West a distance of 670.24 feet along the northwesterly line of Lots 5-15 of said subdivision to an iron rod set for the common corner of Lots 4 and 5;

THENCE South  $77^{\circ}41'11''$  West a distance of 167.68 feet to an iron rod set for angle point in the northerly line of Lot 2 of said subdivision;

THENCE North  $74^{\circ}44'23''$  West a distance of 288.44 feet to an iron rod set for the northwest corner of Lot 1, of said subdivision;

THENCE South  $16^{\circ}2'50''$  West a distance of 102.69 feet to an iron rod set on the northerly r-o-w line of Kahala Sunset Drive for the southwest corner of said Lot 1;

THENCE along said r-o-w line the following four (4) calls:

1. North  $74^{\circ}37'37''$  West a distance of 97.15 feet to an iron rod set for the point of curvature of a curve to the right;
2. a length of 336.82 feet along the arc of said curve to the right having a radius of 376.18 feet and a chord bearing North  $48^{\circ}58'56''$  West a distance of 325.68 feet to an iron rod set for point of tangency;
3. North  $23^{\circ}19'55''$  West a distance of 222.88 feet to an iron rod set for the point of curvature of a curve to the left;
4. a length of 39.95 feet along the arc of said curve to the left having a radius of 1146.96 feet and with a chord bearing of North  $27^{\circ}22'1''$  West a distance of 39.94 feet to an



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iron rod set for the southerly corner of Lot 22, LakeCliff on Lake Travis Section Twelve;

THENCE North  $64^{\circ}26'28''$  East a distance of 277.25 feet to an iron rod set for the easterly corner of said Lot 22;

THENCE North  $41^{\circ}53'00''$  West a distance of 646.05 feet along the northeasterly line of Lots 19-22 of said subdivision to an iron rod set for the most northerly point of said Lot 19;

THENCE South  $51^{\circ}7'22''$  West a distance of 110.59 feet to an iron rod set for the common northerly corner of Lots 18 and 19 of said subdivision;

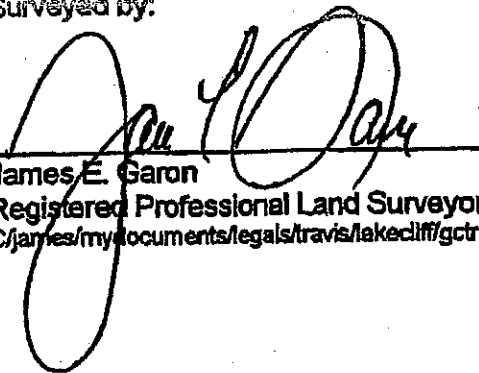
THENCE South  $52^{\circ}0'44''$  West a distance of 403.78 feet to an iron rod set for the common northerly corner of Lots 15 and 16 of said subdivision;

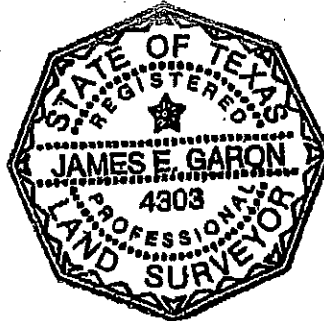
THENCE South  $76^{\circ}38'36''$  West a distance of 548.18 feet to an iron rod set for angle point in the northerly line of Lot 11;

THENCE South  $58^{\circ}6'51''$  West a distance of 286.93 feet to an iron rod set for angle point in the westerly line of Lot 10 of said subdivision;

THENCE South  $11^{\circ}3'59''$  West a distance of 307.41 feet to the POINT OF BEGINNING and containing 54.455 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:

  
James E. Garon  
Registered Professional Land Surveyor  
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# **JAMES E. GARON**

**REGISTERED PROFESSIONAL  
LAND SURVEYOR**

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Bastrop, Texas 78602  
512-303-4185  
512-321-2107 fax

**July 17, 2002**

## **TRACT THREE:**

**LEGAL DESCRIPTION: BEING A 12.115 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING**

**A PORTION OF THAT CERTAIN 247.604 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155;**

**A PORTION OF THAT CERTAIN 152.041 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12130, PAGE 1704 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 116 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**AND A PORTION OF THAT CERTAIN TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 200167661 AND FORMERLY PLATTED AS LOT 1, BLOCK "F"; LAKECLIFF ON LAKE TRAVIS SECTION FOUR BY PLAT RECORDED IN VOLUME 98, PAGE 26 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 12.115 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:**

**BEGINNING at an iron rod set on the curving, easterly right-of-way line of Cliff Overlook for the northwesterly corner of Lot 10, LakeCliff on Lake Travis Section Thirteen as recorded by plat in Document No. 200100319 of said plat records;**

**THENCE along said right-of-way line the following four (4) calls:**

- 1. a length of 28.45 feet along the arc of a curve to the left having a radius of 346.26 feet and a chord bearing North 29°3'25" East a distance of 28.45 feet to an iron rod set for point of compound curvature;**
- 2. a length of 48.37 feet along the arc of said compound curve to the left having a radius of 330.00 feet and a chord bearing**

North 22°22'19" East a distance of 48.32 feet to an iron rod set for endpoint;

3. North 18°10'23" East a distance of 286.57 feet to an iron rod set for point of curvature of a curve to the left;
4. a length of 51.32 feet along the arc of said curve to the left having a radius of 330.00 feet and a chord bearing North 13°43'05" East a distance of 51.27 feet to an iron rod set for the southwest corner of Lot 15, LakeCliff on Lake Travis Section Thirteen;

THENCE South 77°11'25" East a distance of 114.35 feet to an iron rod set for the common corner of Lots 15 and 16 of said subdivision;

THENCE South 56°22'48" East a distance of 48.73 feet to an iron rod set for the common corner of Lots 16 and 17 of said subdivision;

THENCE South 35°18'11" East a distance of 123.43 feet to an iron rod set for the common corner of Lots 17 and 18 of said subdivision;

THENCE South 20°43'26" East a distance of 140.36 feet to an iron rod set for the southwesterly corner of Lot 18 of said subdivision;

THENCE South 89°23'09" East a distance of 66.77 feet to an iron rod set on the curving r-o-w line of Cliff Overlook for the southeasterly corner of Lot 18, LakeCliff on Lake Travis Section Thirteen;

THENCE a length of 59.31 feet along the arc of said curving r-o-w line to the left having a radius of 55.00 feet and a chord bearing South 30°16'37" East a distance of 56.47 feet to an iron rod set for endpoint;

THENCE South 65°51'13" East a distance of 59.72 feet to an iron rod set for angle point on the southerly line of Lot 43, LakeCliff on Lake Travis Section Five as recorded by plat in Volume 102, page 267 of said plat records;

THENCE continuing along said Lot 43 the following four (4) calls:

1. South 66°1'38" East a distance of 75.64 feet to an iron rod set for angle point;
2. South 85°36'41" East a distance of 184.23 feet to an iron rod set for angle point;
3. North 73°27'24" East a distance of 180.97 feet to an iron rod set for angle point;

4. North 44°56'06" East a distance of 141.91 feet to an iron rod set for corner of Lot 43 and angle point of Lot 10, LakeCliff on Lake Travis Section Six as recorded by plat in Document No. 2000075155 of said plat records;

THENCE South 41°7'14" East a distance of 82.88 feet to an iron rod set for the common corner of Lots 9 and 10, LakeCliff on Lake Travis Section Six;

THENCE South 10°23'21" West a distance of 132.34 feet to an iron rod set for the southwest corner of Lot 9 of said subdivision;

THENCE North 89°35'45" East a distance of 98.36 feet to an iron rod set for the northwest corner of Lot 8 of said subdivision;

THENCE South 0°24'15" East a distance of 142.41 feet to an iron rod set for the common corner of Lots 7 and 8 of said subdivision;

THENCE South 2°22'40" East a distance of 89.05 feet to an iron rod set for angle point;

THENCE South 5°8'05" East a distance of 63.30 feet to an iron rod set for the common corner of Lots 5, 6 and 7 of said subdivision;

THENCE South 78°6'53" West a distance of 144.97 feet to an iron rod set for the northwest corner of Lot 5 of said subdivision;

THENCE South 11°53'07" East a distance of 170.00 feet to an iron rod set on the northerly r-o-w line of Cliff Crossing for the southwest corner of Lot 5 of said subdivision;

THENCE South 78°6'53" West a distance of 25.00 feet along said r-o-w line to an iron rod set for the southeast corner of Lot 4 of said subdivision;

THENCE North 11°53'07" West a distance of 170.00 feet to an iron rod set for the northeast corner of Lot 4 of said subdivision;

THENCE South 78°6'53" West a distance of 270.00 feet to an iron rod set for the common corner of Lots 2 and 3 of said subdivision;

THENCE North 86°49'32" West a distance of 122.63 feet to an iron rod set for the common corner of Lots 1 and 2 of said subdivision;

THENCE North 53°12'34" West a distance of 97.78 feet to an iron rod set for the common corner of Lot 1, LakeCliff on Lake Travis Section Six and Lot 14, LakeCliff on Lake Travis Section Thirteen;

THENCE North 74°0'06" West a distance of 397.82 feet to an iron rod set for angle point on the north line of Lot 12, LakeCliff on Lake Travis Section Thirteen;

July 17, 2002

THENCE North 31°59'53" West a distance of 152.22 feet to an iron rod set for the common corner of Lots 10 and 11 of said subdivision;

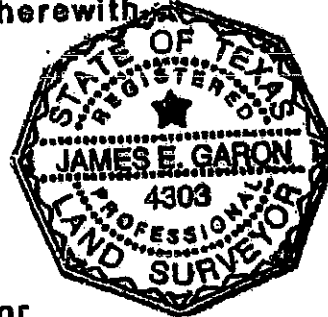
THENCE North 13°51'16" West a distance of 119.75 feet to an iron rod set for angle point on the north line of Lot 10 and North 80°48'59" West a distance of 100.69 feet to the POINT OF BEGINNING and containing 12.115 acres of land, more or less, and as shown on map of survey prepared herewith;

Surveyed by:

  
James E. Garon

Registered Professional Land Surveyor

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# **JAMES E. GARON**

**REGISTERED PROFESSIONAL  
LAND SURVEYOR**

Email: jgaron@austin.rr.com

924 Main Street  
Bastrop, Texas 78602  
512-303-4185  
512-321-2107 fax

July 3, 2002

## **TRACT FOUR:**

**LEGAL DESCRIPTION: BEING A 39.335 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN MOAT SURVEY NO. 412, IN TRAVIS COUNTY, TEXAS AND BEING A PORTION OF THAT CERTAIN 247.604 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155 OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 39.335 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:**

**BEGINNING at an iron rod set on the curving westerly right-of-way line of Stableford Cove, being Lot 12, LakeCliff on Lake Travis Section Eight as recorded by plat in Document No. 200100316 of the plat records of Travis County, Texas, for the southerly corner of Lot 1, LakeCliff on Lake Travis Section Eight;**

**THENCE along said line of Stableford Cove the following eight (8) calls:**

- 1. a length of 107.77 feet along the arc of a curve to the left having a radius of 60.00 feet and a chord bearing South 64°2'20" East a distance of 93.86 feet to an iron rod set for point of reverse curvature;**
- 2. a length of 25.59 feet along the arc of said reverse curve to the right having a radius of 25.00 feet and a chord bearing South 86°10'30" East a distance of 24.49 feet to an iron rod set for point of compound curvature;**
- 3. a length of 86.86 feet along the arc of said compound curve to the right having a radius of 220.00 feet and a chord bearing South 45°32'31" East a distance of 86.30 feet to an iron rod set for endpoint;**
- 4. South 34°13'51" East a distance of 112.87 feet to an iron rod set for the point of curvature of a curve to the right;**
- 5. a length of 49.12 feet along the arc of said curve to the right having a radius of 220.00 feet and a chord bearing South 27°50'05" East a distance of 49.02 feet to an iron rod set for endpoint;**
- 6. South 21°26'18" East a distance of 68.66 feet to an iron rod set for point of curvature of a curve to the right;**

7. a length of 202.87 feet along the arc of said curve to the right having a radius of 220.00 feet and a chord bearing South  $4^{\circ}58'43''$  West a distance of 195.76 feet to an iron rod set for endpoint;
8. South  $31^{\circ}23'43''$  West a distance of 159.41 feet to an iron rod set for the most easterly corner of Lot 12, LakeCliff on Lake Travis Section Ten as recorded by plat in Document No. 200100313 of said plat records;

THENCE North  $41^{\circ}25'41''$  West a distance of 518.49 feet to an iron rod set for the common northerly corner of Lots 8 and 9, LakeCliff on Lake Travis Section Ten;

THENCE South  $88^{\circ}28'13''$  West a distance of 157.10 feet to an iron rod set for the common northerly corner of Lots 7 and 8, LakeCliff on Lake Travis Section Ten;

THENCE South  $48^{\circ}12'42''$  West a distance of 817.16 feet to an iron rod set on the curving, northerly line of Stableford Cove for the most westerly corner of Lot 1, LakeCliff on Lake Travis Section Ten;

THENCE along said line off Stableford Cove the following four (4) calls:

1. a length of 81.80 feet along the arc of a curve to the left having a radius of 420.00 feet and a chord bearing South  $75^{\circ}58'50''$  West a distance of 81.67 feet to an iron rod set for point of tangency;
2. South  $70^{\circ}23'17''$  West a distance of 63.09 feet to an iron rod set for point of curvature of a curve to the right;
3. a length of 227.57 feet along the arc of said curve to the right having a radius of 299.84 feet and a chord bearing North  $87^{\circ}52'08''$  West a distance of 222.15 feet to an iron rod set for point of tangency;
4. North  $64^{\circ}14'22''$  West a distance of 303.13 feet to an iron rod set for the point of curvature of a curve to the right;

THENCE a length of 38.53 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing North  $20^{\circ}4'59''$  West a distance of 34.83 feet to an iron rod set for point of reverse curvature on the east line of Kahala Sunset Drive;

THENCE along said line of Kahala Sunset Drive the following six (6) calls:

1. a length of 262.27 feet along the arc of said reverse curve to the left having a radius of 830.01 feet and a chord bearing North  $15^{\circ}1'13''$  East a distance of 261.18 feet to an iron rod set for point of tangency;

July 3, 2002

2. North 5°58'02" East a distance of 312.14 feet to an iron rod set for angle point;
3. North 5°40'15" East a distance of 160.00 feet to an iron rod set for point of curvature of a curve to the right;
4. a length of 127.74 feet along the arc of said curve to the right having a radius of 324.70 feet and a chord bearing North 16°56'30" East a distance of 126.92 feet to an iron rod set for point of reverse curvature;
5. a length of 127.11 feet along the arc of said reverse curve to the left having a radius of 330.00 feet and a chord bearing North 10°37'51" East a distance of 126.33 feet to an iron rod set for point of tangency;
6. North 0°24'15" West a distance of 82.70 feet to an iron rod set for corner;

THENCE North 86°56'55" East a distance of 200.93 feet to an iron rod set for corner;

THENCE North 16°29'05" East a distance of 196.61 feet to an iron rod set for angle point;

THENCE North 46°52'53" East a distance of 153.87 feet to an iron rod set for angle point;

THENCE South 82°24'34" East a distance of 143.90 feet to an iron rod set for the southwest corner of Lot 5, LakeCliff on Lake Travis Section Seven as recorded by plat in Document No. 200100317 of said plat records;

THENCE along the south line of said LakeCliff on Lake Travis Section Seven the following five (5) calls:

1. South 65°40'38" East a distance of 133.00 feet to an iron rod set for angle point;
2. South 71°40'13" East a distance of 149.17 feet to an iron rod set for angle point;
3. South 79°9'11" East a distance of 155.46 feet to an iron rod set for angle point;
4. South 86°20'14" East a distance of 134.03 feet to an iron rod set for angle point;
5. South 89°58'36" East a distance of 160.85 feet to an iron rod set for the southeast corner of Lot 1, LakeCliff on Lake Travis Section Seven;

THENCE South 0°1'24" West a distance of 167.81 feet to a point for the southwest corner of Lot 29, LakeCliff on Lake Travis Section Six as recorded by plat in Document No. 200000343 of said plat records and northwest corner of Lot 1, LakeCliff on Lake Travis Section Eight;

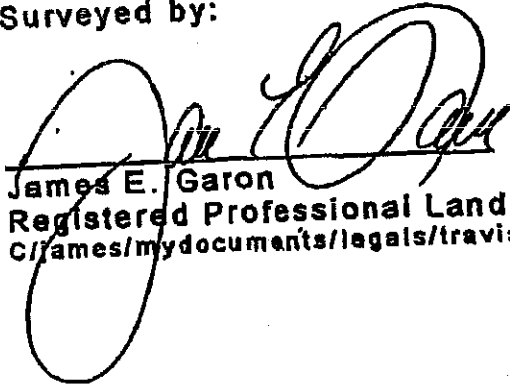


July 3, 2002

THENCE South  $14^{\circ}48'06''$  East a distance of 371.06 feet to an iron rod set for the southwesterly corner of said Lot 1;

THENCE South  $85^{\circ}30'06''$  East a distance of 81.57 feet to the POINT OF BEGINNING and containing 39.335 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:



James E. Garon

Registered Professional Land Surveyor

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9 PGS

**TREATED EFFLUENT LINE EASEMENT****EXHIBIT****"D"**

THE STATE OF TEXAS  
COUNTY OF TRAVIS

§  
§  
§

KNOW ALL MEN  
BY THESE PRESENTS:

THAT LAKECLIFF ON LAKE TRAVIS, L.P., a Texas limited partnership (hereinafter called "Grantor"), for Ten and No/100 Dollars (\$10.00) and other good and valuable consideration to Grantor in hand paid by SOUTH CENTRAL WATER COMPANY, the address of which is SCWC, c/o Paul A. Philbin & Assoc., P.C., 6363 Woodway Drive, Suite 725, Houston, Texas 77057 (hereinafter called "Grantee"), the receipt and adequacy of which are hereby acknowledged and confessed, and subject to the matters set forth below, has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL, and CONVEY, unto Grantee a non-exclusive easement (the "Easement") for the purpose of constructing, maintaining, operating, repairing and reconstructing a treated effluent line and related facilities, subject to the terms and provisions hereinafter set forth, under, across, and through those certain tract of land containing 70.896 acres of land (the "Easement Tract") and described more fully in Exhibit "A", attached hereto and incorporated herein by this reference for all purposes.

Prior to the initial construction of the treated effluent line, Grantee shall have the right to go over and across the land of Grantor within the Easement Tract for purposes of performing surveys and other such necessary pre-construction work; provided, however, that no excavation work, earth moving work, or other such work shall be undertaken by Grantee on any lands of Grantor other than the Easement except as hereinafter provided. The Grantor and Grantee have a separate agreement whereby the Grantor has agreed to accept treated effluent from the Grantee for the purpose of irrigating the golf course located within the Lakecliff on Lake Travis Subdivision containing approximately 176 acres. The treated effluent line will be constructed to transport treated effluent from the Grantee's Sewage

**EXHIBIT**

tabbies

**"A"**

Treatment Facilities adjacent to the Easement Tract to a lake located on the Easement Tract. Grantee shall use his best efforts to locate the treated effluent line so as not to conflict with any of the Grantee's existing or proposed development. After the initial construction of the treated effluent line, Grantee, from time to time, shall have a right of ingress and egress over, along, and across the Easement Tract for purposes of maintaining, altering, and/or inspecting the treated effluent line or operating Grantee's treated effluent line and all associated equipment and appurtenances thereto. Except as otherwise specifically set forth in this paragraph, Grantee shall have no right to go or travel upon, over, or across any lands of Grantor except for the Easement Tract. Nothing contained herein shall grant or be construed as granting to Grantee the right to use the Easement Tract for any purpose other than for the purposes herein specified. Upon completion of the construction of the treated effluent line, Grantee agrees that he will execute a replacement easement which will restrict the easement to tract of land not wider than 30 feet.

It is expressly provided that Grantor reserves unto itself its heirs and assigns, all other rights in and to the Easement which do not unreasonably interfere with or prevent the use of the Easement herein granted and conveyed to Grantee. It is expressly agreed and provided that Grantee shall have the right to make reasonable use of the surface of the Easement Tract for the installation of surface facilities and equipment appurtenant to the treated effluent line. It is additionally provided that the use the this Easement shall not unreasonably interfere with any existing easements on the Easement Tract and that, if required, the Grantee will obtain any approval required.

The Easement hereby granted is non-exclusive, and Grantor, its successors, substitutes, and assigns, shall have the right from time to time to grant further easements over, across, through, and under the Easement Tract for any lawful purpose, provided that the holder of such easements does not unduly or unreasonably interfere with Easement rights herein granted.

Grantor acknowledges that the Security State Bank and Trust, Fredericksburg, Texas, has a lien or liens on the Easement Tract and that he will obtain their consent and joinder in this conveyance and said consent and joinder is attached hereto and made a part hereof as Exhibit "B".

TO HAVE AND TO HOLD the above described Easement together with all and singular, the rights and appurtenances thereto anywise belonging unto the said Grantee, its successors and assigns forever; and Grantor does hereby bind Grantor and Grantor's heirs, executors, administrators, successors, and assigns to WARRANT AND FOREVER DEFEND, all and singular, the said Easement unto the said Grantee, and its respective successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof, subject to all of the terms, conditions, provisions, and limitations herein above set forth and provided.

EXECUTED this 9 day of June, 2006.

LAKECLIFF ON LAKE TRAVIS, L.P.

BY: Robert Day  
ROBERT DAY, General Partner

STATE OF TEXAS

COUNTY OF TRAVIS

§  
§  
§  
§

This instrument was acknowledged before me on the 9th day of June, 2006, by ROBERT DAY, General Partner of Lakecliff on Lake Travis, L.P.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this the 9th day of June, 2006.

Diana Mitchell  
Notary Public in and for  
the State of Texas

X Courtsey Recording  
CASH STAMP  
**AFTER RECORDATION, RETURN TO:**  
**PAUL A. PHILBIN & ASSOC.**  
**6363 WOODWAY, SUITE 725**  
**HOUSTON, TX 77057**



**JAMES E. GARON**

REGISTERED PROFESSIONAL  
LAND SURVEYOR

Email: jgaron@austin.rr.com

924 Main Street  
Bastrop, Texas 78602  
512-303-4185  
512-321-2107 fax

July 17, 2002

**TRACT ONE:**

**LEGAL DESCRIPTION: BEING A 70.896 ACRE TRACT OF LAND LYING IN AND SITUATED OUT OF THE JOHN EWERS SURVEY NO. 308, THE JOHN EWERS SURVEY NO. 410 AND THE JOHN MOAT SURVEY NO. 412, ALL IN TRAVIS COUNTY, TEXAS AND BEING**

**PORTIONS OF THAT CERTAIN 247.804 ACRE TRACT OF LAND AND 33.977 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000075155;**

**A PORTION OF THAT CERTAIN 5.88 ACRE TRACT OF LAND CONVEYED TO LAKE TRAVIS PROPERTIES, INC. BY DEED RECORDED IN VOLUME 12750, PAGE 1417 AND FORMERLY PLATTED AS LOT 1, BLOCK "C"; LAKECLIFF ON LAKE TRAVIS SECTION ONE BY PLAT RECORDED IN VOLUME 94, PAGE 118 OF THE PLAT RECORDS OF TRAVIS COUNTY, TEXAS;**

**A PORTION OF THAT CERTAIN 14.575 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2000202389;**

**AND A PORTION OF THAT CERTAIN 5.002 ACRE TRACT OF LAND CONVEYED TO LAKECLIFF ON LAKE TRAVIS L.P. BY DEED RECORDED IN DOCUMENT NO. 2001013138;**

**ALL OF THE OFFICIAL DEED RECORDS OF TRAVIS COUNTY, TEXAS; SAID 70.896 ACRE TRACT BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS AND AS SURVEYED UNDER THE SUPERVISION OF JAMES E. GARON & ASSOCIATES IN JUNE, 2002:**

**BEGINNING at an iron rod set on the southerly right-of-way line of Kahala Sunset Drive, being Lot 43, LakeCliff on Lake Travis Section Eleven as recorded by plat in Document No. 200100315 of the plat records of Travis County, Texas for the northwesterly corner of Lot 23 of said subdivision;**

**THENCE South 15°22'23" West a distance of 118.16 feet to an iron rod set for the southwest corner of said Lot 23;**

**THENCE along the southerly line of Lots 23-42 of said subdivision the following eight (8) calls:**

- 1. South 74°37'37" East a distance of 170.19 feet to an iron rod set for corner of Lots 23 and 24;**
- 2. South 86°58'15" East a distance of 199.92 feet to an iron rod set for corner of Lots 24 and 25;**
- 3. North 80°46'55" East a distance of 77.31 feet to an iron rod set for corner of Lots 25 and 26;**

**EXHIBIT A**

July 17, 2002

4. North 75°5'38" East a distance of 76.61 feet to an iron rod set for corner of Lots 26 and 27;
5. North 69°22'47" East a distance of 76.96 feet to an iron rod set for corner of Lots 27 and 28;
6. North 63°39'05" East a distance of 77.41 feet to an iron rod set for corner of Lots 28 and 29;
7. North 60°36'38" East a distance of 448.00 feet to an iron rod set for corner of Lots 35 and 36;
8. North 58°38'00" East a distance of 585.56 feet to an iron rod set on the southerly line of Stableford Cove, being Lot 12, LakeCliff on Lake Travis Section Eight as recorded by plat in Document No. 200100316 of said plat records, for the most easterly corner of Lot 42;

THENCE along said line of Stableford Cove the following five (5) calls:

1. South 64°16'03" East a distance of 55.16 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 274.13 feet along the arc of said curve to the left having a radius of 360.00 feet and a chord bearing South 87°47'02" East a distance of 267.56 feet to an iron rod set for point of tangency;
3. North 70°24'05" East a distance of 63.09 feet to an iron rod set for point of curvature of a curve to the right;
4. a length of 203.30 feet along the arc of a said curve to the right having a radius of 360.00 feet and a chord bearing North 86°34'47" East a distance of 200.61 feet to an iron rod set for point of tangency;
5. South 77°14'31" East a distance of 56.11 feet to an iron rod set for the northwest corner of Lot 1, LakeCliff on Lake Travis Section Nine as recorded by plat in Document No. 200100314 of said plat records;

THENCE South 33°48'16" West a distance of 131.62 feet to an rod set for the most westerly corner of said Lot 1;

THENCE South 36°28'01" East a distance of 519.00 feet to an iron rod set for the most southerly corner of Lots 3 and 4 of said subdivision;

THENCE South 89°39'26" East a distance of 114.56 feet to an iron rod set for angle point on the southerly line of said Lot 4;

THENCE North 59°42'41" East a distance of 207.74 feet to an iron rod set for angle point on the southwesterly line of Lot 5 of said subdivision;

THENCE North 36°25'01" East a distance of 128.63 feet to an iron rod set for the most easterly corner of Lots 5 and 6 of said subdivision;

THENCE North 20°38'33" East a distance of 377.94 feet to an iron rod set on the curving southeasterly r-o-w line of Stableford Cove for the northeasterly corner of Lot 7, Lakecliff on Lake Travis Section Nine;

THENCE along said line of Stableford Cove the following four (4) calls:

1. a length of 18.40 feet along the arc of a curve to the left having a radius of 880.00 feet and a chord bearing North  $63^{\circ}5'10''$  East a distance of 18.40 feet to an iron rod set for point of tangency;
2. North  $62^{\circ}29'14''$  East a distance of 90.55 feet to an iron rod set for point of curvature of a curve to the left;
3. a length of 179.08 feet along the arc of said curve to the left having a radius of 330.00 feet and a chord bearing North  $46^{\circ}56'29''$  East a distance of 176.89 feet to an iron rod set for point of tangency;
4. North  $31^{\circ}23'43''$  East a distance of 17.08 feet to an iron rod set for the westerly corner of Lot 11, of said LakeCliff on Lake Travis Section Eight;

THENCE along said Lot 11, South  $58^{\circ}36'17''$  East a distance of 67.13 feet to an iron rod set for angle point and South  $6^{\circ}47'43''$  East a distance of 225.10 feet to an iron rod set for the most southerly corner of said Lot 11, common with an angle point of Lot 1A, Block "A", Replat of Lot 1, Block "A"; Travis Lakeside Phase One as recorded by plat in Document No. 200100318 of said plat records;

THENCE along said Lot 1A the following nine (9) calls:

1. South  $7^{\circ}41'16''$  West a distance of 391.64 feet to an iron rod set for angle point;
2. South  $47^{\circ}24'05''$  West a distance of 328.85 feet to an iron rod set for angle point;
3. South  $60^{\circ}1'39''$  West a distance of 554.55 feet to an iron rod set for corner;
4. North  $53^{\circ}53'00''$  West a distance of 376.96 feet to an iron rod set for corner;
5. South  $25^{\circ}0'58''$  West a distance of 10.19 feet to an iron rod set for corner;
6. North  $52^{\circ}1'30''$  West a distance of 670.31 feet to an iron rod set for corner;
7. South  $58^{\circ}47'40''$  West a distance of 1190.33 feet to an iron rod set for angle point;
8. South  $58^{\circ}38'12''$  West a distance of 883.92 feet to an iron rod found for the most northerly corner of said 5.002 acre tract;
9. South  $24^{\circ}1'41''$  East a distance of 271.88 feet to an iron rod set for corner;

THENCE South  $59^{\circ}34'59''$  West a distance of 452.50 feet to an iron rod set on the northeasterly line of Haynie Flat Road;

THENCE along said line of Haynie Flat Road the following nine (9) calls:

1. North  $21^{\circ}49'35''$  West a distance of 552.80 feet to a point of curvature of a curve to the left;
2. a length of 415.97 feet along the arc of said curve to the left having a radius of 778.66 feet and a chord bearing North  $33^{\circ}9'08''$  West a distance of 411.04 feet to a point of compound curvature;
3. a length of 216.61 feet a curve to the left having a radius of 932.48 feet and a chord bearing North  $56^{\circ}26'30''$  West a distance of 216.32 feet to an endpoint;
4. North  $64^{\circ}25'35''$  West a distance of 182.76 feet to a point for corner;
5. North  $25^{\circ}34'27''$  East a distance of 5.22 feet to a point for corner;
6. North  $64^{\circ}25'35''$  West a distance of 56.48 feet to an angle point;
7. North  $70^{\circ}0'37''$  West a distance of 393.28 feet to an angle point;
8. North  $69^{\circ}10'15''$  West a distance of 195.53 feet to an angle point;
9. North  $69^{\circ}14'34''$  West a distance of 305.06 feet to an iron rod set for corner;

THENCE North  $20^{\circ}55'26''$  East a distance of 267.19 feet to an iron rod set for corner;

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THENCE South  $80^{\circ}19'48''$  East a distance of 50.67 feet to an iron rod set for corner;

THENCE North  $9^{\circ}40'12''$  East a distance of 28.90 feet to an iron rod set for corner on the southerly r-o-w line of Gallery Drive and Lot 43, LakeCliff on Lake Travis Section Eleven;

THENCE along Gallery Drive and said Lot 43 the following three (3) calls:

1. South  $80^{\circ}19'48''$  East a distance of 535.50 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 476.60 feet along the arc of said curve to the left having a radius of 818.20 feet and a chord bearing North  $82^{\circ}58'57''$  East a distance of 469.89 feet to an iron rod set for point of tangency;
3. North  $86^{\circ}17'43''$  East a distance of 481.07 feet to an iron rod set for point of curvature of a curve to the right;

THENCE a length of 39.43 feet along the arc of said curve to the right having a radius of 25.00 feet and a chord bearing South  $68^{\circ}31'08''$  East a distance of 35.47 feet to an iron rod set for point of tangency on the southwesterly r-o-w line of Kahala Sunset Drive;

THENCE along said line of Kahala Sunset Drive and Lot 43 the following three (3) calls:

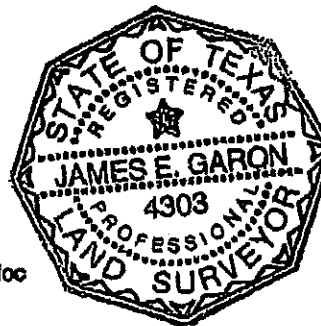
1. South  $23^{\circ}19'55''$  East a distance of 63.13 feet to an iron rod set for point of curvature of a curve to the left;
2. a length of 390.54 feet along the arc of said curve to the left having a radius of 436.18 feet and a chord bearing South  $48^{\circ}58'55''$  East a distance of 377.62 feet to an iron rod set for point of tangency;
3. South  $74^{\circ}37'37''$  East a distance of 258.83 feet to the POINT OF BEGINNING and containing 70.898 acres of land, more or less, and as shown on map of survey prepared herewith.

Surveyed by:

  
James E. Garon

Registered Professional Land Surveyor

C:\james\mydocuments\legals\travis\lakecliff\gctract1rev.doc





# EXHIBIT 'B'

## CONSENT OF LIENHOLDER

The undersigned, Security State Bank and Trust, Fredericksburg, Texas, being the owners and holders of an existing lien(s) upon and against the real property described in the foregoing Treated Effluent Line Easement, as such lienholder, do hereby consent to and join in said Easement.

This consent and joinder shall not be construed or operate as a release of any mortgage or liens owned and held by the undersigned, or any part thereof.

SIGNED this the 9<sup>th</sup> day of June, 2006.

SECURITY STATE BANK AND TRUST  
FREDERICKSBURG, TEXAS

BY: [Signature]

Name: Joe David Sherrod

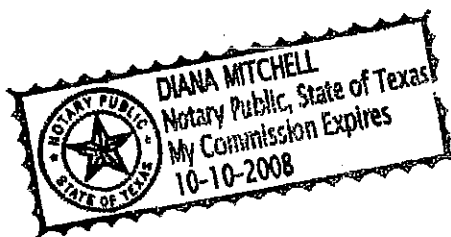
Title: Sr. V.P.

THE STATE OF TEXAS  
COUNTY OF GILLESPIE

§  
§

BEFORE ME, the undersigned authority, on this day personally appeared Joe David Sherrod of Security State Bank and Trust, Fredericksburg, Texas, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

GIVEN under my hand and seal this the 9<sup>th</sup> day of June, 2006.



[Signature]  
Notary Public-State of Texas  
Printed Name of Notary:

Diana Mitchell  
My Commission Expires: Oct 10, 2008

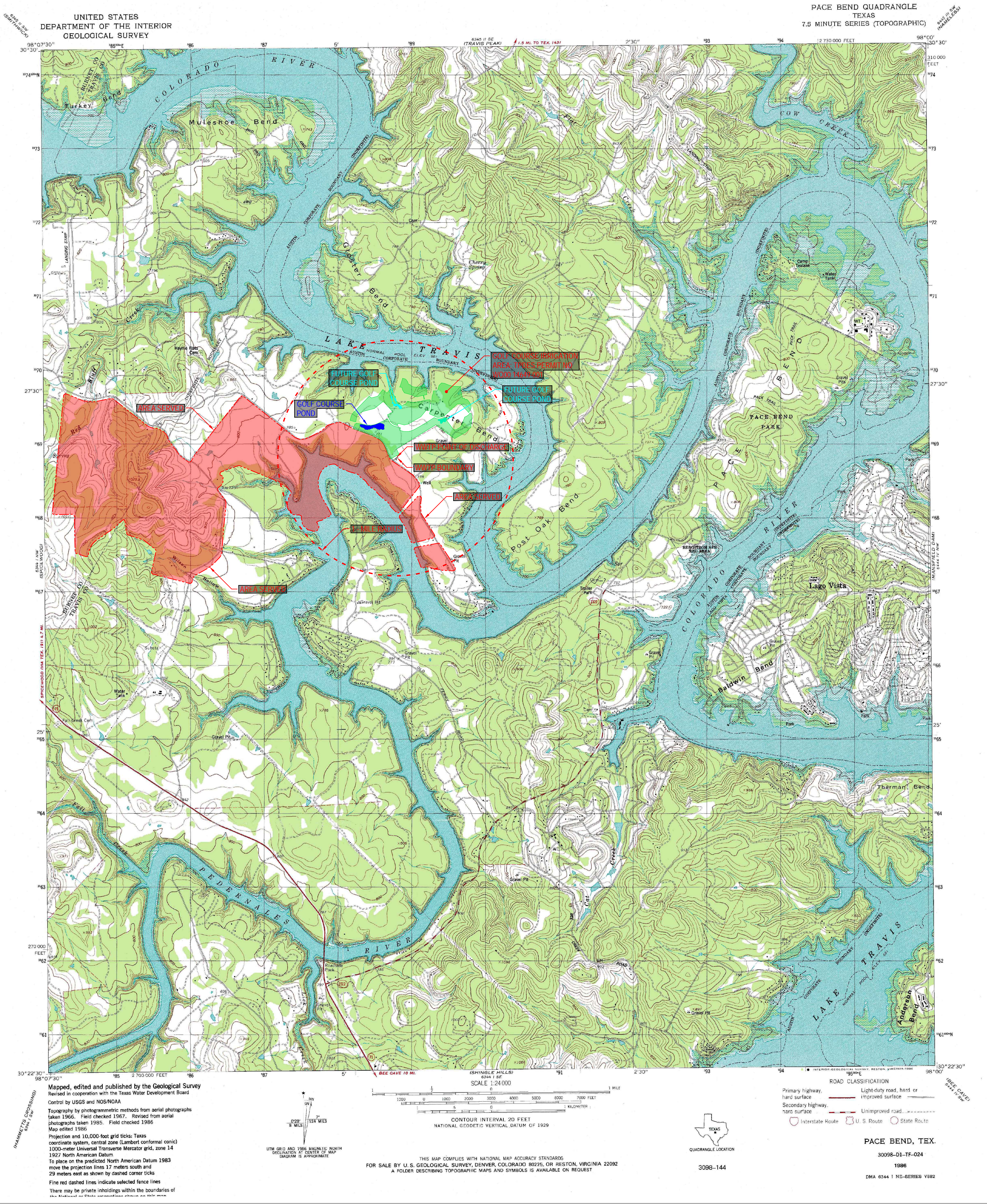
## **Attachment 2**

### **USGS Quadrangle Maps**

### **Section 13, Page 11 of 24**

(Administrative Report 1.0)

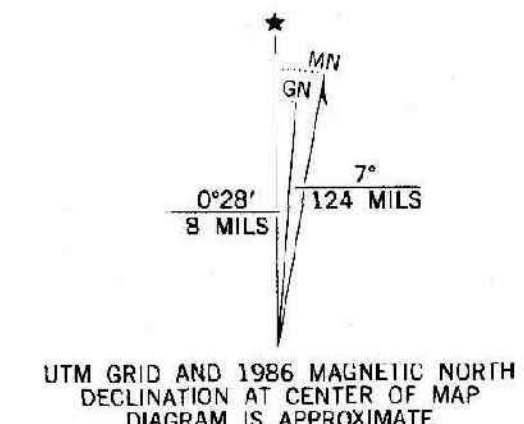




UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

PACE BEND QUADRANGLE  
TEXAS  
7.5 MINUTE SERIES (TOPOGRAPHIC)

Maped, edited and published by the Geological Survey  
Revised in cooperation with the Texas Water Development Board  
Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial photographs  
taken 1966. Field checked 1967. Revised from aerial  
photographs taken 1985. Field checked 1986  
Map edited 1986  
Projection and 10,000-foot grid ticks: Texas  
coordinate system, central zone (Lambert conformal conic)  
1000-meter Universal Transverse Mercator grid, zone 14  
1927 North American Datum  
To place on the predicted North American Datum 1983  
move the projection lines 17 meters south and  
29 meters east as shown by dashed corner ticks  
Fine red dashed lines indicate selected fence lines  
There may be private inholdings within the boundaries of  
the National or State boundaries shown on this map



SCALE 1:24,000  
CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION  
Primary highway, hard surface  
Secondary highway, hard surface  
Unimproved road, hard or improved surface  
Unimproved road, hard or improved surface  
Interstate Route  
U. S. Route  
State Route  
PACE BEND, TEX.  
30098-D1-TF-024  
1986  
DMA 6344 1 NE-SERIES V982



This map shows the area around the Two Rivers WWTP, which is marked with a red dot and labeled 'TWO RIVERS WWTP' and '7,8,9'. A large red circle indicates a '1-MILE RADIUS' from the facility. Within this radius, 14 numbered locations are marked with orange circles and labeled 1 through 14. The map also shows various roads, including Travis Oaks Dr, Brasada St, Canyon Dr, Post Oak Bend, Haynie Flat Rd, and Cox Crossing Rd. Other landmarks include Pace Bend Park and the Two Rivers Golf Club. The map is oriented with North at the top.



TEXAS WATER DEVELOPMENT BOARD

The data in Water Data Interactive represents the best available information provided by the TWDB and third-party cooperators of the TWDB. The TWDB provides information via this web site as a public service. Neither the State of Texas nor the TWDB assumes any legal liability or responsibility or makes any guarantees or warranties as to the accuracy, completeness or suitability of the information for any particular purpose. The TWDB systematically revises or removes data discovered to be incorrect. If you find inaccurate information or have questions, please contact WDI-Support@twdb.texas.gov.

## STATE OF TEXAS WELL REPORT for Tracking #548603

Owner: **Lakecliff Racquet Club**

Owner Well #: **No Data**

Address: **25609 Kahala Sunset Ct  
Spicewood, TX 78669**

Grid #: **57-40-5**

Well Location: **25609 Kahala Sunset Ct  
Spicewood, TX 78669**

Latitude: **30° 27' 19" N**

Longitude: **098° 04' 42" W**

Well County: **Travis**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/7/2020**

Drilling End Date: **5/7/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>246</b>

Drilling Method: **Air Rotary**

Borehole Completion: **3/8 Pea Gravel 100-246**

Annular Seal Data: **No Data**

Seal Method: **Pressure**

Sealed By: **Driller**

Distance to Property Line (ft.): **15**

Distance to Septic Field or other  
concentrated contamination (ft.): **50**

Distance to Septic Tank (ft.): **50**

Method of Verification: **Land Owner**

Surface Completion: **Surface Sleeve Installed**

**Surface Completion by Driller**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 60+ GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>107 - 226</b>	<b>Trinity - TDS 650</b>

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: **Apex Drilling, Inc.**  
**P.O. Box 867**  
**Marble Falls, TX 78654**

Driller Name: **Andrew Jackson Johnson**

License Number: **54989**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>1</b>	<b>Top Soil</b>
<b>1</b>	<b>22</b>	<b>Ta Red LS</b>
<b>22</b>	<b>47</b>	<b>Tan LS</b>
<b>47</b>	<b>80</b>	<b>Gray Tan LS</b>
<b>80</b>	<b>107</b>	<b>Gray Clay</b>
<b>107</b>	<b>128</b>	<b>Red SS</b>
<b>128</b>	<b>159</b>	<b>Gravel</b>
<b>159</b>	<b>169</b>	<b>Red SS</b>
<b>169</b>	<b>226</b>	<b>Gravel</b>
<b>226</b>	<b>246</b>	<b>Tan Clay</b>

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Dia (in.)</i>	<i>Type</i>	<i>Material</i>	<i>Sch./Gage</i>	<i>Top (ft.)</i>	<i>Bottom (ft.)</i>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>SDR17</b>	<b>2</b>	<b>166</b>
<b>4.5</b>	<b>Screen</b>	<b>New Plastic (PVC)</b>	<b>.035</b>	<b>166</b>	<b>226</b>
<b>4.5</b>	<b>Blank</b>	<b>New Plastic (PVC)</b>	<b>SDR17</b>	<b>226</b>	<b>246</b>

---

**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 #281349

Owner:	Lakecliff Country Club	Owner Well #:	1
Address:	1700 Kahala Sunset Drive Spicewood, TX 78669	Grid #:	57-40-5
Well Location:	1700 Kahala Sunset Drive Spicewood, TX 78669	Latitude:	30° 27' 16" N
Well County:	Travis	Longitude:	098° 04' 38" W
		Elevation:	809 ft. above sea level
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **2/29/2012**      Drilling End Date: **3/13/2012**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	9.875	0	220

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	Top Depth (ft.)	Bottom Depth (ft.)	Filter Material	Size
Filter Pack Intervals:	16	220	Gravel	

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	116	15ptln2hlp12bns

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **200+**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **153 ft. below land surface on 2012-03-06**      Measurement Method: **Unknown**

Packers: **Gravel Pack**

Type of Pump: **Submersible**      Pump Depth (ft.): **200**

Well Tests: **Pump**      Yield: **30 GPM**



Water Quality:

Strata Depth (ft.)	Water Type
160-220	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: **Whisenant & Lyle Water Services**  
**P.O. Box 525**  
**Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	4	Topsoil
4	18	Brown Red Limestone
18	19	Yellow White Limestone
19	28	White Limestone
28	29	Yellow Limestone
29	39	Yellow White Limestone
39	40	Void
40	45	Brown Limestone
45	70	Gray Limestone
70	75	Brown Clay
75	83	Gray Limestone
83	86	Blue Clay
86	140	Sand Brown Limestone
140	155	Red Clay Sand
155	218	Red Sand Big Rock
218	240	Black Clay-Smith Wick

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
6.9	New	PVC-SDR 171B	+2'/106'
6.9	New	PVC-17 Slotted	.035 160'/220'

---

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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 #342767

Owner:	<b>Mark Sitterle</b>	Owner Well #:	<b>1</b>
Address:	<b>2400 Cliff Point Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>2400 Cliff Point Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 15" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 31" W</b>
		Elevation:	<b>535 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/17/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>240</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>124</b>	<b>240</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>124</b>	<b>1hlp5bns6TypH</b>

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **35**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **300+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **124 ft. below land surface on 2013-09-18**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**      Pump Depth (ft.): **180**

Well Tests: **Jetted**      Yield: **15+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
160/230	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: **Whisenant & Lyle Water Services**

**P.O. Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Comments: **TDS 500**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	Topsoil
2	18	White Brown Yellow Limestone
18	20	Brown Limestone
20	30	Tan Brown Limestone
30	40	Gray Limestone wet
40	43	Brown Limestone
43	74	Gray Limestone
74	76	Brown Shale
76	85	Gray Limestone Shale
85	110	Red Sandstone Rock
110	140	Brown Limestone Rock
140	230	Brown Rock
230	240	Gravel Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/180'
4.5	New	PVC-17 Slotted .035	180'/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 #342864

Owner:	<b>Rod Sellers</b>	Owner Well #:	<b>1</b>
Address:	<b>P.O. Box 890649 Houston, TX 77289</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25714 Cliff Circle Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 21" N</b>
		Longitude:	<b>098° 04' 26" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>768 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/24/2013**      Drilling End Date: **9/25/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>220</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>100</b>	<b>220</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>177</b>	<b>2hlp5bns19TypH</b>

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **5**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **250+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **144 ft. below land surface on 2013-09-26**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**      Pump Depth (ft.): **180**

Well Tests: **Jetted**      Yield: **15+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
160/220	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: **Whisenant & Lyle Water Services**

**P.O. Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Comments: **TDS 500**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	22	White Limestone
22	45	Brown Limestone Sand Wet
45	95	Gray Limestone Shale
95	118	Red Sandstone Sand
118	160	Red Brown Sandstone
160	216	Brown Sandstone Rock
216	220	Gray Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/160'
4.5	New	PVC-17 Slotted	.035 160'/220'

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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 #356159

Owner:	<b>Bart Jones</b>	Owner Well #:	<b>1</b>
Address:	<b>25630 Cliff Crossing Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25630 Cliff Crossing Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 23" W</b>
		Elevation:	<b>731 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **2/21/2014**      Drilling End Date: **2/24/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.5</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>140</b>	<b>200</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>140</b>	<b>10bns/7hlp/3tyH</b>

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **20**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **6**

Variance Number: **032-14**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Unknown**

Water Level: **112 ft. below land surface on 2014-02-24**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted**      **Yield: 15-18 GPM**



Water Quality:

Strata Depth (ft.)	Water Type
140/200	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: **Whisenant & Lyle Water Services**

**P.O. Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Comments: **TDS 650  
Variance 032-14**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	6	White Limestone Hard
6	7	Brown Limestone
7	15	Brown White Limestone Hard
15	17	Brown Sandstone
17	32	Gray Limestone
32	55	Gray Limestone
55	60	Gray Shale
60	62	Brown Sandstone
62	80	Gray Limestone
80	90	Red Sandstone Damp
90	92	Blue Shale Gravel
92	120	Red Sandstone
120	140	Gravel Red Sandstone
140	198	Gravel & Rock
198	200	Blue Shale Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/140'
4.5	PVC-17	Slotted .035	140'/200'

---

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P.O. Box 12157  
Austin, TX 78711  
(512) 334-5540**

## STATE OF TEXAS WELL REPORT for Tracking #342763

Owner:	<b>Stephan James</b>	Owner Well #:	<b>1</b>
Address:	<b>3030 Cliff Overlook Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>3030 Cliff Overlook Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 20" N</b>
		Longitude:	<b>098° 04' 13" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>950 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/19/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>200</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>130</b>	<b>2hpg5bnsI6TypH</b>

Seal Method: **Pos. Displacement**

Sealed By: **Driller**

Distance to Property Line (ft.): **9'**

Distance to Septic Field or other  
concentrated contamination (ft.): **200+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **125 ft. below land surface on 2013-09-24**      Measurement Method: **Unknown**

Packers: **6MIL Poly 100'**

Type of Pump: **Submersible**

Well Tests: **Jetted**      **Yield: 06 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
160/195	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: **Whisenant & Lyle Water Services**

**P.O. Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Comments: **TDS 500**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	5	White Limestone
5	6	Brown Limestone
6	16	Brown White Limestone
16	50	Gray Limestone
50	55	Gray Shale
55	70	Gray Red Shale
70	78	Gray Limestone
78	90	Brown Red Sand
90	180	Red Sand Rock
180	195	Brown Sand Rock
195	200	Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB	+2'/140'
4.5	New	PVC-17 Slotted .035	140'/180'
4.5	New	PVC-SDR 17IB	180'/200'

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## STATE OF TEXAS WELL REPORT for Tracking #366269

Owner:	<b>Terry Neiman</b>	Owner Well #:	<b>No Data</b>
Address:	<b>PO Box 4007 Horseshoe Bay, TX 78657</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25264 Kahala Sunset Court Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 11" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 27" W</b>
		Elevation:	<b>771 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **6/2/2014**

Drilling End Date: **6/4/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8.75</b>	<b>0</b>	<b>240</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>154</b>	<b>240</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>154</b>	<b>2 3/8hp12bs2ptl</b>

Seal Method: **Pos. displacement**

Distance to Property Line (ft.): **15**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **N/A**

Variance Number: **064-14**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **160 ft. below land surface on 2014-06-02** Measurement Method: **Unknown**

Packers: **Gravel Pack**

Type of Pump: **Submersible** Pump Depth (ft.): **200**

Well Tests: **Jetted** Yield: **10-15 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
140-240	Good TDS 470

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: **Whisenant & Lyle Water Services****PO Box 525  
Dripping Springs, TX 78620**Driller Name: **Martin Lingle**License Number: **54813**Apprentice Name: **Travis Haffelder**Apprentice Number: **58603**Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Topsoil
1	3	Red tan sandstone
3	4	White limestone
4	10	Brown tan limestone sandstone
10	21	Red tan sand clay
21	24	White limestone
24	44	White brown sandstone
44	51	Brown sandstone
51	85	Gray limestone
85	90	Gray shale
90	95	Red gray shale
95	113	Gray sandstone
113	130	Red sandstone
130	230	Brown sandstone rock
230	240	Blue brown shale

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB +2	to 160
4.5	New	PVC-17 Slotted .035	160 to 220
4.5	New	PVC-SDR 17IB	220 to 240

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## STATE OF TEXAS WELL REPORT for Tracking #342868

Owner:	<b>Bill Thomas</b>	Owner Well #:	<b>1</b>
Address:	<b>25616 Kahala Sunset Ct. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25616 Kahala Sunset Ct. Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 11" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 04' 26" W</b>
		Elevation:	<b>793 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/25/2013**      Drilling End Date: **9/27/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>260</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>123</b>	<b>200</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>127</b>	<b>1h1pg5bns16TypH</b>

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **6**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **167 ft. below land surface on 2013-09-26**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**      Pump Depth (ft.): **200**

Well Tests: **Jetted**      Yield: **20+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
200/260	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: **Whisenant & Lyle Water Services**

**P.O. Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Comments: **TDS 500**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-1/2		Topsoil
1/2-6		Red Clay Sand
6-18		Red Sandstone White Limestone
18-20		Brown Limestone
20-45		White Limestone
45-47		Brown Sandstone White Limestone
47-53		Brown Limestone
53-110		Gray Limestone
110-135		Red Sandstone
135-137		Brown Sandstone
137-200		Red Rock Sandstone
200-250		Brown Limestone
250-260		Black Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 17IB	+2'/200'
4.5	New	PVC-17 Slotted	.035 200'/260'

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## STATE OF TEXAS WELL REPORT for Tracking #342870

Owner:	<b>John &amp; Sheryl Scott</b>	Owner Well #:	<b>1</b>
Address:	<b>25617 Kahala Sunset Ct. Spicewood, TX 78669</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25617 Kahala Sunset Ct Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 10" N</b>
		Longitude:	<b>098° 04' 26" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>793 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Irrigation</b>

Drilling Start Date: **9/18/2013**      Drilling End Date: **9/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>280</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Filter Packed**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
Filter Pack Intervals:	<b>164</b>	<b>280</b>	<b>Gravel</b>	

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>153</b>	<b>1hlp6bns16TypH</b>

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **8**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **300+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **Measured**

Surface Completion: **Pitless Adapter Used**

Water Level: **163 ft. below land surface on 2013-09-18**      Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**      Pump Depth (ft.): **240**

Well Tests: **Jetted**      Yield: **15+ GPM**

Water Quality:

Strata Depth (ft.)	Water Type
230/275	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: **Whisenant & Lyle Water Services**

**P.O. Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Apprentice Name: **Travis Haffelder**

Comments: **TDS 500**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	Caliche
1	5	Red Sandstone
5	8	Brown Sandstone
8	10	Gray Brown Sandstone
10	12	Brown Red Limestone
12	18	Red Sandstone
18	20	Brown Limestone
20	21	Red Shale
21	23	Brown Limestone
23	30	Light Brown Red Sandstone
30	32	Yellow Limestone
32	50	White Limestone
50	55	Brown Red Sand
55	95	Gray Limestone
95	97	Brown Red Shale
97	115	Gray Limestone
115	117	Red Sandstone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	New	PVC-SDR 171B	+2'/240'
4.5	New	PVC-17 Slotted	.035 240'/280'

117	140	Brown Red Sandstone
140	145	Rock Red Sandstone
145	200	Red Sandstone
200	275	Brown Rock Sandstone
275	280	Gray & Black Clay

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## STATE OF TEXAS WELL REPORT for Tracking #273402

Owner:	Heiser Development c/o Jason Mann	Owner Well #:	1
Address:	901 S. Mopac, Bldg 2, Ste 505 Austin, TX 78746	Grid #:	57-40-5
Well Location:	2205 Haney Creek Dr. Spicewood, TX 78669	Latitude:	30° 26' 56" N
		Longitude:	098° 04' 06" W
Well County:	Travis	Elevation:	764 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/24/2011**      Drilling End Date: **10/15/2011**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	7.875	0	200

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	60	2h1plg 15ptld

Seal Method: **Pos. Displacement**

Distance to Property Line (ft.): **100+**

Sealed By: **Whisenant & Lyle Water Service**

Distance to Septic Field or other concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **116 ft. below land surface on 2011-08-25**      Measurement Method: **Unknown**

Packers: **6Mil poly 60**  
**6Mil poly 100**  
**6Mil poly-Shale packer 160**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **20+ GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>140/ 200</b>	<b>good</b>

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: **Whisenant & Lyle Water Services**

**PO Box 525  
Dripping Springs, TX 78620**

Driller Name: **Martin Lingle**

License Number: **54813**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>1</b>	<b>Topsoil</b>
<b>1</b>	<b>18</b>	<b>White limestone</b>
<b>18</b>	<b>37</b>	<b>Brown sand limestone</b>
<b>37</b>	<b>70</b>	<b>Gray limestone sand</b>
<b>70</b>	<b>80</b>	<b>Gray shale</b>
<b>80</b>	<b>95</b>	<b>Gray clay</b>
<b>95</b>	<b>98</b>	<b>Gray limestone</b>
<b>98</b>	<b>140</b>	<b>Red sandstone</b>
<b>140</b>	<b>198</b>	<b>Gravel</b>
<b>198</b>	<b>200</b>	<b>Blue clay</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>4.5</b>	<b>New</b>	<b>PVC-SDR 17IB +2 / 140'</b>	
<b>4.5</b>	<b>New</b>	<b>PVC-17 Slotted .035</b>	<b>140-200</b>



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## STATE OF TEXAS WELL REPORT for Tracking #121336

Owner:	STEVE HUGHES	Owner Well #:	No Data
Address:	1251 LAKESHORE DR SPICEWOOD, TX 78669	Grid #:	57-40-5
Well Location:	1231 LAKESHORE DR SPICEWOOD, TX 78669	Latitude:	30° 26' 40" N
Well County:	Travis	Longitude:	098° 04' 28" W
		Elevation:	853 ft. above sea level
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **8/27/2007**      Drilling End Date: **8/27/2007**

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	10	0	140

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	2	2
	2	100	16

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **Driller**

Distance to Septic Field or other  
concentrated contamination (ft.): **No Data**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **NOT YET INSTALLED**

Surface Completion: **Surface Sleeve Installed**

Water Level: **55 ft. below land surface on 2007-08-28**      Measurement Method: **Unknown**

Packers: **NEOPRENE 100**  
**NEOPRENE 118**  
**NEOPRENE 120**

Type of Pump: **Submersible**      Pump Depth (ft.): **126**

Well Tests: **Jetted**      Yield: **80 GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
<b>No Data</b>	<b>No Data</b>

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which  
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING INC**  
**185 ANGELFIRE DR**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **BOBBY ROBERTS** License Number: **54416**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

<i>Top (ft.)</i>	<i>Bottom (ft.)</i>	<i>Description</i>
<b>0</b>	<b>1</b>	<b>TOPSOIL</b>
<b>1</b>	<b>2</b>	<b>SURFACE ROCK</b>
<b>2</b>	<b>14</b>	<b>BROWN GRAVEL</b>
<b>14</b>	<b>35</b>	<b>TAN LIMESTONE</b>
<b>35</b>	<b>70</b>	<b>BLUE SHALE</b>
<b>70</b>	<b>80</b>	<b>RED SHALE</b>
<b>80</b>	<b>115</b>	<b>RED CLAY</b>
<b>115</b>	<b>140</b>	<b>RED ROCK W/B 80 GPM TDS 660</b>

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
<b>4.5</b>	<b>NEW</b>	<b>PLASTIC</b>	<b>0-120</b>
<b>4.5</b>	<b>NEW</b>	<b>SCREEN MFG</b>	<b>120-140 .050</b>

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## STATE OF TEXAS WELL REPORT for Tracking #111526

Owner:	<b>LARRY EISENBERG</b>	Owner Well #:	<b>No Data</b>
Address:	<b>3004 SPARKLING BROOK LN AUSTIN, TX 78746</b>	Grid #:	<b>57-40-5</b>
Well Location:	<b>25204 SUNSET RIVER CR SPICEWOOD, TX 78669</b>	Latitude:	<b>30° 26' 38" N</b>
		Longitude:	<b>098° 04' 43" W</b>
Well County:	<b>Travis</b>	Elevation:	<b>800 ft. above sea level</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **4/12/2007**      Drilling End Date: **4/12/2007**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>10</b>	<b>0</b>	<b>12</b>
	<b>8</b>	<b>12</b>	<b>170</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Open Hole**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>2</b>	<b>2</b>
	<b>2</b>	<b>105</b>	<b>9</b>

Seal Method: **PRESSURE CEMENTED**

Distance to Property Line (ft.): **No Data**

Sealed By: **CESAR RAMOS**

Distance to Septic Field or other  
concentrated contamination (ft.): **86**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **STEEL TAPE**

Surface Completion: **Surface Sleeve Installed**

Water Level: **90 ft. below land surface on 2007-04-14**      Measurement Method: **Unknown**

Packers: **NEOPRENE 105  
NEOPRENE 110  
NEOPRENE 128  
NEOPRENE 130**

Type of Pump: **Submersible**      Pump Depth (ft.): **160**

Well Tests: **Jetted**      Yield: **30 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
No Data	No Data

Chemical Analysis Made: **Yes**

Did the driller knowingly penetrate any strata which  
contained injurious constituents?: **No**

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: **BEE CAVE DRILLING**  
**185 ANGELFIRE DR**  
**DRIPPING SPRINGS, TX 78620**

Driller Name: **JIM BLAIR** License Number: **54416**

Apprentice Name: **CESAR RAMOS** Apprentice Number: **57534**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	28	TAN ROCK
28	38	GREY ROCK
38	90	BLUE SHALE
90	115	BLACK ROCK
115	130	RED CLAY
130	170	RED ROCK W/B 30 GPM TDS 690

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5	NEW	PLASTIC	0-130
4.5	NEW	SCREEN MFG.	130-170 .050

#### 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 PLUGGING REPORT for Tracking #147051

Owner:	Holzapfel	Owner Well #:	No Data
Address:	26804 masters parkway spicewood, TX 78669	Grid #:	57-40-4
Well Location:	26804 masters parkway spicewood, TX 78669	Latitude:	30° 27' 01" N
Well County:	Travis	Longitude:	098° 05' 01" W
		Elevation:	No Data

---

Well Type: Closed-Loop Geothermal

### Drilling Information

Company:	Sarris well Drilling	Date Drilled:	5/23/2014
Driller:	Anthony Sarris	License Number:	58870

### Well Report Tracking #369054

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4.5	0	250

### Plugging Information

Date Plugged:	5/23/2014	Plugger:	Anthony Sarris
Plug Method:	Unknown		

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

Not Provided

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: Sarris well Drilling  
p o box  
austin, TX 78760

Driller Name:	Anthony Sarris	License Number:	58870
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Comments: drilled 5 new geothermal closed loop wells 0-250

## STATE OF TEXAS WELL REPORT for Tracking #184974

Owner:	<b>Carl Jones</b>	Owner Well #:	<b>1</b>
Address:	<b>2525 Bainbridge Street Odessa, TX 79762</b>	Grid #:	<b>57-40-4</b>
Well Location:	<b>24017 Haynie Flat Road Spicewood, TX 78669</b>	Latitude:	<b>30° 27' 17" N</b>
Well County:	<b>Travis</b>	Longitude:	<b>098° 05' 00" W</b>
		Elevation:	<b>No Data</b>
Type of Work:	<b>New Well</b>	Proposed Use:	<b>Domestic</b>

Drilling Start Date: **5/27/2009**      Drilling End Date: **5/28/2009**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	<b>8</b>	<b>0</b>	<b>205</b>

Drilling Method: **Air Rotary**

Borehole Completion: **Straight Wall**

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks &amp; material)</i>
Annular Seal Data:	<b>0</b>	<b>125</b>	<b>30</b>

Seal Method: **Tremie**

Sealed By: **ADC**

Distance to Property Line (ft.): **31**

Distance to Septic Field or other  
concentrated contamination (ft.): **150+**

Distance to Septic Tank (ft.): **No Data**

Method of Verification: **measured**

Surface Completion: **Surface Sleeve Installed**

Water Level: **97 ft. below land surface on 2009-06-13**      Measurement Method: **Unknown**

Packers: **neophrene/burlap 125'**

Type of Pump: **Submersible**      Pump Depth (ft.): **100**

Well Tests: **Estimated**      Yield: **10 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
125'-205'	Trinity

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 Co.**

**PO Box 1060  
Manchaca, TX 78652**

Driller Name: **Byron Benoit**

License Number: **1955**

Apprentice Name: **Frank Barnard**

Apprentice Number: **56366**

Comments: **No Data**

Lithology:  
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:  
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	1	topsoil
1	125	tan lime
125	205	broken red sandstone

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4.5"	New	Plastic	-2' to 205' sdr17
		slotted	125'-205'

#### IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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**Texas Department of Licensing and Regulation  
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## **Attachment 3**

### **Treatment Unit Dimensions**

#### **Section 2 B, Page 2 of 80**

(Technical Report 1.0)

# THOMAS RANCH

## 160,000 GPD (10/15 BOD/TSS EFFLUENT)

Data	Quantity		
Permitted Average Daily Flow	160,000 gpd	111 gpm	0.248 cfs
Peak 2-hour Flow	640,000 gpd	444 gpm	0.990 cfs
BOD5 Loading	325 mg/l		
Maximum Aeration Zone Loading	45 lbs of BOD5 / 1,000 cf		
Minimum Aerobic Digester Loading	20 cf/lbs of BOD5/day		
Minimum SRT for Digester	40 days @	1.5 % Concentration	
Maximum Clarifier Surface Loading	1,200 gpd/sf (@ peak flow)		
Minimum Clarifier Detention Time	1.8 hr (@ peak flow)		
Minimum Disinfection Basin Detention Time	20 min (@ peak flow)		
Air Supply (Aeration Zone)	1,800 scfm/day/lb of BOD5		
Air Supply (Aerobic Digester)	30 scfm/1,000 cf of volume		
Air Supply (Disinfection)	20 scfm/1,000 cf of volume		

### Calculations of Requirements

BOD5 Loading 433.68 lbs/day

Unit Requirements	Quantity
Aeration Zone Volume	9,637 cf
Aerobic Digester Volume at Minimum Loading	8,674 cf
Aerobic Digester Volume at Minimum SRT	5,204 cf
Clarifier Surface Area	533 sf
Clarifier Volume at Minimum Detention Time	6,417 cf
Disinfection Volume	1,188 cf

Air Supply Requirements	Quantity	
Aeration Process	509 scfm	Note: The process calculation is based on 10' of submergence with a correction factor of 1.56 and clean water transfer efficiency of 0.85% per foot of submergence.
Digester	161 scfm	
Disinfection	28 scfm	
Air Lift Pumps & Initial Mixing	100 scfm	
Total Air Required	798 scfm	

### Proposed Unit Features

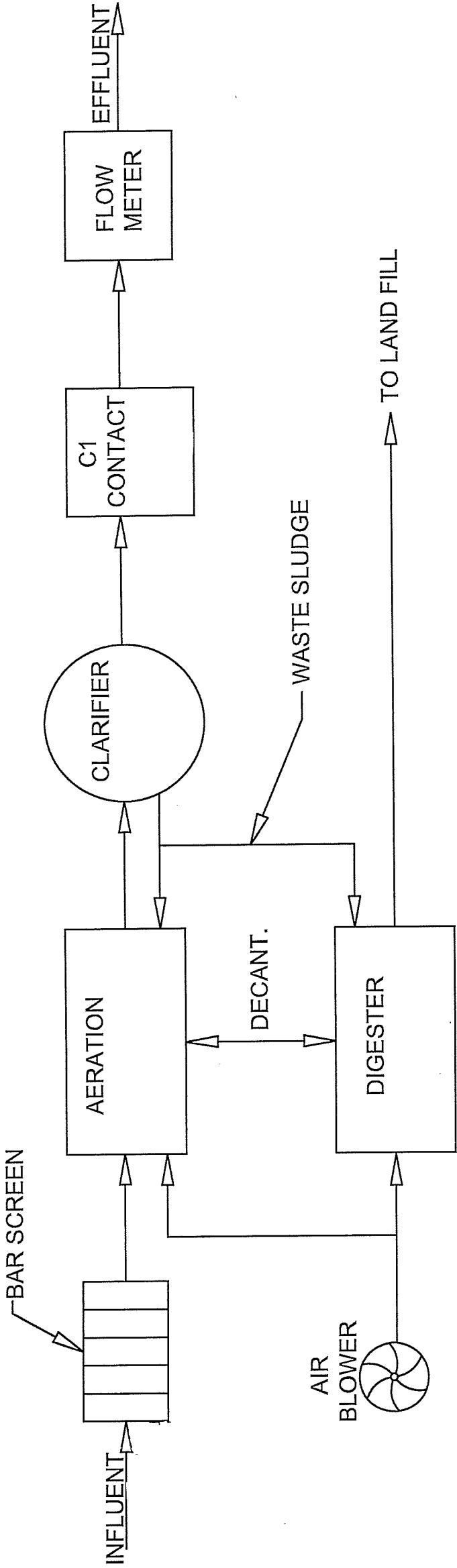
Proposed Units	Quantity	#Units	Length	Width	Height	SWD
Aeration Zone Volume	10,080 cf	2	40	12	12.17	10.50
Aerobic Digester Volume	5,362 cf	2	20	12	12.17	11.17
Clarifier Surface Area	707 sf	1		30	13.17	
Clarifier Volume	7,069 cf					10.00
Chlorine Contact Volume	1,408 cf	1	16	11	10.17	8.00
Blowers	400 scfm	3	20.0 hp			

## **Attachment 4**

### **Flow Diagram**

#### **Section 2 C, Page 2 of 80**

(Technical Report 1.0)



THOMAS RANCH			
WASTE DISCHARGE PERMIT RENEWAL			
TRAVIS COUNTY, TEXAS			
<b>DANNENBAUM</b> ENGINEERING CORPORATION			
PROCESS FLOW DIAGRAM			
DESIGN BY:	DATE: JUNE 2010	SHEET No. 1 OF 1	
DRAWN BY:			
APPROVED:	SCALE: NTS	JOB No. 4312-00	

## **Attachment 5**

### **Facility Site Drawing**

### **Section 3, Page 3 of 80**

(Technical Report 1.0)







## **Attachment 6**

### **Annual Cropping Plan**

#### **Section 5, Page 38 of 80**

(Worksheet 3.0)

### **Annual Cropping Plan – Lake Cliff on Lake Travis Golf Course**

The golf course consists of approximately 177 +/- acres over 18 holes. There is A1 A4 bent grass, Bermuda Ultradwarf, and Zoysia on the greens, Bermuda and Zoysia on the tees, and Bermuda sport turf and Zoysia on the fairways. Grass for the golf course grows April to mid-November and does not grow when night temperatures fall below 70 degrees. Fertilizer is applied 3 to 4 times a year beginning when growing season starts and weed control is done by hand. Additional fertilizer is applied to the greens and tee boxes only when necessary to maintain the vitality of the grass. The greens are mowed daily at or near 0.25-inches and the fairways are mowed two to three times per week at or near 1-inch. The grasses remain the same year round. A soil map with areas to be irrigated is attached. Additional nitrogen is estimated to be required, see attached Nitrogen Balance.



## NITROGEN BALANCE

**Plant Ultimate Capacity = 320,000 gallons per day**

**Area to be irrigated = 170 Acres**

### Two Rivers WWTP

320,000 gal/day (365 days/year) = 116,800,000 gallons per year

116,800,000 / 170 acres irrigated = 687,059 gallons per acre per year

687,059 gal/ac / 326,000 gal/ acre-feet = 2.11 acre-Feet / acre

2.11 x 81.6 lbs of Nitrogen/acre-feet = 172 lbs per acre per year

172 lbs per acre per year = 0.0039 lbs/square foot

### Lake Cliff Golf Course

#### **Greens:**

Bermuda Ultradwarf 3-4 lbs/m

Bent 2-3 lbs/m

Zoysia 1 lbs/m

#### **Tees:**

Bermuda 3-4 lbs/m

Zoysia 2 lbs /m

#### **Fairways/Rough:**

Bermuda 2-3 lbs/m

Zoysia 1.5 lbs/m

M=1,000ft<sup>2</sup>

## **Attachment 7**

### **USDA Soil Survey Map**

### **Section 7 a, Page 40 of 80**

(Worksheet 3.0)



