



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

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

This template is a guide to assist applicant's in developing a plain language summary as required by [30 Texas Administrative Code Chapter 39 Subchapter H](#). Applicant's 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 blanks below to describe your facility and application. 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 Texas Administrative Code §39.426](#), **you must provide a translated copy of the completed plain language summary in the appropriate alternative language as part of your application package.** For your convenience, a Spanish template has been provided below.

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS

DOMESTIC WASTEWATER

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

Capstone Property Management, LLC (CN 606026169) operates the Aztec Estates Mobile Home Park (RN 106656671) a mobile home park which treats and disposes of sewage for 89 connections consisting of 84 mobile home units, 3 apartments, 1 brick house, and 1 commercial onsite beauty shop. The facility is located at 11704 South US Highway 181 in San Antonio, Bexar County, Texas 78223.

The application is to permit an existing Domestic Wastewater Discharge Permit to dispose a daily average flow of 8,741 gpd of treated domestic wastewater via an onsite sanitary wastewater sub-surface irrigation system with a minimum area of 2.18 acres. This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain domestic septic waste. Domestic septic waste will be treated by *in-series septic tanks prior to discharge into a proprietary on-site gravel-less chamber system*.

INSTRUCTIONS

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

Examples

Example 1: Domestic Wastewater TPDES Renewal application

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

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

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 2: TPDES New Application

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

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

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD₅), total suspended solids (TSS), ammonia nitrogen (NH₃-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: TLAP Renewal application

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

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

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

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD₅), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

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

AGUAS RESIDUALES DOMÉSTICAS

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 son representaciones federales exigibles de la solicitud de permiso.

Capstone Property Management, LLC (CN66026169) opera el Parque de Casas Móviles Aztec Estates (RN10665667) un parque de casas móviles que trata y elimina aguas residuales para 89 conexiones que consta de 84 unidades de casas móviles, 3 apartamentos, 1 casa de ladrillos, y 1 salón de belleza comercial, que en total genera aproximadamente 8,741 galones por día. La instalación está ubicada en 11704 South US Highway 181 en San Antonio, condado de Bexar, Texas 78223.

La solicitud es para permitir que un Permiso de Descarga de Aguas Residuales Domésticas existente elimine un flujo promedio diario de 8,741 gpd de aguas residuales domésticas tratadas a través de un sistema de riego subterráneo de aguas residuales sanitarias in situ con un área mínima de 2.18 acres. Este permiso no autorizará una descarga de contaminantes a aguas del estado. Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan desechos sépticos domésticos. Los desechos sépticos domésticos serán tratados mediante tanques sépticos en serie antes de descargarlos en un sistema de cámara sin grava patentado en el sitio.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016597001

APPLICATION. Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin Texas 78731, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016597001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 8,741 gallons per day via subsurface application of 2.18 of acres of land. The facility and disposal area will be located at 11704 South U.S. Highway 181, near the city of San Antonio, in Bexar County, Texas 78223. TCEQ received this application on August 9, 2024. The permit application will be available for viewing and copying at Elmendorf Community Library, front desk, 203 Bexar Avenue, Elmendorf, 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=-98.379166,29.302777&level=18>

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

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

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at <https://www14.tceq.texas.gov/epic/eComment/>, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105,

P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Capstone Property Management, LLC at the address stated above or by calling Ms. Gabriella Fitzgerald, Braun Intertec Corporation, at 832-610-9024.

Issuance Date: September 19, 2024

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. WQ0016597001

SOLICITUD. Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin, Texas 78731, ha solicitado a la Comisión de Calidad Ambiental de Texas (TCEQ) para el propuesto Permiso No. WQ0016597001 para autorizar la disposición de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 8,741 galones por día por medio de aplicación en el subsuelo de 2.18 acres de tierra. Las instalaciones y el área de disposición están ubicados en 11704 South U.S. Highway 181, en la ciudad de San Antonio, en el Condado de Bexar, Texas 78223. La TCEQ recibió esta solicitud el día 9 de agosto del 2024. La solicitud para el permiso está disponible para leer y copiar en la biblioteca comunitaria de Elmendorf, recepción, 203 Bexar Avenue, Elmendorf, 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=-98.379166,29.302777&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. 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.

También se puede obtener información adicional del Capstone Property Management, LLC a la dirección indicada arriba o llamando a Gabriela Fitzgerald, Braun Intertec Corporation, al 832-610-9024.

Fecha de emisión 19 de septiembre de 2024

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

NEW

PERMIT NO. WQ0016597001

APPLICATION AND PRELIMINARY DECISION. Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin, Texas 78731, has applied to the Texas Commission on Environmental Quality (TCEQ) for a new permit, TCEQ Permit No. WQ0016597001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 8,700 gallons per day via non-public access subsurface gravity/low pressure dosing drainfields with a minimum area of 2.18 acres. TCEQ received this application on August 9, 2024.

The wastewater treatment facility and disposal site are located at 11704 South U.S. Highway 181, in Bexar County, Texas 78223. The wastewater treatment facility and disposal site are located in the drainage basin of Upper San Antonio River in Segment No. 1911 of the San Antonio 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=-98.379166,29.302777&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 Elmendorf Community Library, front desk, 203 Bexar Avenue, Elmendorf, 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.**

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

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

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from Capstone Property Management, LLC at the address stated above or by calling Ms. Janice King, Braun Intertec Corporation, at 512-221-8902.

Issuance Date: September 8, 2025

Comisión De Calidad Ambiental Del Estado De Texas



AVISO DE LA SOLICITUD Y DECISIÓN PRELIMINAR PARA EL PERMISO DEL SISTEMA DE ELIMINACION DE DESCARGAS DE CONTAMINANTES DE TEXAS (TPDES) PARA AGUAS RESIDUALES

MUNICIPALES

NUEVO

PERMISO NO. WQ0016597001

SOLICITUD Y DECISIÓN PRELIMINAR. Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin, Texas 78731 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) por un nuevo permiso, Permiso No. WQ0016597001 para autorizar la eliminación de aguas residuales domésticas tratadas con un caudal diario promedio que no exceda los 8,700 galones por día a través de campos de drenaje subterráneos de dosificación por gravedad/baja presión de acceso no público con un área mínima de 2,18 acres. La TCEQ recibió esta solicitud el 9 de agosto del 2024.

La planta está ubicada en 11704 South U.S. Highway 181 en el Condado de Bexar, Texas 78223. La planta de tratamiento de aguas residuales y el sitio de disposición están ubicados en la Cuenca de drenaje del Alto Río San Antonio en el Segmento No. 1911 de la Cuenca del Río San Antonio. 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=-98.379166,29.302777&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 la Biblioteca Comunitaria de Elmendorf, recepción, 203 Bexar Avenue, Elmendorf, 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/tpdes-applications>.

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en <https://www.tceq.texas.gov/permitting/wastewater/plain-language-summaries-and-public-notice>.

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 de la fecha límite para presentar comentarios públicos, el Director Ejecutivo considerará los comentarios y preparará una respuesta a todos los comentarios públicos relevantes y materiales, o significativos. **A menos que la solicitud sea remitida directamente para una audiencia de caso impugnado, la respuesta a los comentarios se enviará por correo a todos los que enviaron comentarios públicos y a aquellas personas que estén en la lista de correo para esta solicitud. Si se reciben comentarios, el correo también proporcionará instrucciones para solicitar una audiencia de caso impugnado o reconsiderar la decisión del Director Ejecutivo.** Una audiencia de caso impugnado es un procedimiento legal similar a un juicio civil en un tribunal de distrito estatal.

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 por qué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

Tras el cierre de todos los periodos de comentarios y solicitudes aplicables, el Director Ejecutivo remitirá la solicitud y cualquier solicitud de reconsideración o de una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración en 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.

ACCIÓN DEL DIRECTOR EJECUTIVO. El Director Ejecutivo puede emitir la aprobación final de la solicitud a menos que se presente una solicitud de audiencia de caso impugnado oportunamente o una solicitud de reconsideración. Si se presenta una solicitud de audiencia oportuna o una solicitud de reconsideración, el Director Ejecutivo no emitirá la aprobación final del permiso y enviará la solicitud y la solicitud a los Comisionados de TCEQ para su consideración en una reunión programada de la Comisión.

LISTA DE CORREO. Si envía comentarios públicos, una solicitud de una audiencia de caso impugnado o una reconsideración de la decisión del Director Ejecutivo, se le agregará a la lista de correo de esta solicitud específica para recibir futuros avisos públicos enviados por correo por la Oficina del Secretario Oficial. Además, puede solicitar ser colocado en: (1) la lista de correo permanente para un nombre de solicitante específico y número de permiso; y/o (2) la lista de correo para un condado específico. Si desea ser colocado en la lista de correo permanente y / o del condado, especifique claramente qué lista (s) y envíe su solicitud a la Oficina del Secretario Oficial de la TCEQ a la dirección a continuación. **Todos los comentarios públicos escritos y las solicitudes de reunión pública deben enviarse a Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 o electrónicamente a www.tceq.texas.gov/goto/comment dentro de los 30 días a partir de la fecha de publicación de este aviso en el periódico.**

CONTACTOS E INFORMACIÓN DE LA AGENCIA. Los comentarios y solicitudes públicas deben enviarse electrónicamente a www.tceq.texas.gov/goto/comment, 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 TCEQ, línea gratuita, al 1-800-687-4040 o visite su sitio web en www.tceq.texas.gov/goto/pep. Si desea información en español, puede llamar al 1-800-687-4040. También se puede obtener información adicional de Capstone Property Management, LLC a la dirección indicada arriba o llamando a Janice King al 512-221-8902.

Fecha de emisión: el 8 de septiembre del 2025

August 9, 2024

Project B2303494

Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC-148)
P.O. Box 13087
Austin TX 78711-3087

Re: Domestic Wastewater Permit
Customer Number: CN606026169
Capstone Property Management, LLC
Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas 78223

To Whom It May Concern:

Braun Intertec Corporation is submitting the enclosed revised Texas Land Application Permit (TLAP) application for a Domestic Wastewater and Class V Injection well/Sub-surface irrigation system for the Aztec Estates MHP facility located at 11704 South US Highway 181 in San Antonio, Texas (Site). This application package (Package) includes the Administrative Report, Plain Language Summary, Technical Report, Core Data Form, and the Public Involvement Plan.

Given your guidance provided to us in meetings and discussions with you and others on your team, we are proposing the following approach to permitting the Aztec Mobile Home Park sanitary discharges. Our understanding from your guidance is that there are 4 key design criteria that should be met in order to resolve the outstanding TCEQ enforcement order and proceed with permitting of this facility. These criteria, as explained to us, are:

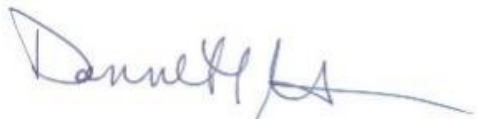
- The lateral system would need to be looped to achieve even distribution – The lateral lines are looped, and this was confirmed in the field investigation conducted last year;
- The overall system would need 3 days of wet weather storage – The system currently meets this requirement.
- The wastewater application rate is limited to 0.1 gallons/day/ft² of lateral field – An evaluation of historical flow data from water meters installed in each of the homes served by the system indicates that the lateral field area is adequate; and
- The application system would have to have equal pressure and distribution throughout, accomplished by pumping wastewater to the application fields – The system currently operates as a gravity flow system, but the permittee has committed to installing the necessary pumping modifications. The permittee is proposing to install these upgrades while the permit application is undergoing technical review and processing, such that the system will be in place and functional by the time the permit is issued.

The application fee was submitted separately via ACH, and a copy of the payment was included in the enclosed Package. In accordance with the Instructions for Completing the Industrial Wastewater Permit Application, one original and four copies of this Package are submitted.

We appreciate your assistance in review of this Package. If you have any technical questions regarding the Package, or require additional information, please contact me at 713.598.1167 or dbelhateche@braunintertec.com

Sincerely,

BRAUN INTERTEC CORPORATION



Dannelle H. Belhateche, PE
Environmental Technical Director
Vice President, Principal Consultant



Janice King, CPSWQ, CPESC
Principal Consultant

cc: Mr. John M. Harlan, Capstone Property Management, LLC

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Forms

Application for a Domestic Wastewater Permit (TCEQ Form 10053)

- Domestic Wastewater Permit Application Checklist
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- Domestic Administrative Report 1.1
- Supplemental Permit Information Form (SPIF) - Not Applicable
- Payment Submittal Form - Not Applicable
- Attachment 1, Individual Information - Not Applicable
- Checklist of Common Deficiencies

Domestic Wastewater Permit Application (TCEQ Form 10054)

- Domestic Technical Report 1.0
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Attachments

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Attachment B	Core Data Form
Attachment C	Plain Language Summary Template
Attachment D	Public Involvement Plan Form
Attachment E	Original USGS Topographic Map
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Attachment M	Soil Map, Information, Analyses and Annual Cropping Plan
Attachment N	Engineering Report



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Capstone Property Management, LLC

PERMIT NUMBER (If new, leave blank): WQ00 [Click to enter text.](#)

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

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

For TCEQ Use Only

Segment Number _____ County _____
Expiration Date _____ Region _____
Permit Number _____



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

**DOMESTIC WASTEWATER PERMIT APPLICATION
ADMINISTRATIVE REPORT 1.0**

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number: [Click to enter text.](#)
Check/Money Order Amount: [Click to enter text.](#)
Name Printed on Check: [Click to enter text.](#)

EPAY Voucher Number: 656833

Copy of Payment Voucher enclosed? Yes ☒ Attachment A

Section 2. Type of Application (Instructions Page 26)

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

- ☐ Publicly-Owned Domestic Wastewater
☒ Privately-Owned Domestic Wastewater
☐ Conventional Wastewater Treatment

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

- ☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 Click to enter text.

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

Expiration Date: Click to enter text.

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

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

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

Capstone Property Management, LLC

(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: 606026169

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

Prefix: Mr.

Last Name, First Name: John M. Harlan

Title: Managing Member

Credential: Click to enter text.

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

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

Click to enter text.

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

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

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

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

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

Last Name, First Name: [Click to enter text.](#)

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

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

Provide a brief description of the need for a co-permittee: [Click to enter text.](#)

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms.

Last Name, First Name: Janice King

Title: Principal Consultant

Credential: CPESC, CPSWQ

Organization Name: Braun Intertec Corporation

Mailing Address: 2105 Donley Drive, Ste 400 City, State, Zip Code: Austin, Texas, 78758

Phone No.: 512.221.8902

E-mail Address: JaKing@braunintertec.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: [Click to enter text.](#)

Last Name, First Name: [Click to enter text.](#)

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

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

Organization Name: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#) City, State, Zip Code: [Click to enter text.](#)

Phone No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

Check one or both: ☐ Administrative Contact ☐ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Mr.

Last Name, First Name: John M. Harlan

Title: Managing Member

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

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas, 78731

Phone No.: 608.344.1201

E-mail Address: John@HarlanRec.com

B. Prefix: Ms. Last Name, First Name: Janice King
Title: Principal Consultant Credential: CPESC, CPSWQ
Organization Name: Braun Intertec Corporation
Mailing Address: 2105 Donley Drive, Ste 400 City, State, Zip Code: Austin, Texas, 78758
Phone No.: 512.221.8902 E-mail Address: JaKing@braunintertec.com

Section 6. Billing Contact Information (Instructions Page 27)

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

Prefix: Mr. Last Name, First Name: John M. Harlan
Title: Managing Member Credential: Click to enter text.
Organization Name: Capstone Property Management, LLC
Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas 78731
Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

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

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

Prefix: Mr. Last Name, First Name: John M. Harlan
Title: Managing Member Credential: Click to enter text.
Organization Name: Capstone Property Management, LLC
Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas 78731
Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Gabriella Fitzgerald
Title: Senior Manager Credential: Click to enter text.
Organization Name: Braun Intertec Corporation
Mailing Address: 10075 Windfern Road City, State, Zip Code: Houston, Texas 77064
Phone No.: 832.610.9024 E-mail Address: gfitzgerald@braunintertec.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms.

Last Name, First Name: Gabriella Fitzgerald

Title: Senior Manager

Credential: Click to enter text.

Organization Name: Braun Intertec Corporation

Mailing Address: 10075 Windfern Road City, State, Zip Code: Houston, Texas 77064

Phone No.: 832.610.9024

E-mail Address: gfitzgerald@braunintertec.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: Elmendorf Community Library

Location within the building: Front desk

Physical Address of Building: 203 Bexar Avenue

City: Elmendorf

County: Bexar

Contact (Last Name, First Name): Darlene Hicks

Phone No.: 210.288.7826 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

☒ Yes

☐ No

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

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

☒ Yes

☐ No

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: C

G. Public Involvement Plan Form

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

Attachment: D

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

A. If the site is currently regulated by TCEQ, provide the Regulated Entity Number (RN) issued to this site. RN 106656671

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

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

Aztec Estates Mobile Home Park

C. Owner of treatment facility: Capstone Property Management, LLC

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

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

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

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

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas, 78731

Phone No.: 608.344.1201 E-mail Address: John@HarlanRec.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.

Attachment: Click to enter text.

E. Owner of effluent disposal site:

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

Last Name, First Name: [Click to enter text.](#)

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

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

Organization Name: Capstone Property Management, LLC

Mailing Address: 5900 Balcones Drive Ste 100 City, State, Zip Code: Austin, Texas, 78731

Phone No.: 608.344.1201

E-mail Address: John@HarlanRec.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.

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

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

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

Last Name, First Name: [Click to enter text.](#)

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

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

Organization Name: [Click to enter text.](#)

Mailing Address: [Click to enter text.](#)

City, State, Zip Code: [Click to enter text.](#)

Phone No.: [Click to enter text.](#)

E-mail Address: [Click to enter text.](#)

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

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

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

☐ Yes ☐ No

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

[Click to enter text.](#)

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

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

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

☐ Yes ☐ No

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

- ☐ Authorization granted ☐ Authorization pending

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

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

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

This is a new permit application.

- B. City nearest the disposal site: San Antonio

- C. County in which the disposal site is located: Bexar

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

There are no accessible sewer mains within 200 or 300 feet (200 - City, 300 - County) in the vicinity of the property. Since a sewer main extension cannot be established the San Antonio Water System will not object to the installation of an individual septic tank system to serve the property, provided that the property owner meets all requirements set forth by the Bexar County Public Works Department. Detailed information is provided in Attachment I

- E. For TLAPs, please identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: Rainfall runoff might flow into an outfall situated at (latitude 29.31089°, longitude -98.38146°) approximately 0.5-mile northwest of the Site.

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

[Click to enter text.](#)

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

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

Amount past due: [Click to enter text.](#)

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number: [Click to enter text.](#)

Amount past due: [Click to enter text.](#)

Section 13. Attachments (Instructions Page 33)

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

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

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

- 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: Attachment E

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: [Click to enter text.](#)

Applicant: Capstone Property Management, LLC

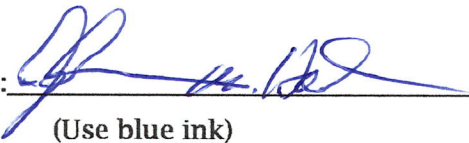
Certification:

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): Mr. John M. Harlan

Signatory title: Managing Manager

Signature:  Date: 7-26-24
(Use blue ink)

Subscribed and Sworn to before me by the said John Harlan
on this 26th day of July, 2024.
My commission expires on the June day of 26th, 2028


Notary Public

La Crosse
County, ~~Texas~~ Wisconsin

[SEAL]



DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☒ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☒ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. Indicate by a check mark in which format the landowners list is submitted:
- ☐ USB Drive
 - ☒ Four sets of labels
- D. Provide the source of the landowners' names and mailing addresses: Bexar County Appraisal District
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes
 - ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

Not Applicable - not a wastewater treatment plant unit

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

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

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

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

- ☐ Yes
- ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: N/A

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 0.087

2-Hr Peak Flow (MGD): 0.087

Estimated construction start date: 1983

Estimated waste disposal start date: 1983

D. Current Operating Phase

Provide the startup date of the facility: 1983

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase (This section is not applicable - No treatment is done on the domestic septic waste)

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.**

N/A

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 (This section is not applicable - No treatment is done on the domestic septic waste)

Treatment Unit Type	Number of Units	Dimensions (L x W x D)
N/A	N/A	N/A

C. Process Flow Diagram

Provide flow diagrams for the existing facilities and **each** proposed phase of construction.
Attachment: N/A

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

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

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

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

- Latitude: 29°18'14"N
- Longitude: 98°22'41"W

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: H

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

A mobile home park, a residential area with 84 single family homes, 1 brick house, 3 apartments and an onsite commercial beauty shop

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 (This section is not applicable – Not a TPDES permit)

Collection System Name	Owner Name	Owner Type	Population Served
N/A	N/A	Choose an item.	N/A
		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.**

N/A

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.

N/A

Section 6. Permit Specific Requirements (Instructions Page 45)

For applicants with an existing permit, check the Other Requirements or Special Provisions of the permit. **(Not Applicable – New 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 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 BOD₅ concentration of the sludge, and the design BOD₅ 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 BOD₅ concentration of the septic waste, and the design BOD₅ 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 (Not Applicable – No treatment facilities)

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Ammonia Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Nitrate Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Total Kjeldahl Nitrogen, mg/l	N/A	N/A	N/A	N/A	N/A
Sulfate, mg/l	N/A	N/A	N/A	N/A	N/A
Chloride, mg/l	N/A	N/A	N/A	N/A	N/A
Total Phosphorus, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A

Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
<i>E.coli</i> (CFU/100ml) freshwater	N/A	N/A	N/A	N/A	N/A
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Electrical Conductivity, μ mohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃)*, mg/l	N/A	N/A	N/A	N/A	N/A

*TPDES permits only

†TLAP permits only

Table 1.0(3) – Pollutant Analysis for Water Treatment Facilities (Not Applicable – Not a Water Treatment Facility)

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Capstone Property Management, LLC

Facility Operator's License Classification and Level: N/A

Facility Operator's License Number: N/A

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

WWTP's Biosolids Management Facility Type **(Not Applicable – Not a wastewater treatment plant)**

A. 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 (Not Applicable –Not a wastewater treatment plant)

Check all that apply. See instructions for guidance.

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

C. Biosolids Management (Not Applicable –Not a wastewater treatment plant)

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: Second Nature Compost, LLC

TCEQ permit or registration number: 42044

County where disposal site is located: Bexar

E. Transportation method

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

Name of the hauler: Van Delden Wastewater System

Hauler registration number: 20929

Sludge is transported as a:

Liquid ☐

semi-liquid ☐

semi-solid ☒

solid ☐

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

Sludge Composting ☐ Yes ☒ No

Marketing and Distribution of sludge ☐ Yes ☒ No

Sludge Surface Disposal or Sludge Monofill ☐ Yes ☒ No

Temporary storage in sludge lagoons ☐ Yes ☒ No

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

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

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

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

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

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

[Click to enter text.](#)

B. Temporary storage information

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of 1×10^{-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 Page 55)

A. Additional authorizations

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

☐ Yes ☒ No

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

N/A

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☒ Yes ☐ No

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

☒ Yes ☐ No

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

Enforcement Case No. 62538; Track Number: 789985; Investigation: 1760648
Alleged Violation: "Failure to obtain authorization to operate one or more OSSFs which treat and dispose of more than 5,000 gallons per day. Specifically, Aztec Estates Mobile Home Park treats and disposes of sewage for more than 80 mobile home units which in total generate an estimated 14,400 gpd."

Implementation Schedule: 60 days from the date of the TCEQ letter dated July 29, 2022.

Current Status: Application to obtain authorization from the TCEQ to operate an OSSF which treats and disposes of more than 5,000 gpd in progress.

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: N/A

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: Mr. John M. Harlan

Title: Managing Manager

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.

Aztec Estates Mobile Home Park is a mobile home park that treats and disposes of sewage for 84 single family homes, 1 brick house, 3 apartments and an onsite commercial beauty shop which in total generate an estimated 8,741 gallons per day of wastewater to be treated and disposed onsite. There are two main active sub-surface application areas. Aztec Estates Mobile Home Park received a Notice of Enforcement (NOE) dated May 17th, 2022, with track number: 789985 with an alleged violation which states that Aztec Estates MHP failed to obtain authorization to operate one or more OSSFs which treat and dispose of more than 5,000 gpd. The recommended corrective action requires the Site to obtain authorization from the TCEQ to operate a Class V Injection Well/sub-surface irrigation system which treats and disposes of more than 5,000 gallons per day.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☐ No ☒ Not Applicable

If yes, within the city limits of: N/A

If yes, attach correspondence from the city.

Attachment: N/A

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: N/A

2. *Utility CCN areas*

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

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

☐ Yes ☒ No

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: N/A

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: I

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: I

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: I

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): 0.087 MGD

Average Influent Organic Strength or BOD₅ Concentration in mg/l: 250mg/l

Average Influent Loading (lbs/day = total average flow X average BOD₅ conc. X 8.34): 21.75 lbs/day

Provide the source of the average organic strength or BOD₅ concentration.

TCEQ design guidelines 30 TAC Chapter 217.32(a)(3)

B. Proposed organic loading Not applicable - Facility is in operation

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality	N/A	N/A
Subdivision	N/A	N/A
Trailer park – transient	N/A	N/A
Mobile home park	N/A	N/A
School with cafeteria and showers	N/A	N/A
School with cafeteria, no showers	N/A	N/A
Recreational park, overnight use	N/A	N/A
Recreational park, day use	N/A	N/A
Office building or factory	N/A	N/A
Motel	N/A	N/A
Restaurant	N/A	N/A
Hospital	N/A	N/A
Nursing home	N/A	N/A
Other	N/A	N/A
TOTAL FLOW from all sources	N/A	N/A
AVERAGE BOD ₅ from all sources	N/A	N/A

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: N/A

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: N/A

Ammonia Nitrogen, mg/l: N/A

Total Phosphorus, mg/l: N/A

Dissolved Oxygen, mg/l: N/A

Other: N/A

D. Disinfection Method

Identify the proposed method of disinfection.

☐ Chlorine: N/A mg/l after N/A minutes detention time at peak flow

Dechlorination process: N/A

☐ Ultraviolet Light: N/A seconds contact time at peak flow

☐ Other: N/A

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. **Not Applicable -**
Facility was in operation before 2008

Attachment: N/A

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.

N/A

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

FEMA Flood Map Service Center

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: N/A

If **no**, provide the approximate date you anticipate submitting your application to the Corps: N/A

B. Wind rose

Attach a wind rose: Attachment J

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)**: N/A

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)**: N/A

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

Attach a solids management plan to the application.

Attachment: N/A

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

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

- | | |
|---|--|
| ☐ Surface application | ☒ Subsurface application |
| ☐ Irrigation | ☐ Subsurface soils absorption |
| ☐ Drip irrigation system | ☐ Subsurface area drip dispersal system |
| ☐ Evaporation | ☐ Evapotranspiration beds |
| ☒ Other (describe in detail): <u>Gravel-less Chamber System</u> | |

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

For existing authorizations, provide Registration Number: N/A

Section 2. Land Application Site(s) (Instructions Page 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
Native grasses, undeveloped land	2.18	8,741	N

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

Table 3.0(2) – Storage and Evaporation Ponds – Not Applicable – No storage or evaporation ponds

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

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

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

Attachment: N/A

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

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

☐ Yes ☒ No

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

N/A

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

FEMA Flood Map Service Center

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

N/A

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: M

- 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: K**

- 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
351994	Domestic	Y	open	Proper operation of the land application system.
194513	Domestic	Y	open	Proper operation of the land application system.
343769	Domestic	Y	open	Proper operation of the land application system.
344418	Domestic	Y	open	Proper operation of the land application system.
402557	Irrigation	Y	open	Proper operation of the land application system.
405835	Irrigation	Y	open	Proper operation of the land application system.
436500	Domestic	Y	open	Proper operation of the land application system.
555669	Domestic	Y	open	Proper operation of the land application system.

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
6846401	Water Supply Well	No	capped	Proper operation of the land application system.
57773	Withdrawal of Water	No	Plugged	Maintain cleanliness and recordkeeping. Regularly
58944	Withdrawal of Water	No	Plugged	Maintain cleanliness and recordkeeping. Regularly
68-46-4 John Webb	Domestic	Y	Open	Proper operation of the land application system.
68-46-4T Emil	Domestic	Y	Open	Proper operation of the land application system.
68-45-6 Bill Blocker	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 R.C. Schubert	Domestic	N	Cased	Proper operation of the land application system.
68-46-4 Tim Pollock	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 James W. Hale	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 AL Thomas	Municipal	N	Cased	Proper operation of the land application system.
68-46-4 Jackie Armond	Domestic	Y	Open	Proper operation of the land application system.
68-45-6 Lesley Campbell	Domestic	N	Cased	Proper operation of the land application system.
68-46-4 Texas Ice House	Domestic	Y	Open	Proper operation of the land application system.
68-46-4 Crane Enterprises	Domestic	Y	Open	Proper operation of the land application system.
68-45-6T Joe Kunze	Domestic	Y	Open	Proper operation of the land application system.
68-45-6C Luther Townsend	Domestic	Y	Open	Proper operation of the land application system.
68-45-6T Joe Kunze	Domestic	Y	Open	Proper operation of the land application system.

Well ID	Well Use	Producing? Y/N	Open, cased, capped, or plugged?	Proposed Best Management Practice
68-45-6S Donald Couer	Domestic	Y	Open	Proper operation of the land application system.
68-45-6 Ester Everhart	Domestic	Y	Open	Proper operation of the land application system.

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

Attachment: K

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: L

Are groundwater monitoring wells available onsite? ☐ Yes ☒ No

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

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

Attachment: N/A

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

A. Soil map

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

Attachment: M

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: M

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
Miguel fine sandy loam	80 In	Well-drained	0-60 In	
Floresville fine sandy loam	80 In	Well-drained	0-60 In	

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

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

N/A

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: Combined conventional and proprietary gravity sub-surface application system using perforated plastic/clay pipe and Gravel-less HDPE chambers.

Application area, in acres: 2.18

Area of drainfield, in square feet: 94,915

Application rate, in gal/square foot/day: 0.1 gpd/ft²

Depth to groundwater, in feet: 94

Area of trench, in square feet: 11,673 ft²

Dosing duration per area, in hours: 24

Number of beds: 3 sub-surface application fields

Dosing amount per area, in inches/day: 1.19

Infiltration rate, in inches/hour: Between 4 to 5 inches/hour

Storage volume, in gallons: 36,500

Area of bed(s), in square feet: 94,915

Soil Classification: Sandy Loams

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: N

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

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: Janice King

Address: 2105 Donley Drive, Ste 400

City, State, and Zip Code: Austin, Texas, 78758

Phone Number: 512.221.8902

3. Owner/Operator Contact Information

☒ Owner ☒ Operator

Owner/Operator Name: Capstone Property Management, LLC

Contact Name: John M. Harlan

Address: 5900 Balcones Drive Ste 100

City, State, and Zip Code: Austin, Texas 78731

Phone Number: 608.344.1201

4. Facility Contact Information

Facility Name: Aztec Estates Mobile Home Park

Address: 11704 S US Highway 181

City, State, and Zip Code: San Antonio, Texas, 78223

Location description (if no address is available): N/A

Facility Contact Person: John M. Harlan

Phone Number: 608.344.1201

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

Latitude: 29°18'14"N

Longitude: 98°22'41"W

Method of determination (GPS, TOPO, etc.): Google Earth

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:

Existing lateral fields consist of gravity drainage subsurface application of domestic wastewater through slotted plastic and/or clay pipe, some equipped with additional gravel-less chambers, bedded in pea gravel, and covered with native soils. Currently, the wastewater is conveyed to the fields via gravity flow from a series of septic tanks located throughout the mobile home park.

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

8. Water Well Driller/Installer

Water Well Driller/Installer Name: N/A

City, State, and Zip Code: N/A

Phone Number: N/A

License Number: N/A

Section 2. Proposed Down Hole Design

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

Table 6.0(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: 2.18 acres

System(s) Construction: Estimated 1980 to 1985

Section 4. Site Hydrogeological and Injection Zone Data

1. Name of Contaminated Aquifer: Coastal Plain Aquifer Systems
2. Receiving Formation Name of Injection Zone: N/A
3. Well/Trench Total Depth: Lateral Field 1 is 2.5 feet deep, Lateral Field 2 is 4.5 feet deep.
4. Surface Elevation: 574 feet
5. Depth to Ground Water: 94 feet
6. Injection Zone Depth: No injection zone done at the Site
7. Injection Zone vertically isolated geologically? ☐ Yes ☒ No
Impervious Strata between Injection Zone and nearest Underground Source of Drinking Water:
Name: N/A
Thickness: N/A
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): Attachment I
15. Injection wells within 1/4 mile radius (attach map as Attachment J): No Injection wells located within 1/4 mile radius of the Property.
16. Monitor wells within 1/4 mile radius (attach drillers logs and map as Attachment K): No monitor wells located within 1/4 mile radius of the Property.
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: Mobile Home Park
2. Contamination Dates: Click to enter text.
3. Original Contamination (VOCs, TPH, BTEX, etc.) and Concentrations (attach as Attachment L): Attachment L
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 WTPP 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 A
TLAP Application Fee

Your transaction is complete. Thank you for using TCEQ ePay.

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt and the vouchers for your records. An email receipt has also been sent.

Transaction Information

Trace Number:

582EA000564504

Date:

08/15/2023 02:39 PM

Payment Method:

CC - Authorization 0000054503

ePay Actor:

ELEANOR EDEOGHO

Actor Email:

eedeogho@braunintertec.com

IP:

4.53.37.234

TCEQ Amount:

\$350.00

Texas.gov Price:

\$358.13*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name:

MS JANICE KING

Company:

BRAUN INTERTEC CORPORATION

Address:

2105 DONLEY DRIVE STE 400, AUSTIN, TX 78758

Phone:

512-221-8902

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
656833	WW PERMIT - FACILITY WITH FLOW < .05 MGD - NEW AND MAJOR AMENDMENTS		\$300.00
656834	30 TAC 305.53B WQ NOTIFICATION FEE		\$50.00
TCEQ Amount:			\$350.00

ePay Again

Exit ePay

Note: It may take up to 3 working days for this electronic payment to be processed and be reflected in the TCEQ ePay system. Print this receipt for your records.

Attachment B
Core Data Form



TCEQ Core Data Form

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

A.1. SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
☒ New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
☐ Renewal (Core Data Form should be submitted with the renewal form)		☐ Other
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 606026169		RN 106656671

A.2. SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)		8/1/2024					
☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership									
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)									
The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).									
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>					
Capstone Property Management, LLC									
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)				
0803680655		32075008055		85-2015106	931635478				
11. Type of Customer:		☒ Corporation		☐ Individual	Partnership: ☐ General ☐ Limited				
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship		☐ Other:					
12. Number of Employees				13. Independently Owned and Operated?					
☐ 0-20 ☒ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher				☒ Yes ☐ No					
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following									
☐ Owner ☐ Operator ☒ Owner & Operator ☐ Other:									
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant									
15. Mailing Address:		5900 Balcones Drive Ste 100							
City		Austin		State	TX	ZIP	78731	ZIP + 4	4298
16. Country Mailing Information (if outside USA)					17. E-Mail Address (if applicable)				
					John@HarlanRec.com				
18. Telephone Number			19. Extension or Code			20. Fax Number (if applicable)			

A.3. 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								
<i>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).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
Aztec Estates Mobile Home Park								
23. Street Address of the Regulated Entity: (No PO Boxes)	11704 S US Highway 181							
	City	San Antonio	State	TX	ZIP	78223	ZIP + 4	9718
24. County	Bexar							

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

25. Description to Physical Location:									
26. Nearest City					State				Nearest ZIP Code
<i>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).</i>									
27. Latitude (N) In Decimal:		29.303889			28. Longitude (W) In Decimal:		-98.378056		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds				
29	18	14	98	22	41				
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)			
6515				531190					
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)									
Mobile Home Park									
34. Mailing Address:	11704 S US Highway 181								
	City	San Antonio	State	TX	ZIP	78223	ZIP + 4	9718	
35. E-Mail Address:		John@HarlanRec.com							
36. Telephone Number			37. Extension or Code			38. Fax Number (if applicable)			
(608) 344-1201						() -			

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

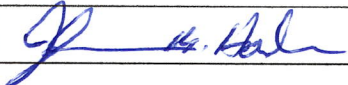
☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☐ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☐ Wastewater	☐ Wastewater Agriculture	☐ Water Rights	☒ Other: Water Quality Non-Permitted
				R13106656671

A.4. SECTION IV: Preparer Information

40. Name:	Janice King			41. Title:	Principal Consultant
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512) 221-8902		() -	JaKing@braunintertec.com		

A.5. SECTION V: Authorized Signature

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

Company:	Capstone Property Management, LLC	Job Title:	Managing Manager	
Name (In Print):	Mr. John M. Harlan	Phone:	(608) 344- 1201	
Signature:		Date:	7-26-24	

Attachment C

Plain Language Summary Template



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.

Capstone Property Management, LLC (CN 606026169) operates Aztec Estates Mobile Home Park (RN106656671), a mobile home park treats and disposes of sewage for 89 connections consisting of 84 mobile home units, 3 apartments, 1 brick house and 1 commercial onsite beauty shop, which in total generate an estimated 8,741 gallons per day. The facility is located at 11704 South US Highway 181, in San Antonio, Bexar County, Texas 78223.

Capstone Property Management, LLC is requesting a permit from Texas Commission on Environmental Quality (TCEQ) for a Domestic Wastewater Discharge Permit which includes Class V Injection Well Authorization/Sub-Surface Irrigation forms for the onsite sanitary wastewater sub-surface irrigation systems at the Aztec Estates MHP to treat and dispose of sewage for 89 residential and commercial connections which in total generate an estimated 8,741 gpd. <<For TLAP applications include the following sentence, otherwise delete:>> This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain domestic septic waste. Domestic septic waste will be treated by onsite through sub-surface irrigation to native soils.

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.

Capstone Property Management, LLC (CN606026169) opera Aztec Mobile Home Park RN106656671, un El parque de casas móviles trata y elimina las aguas residuales de 89 conexiones que constan de 84 unidades de casas móviles, 3 apartamentos, 1 casa de ladrillos y 1 salón de belleza comercial en el lugar, que en total generan aproximadamente 8,741 galones por día.. La instalación está ubicada en 11704 South US Highway 181, en San Antonio, Condado de Bexar County, Texas 78223. Capstone Property Management, LLC está solicitando un permiso de la Comisión de Calidad Ambiental de Texas (TCEQ) para un permiso de descarga de aguas residuales domésticas que incluye formularios de autorización de pozo de inyección Clase V/irrigación subterránea para los sistemas de irrigación subterránea de aguas residuales sanitarias en el sitio en Aztec. Estates MHP tratará y eliminará aguas residuales para 89 conexiones residenciales y comerciales que en total generan un estimado de 8,741 gpd. <<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>> Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan residuos sépticos domésticos. residuos sépticos domésticos. **estará** tratado por in situ mediante riego subterráneo a suelos nativos.

Attachment D

Public Involvement Plan Form



Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

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

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

Section 1. Preliminary Screening

- ☒ New Permit or Registration Application
☐ New Activity - modification, registration, amendment, facility, etc. (see instructions)

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

Section 2. Secondary Screening

- ☒ Requires public notice,
☒ Considered to have significant public interest, **and**
☒ Located within any of the following geographical locations:

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

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

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

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V
Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

- ☒ Texas Pollutant Discharge Elimination System (TPDES)
☒ Texas Land Application Permit (TLAP)
☐ State Only Concentrated Animal Feeding Operation (CAFO)
☐ Water Treatment Plant Residuals Disposal Permit
☐ Class B Biosolids Land Application Permit
☐ Domestic Septage Land Application Registration

Water Rights New Permit

- ☐ New Appropriation of Water
☐ New or existing reservoir

Amendment to an Existing Water Right

- ☐ Add a New Appropriation of Water
☐ Add a New or Existing Reservoir
☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Aztec Estates Mobile Home Park (MHP) is a mobile home park that treats and disposes sewage for mobile home units which includes mobile homes, a brick house, two apartments, and an onsite beauty salon generate an estimated 11,147 gallons per day. There are four main active leach fields, of which receive gallons per day of treatment.

Aztec Estates MHP is planning to obtain authorization from the TCEQ to operate an on-site sewage facility that will treat and dispose of more than 5,000 gallons per day of sewage for the mobile home park and obtain injection well authorization for the OSSF at the Aztec Estates MHP.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

San Antonio

(City)

Bexar

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.

☐

City

☐

County

☒

Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

25.5%

(b) Per capita income for population near the specified location

\$54,923

(c) Percent of minority population and percent of population by race within the specified location

English 4.0%, French (except Basque) 1.4%, German 7.0%, Irish 4.3%, Italian 1.8%, Norwegian 0.4%, Polish 1.0%, Scottish 0.8%, and Subsaharan African 0.6%

(d) Percent of Linguistically Isolated Households by language within the specified location

English 58.3%, Spanish 37.9%, Other Indo-European languages 1.4%, Asian and Pacific Islander languages 1.8%, and other languages 0.6%

(e) Languages commonly spoken in area by percentage

English 58.3%, and Spanish 37.9%

(f) Community and/or Stakeholder Groups

N/A

(g) Historic public interest or involvement

N/A

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☒ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☒ Yes ☐ No

If Yes, please describe.

Applicant will post public notice at the Elmendorf Community Library

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

- ☐ TCEQ Regional Office ☐ TCEQ Central Office
- ☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

- ☐ Publish in alternative language newspaper
- ☐ Posted on Commissioner's Integrated Database Website
- ☐ Mailed by TCEQ's Office of the Chief Clerk
- ☐ Other (specify)

Attachment E

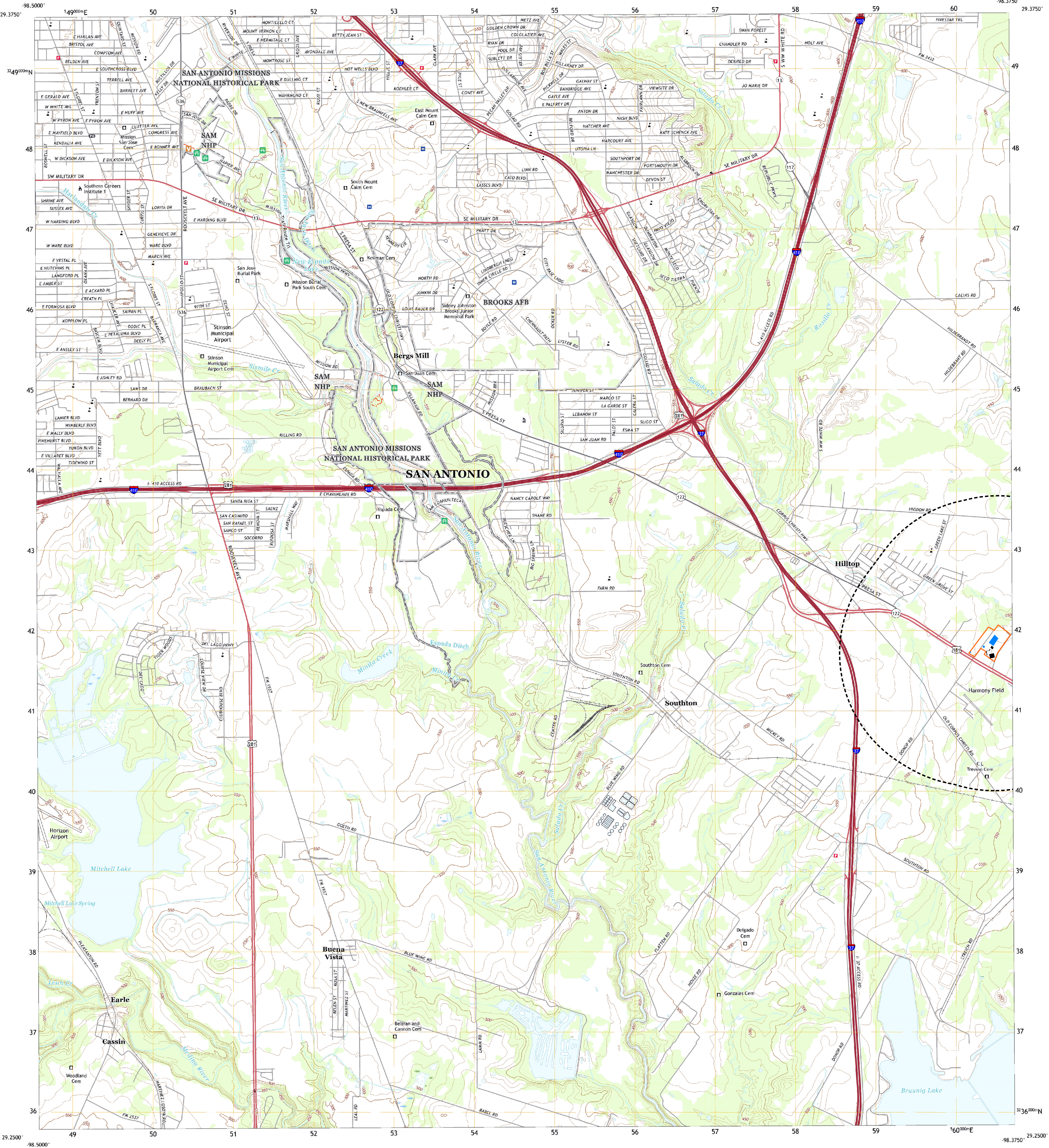
Original USGS Topographic Map



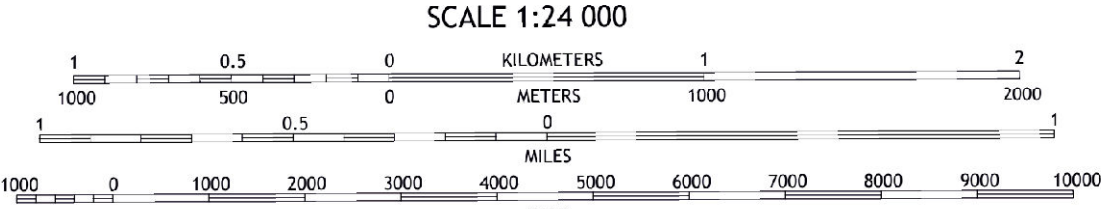
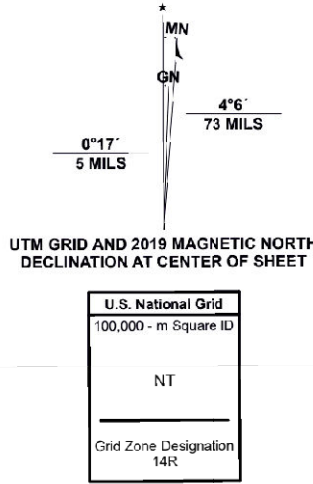
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



SOUTHTON QUADRANGLE
TEXAS - BEAR COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83). Projection and
1:500,000-meter grid Universal Transverse Mercator, Zone 14R.
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.
Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2021
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3	1 San Antonio V
4		5	2 San Antonio E
6	7	8	3 Martinez
			4 Terrell Wells
			5 Elmendorf
			6 Thelma
			7 Losoya
			8 Saspmco

ADJOINING QUADRANGLES

SOUTHTON, TX
2022

- Legend**
- Approximate Site Boundary
 - One Mile Project Radius
 - Active Lateral Field
 - Inactive Lateral Field

BRAUN
INTERTEC
The Science You Build On.

Project No:
B2303494
Drawing No:
A10E_USGS_Topo
Drawn By:
JPM
Date Drawn:
9/26/2023
Checked By:
JPM
Last Modified:
7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic
Map

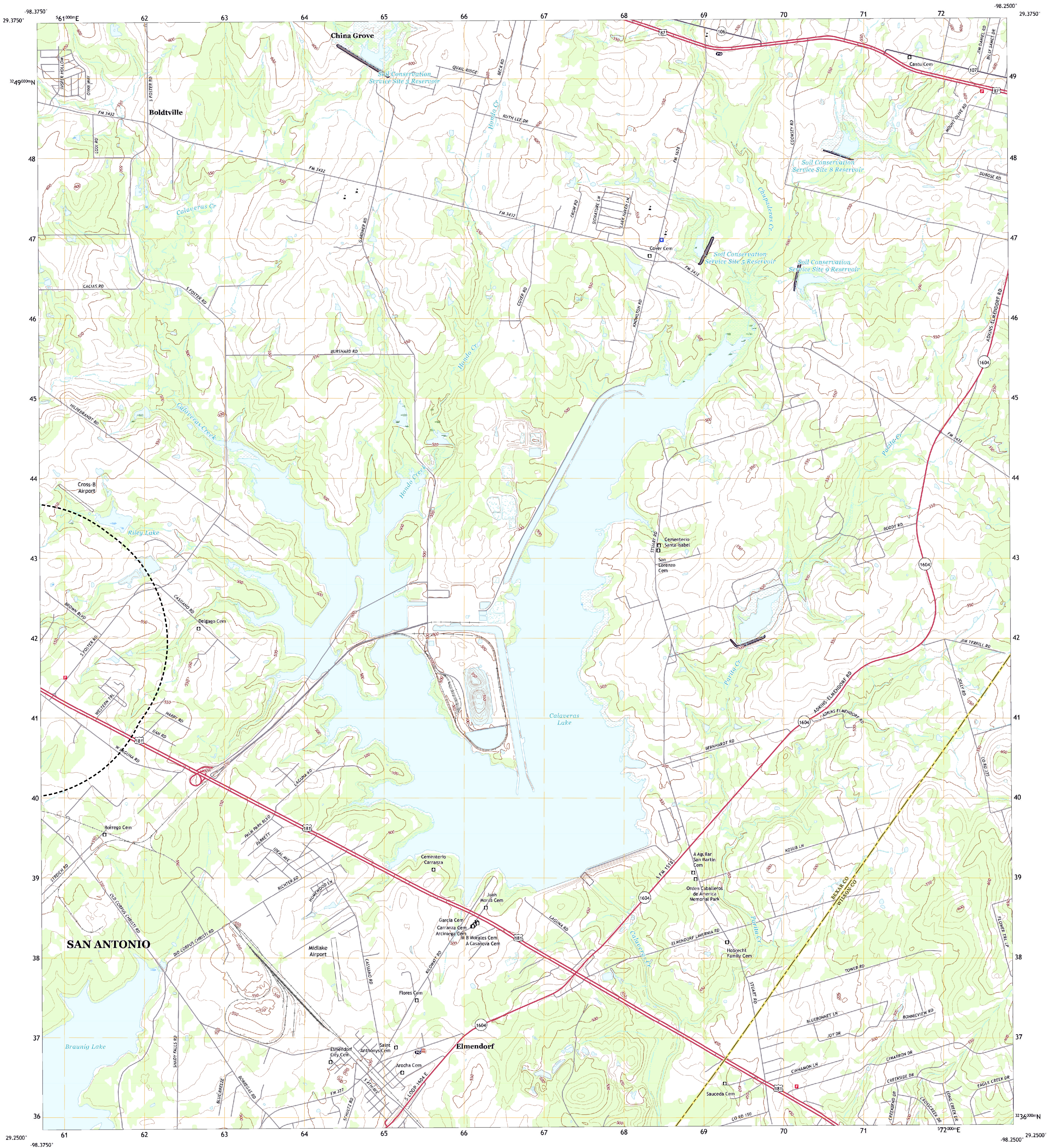
Attachment E-1



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

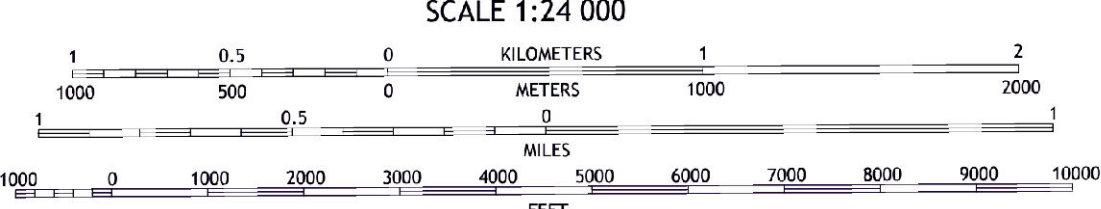
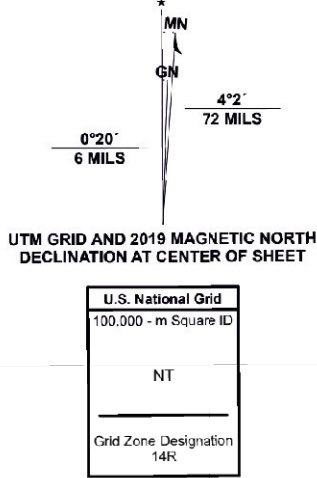


ELMENDORF QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1000-meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2000 - 2021
Contours.....National Elevation Dataset, 2019
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



1	2	3	1 San Antonio East
4	5	2 Martinez	
6	7	8	3 Saint Hedwig
			4 Southtown
			5 La Vernia SW
			6 Leoville
			7 Sissamoco
			8 Floresville

Legend
One Mile Project Radius

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

ELMENDORF, TX
2022



Project No: B2303494
Drawing No: A11E_USGS_Topo
Drawn By: JPM
Date Drawn: 9/26/2023
Checked By: JPM
Last Modified: 7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

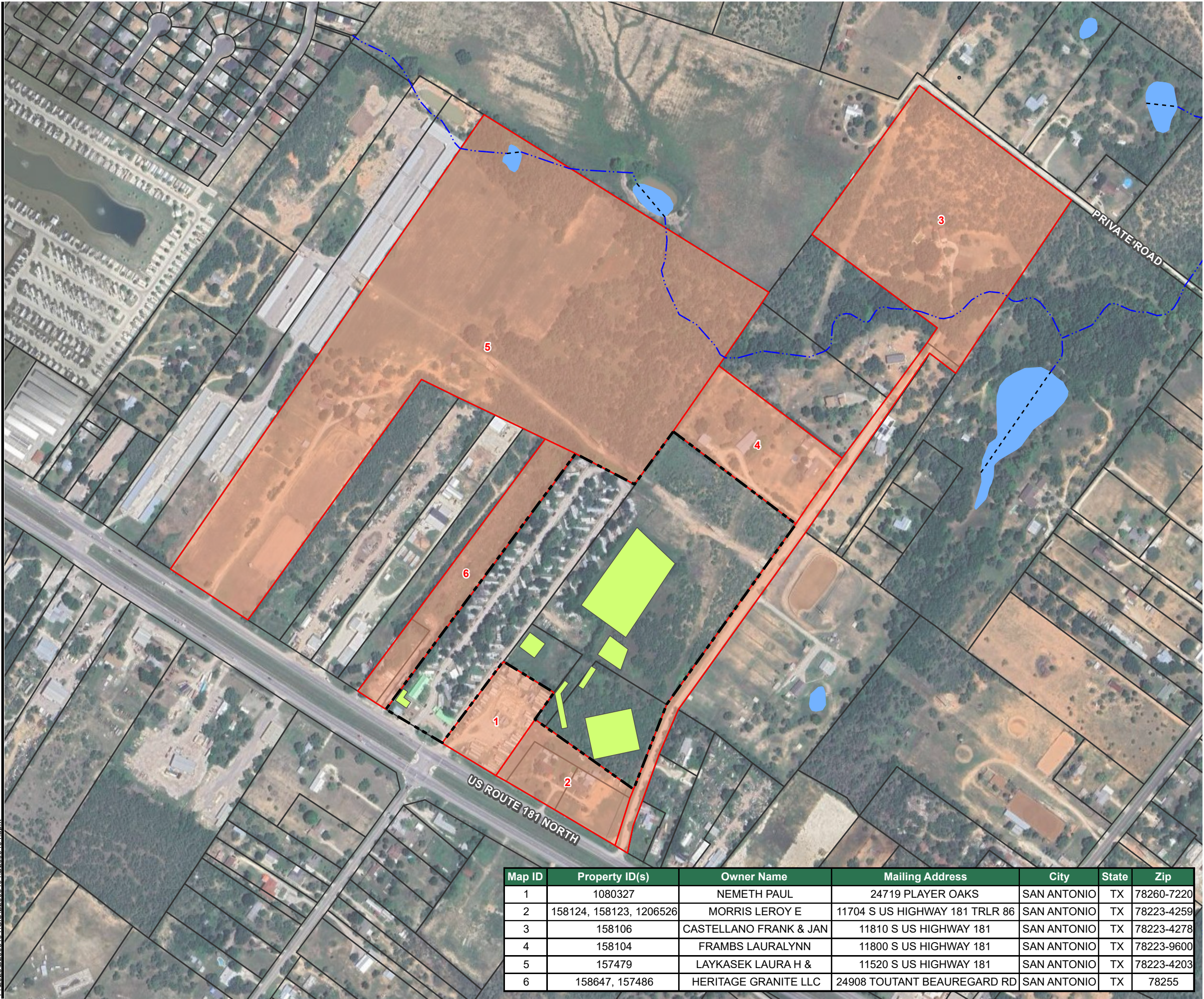
USGS Topographic Map

Attachment E-2

Attachment F

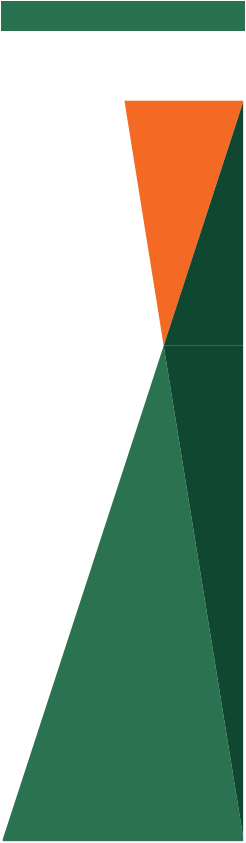
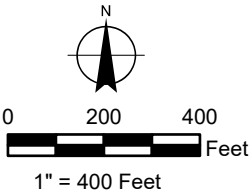
Affected Landowner Map and Mailing List

F:\2023\B2303494\GIS\B2303494\B2303494.aprx



Map ID	Property ID(s)	Owner Name	Mailing Address	City	State	Zip
1	1080327	NEMETH PAUL	24719 PLAYER OAKS	SAN ANTONIO	TX	78260-7220
2	158124, 158123, 1206526	MORRIS LEROY E	11704 S US HIGHWAY 181 TRLR 86	SAN ANTONIO	TX	78223-4259
3	158106	CASTELLANO FRANK & JAN	11810 S US HIGHWAY 181	SAN ANTONIO	TX	78223-4278
4	158104	FRAMBS LAURALYNN	11800 S US HIGHWAY 181	SAN ANTONIO	TX	78223-9600
5	157479	LAYKASEK LAURA H &	11520 S US HIGHWAY 181	SAN ANTONIO	TX	78223-4203
6	158647, 157486	HERITAGE GRANITE LLC	24908 TOUTANT BEAUREGARD RD	SAN ANTONIO	TX	78255

- Approximate Site Boundary
- Bexar County Parcels
- Affected Landowner Parcel
- Lateral Field (Disposal Site Boundaries)
- USGS NHD Streams
- Intermittent Stream
- Artificial Path
- USGS NHD Water Bodies
- Lake/Pond

Sources: Bexar Appraisal District
Parcels GIS Layer, USGS National
Hydrography Dataset.

Drawing Information

Project No:
B2303494

Drawing No:
AttF_Landowners

Drawn By: JPM
Date Drawn: 6/7/2023
Checked By: EE
Last Modified: 7/31/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

Affected
Landowners

Attachment F

Landowner Mailing List

PAUL NEMETH
24719 PLAYER OAKS
SAN ANTONIO TX 78260-7220

LEROY E. MORRIS
11704 S US HIGHWAY 181 TRLR
86
SAN ANTONIO TX 78223-4259

FRANK & JAN CASTELLANO
11810 S US HIGHWAY 181
SAN ANTONIO TX 78223-4278

LAURALYNN FRAMBS
11800 S US HIGHWAY 181
SAN ANTONIO TX 78223-9600

LAURA H. LAYKASEK
11520 S US HIGHWAY 181
SAN ANTONIO TX 78223-4203

HERITAGE GRANITE LLC
24908 TOUTANT BEAUREGARD
ROAD SAN ANTONIO TX 78255

Attachment G
Original Photographs



1. Inside Lateral Field 2 boundary



2. Inside Lateral Field 2 boundary



3. Outside Lateral Field 2 boundary



4. Inside Lateral Field 3 boundary



5. Inside Lateral Field 3 boundary



6. Inside Lateral Field 4 boundary



7. Inside Lateral Field 5 boundary



8. Outside Lateral Field 5 boundary



9. Outside Lateral Field 7 boundary



10. Inside Lateral Field 8 boundary



11. Outside Lateral Field 9 boundary



12. Inside Lateral Field 9 boundary



13. Outside Lateral Field 1 boundary- North



14. Outside Lateral Field 1 boundary - East



15. Outside Lateral Field 3 boundary



16. Outside Lateral Field 3 boundary



17. Inside Lateral Field 1 boundary



18. Inside Lateral Field 1 boundary



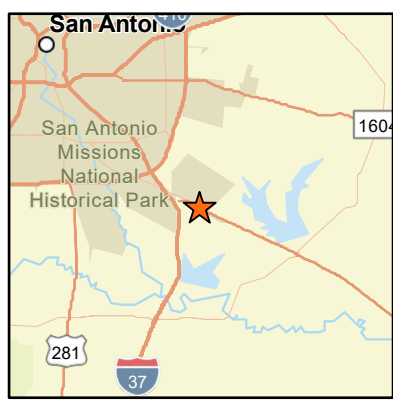
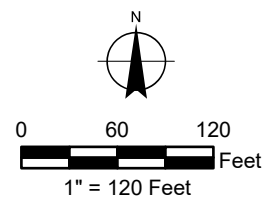
19. Inside Lateral Field 1 boundary



20. Inside Lateral Field 1 boundary



- Photo Location/Direction
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8
- Approximate Site Boundary
- Septic Tank
- Other
- Underground Sanitary Sewer Line
- Fence
- Active Lateral Field
- Inactive Lateral Field
- Bexar County Parcels



BRAUN
INTERTEC
The Science You Build On.
10075 Windfern Rd
Houston, TX 77064
713.230.8436
braunintertec.com

Drawing Information

Project No:
B2303494

Drawing No:
AttG_PhotoLog

Drawn By: JPM
Drawn Drawn: 6/7/2023
Checked By: EE
Last Modified: 7/31/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

Photo Location
Map

Attachment G

F:\2023\B2303494\GIS\B2303494\B2303494.aprx

181

bing

DONOP RD

MANAGER'S
RESIDENCE/OFFICE

BEAUTY
SHOP

MAIL
STORAGE

EXPOSED
WASTEWATER PIPE

LF2

LF5

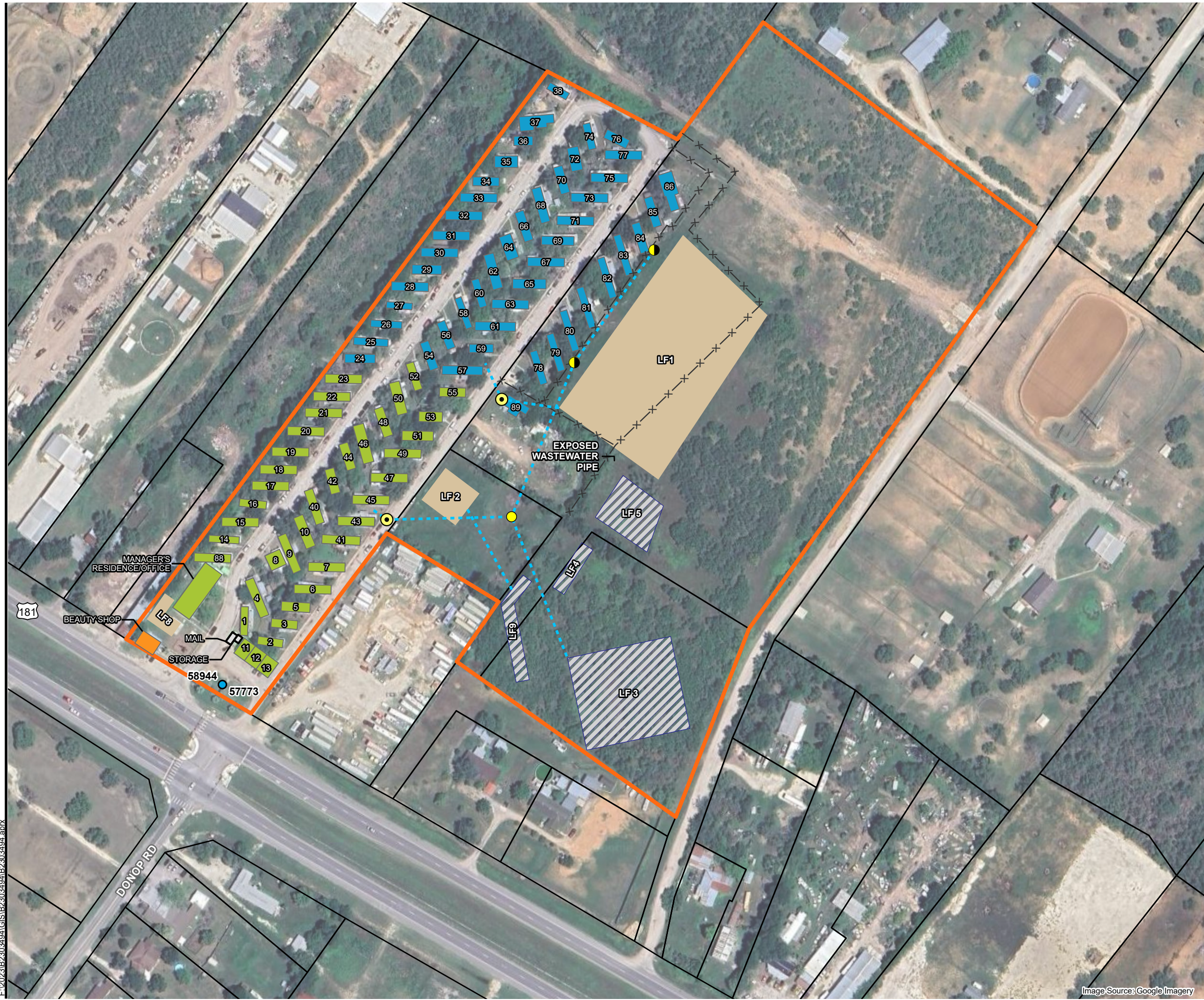
LF9

LF4

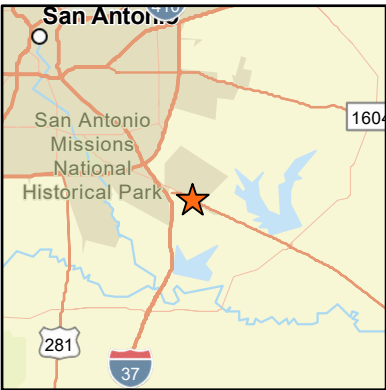
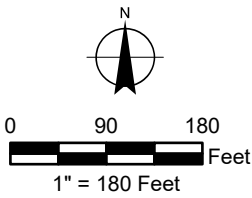
LF3

Attachment H

Site Map



- Approximate Site Boundary
- Bexar County Parcels
- Pump
- Septic Tank
- Septic Tank/Pump
- Underground Sanitary Sewer Line
- Fence
- Active Lateral Field
- Inactive Lateral Field
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8
- TWDB Well Reports
 - Withdrawal of Water



BRAUN
INTERTEC
The Science You Build On.
10075 Windfern Rd
Houston, TX 77064
713.230.8436
braunintertec.com

Drawing Information

Project No:
B2303494

Drawing No:
AttB-H_SiteMap

Drawn By: JPM
Date Drawn: 6/7/2023
Checked By: EE
Last Modified: 7/31/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

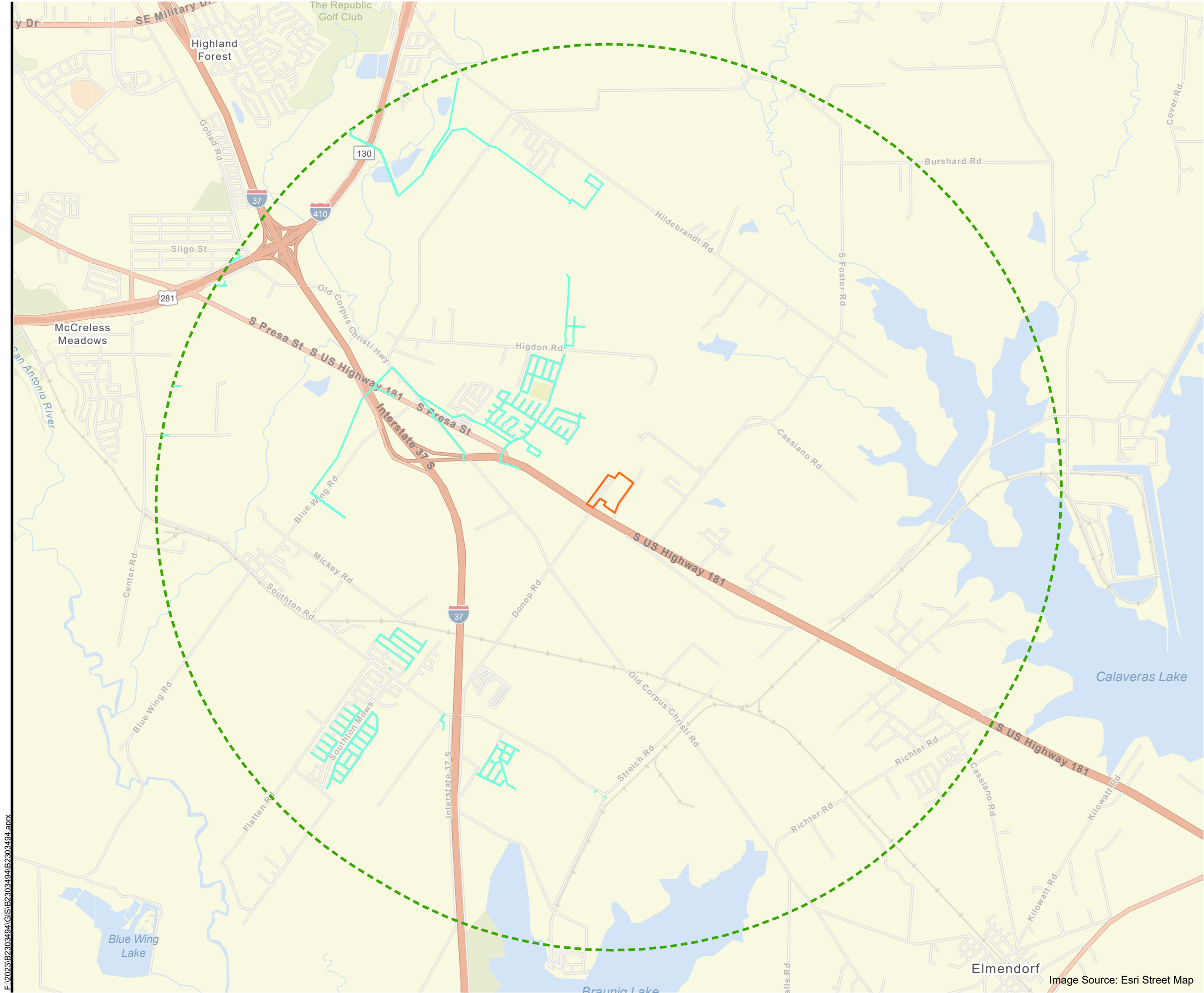
Site Map

Attachment H

F:\2023\B2303494\GIS\B2303494\B2303494.aprx

Image Source: Google Imagery

Attachment I
WWTP Area Map



- Approximate Site Boundary
- Three Mile Project Radius
- San Antonio Water System (SAWS) Sewer Main

Source: San Antonio Water System (SAWS)
Utility Locate GIS Viewer.

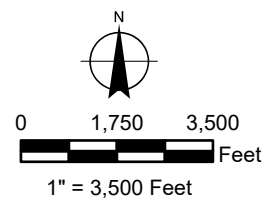


Image Source: Esri Street Map

Drawing Information

Project No:
B2303494

Drawing No:
Attl_WWTPs

Drawn By: JPM
Drawn Drawn: 6/7/2023
Checked By: EE
Last Modified: 7/31/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

WWTPs Area Map

Domestic Technical Report 1.1
Section 1
Attachment S

Permittee **San Antonio Water System**

Water Rights ID Number **ADJ2019**

March 13, 2023

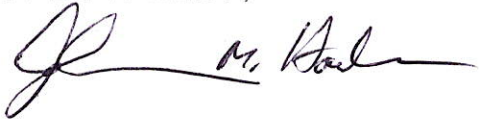
SAN ANTONIO WATER SYSTEM

2800 US HWY 281 N, SAN ANTONIO, TX 78212

To Whom It May Concern:

I represent Capstone Property Management, LLC, dba. Aztec Estates Mobile Home Community located at 11704 US Hwy 181 South in San Antonio. Currently, we are connected to the city water utility, but I am investigating if it is possible and the feasibility of connecting Aztec Estates MHC to the public city sewer utility. Would you please help me in determining the nearest connection point location and the costs involved in connecting to the city sewer utility? I may be reached at 608-344-1201.

RESPECTFULLY,

A handwritten signature in black ink, appearing to read "John Harlan", written over a horizontal line.

JOHN HARLAN
608-344-1201
JOHN@HARLANREC.COM



March 14, 2023

Mr. John Harlan

Re: 11704 US Hwy 181 S., San Antonio, Texas 782023 Availability of SAWS' Infrastructure

Mr. Harlan:

This is in response to your request for the availability of water and wastewater service to the above referenced property. The location of the tract is not within the City of San Antonio city limits, inside SAWS' Water CCN, and outside SAWS' Sewer CCN.

The San Antonio Water System (SAWS) strives to provide quality, reliable service to its customers at a reasonable cost. Rates are kept low, in part, by having new customers pay for all costs associated with extending service to them. SAWS Board of Trustees Growth Strategy states "we will work to ensure that growth is self-funding". Per SAWS Utility Service Regulations Sections 3.1, 5.1, 6.1, 7.1, and 7.3, new customers are expected to pay for the infrastructure needed to serve their property and pay impact fees to SAWS to pay for general benefit facilities such as overall additional storage tanks, water supplies, pump, or treatment facilities required to serve the new customers. Please note that the water supply impact fees increased on June 1, 2019. It is not SAWS' practice to construct main or service connections to a new customer. Such construction would need to be arranged and paid for by the customer through a professional engineer (if a public main extension is required) and authorized contractor. Costs of surveying, engineering design, materials, construction, and impact fees should be considered before the customer proceeds with construction of their proposed mains or services.

WATER

Water Supply to the tract will be from Pressure Zone 750 which has a static gradient of 750 ft. The approximate maximum elevation of the tract is 580 feet & 74 PSI and the approximate minimum elevation of the tract is 572 feet & 77 PSI. There is an existing 16-inch water main along the northeast side of US Hwy 181 S. Water mains in the vicinity of the property are shown on the attached location map. If commercial uses are proposed, the San Antonio Water System requires a 12-inch or greater sized main to provide adequate fire flow and domestic demand.

Costs and commitment requirements for providing water service may include additional on-site mains and service connection fees. Payment is required of all applicable fees in effect at the time of plat recordation or the latest date allowable by law. This includes current impact fees based on connection point and number of EDUs of capacity requested. Presently, one water EDU = 290 gallons per day of average daily flow. Current impact fees are shown in the table below.

Water Impact Fee Zone (Pressure Zone)	Flow	System Development	Water Supply	Total Water Impact Fees (per 1 EDU)
PZ 750 Low	\$1,188	\$855	\$2,706	\$4,749

RECYCLE WATER

In some locations it may be feasible to make use of SAWS recycled water. SAWS has established 73 miles of recycled water pipelines through the city of San Antonio. Recycled water is non-potable and ideal for irrigation, commercial, manufacturing, and industrial uses. Recycled water is cost-effective, environmentally responsible, and not affected by mandatory curtailment during drought conditions. For more information please call (210) 233-3673 or email Pablo.Martinez@saws.org Pablo Martinez at San Antonio Water System.

WASTEWATER

The Tract is situated within SAWS' sewer service area and lies within the Upper Calaveras Creek Watershed. There is an existing 12-inch gravity sewer main crossing US Hwy 181 S. approximately 3,700 LF northwest of the property. Wastewater mains in the vicinity of the property are shown on the attached location map. If the developer chooses to extend the nearest sewer main to the proposed site, he/she must do so at his cost. Connections to mains require the developer to acquire an easement for the main extension if necessary. All tie-ins into the San Antonio Water System's collection system must be based on fieldwork and in conformance with the San Antonio Water System Utility Service Regulations, which became effective on August 9, 2016. Current impact fees are shown in the table below.

Wastewater Impact Fee Area	Collection	Treatment	Total Wastewater Impact Fees (per 1 EDU)
Lower	\$902	\$651	\$1,553

The Developer will be responsible for any additional sanitary wastewater main extensions (on-site and/or off-site), right-of-way and easement acquisitions (if needed), private wastewater service laterals required to serve the property, lift stations, and force main systems, lift station upgrades, and lift station maintenance fees (per lift station), along with payment of all applicable fees in effect at time of plat recordation or the latest date allowable by law. This includes current impact fees based on connection point and number of EDUs of capacity requested. Presently, one wastewater EDU = 200 gallons per day of average daily flow.

This letter does not constitute a commitment to capacity by the SAWS to provide water and/or wastewater service to the subject property. The actual availability of water and/or wastewater service to the property will be dependent upon the site-specific requirements such as site elevation,

pressure requirements, estimated demand and discharge, and the infrastructure requirements as set forth in the USR. The consulting engineer should assess the site-specific requirements in accordance with the USR regulations prior to requesting connection to SAWS' infrastructure. In some cases a Utility Service Agreement may be necessary, for more information please refer to the SAWS Guide to Development https://apps.saws.org/business_center/Developer for a detailed guideline regarding the process for obtaining water/and or wastewater services.

Should additional information be needed please contact me at email: Richard.McWhirter@saws.org

Sincerely,

Richard McWhirter
San Antonio Water System

Attachments

1. Water Utility Map
2. Wastewater Utility Map



June 9, 2023

Ms. Eleanor Edeogho

Re: 11704 US Hwy 181 S., San Antonio, Texas 782023 Availability of SAWS' Infrastructure

Ms. Edeogho:

This is in response to your request for the availability of water and wastewater service to the above referenced property. The location of the tract is not within the City of San Antonio city limits, inside SAWS' Water CCN, and outside SAWS' Sewer CCN.

The San Antonio Water System (SAWS) strives to provide quality, reliable service to its customers at a reasonable cost. Rates are kept low, in part, by having new customers pay for all costs associated with extending service to them. SAWS Board of Trustees Growth Strategy states "we will work to ensure that growth is self-funding". Per SAWS Utility Service Regulations Sections 3.1, 5.1, 6.1, 7.1, and 7.3, new customers are expected to pay for the infrastructure needed to serve their property and pay impact fees to SAWS to pay for general benefit facilities such as overall additional storage tanks, water supplies, pump, or treatment facilities required to serve the new customers. Please note that the water supply impact fees increased on June 1, 2019. It is not SAWS' practice to construct main or service connections to a new customer. Such construction would need to be arranged and paid for by the customer through a professional engineer (if a public main extension is required) and authorized contractor. Costs of surveying, engineering design, materials, construction, and impact fees should be considered before the customer proceeds with construction of their proposed mains or services.

WATER

Water Supply to the tract will be from Pressure Zone 750 which has a static gradient of 750 ft. The approximate maximum elevation of the tract is 580 feet & 74 PSI and the approximate minimum elevation of the tract is 572 feet & 77 PSI. There is an existing 16-inch water main along the northeast side of US Hwy 181 S. Water mains in the vicinity of the property are shown on the attached location map. If commercial uses are proposed, the San Antonio Water System requires a 12-inch or greater sized main to provide adequate fire flow and domestic demand.

Costs and commitment requirements for providing water service may include additional on-site mains and service connection fees. Payment is required of all applicable fees in effect at the time of plat recordation or the latest date allowable by law. This includes current impact fees based on connection point and number of EDUs of capacity requested. Presently, one water EDU = 290 gallons per day of average daily flow. Current impact fees are shown in the table below.

Water Impact Fee Zone (Pressure Zone)	Flow	System Development	Water Supply	Total Water Impact Fees (per 1 EDU)
PZ 750 Low	\$1,188	\$855	\$2,706	\$4,749

RECYCLE WATER

In some locations it may be feasible to make use of SAWS recycled water. SAWS has established 73 miles of recycled water pipelines through the city of San Antonio. Recycled water is non-potable and ideal for irrigation, commercial, manufacturing, and industrial uses. Recycled water is cost-effective, environmentally responsible, and not affected by mandatory curtailment during drought conditions. For more information please call (210) 233-3673 or email Pablo.Martinez@saws.org Pablo Martinez at San Antonio Water System.

WASTEWATER

The Tract is situated within SAWS' sewer service area and lies within the Upper Calaveras Creek Watershed.

There are no accessible sewer mains within 200 or 300 feet (200 - City, 300 - County) in the vicinity of the property. Since a sewer main extension cannot be established the San Antonio Water System will not object to the installation of an individual septic tank system to serve the property, provided that the property owner meets all requirements set forth by the Bexar County Public Works Department. For additional information and requirements regarding septic tank systems please call (210) 335-6700 and contact Mr. Mike Lara at Bexar County Public Works.

If the developer chooses to extend the nearest sewer main to the proposed site, he/she must do so at his cost. Connections to mains require the developer to acquire an easement for the main extension if necessary. All tie-ins into the San Antonio Water System's collection system must be based on fieldwork and in conformance with the San Antonio Water System Utility Service Regulations, which became effective on December 4, 2012. Current impact fees are shown in the table below.

Wastewater Impact Fee Area	Collection	Treatment	Total Wastewater Impact Fees (per 1 EDU)
Lower	\$902	\$651	\$1,553

The Developer will be responsible for any additional sanitary wastewater main extensions (on-site and/or off-site), right-of-way and easement acquisitions (if needed), private wastewater service laterals required to serve the property, lift stations, and force main systems, lift station upgrades, and lift station maintenance fees (per lift station), along with payment of all applicable fees in effect at time of plat recordation or the latest date allowable by law. This includes current impact

fees based on connection point and number of EDUs of capacity requested. Presently, one wastewater EDU = 200 gallons per day of average daily flow.

This letter does not constitute a commitment to capacity by the SAWS to provide water and/or wastewater service to the subject property. The actual availability of water and/or wastewater service to the property will be dependent upon the site-specific requirements such as site elevation, pressure requirements, estimated demand and discharge, and the infrastructure requirements as set forth in the USR. The consulting engineer should assess the site-specific requirements in accordance with the USR regulations prior to requesting connection to SAWS' infrastructure. In some cases a Utility Service Agreement may be necessary, for more information please refer to the SAWS Guide to Development https://apps.saws.org/business_center/Developer for a detailed guideline regarding the process for obtaining water/and or wastewater services.

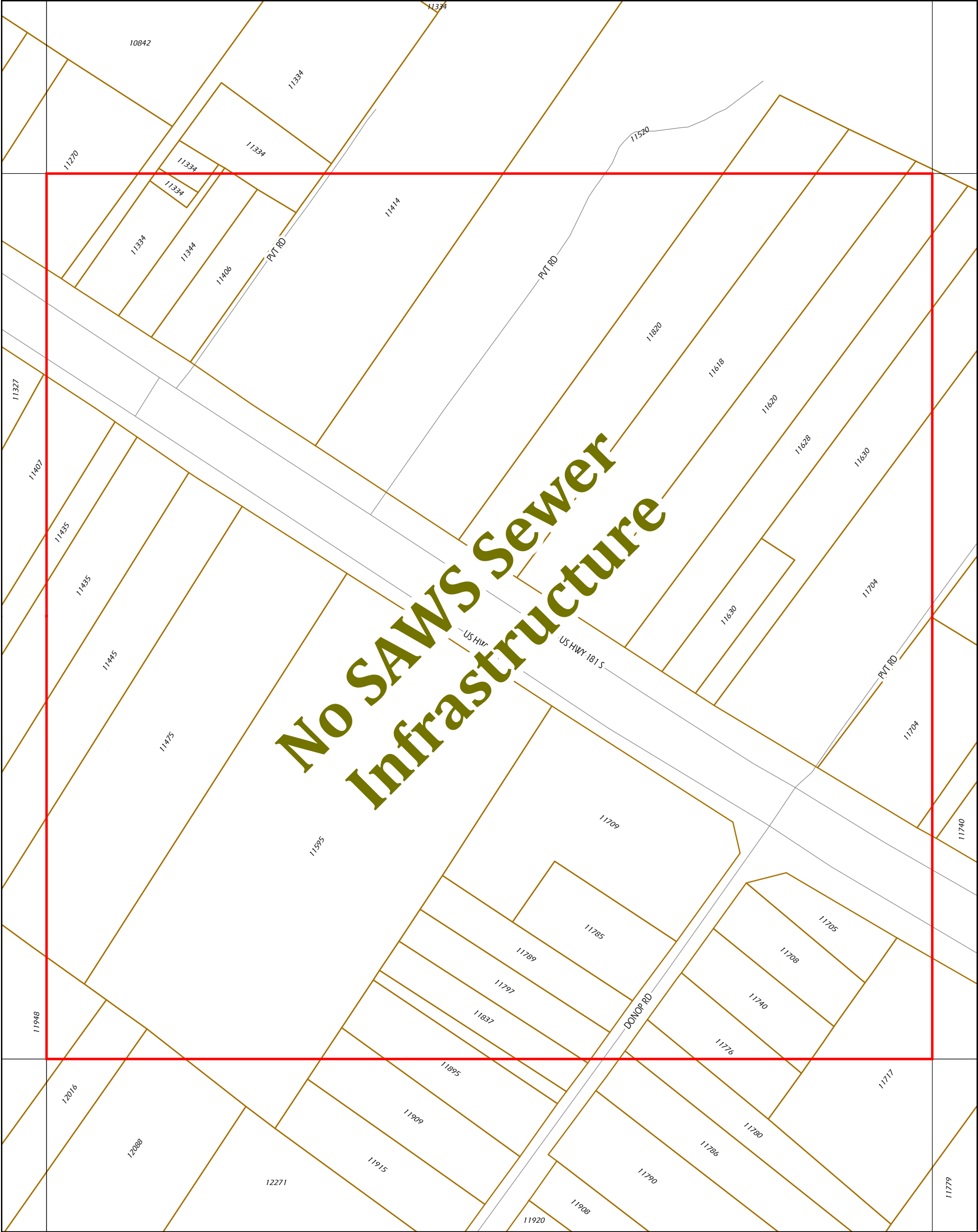
Should additional information be needed please contact me at email: Richard.McWhirter@saws.org

Sincerely,

Richard McWhirter
San Antonio Water System

Attachments

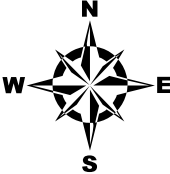
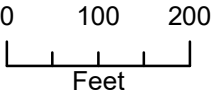
1. Water Utility Map
2. Wastewater Utility Map



NO ASSETS

"SAWS GIS Mapping: A wealth of information at your fingertips"



BLOCK MAP

196534

SAN ANTONIO WATER SYSTEM
INFRASTRUCTURE PLANNING
GIS MAPPING DIVISION

Revised Date: Sep. 15, 2022

Disclaimer:
This utility map is for reference only. The information may not represent what actually has been constructed. S.A.W.S explicitly disclaims any representation of the accuracy of the information and assumes no liability for any errors, omissions, or inaccuracies in the map regardless of how caused. Field verification should be done as necessary. S.A.W.S. prohibits the reproduction or sale of this document. This utility map may not under any circumstances, be copied, reproduced or published in any form or media, or transferred to another without written permission of the San Antonio Water System.

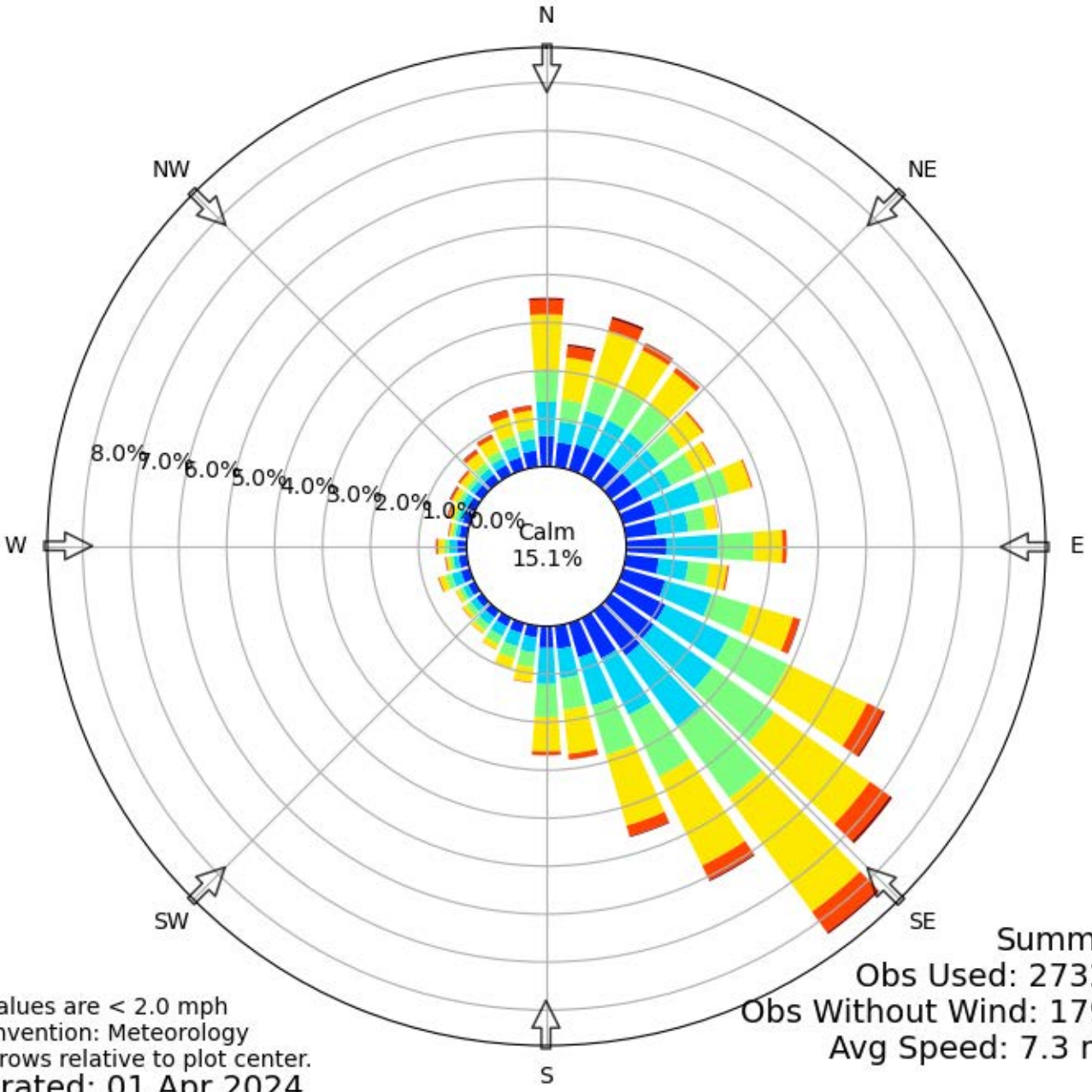
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194 534	196 534	198 534
194 532	196 532	198 532

Attachment J

Wind Rose

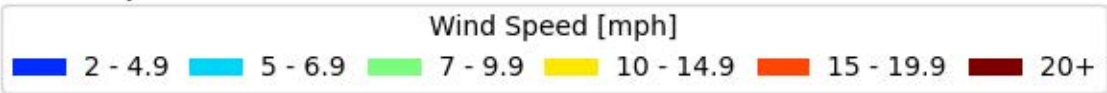


Windrose Plot for [SSF] SAN ANTONIO/STINSON
Obs Between: 05 Jan 1988 07:00 AM - 01 Apr 2024 04:53 AM America/Chicago



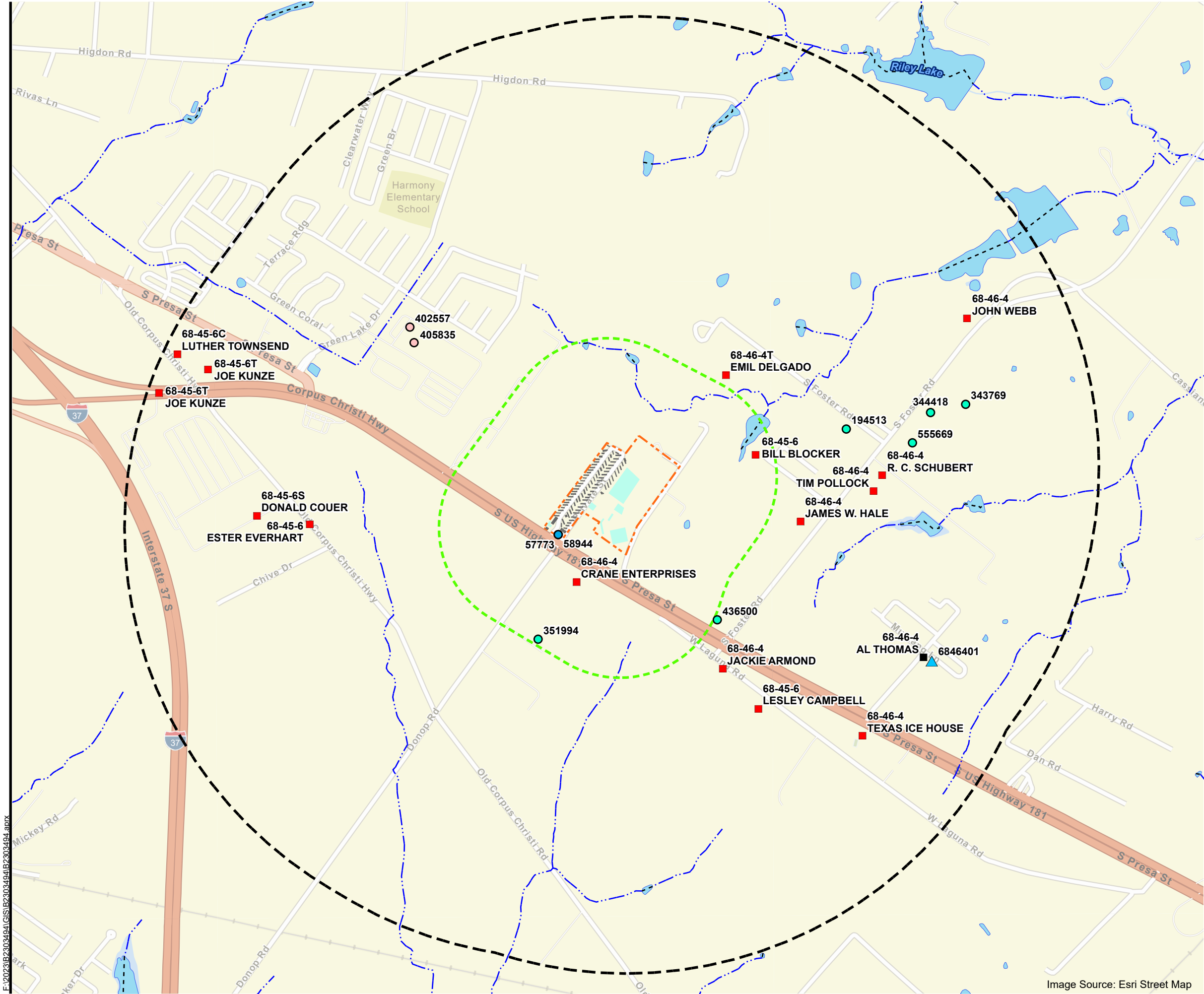
Summary
Obs Used: 273247
Obs Without Wind: 17937
Avg Speed: 7.3 mph

Calm values are < 2.0 mph
Bar Convention: Meteorology
Flow arrows relative to plot center.
Generated: 01 Apr 2024



Attachment K

Well Map and State of Texas Well Report



- Approximate Site Boundary
- 0.25 Mile Project Radius
- 1 Mile Project Radius
- Water Body (USGS)
- Building
- Lateral Field
- USGS NHD Streams
- Intermittent Stream
- Artificial Path
- TWDB Groundwater Database
- Water Supply Well
- TWDB Well Reports
- Domestic
- Irrigation
- Withdrawal of Water - Plugged
- TCEQ Well Logs
- Domestic
- Municipal

Note: no springs, seeps, faults, or sinkholes were identified within one mile of the site.

Sources: USGS National Hydrography Dataset (NHD), TCEQ Source Water Assessment GIS Layers, Texas Water Development Board Groundwater Database, TCEQ Water Well Report Viewer, Texas Water Development Board Well Reports GIS Layer, Geologic Atlas of Texas.

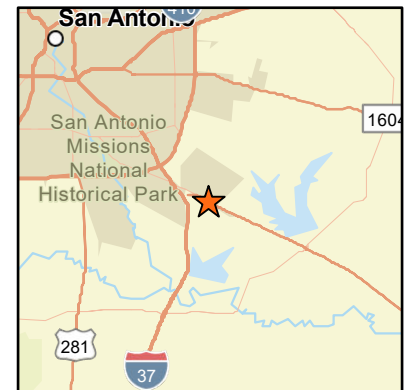
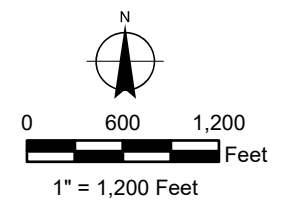


Image Source: Esri Street Map

Drawing Information

Project No:
B2303494

Drawing No:
AttK_WellMap

Drawn By: JPM
Date Drawn: 6/7/2023
Checked By: EE
Last Modified: 7/31/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

Well Map

STATE OF TEXAS WELL REPORT for Tracking #351994

Owner: **Jesse Benavides**

Owner Well #: **No Data**

Address: **11920 Donop Rd
San Antonio, TX 78223**

Grid #: **68-45-6**

Well Location: **11920 Donop Rd
San Antonio, TX 78223**

Latitude: **29° 17' 57" N**

Longitude: **098° 22' 51" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/17/2013** Drilling End Date: **1/3/2014**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	7.875	0	360

Drilling Method: **Mud (Hydraulic) 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:	226	360	Gravel	1/4

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	3

Seal Method: **Hand Mixed**

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

Sealed By: **Moy's**

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

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

Method of Verification: **tape**

Surface Completion: **Surface Slab Installed**

Water Level: **106 ft. below land surface on No Data**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 60+/- GPM**

Water Quality:

<i>Strata Depth (ft.)</i>	<i>Water Type</i>
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: **Thomas Moy and Sons**
12323 N St Hwy 123
Falls City, TX 78113

Driller Name: **Johnny W Moy**

License Number: **2570**

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>
0	67	shale and sand
67	121	rock shale and sand
121	192	shale and rock
192	345	shale, rock and strk sand
345	360	rock

<i>Dia. (in.)</i>	<i>New/Used</i>	<i>Type</i>	<i>Setting From/To (ft.)</i>
5	new	plastic blank	0-280
5	new	plastic screen	280-360 .032

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 #194513

Owner: **J.B. King**

Owner Well #: **No Data**

Address: **11297 S. Foster Rd.
San Antonio, TX 78155**

Grid #: **68-46-4**

Well Location: **11297 S. Foster Rd.
San Antonio, TX 78155**

Latitude: **29° 18' 23" N**

Longitude: **098° 22' 07" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/5/2005**

Drilling End Date: **12/6/2005**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
7.875	0	305
6.75	0	322

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
240	305	Gravel	3/16

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
0	10	1 Cement

Seal Method: **Unknown**

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

Sealed By: **L. Deharde**

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

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

Method of Verification: **Wheel**

Surface Completion: **Surface Sleeve Installed**

Water Level: **86 ft. below land surface on 2005-12-06**

Measurement Method: **Unknown**

Packers: **HolePlug 230' - 240'**

Type of Pump: **Submersible**

Pump Depth (ft.): **140**

Well Tests: **Jetted** **Yield: 80 GPM**

Water Quality:

Strata Depth (ft.)	Water Type
320' - 350'	Bexar

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: **Deharde Water Well Service**
1075 Schuenemann Rd
Seguin, TX 78155

Driller Name: **Larry Deharde**

License Number: **2328**

Comments: **Water Test: 80 gpm @ 190 ft.**
\$mew

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

From (ft)	To (ft)	Description
0-1		Sandy Clay
1-2		Clay
2-15		Sandy Clay
15-30		White Clay
30-45		Sand & Rocks
45-55		Clay
55-62		Sand
62-150		Blue Clay
150-170		Sand
170-200		Sandy Clay & Rocks
200-235		Clay
235-265		Sand & Sandy Clay
265-266		Rock
266-285		Sandy Clay
285-287		Rock
287-305		Sand
305		Clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
4	New	Plastic	0 - 305 Sch40
4	New	Screen Mfg.	.016 260 - 300 Sch40

STATE OF TEXAS WELL REPORT for Tracking #343769

Owner: **Jaun Hernandez**

Owner Well #: **1**

Address: **11080 S.Foster Rd
San Antonio, TX 78223**

Grid #: **68-46-4**

Well Location: **11080 S.Foster Rd
San Antonio, TX 78223**

Latitude: **29° 18' 26" N**

Longitude: **098° 21' 50" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/11/2013**

Drilling End Date: **10/16/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	290

Drilling Method: **Mud (Hydraulic) 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:	220	290	Gravel	3/8 WASHED

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	6 PORTLAND
	210	220	2 SKS HOLE PLUG

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **54**

Sealed By: **TJ&TB DRILLING**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **100 ft. below land surface on 2013-10-17** Measurement Method: **Unknown**

Packers: **No Data**

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

Well Tests: **Jetted** Yield: **40 GPM after 4 hours, no drawdown specified**

Water Quality:

Strata Depth (ft.)	Water Type
224	wilcox

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: **TJ & TB DRILLING**
344 County rd 305
Floresville, TX 78114

Driller Name: **John Wilkins**

License Number: **54470**

Apprentice Name: **Thomas N Johnson**

Apprentice Number: **59264**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	5	top soil
5	8	caliche
8	24	tan clay
24	76	dark clay
76	84	hard rock
84	159	dark brown clay
159	168	clay sand
168	170	rock
170	180	dark clay
180	224	dark clay light sand streaks
224	240	sand clay
240	245	clay
245	280	sand clay streaks
280	290	dark clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	N	pvc blank	290-280 sdr 17
5"	N	mill slot screen	280-240 .020
5"	N	pvc blank	240-+2 sdr 17

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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 #344418

Owner: **Edwardo Hernandez**
Address: **11080 S. Foster Rd.
San Antonio, TX 78223**
Well Location: **11080 S. Foster Rd.
San Antonio, TX 78223**
Well County: **Bexar**

Owner Well #: **2**
Grid #: **68-46-4**
Latitude: **29° 18' 25" N**
Longitude: **098° 21' 55" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/20/2013** Drilling End Date: **10/23/2013**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	300

Drilling Method: **Mud (Hydraulic) 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:	230	300	Gravel	3/8 washed

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	8 portland
	220	230	2 hole plug

Seal Method: **hand mix**

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

Sealed By: **Driller**

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

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

Method of Verification: **TAPE**

Surface Completion: **Surface Slab Installed**

Water Level: **96 ft. below land surface on 2013-10-24** Measurement Method: **Unknown**

Packers: **No Data**

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

Well Tests: **Jetted** Yield: **40 GPM after 4 hours, no drawdown specified**

Water Quality:

Strata Depth (ft.)	Water Type
230	WILCOX

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: **TJ&TB Drilling**
344 CR 305
Floresville, TX 78114

Driller Name: **John Wilkins**

License Number: **54470**

Apprentice Name: **Thomas N. Johnson**

Apprentice Number: **59264**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	3	top soil
3	7	white caliche
7	22	red clay
22	28	orange clay
28	48	orange clay/sand
48	83	orange clay
83	110	dark gray clay
110	144	light gray clay
144	156	sand lignite
156	165	light gray clay
165	200	gray clay/sand
200	204	rock
204	230	dark gray clay
230	255	gray clay/sand
255	290	sand clay streaks
290	300	gray clay

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	N	pvc blank	300-290 sdr17
5"	N	mill slot	290-250 .020
5"	N	pvc blank	250-+2 sdr17

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #402557

Owner: **RAY VARGAS**

Owner Well #: **1**

Address: **10575 WEST OFFICE DR
HOUSTON, TX 77092**

Grid #: **68-45-6**

Well Location: **10842 GREEN LAKE DR
SAN ANTONIO, TX**

Latitude: **29° 18' 36" N**

Longitude: **098° 23' 09" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Irrigation**

Drilling Start Date: **6/8/2015**

Drilling End Date: **6/12/2015**

Borehole:

<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
12.5	0	520

Drilling Method: **Mud (Hydraulic) Rotary**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Filter Material</i>	<i>Size</i>
180	520	Gravel	3/8

Annular Seal Data:

<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
		3 BENTONITE
0	155	42 CEMENT
155	160	6 HOLE PLUG

Seal Method: **Pumped**

Distance to Property Line (ft.): **200**

Sealed By: **KELTIC DRILLING**

Distance to Septic Field or other
concentrated contamination (ft.): **58**

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

Method of Verification: **EST**

Surface Completion: **Surface Sleeve Installed**

Water Level: **160 ft. below land surface on 2015-06-12** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **300**

Well Tests: **Jetted** Yield: **20 GPM with 120 ft. drawdown after 4 hours**

Water Quality:

Strata Depth (ft.)	Water Type
190	NATURAL

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: **KELTIC DRILLING LLC**
PO BOX 839
VON ORMY, TX 78073

Driller Name: **GERHARDT RUPPRECHT**

License Number: **58631**

Comments: **^EAD**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	5	CALICHE
5	78	GRAY CLAY & ROCK
78	89	SAND GRAY
89	108	GRAY CLAY
108	139	CLAY & SAND
139	191	ROCK
165	182	GRAY CLAY
190	240	GRAY CLAY & SAND
191	193	GRAY SAND
193	165	CLAY & SAND GRAY
240	258	GRAY CLAY & ROCK
258	275	GRAY CLAY & SAND
275	282	GRAY CLAY
282	285	GRAY ROCK
285	361	GRAY CLAY
361	364	GRAY ROCK
364	402	GRAY CLAY SOME SAND

Dia. (in.)	New/Used	Type	Setting From/To (ft.)
5"	NEW	SDR 17	0'-300' CASING
5"	NEW	SDR 17	SCREEN MFG. 300'-360' .020 SCREEN
5"	NEW	SDR 17	360'-400' CASING
5"	NEW	SDR 17	SCREEN MFG. 400'-420' .032 SCREEN
5"	NEW	SDR 17	420'-460' CASING
5"	NEW	SCREEN MFG.	460'-480' SCREEN .020
5"	NEW	SDR 17	480'-500' CASING

402	403	GRAY ROCK
403	452	GRAY CLAY
452	454	GRAY ROCK
454	471	GRAY CLAY W/SOME SAND
471	520	GRAY CLAY

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

STATE OF TEXAS WELL REPORT for Tracking #405835

Owner:	GDRM 181 RLP	Owner Well #:	No Data
Address:	10575 WEST OFFICE DR HOUSTON, TX 77042	Grid #:	68-45-6
Well Location:	10842 GREEN LAKE DR SAN ANTONIO, TX	Latitude:	29° 18' 34.06" N
Well County:	Bexar	Longitude:	098° 23' 08.42" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Irrigation

Drilling Start Date: **8/18/2015** Drilling End Date: **8/23/2015**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	12.5	0	520
	6.75	520	694

Drilling Method: **Mud (Hydraulic) 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:	50	520	Gravel	3/8

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	50	Cement & Bentonite 31
	50	55	3/8 Hole Plug

Seal Method: **Pumped**

Distance to Property Line (ft.): **300**

Sealed By: **Driller**

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: **85 ft. below land surface on 2015-08-23**

Packers: **No Data**

Type of Pump: **Submersible**

Pump Depth (ft.): **200**

Well Tests: **Jetted** **Yield: 65 GPM with 80 ft. drawdown after 4 hours**

Water Quality:

Strata Depth (ft.)	Water Type
290	NORMAL

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: **KELTIC DRILLING LLC**
PO BOX 839
VON ORMY, TX 78073

Driller Name: **Gerhard Rupprecht**

License Number: **58631**

Comments: **No Data**

Report Amended on 10/6/2015 by Request #14308

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	2	TOPSOIL
2	15	YELLOW CLAY
15	35	WHITE CLAY
35	42	YELLOW DRY CLAY
42	65	GRAY CLAY
65	73	YELLOW SAND
73	110	GRAY CLAY
110	113	ROCK
113	155	GRAY CLAY
155	157	ROCK
157	165	GRAY CLAY
165	170	GRAY SAND
170	171	ROCK
171	200	GRAY CLAY
200	202	ROCK
202	215	GRAY CLAY
215	240	GRAY SAND

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	sdr 17	New Plastic (PVC)	SDR 17	0	220
6	Screen	New Steel	0.020	220	240
5	Blank	New Plastic (PVC)		240	300
5	Screen	New Plastic (PVC)	0.020	300	320
5	Blank	New Plastic (PVC)	SDR 17	320	420
5	Screen	New Plastic (PVC)	0.020	420	440
5	Blank	New Plastic (PVC)	SDR 17	440	500

240	248	GRAY CLAY
248	249	ROCK
249	290	GRAY CLAY
290	292	ROCK
292	312	GRAY CLAY
312	325	GRAY SAND & CLAY
325	358	GRAY CLAY
358	360	ROCK
360	382	GRAY CLAY
382	390	GRAY CLAY & SAND
390	412	GRAY CLAY
412	415	GRAY ROCK
415	432	GRAY CLAY
432	435	GRAY ROCK
435	445	GRAY CLAY & SAND
445	462	GRAY CLAY
462	463	ROCK
463	475	GRAY CLAY
475	482	GRAY CLAY & SAND
482	510	GRAY CLAY
510	513	ROCK
513	562	GRAY CLAY
562	564	ROCK
564	680	GRAY CLAY
680	681	ROCK
681	690	GRAY HARD CLAY
690	694	MIDWAY CLAY

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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 #436500

Owner:	Jesus Fernandez	Owner Well #:	1
Address:	431 Ware San Antonio, TX 78221	Grid #:	68-46-4
Well Location:	N. W. Corner of Hwy 181 and Foster Rd. San Antonio, TX	Latitude:	29° 17' 59.3" N
		Longitude:	098° 22' 25.5" W
Well County:	Bexar	Elevation:	No Data

Type of Work:	New Well	Proposed Use:	Domestic
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Drilling Start Date: **10/18/2016** Drilling End Date: **10/20/2016**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9.875	0	327

Drilling Method: **Mud (Hydraulic) 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:	277	317	Gravel	3/8

Annular Seal Data: **No Data**

Seal Method: **Hand Mixed**

Sealed By: **Driller**

Variance Number: **N/A**

Distance to Property Line (ft.): **500**

Distance to Septic Field or other
concentrated contamination (ft.): **1,000**

Distance to Septic Tank (ft.): **1,000**

Method of Verification: **Tape Measure**

Surface Completion:	Surface Sleeve Installed	Surface Completion by Driller
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Water Level:	102 ft. below land surface, and 0 GPM artesian flow on 2016-10-21	Measurement Method: Electric Line
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Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 30 GPM after 1.5 hours, no drawdown specified**

Water Quality:

Strata Depth (ft.)	Water Type
277 - 317	Good Drinking Water

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: **TJ & TB Drilling**
PO Box 1009
Floresville, TX 78114

Driller Name: **Raymundo V. Garcia**

License Number: **4365**

Apprentice Name: **T. Johnson**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	327	0'to 2' red soil, 2' to 24' red and grey clay, 24' to 44' yellow clay, 44' to 64' yellow clay and sandstone, 64' to 84' grey clay, 84' to 164' grey clay,sand and lignite, 164' to 204' grey clay,lignite and trace of sand, 204' to 304' grey clay lignite, sand and rock stks, 304' to 324' soft grey clay,sand and rock, 324' to 327' Rock.

Dia (in.)	Type	Material	Sch./Gage	Top (ft.)	Bottom (ft.)
5	Screen	New Plastic (PVC)	SDR17 0.020	277	317

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 #555669

Owner:	Edward Fernandez	Owner Well #:	3
Address:	11415 Bluewing Rd San Antonio, TX 78223	Grid #:	68-46-4
Well Location:	11080 South Foster Rd San Antonio, TX 78223	Latitude:	29° 18' 21.24" N
Well County:	Bexar	Longitude:	098° 21' 57.6" W
		Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Domestic

Drilling Start Date: **9/23/2020** Drilling End Date: **10/1/2020**

	<i>Diameter (in.)</i>	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>
Borehole:	9	0	320

Drilling Method: **Mud (Hydraulic) 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:	230	320	Gravel	1/4

	<i>Top Depth (ft.)</i>	<i>Bottom Depth (ft.)</i>	<i>Description (number of sacks & material)</i>
Annular Seal Data:	0	10	Cement 6 Bags/Sacks

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **1/2 Mile**

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **N/A**

Distance to Septic Tank (ft.): **N/A**

Method of Verification: **Odom**

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

Water Level: **112 ft. below land surface on 2020-10-01** Measurement Method: **Weighted Line**

Packers: **Burlap at 12 ft.**

Type of Pump: **Submersible** Pump Depth (ft.): **280**

Well Tests: **Jetted** **Yield: 30 GPM with 60 ft. drawdown after 4 hours**

Water Quality:

Strata Depth (ft.)	Water Type
240 - 320	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: **Thomas Moy and Sons Water Well Drilling Inc.**
12323 N. St. Hwy. 123
Falls City, TX 78113

Driller Name: **Joshua J Moy** License Number: **59531**

Apprentice Name: **Luis Hernandez** Apprentice Number: **58984**

Comments: **Bentonite Hole Plug poured on top of gravel**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

Top (ft.)	Bottom (ft.)	Description
0	154	Shale and Rocks
154	180	Sand and Shale
180	215	Shale
215	235	Sand
235	241	Shale
241	315	Sand and Few Streaks of Shale
315	320	Shale

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

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 #57773

Owner:	Aztec Estates Mobile Home Park	Owner Well #:	1
Address:	11704 Hwy 181 South San Antonio, TX 78223	Grid #:	68-45-6
Well Location:	11704 Hwy. 181 South San Antonio, TX 78223	Latitude:	29° 18' 10" N
Well County:	Bexar	Longitude:	098° 22' 48" W
		Elevation:	No Data

Well Type: **Withdrawal of Water**

Drilling Information

Company:	No Data	Date Drilled:	No Data
Driller:	Aztec Estates Mobile Home Park	License Number:	No Data

Borehole:	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
	10.75		207

Plugging Information

Date Plugged: **8/18/2009** Plugger: **George Jendrzey**

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

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
8	0	207

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	100	70 sacks Class "A" Cement
100	207	35 C.F. 3/8 Wash Gravel

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

Company Information: **Alsay Incorporated**
3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **George Jendrzey** License Number: **4120**

Comments: **207 ft. to 100 ft. with 35 Cubic Ft. of 3/8 wash gravel.**
100 ft. to surface with 70 sacks of Class "A" cement.

STATE OF TEXAS PLUGGING REPORT for Tracking #58944

Owner:	Hammy, Edel	Owner Well #:	No Data
Address:	14826 Watson Rd. Von Olmy, TX 78073	Grid #:	68-45-6
Well Location:	14826 Watson Rd. Von Ormy, TX 78073	Latitude:	29° 18' 10" N
		Longitude:	098° 22' 48" W
Well County:	Bexar	Elevation:	No Data

Well Type: **Withdrawal of Water**

Drilling Information

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

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	4		156

Plugging Information

Date Plugged: **8/31/2009** Plugger: **Judson Price**

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

Casing Left in Well:

Dia (in.)	Top (ft.)	Bottom (ft.)
4	151	156

Plug(s) Placed in Well:

Top (ft.)	Bottom (ft.)	Description (number of sacks & material)
0	100	Cement
100	156	Gravel

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

Company Information: **JR Water Well Service**
12148 Madrona
San Antonio, TX 78245

Driller Name: **Judson Price** License Number: **54897**

Comments: **Alamo Cement 9 1/2 bags.**
^EO

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13087 Austin, Texas 78711																																													
1) OWNER <u>Crane Enterprises</u> (Name)		ADDRESS <u>11717 Hwy 181 So.</u> <u>San Antonio</u> <u>7822</u> (Street or RFD) (City) (State) (Zip)																																															
2) LOCATION OF WELL: County <u>Bexar</u> <u>3</u> miles in <u>S</u> direction from <u>L00p 410 181 So</u> (NE, SW, etc.) (Town)																																																	
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																																	
☐ LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____																																																	
☐ SEE ATTACHED MAP <u>68-52-4</u>																																																	
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering		5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____																																													
6) WELL LOG: Date Drilling: _____ 19____ Started <u>4/1</u> 19 <u>93</u> Completed _____ 19____		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">Dia. (in.)</th> <th style="width:33%;">From (ft.)</th> <th style="width:33%;">To (ft.)</th> </tr> <tr> <td><u>6 3/4</u></td> <td><u>Surface</u></td> <td><u>300</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>6 3/4</u>	<u>Surface</u>	<u>300</u>	7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____ If Gravel Packed give Interval ... from _____ ft. to _____ ft.																																							
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13) TYPE PUMP: ☐ Turbine ☒ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>220</u> ft.		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>16</u> ft. to <u>0</u> ft. No. of Sacks Used <u>20</u> Method used <u>Hand mixed</u> Cemented by <u>Hammett Water System</u>																																															
14) WELL TESTS: Type Test: ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated Yield: <u>40</u> gpm with <u>0</u> ft. drawdown after <u>5</u> hrs.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 287.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)] ☐ Pitless Adapter Used [Rule 287.44(3)(B)] ☐ Approved Alternative Procedure Used [Rule 287.71]																																															
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		11) WATER LEVEL: Static level <u>136</u> ft. below land surface Date <u>4/1/93</u> Artesian flow _____ gpm. Date _____																																															
12) PACKERS: Type _____ Depth _____																																																	
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																																																	
COMPANY NAME <u>Hammett Water System</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>1171</u>																																															
ADDRESS <u>12359 S. Hwy 181 #4</u> <u>San Antonio</u> <u>Texas</u> <u>78223</u> (Street or RFD) (City) (State) (Zip)																																																	
(Signed) <u>Walter Hammett</u> (Licensed Well Driller)		(Signed) <u>8/26/93</u> (Registered Driller Trainee)																																															
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																	
For TWC use only: Well No. _____ Located on map <u>68-46-9</u>																																																	

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

Send original copy by certified mail to: TNRCC, P.O. Box 7, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-239-0530																					
1) OWNER <u>Bill Blocker</u> (Name) ADDRESS <u>11489 S Foster Rd</u> (Street or RFD) <u>San Antonio</u> (City) <u>Tx</u> (State) <u>78223</u> (Zip)																									
2) ADDRESS OF WELL: County <u>Bexar</u> <u>11489 S Foster Rd</u> (Street, RFD or other) <u>San Antonio</u> (City) <u>TX</u> (State) <u>78223</u> (Zip)																									
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No		5)																					
6) WELL LOG: Date Drilling: _____ Started <u>12/18/95</u> Completed <u>1/15/96</u>		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Dia. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td>6 3/4</td> <td>Surface</td> <td>297</td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	6 3/4	Surface	297	7) DRILLING METHOD (Check): ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other _____															
Dia. (in.)	From (ft.)	To (ft.)																							
6 3/4	Surface	297																							
From (ft.) To (ft.) Description and color of formation material <u>0</u> <u>2</u> <u>Surface soil</u> <u>2</u> <u>18</u> <u>Red clay</u> <u>18</u> <u>28</u> <u>Yellow sand</u> <u>28</u> <u>30</u> <u>Rock</u> <u>30</u> <u>170</u> <u>Broken blue sand & shale</u> <u>170</u> <u>172</u> <u>Rock</u> <u>172</u> <u>210</u> <u>Hard blue shale</u> <u>210</u> <u>295</u> <u>Broken blue sand and shale</u> <u>295</u> <u>297</u> <u>Rock</u>		8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>100</u> ft. to <u>297</u> ft.																							
		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td>4</td> <td>N</td> <td>PVC</td> <td>18" above</td> <td>297</td> <td>40</td> </tr> <tr> <td>4</td> <td>N</td> <td>Perf.</td> <td>197</td> <td>297</td> <td>40</td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen	From	To	4	N	PVC	18" above	297	40	4	N	Perf.	197	297	40
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen																				
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		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>14</u> ft. No. of sacks used <u>14</u> _____ ft. to _____ ft. No. of sacks used _____ Method used <u>Hand Mixed</u> Cemented by <u>Hammett Water System</u> Distance to septic system field lines or other concentrated contamination _____ ft. Method of verification of above distance _____																							
13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>220</u> ft.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 338.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)] ☐ Pitless Adapter Used [Rule 338.44(3)(b)] ☒ Approved Alternative Procedure Used [Rule 338.71]																							
14) WELL TESTS: Type test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated Yield: <u>20</u> gpm with <u>0</u> ft. drawdown after <u>3</u> hrs.		11) WATER LEVEL: Static level <u>120</u> ft. below land surface Date <u>1/15/96</u> Artesian flow _____ gpm. Date _____																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		12) PACKERS: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td><u>Canvas</u></td> <td><u>14 Ft</u></td> </tr> </table>				Type	Depth	<u>Canvas</u>	<u>14 Ft</u>																
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I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Hammett Water System</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>1171</u> CNPL																							
ADDRESS <u>12359 So. Hwy 181 #4</u> (Street or RFD) <u>San Antonio</u> (City) <u>Tx</u> (State) <u>78223</u> (Zip)		TEXAS NATURAL RESOURCE CONSERVATION COMMISSION																							
(Signed) <u>Walter Hammett</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																							

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94)

TNRCC COPY

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-46-4T
Located on map YES
Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Emil Delgado (Name) Address San Antonio, Texas (City) (State) (Zip)

2) LOCATION OF WELL: County Brewer 2 miles in North (N.E., S.W., etc.) direction from Eastwood 181 (Town)

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 5/23/83

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	278

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 120 ft. to 278 ft.

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
						From	To	
0-3	Surface							
3-24	Clay							
24-26	Rock							
26-70	Clay							
70-75	Sandy							
75-115	Clay							
115-116	Rock							
116-152	Shale							
152-158	Sand							
158-165	Shale							
165-170	Sandy							
170-175	Shale							
175-176	Rock							
177-185	Shale	256-278						
185-190	Sandy							
190-200	Shale							
200-203	Sandy							
203-210	Shale							
210-211	Rock							
211-228	Shale							
228-229	Rock							
229-232	Shale							
232-233	Rock							
233-245	Shale							
245-250	Sand							
250-252	Rock							
252-255	Sand							
255-256	Rock							

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	N	Plastic	0	278	250
5	N	Screen	238	278	250

CEMENTING DATA
Cemented from 0 ft. to 120 ft.
Method used Grouting
Cemented by Emil Delgado (Company or Individual)

9) WATER LEVEL:
Static level 75 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth _____

11) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 7.5 gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata? _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME EDWARD R. JARZOMBEN (Type or Print) Water Well Drillers Registration No. 686

ADDRESS 921 4TH ST (Street or RFD) FLORESVILLE (City) Tx (State) 78114 (Zip)

(Signed) Edward Jarzomben (Water Well Driller) J-B DRILLING (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

Send original copy by
 certified mail to the
 Texas Department of Water Resources
 P. O. Box 13087
 Austin, Texas 78711

State of Texas
 WATER WELL REPORT

For TDWR use only
 Well No. 68-4634
 Located on map
 Received: _____

1) OWNER James W. Hale Address 11593 So. Foster Rd. San Antonio, Texas
 (Name) (Street or RFD) (City) (State) 78223
 2) LOCATION OF WELL: County Bexar 4 miles in SW direction from HillTop
 (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right
 with distance and direction from two intersecting sec-
 tion or survey lines, or he must locate and identify the
 well on an official Quarter- or Half-Scale Texas County
 General Highway Map and attach the map to this form.

☐ Legal description:

Section No. _____ Block No. _____ Township _____

Abstract No. _____ Survey Name _____

Distance and direction from two intersecting section or survey lines
Hwy 181 and Foster Rd.

☐ See attached map.

#2 on 68-45-6

3) TYPE OF WORK (Check):

☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):

☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):

☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:

Date drilled 3/10/90

DIAMETER OF HOLE		
Dis. (in.)	From (ft.)	To (ft.)
6 1/2	Surface	300

7) BOREHOLE COMPLETION:

☐ Open Hole ☐ Straight Wall ☐ Underreamed

☒ Gravel Packed ☐ Other _____
 If Gravel Packed give interval ... from 220 ft. to 300 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

From (ft.)	To (ft.)	Description and color of formation material	Dis. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.) From	To	Gage Casing Screen
0	1	Surface soil						
1	40	Red and yellow shale						
40	116	Broken blue shale and sand						
116	142	Black Sand						
142	145	Rock	4	N	PVC	18' Above	300	40
145	204	Broken sand and shale						
204	230	Grey Sand						
230	265	Sand and rock						
265	269	Shale						
269	298	Grey Sand						
298	300	Blue shale						

CEMENTING DATA

Cemented from 0 ft. to 18 ft.

Method used Hand Mixed

Cemented by Hammett Water System

(Company or Individual)

9) WATER LEVEL:

Static level 102 ft. below land surface Date 3/10/90
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth _____

11) TYPE PUMP:

None

☐ Turbin ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____

Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:

☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
 Yield: 100 gpm with 0 ft. drawdown after 4 hrs.

RECEIVED
 OCT 3 1990

TEXAS WATER COMMISSION

(Use reverse side if necessary)

13) WATER QUALITY:

Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No

If yes, submit "REPORT OF UNDESIRABLE WATER"

Type of water? _____ Depth of strata _____

Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Victor Hammett Water Well Drillers Registration No. 1171
 (Type or Print)

ADDRESS 12359 S Hwy. 181 #4 San Antonio Texas 78223
 (Street or RFD) (City) (State) (Zip)

(Signed) Victor Hammett Hammett Water System
 (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

TDWR-0392

Please use black ink.
Send original copy by
certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Jackie Armond (Name) Address 270 Laguna Rd, San Antonio, TX 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Brewer 8 miles in South E direction from San Antonio (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check): ☐ Driven
☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 9-3-84 Completed 9-6-84
DIA. OF HOLE (ft.)
From (ft.) To (ft.)
Surface 300

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Undersized
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen type, if commercial	Setting (ft.)		Gage Casing Screen
						From	To	
0	4	surface						
4	12	caliche						
12	28	yellow clay						
28	53	sandy						
53	70	shaly						
70	123	sandy						
123	177	shaly p/sand sh						
177	201	sandy						
201	215	shaly						
215	229	sandy						
229	257	shaly						
257	300	sand good						

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 230 ft. to 250 ft. No. of Sacks Used 8
ft. to _____ ft. No. of Sacks Used _____
Method used Purged
Cemented by Acc Pump Co.

10) SURFACE COMPLETION
☒ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 92 ft. below land surface Date 9-6-84
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth 250
Hellbusta Basket

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 50 gpm with 30 ft. drawdown after 45 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Acc Pump Co. (Type or Print) Water Well Driller's License No. 1766
ADDRESS 309 W. HATCHINS (Street or RFD) San Antonio (City) Texas (State) 78221 (Zip)
(Signed) Fernando E. Helin (Licensed Water Well Driller) (Signed) _____ (Registered Driller Trainee)
Please attach electric log, chemical analysis, and other pertinent information, if available. For TWC use only: Well No. 68-46-4 Located on map _____

Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-239-0530																					
1) OWNER <u>Lesley Campbell</u> (Name) ADDRESS <u>6020 W. Laguna San Antonio Tx 78223</u> (Street or RFD) (City) (State) (Zip)		2) ADDRESS OF WELL: County <u>Bexar</u> <u>6020 W. Laguna S.A. Tx 78223</u> (Street, RFD or other) (City) (State) (Zip) GRID # <u>68 45-6</u>																							
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☒ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No		5)																					
6) WELL LOG: Date Drilling: _____ Started <u>1-9</u> 19 <u>97</u> Completed <u>1-17</u> 19 <u>97</u>		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Dia. (in.)</th> <th style="width: 33%;">From (ft.)</th> <th style="width: 33%;">To (ft.)</th> </tr> <tr> <td><u>6-7/8</u></td> <td>Surface</td> <td><u>174</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>6-7/8</u>	Surface	<u>174</u>	7) DRILLING METHOD (Check): ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other _____															
Dia. (in.)	From (ft.)	To (ft.)																							
<u>6-7/8</u>	Surface	<u>174</u>																							
From (ft.) To (ft.) Description and color of formation material <u>0 - 5</u> <u>Black Surface Soil</u> <u>5 - 17</u> <u>Clay</u> <u>17 - 92</u> <u>Yellow Sand + Shale</u> <u>92 - 174</u> <u>Broken Blue Shale + Sand</u>		8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>173</u> ft. to <u>93</u> ft.																							
CASING, BLANK PIPE, AND WELL SCREEN DATA:																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>PVC</u></td> <td><u>18" above</u></td> <td><u>174</u></td> <td><u>40</u></td> </tr> <tr> <td></td> <td></td> <td><u>Perf. 80'</u></td> <td></td> <td></td> <td></td> </tr> </table>		Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen	From	To	<u>4</u>	<u>N</u>	<u>PVC</u>	<u>18" above</u>	<u>174</u>	<u>40</u>			<u>Perf. 80'</u>				9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>10</u> ft. No. of sacks used <u>8</u> _____ ft. to _____ ft. No. of sacks used _____ Method used <u>Hand Mixed</u> Cemented by <u>Hammett Water System</u> Distance to septic system field lines or other concentrated contamination <u>150</u> ft. Method of verification of above distance <u>Measured Tape</u>			
Dia. (in.)	New or Used				Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen																	
		From	To																						
<u>4</u>	<u>N</u>	<u>PVC</u>	<u>18" above</u>	<u>174</u>	<u>40</u>																				
		<u>Perf. 80'</u>																							
13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>140</u> ft.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 338.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)] ☐ Pitless Adapter Used [Rule 338.44(3)(b)] ☐ Approved Alternative Procedure Used [Rule 338.71]																							
14) WELL TESTS: Type test: ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated Yield: _____ gpm with _____ ft. drawdown after _____ hrs.		11) WATER LEVEL: Static level <u>88</u> ft. below land surface Date <u>1-17-97</u> Artesian flow _____ gpm. Date _____																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		12) PACKERS: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>FILE ID</th> <th>Type</th> <th>Depth</th> </tr> <tr> <td><u>Cement</u></td> <td></td> <td><u>SEP 06 1997</u></td> </tr> </table>				FILE ID	Type	Depth	<u>Cement</u>		<u>SEP 06 1997</u>														
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I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Hammett Water System</u> (Type or print) WELL DRILLER'S LICENSE NO. <u>WPL 1171</u>		ADDRESS <u>12359 So. Hwy 181 # 4 San Antonio TX 78223</u> (Street or RFD) (City) (State) (Zip)																							
(Signed) <u>Dustin Hammett</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																							

Please attach electric log, chemical analysis, and other pertinent information, if available.

Send original copy by certified return receipt request to: TDLR, P.O. Box 12157, Austin, TX 78711

ATTENTION OWNER: Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 512-463-7880																																																									
1) OWNER <u>Tim Pollock</u>		ADDRESS <u>11392 Box #2 S Foster Rd. San Antonio TX 78228</u>																																																											
(Name)		(Street or RFD)		(City)	(State) (Zip)																																																								
2) ADDRESS OF WELL'S LOCATION: County <u>Bexar</u> <u>Same As Above</u>		(Street, RFD or other)		(City)	(State) (Zip)																																																								
				Long. <u>68-46-4</u>	Lat. <u>4</u>																																																								
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☒ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No		5)																																																									
6) WELL LOG: Date Drilling: Started <u>6/8</u> 19 <u>99</u> Completed <u>6/9</u> 19 <u>99</u>		DIAMETER OF HOLE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Dia. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td><u>6 3/4</u></td> <td>Surface</td> <td><u>333</u></td> </tr> <tr> <td><u>7 7/8</u></td> <td>Reamed</td> <td><u>333</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>6 3/4</u>	Surface	<u>333</u>	<u>7 7/8</u>	Reamed	<u>333</u>	7) DRILLING METHOD (Check): ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other _____																																																
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0 - sand		CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>331</u></td> <td><u>Sch40</u></td> </tr> <tr> <td><u>"</u></td> <td><u>"</u></td> <td><u>Screen Mfg. 20°</u></td> <td><u>310</u></td> <td><u>330</u></td> <td><u>" "</u></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>331</u>	<u>Sch40</u>	<u>"</u>	<u>"</u>	<u>Screen Mfg. 20°</u>	<u>310</u>	<u>330</u>	<u>" "</u>																																				
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2 - sandy red clay																																																													
12 - white clay																																																													
50 - blue clay																																																													
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130 - clay & sand streaks																																																													
168 - rock																																																													
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(Use reverse side of Well Owner's copy, if necessary)		9) CEMENTING DATA Cemented from <u>0</u> ft. to <u>15</u> ft. No. of sacks used <u>1</u> _____ ft. to _____ ft. No. of sacks used _____ Method used: _____ Cemented by: <u>Larry Deharde</u> Distance to septic system field lines or other concentrated contamination <u>120</u> ft. Method of verification of above distance: <u>Wheel</u>																																																											
13) ☒ Well plugged within 48 hours		10) SURFACE COMPLETION ☐ Specified Surface Slab Installed ☒ Specified Steel Sleeve Installed ☐ Pitless Adapter Used ☐ Approved Alternative Procedure Used																																																											
Casing left in well: Cement/bentonite placed in well: Sacks used:																																																													
From (ft.) To (ft.) From (ft.) To (ft.) Sacks used:																																																													
14) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>180</u> ft.		11) WATER LEVEL: Static level <u>111</u> ft. below land surface Date <u>6/9/99</u> Artesian flow _____ gpm. Date _____																																																											
15) WELL TESTS: Type test: ☐ Pump ☐ Bailer ☒ Jetted ☒ Estimated Yield: <u>50</u> gpm with <u>250</u> ft. drawdown after _____ hrs.		12) PACKERS: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td><u>4 - sacks</u></td> <td><u>Hole Plug</u></td> </tr> <tr> <td> </td> <td><u>280'-290'</u></td> </tr> </table>				Type	Depth	<u>4 - sacks</u>	<u>Hole Plug</u>		<u>280'-290'</u>																																																		
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16) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		I certify that I drilled this well (or the well was drilled under my direct supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 16 will result in the log(s) being returned for completion and resubmittal. COMPANY NAME <u>Deharde Water Well Service</u> (Type or print) ADDRESS <u>1075 Schuenemann Rd.</u> (Street or RFD) (Signed) <u>Larry Deharde</u> (Licensed Well Driller)																																																											
		FILE ID _____ SEQ. # _____ EMP # _____ WELL DRILLER'S LICENSE NO. <u>2328</u> WPK <u>JUL 14 1999</u> (City) _____ (State) <u>TX</u> (Zip) <u>78155</u> (Signed) _____ (Registered Driller Trainee)																																																											

TDLR FORM 001WWD (4/98)

White - TDLR

Yellow - DRILLER

Pink - WELL OWNER

State of Texas
WATER WELL REPORT

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

Texas Water Well Drillers Board
 P. O. Box 13087
 Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER R.C. SCHUBERT Address 4119 WILLARD SAN ANTONIO TX 78228
 (Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County BREXAR 2 miles in EAST direction from 1814 FOSTER ROAD
 (N.E., S.W., etc.) (Town)

☐ Legal description: Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG: DIAMETER OF HOLE
 Date drilled 8-24-85 7 1/8 Dis. (in.) From (ft.) To (ft.)
 Surface 130

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
 If Gravel Packed give interval ... from 40 ft. to 130 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
						From	To	
0 - 50		BROWN SAND & CLAY MIX						
50 - 120		SAND & SHALE MIX						
120 - 130		SAND						

CEMENTING DATA
 Cemented from 0 ft. to 10 ft.
 Method used SELF
 Cemented by _____ (Company or Individual)

9) WATER LEVEL: Static level 30 ft. below land surface Date 8-28-85
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth N/A

11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
 Depth to pump bowls, cylinder, jet, etc., 100 ft.

12) WELL TESTS: ☐ Type Test ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated
 Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
 If yes, submit "REPORT OF UNDESIRABLE WATER"
 Type of water? _____ Depth of strata? _____
 Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that all of the statements herein are true to the best of my knowledge and belief.

COMPANY NAME  **LIVE OAK WATER WELL DRILLING**
 RT. 2, BOX 223
 FLORESVILLE TEXAS 78114
 (512) 393-3786

Water Well Driller's License No. 2380

ADDRESS _____ (Street or RFD) (City) (State) (Zip)

(Signed) Mark Jones (Signed) _____
 (Licensed Water Well Driller) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
 Well No. 68-46-4
 Located on map _____

TDWR-0392 (Rev. 5-27-82)

DEPARTMENT OF WATER RESOURCES COPY

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13087 Austin, Texas 78711																					
1) OWNER: <u>Ester Everhart</u> (Name)		ADDRESS: <u>10951 181 S. S.A. TX. 78226</u> (Street or RFD) (City) (State) (Zip)																							
2) LOCATION OF WELL: County: <u>Dexar</u> <u>8 1/2</u> miles in <u>S.E.</u> direction from <u>San Antonio</u> (NE, SW, etc.) (Town)																									
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																									
☐ LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____																									
☒ SEE ATTACHED MAP																									
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering		5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____																					
6) WELL LOG: Date Drilling: <u>4-3-93</u> Started: <u>4-5-93</u> Completed: <u>4-5-93</u>		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">Dia. (in.)</th> <th style="width:33%;">From (ft.)</th> <th style="width:33%;">To (ft.)</th> </tr> <tr> <td><u>8 1/2</u></td> <td>Surface</td> <td><u>145</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>8 1/2</u>	Surface	<u>145</u>	7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>125</u> ft. to <u>145</u> ft.															
Dia. (in.)	From (ft.)	To (ft.)																							
<u>8 1/2</u>	Surface	<u>145</u>																							
From (ft.) To (ft.) Description and color of formation material		8) CASING, BLANK PIPE, AND WELL SCREEN DATA:																							
<u>0-2 Surface</u> <u>2-38 Sandy Clay</u> <u>38-112 Shale</u> <u>112-145 Sand</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>8 1/2</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>145</u></td> <td><u>Slotted</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>125</u></td> <td><u>145</u></td> <td></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial	Setting (ft.)		Gage Casting Screen	From	To	<u>8 1/2</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>145</u>	<u>Slotted</u>				<u>125</u>	<u>145</u>	
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial	Setting (ft.)		Gage Casting Screen																				
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			<u>125</u>	<u>145</u>																					
(Use reverse side if necessary) 13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bows, cylinder, jet, etc., <u>120</u> ft.		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>0</u> ft. to <u>10</u> ft. No. of Sacks Used <u>24</u> ft. to _____ ft. No. of Sacks Used _____ Method used <u>Surface Pour</u> Cemented by <u>SELF</u>																							
14) WELL TESTS: Type Test: ☒ Pump ☐ Baller ☐ Jetted ☐ Estimated Yield: <u>12</u> gpm with <u>0</u> ft. drawdown after <u>24</u> hrs.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 287.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)] ☐ Pitless Adapter Used [Rule 287.44(3)(B)] ☐ Approved Alternative Procedure Used [Rule 287.71]																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		11) WATER LEVEL: Static level <u>109</u> ft. below land surface Date <u>4-5-93</u> Artesian flow _____ gpm. Date _____																							
		12) PACKERS: <u>None</u> Type _____ Depth _____																							
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 and 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME: <u>NYS Drilling</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>3067 W.</u>																							
ADDRESS: <u>Rt. 7 Box 417 C.</u> (Street or RFD)		<u>S.A.</u> (City)		<u>TX. 78221</u> (State) (Zip)																					
(Signed) <u>Dennis Bellway</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																							
Please attach electric log, chemical analysis, and other pertinent information, if available.																									
For TWC use only: Well No. _____ Located on map <u>68-85-6</u>																									

TWC-0199 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

Send original copy by certified mail to the Texas Water Development Board
P. O. Box 13087
Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 68-45-65
Located on map 425
Received: 7/7/77
dlf

1) OWNER:
Person having well drilled Donald Cover Address San Antonio - Texas
(Name) (Street or RFD) (City) (State)
Landowner Same Address _____
(Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Bexar, 8 miles in South direction from San Antonio
(N.E., S.W., etc.) (Town)
Locate by sketch map showing landmarks, roads, creeks, or Give legal location with distances and directions from
hiway number, etc. adjacent sections or survey lines.
Oil Comp. Encl. 11-24
11-37
North
(Use reverse side if necessary)

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other

5) TYPE OF WELL (Check):
☒ Rotary ☐ Driven ☐ Dug
☐ Cable ☐ Jetted ☐ Bored

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 204 ft. Depth of completed well 204 ft. Date drilled Sept 6, 1977
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0 - 15	Surface	
15 - 22	Shale	
22 - 65	Sand w/ shale streaks	
65 - 80	Tight sand	
80 - 96	Shale w/ sand streaks	
96 - 99	good sand	
99 - 110	Shale w/ sand streaks	
110 - 135	firm sand	
135 - 169	Shale w/ sand streaks	
169 - 175	Shale	
175 - 204	good Sand	

9) Casing:
Type: Old ☒ Steel ☒ Plastic ☐ Other
Cemented from 0 ft. to 90 ft.
Diameter (inches) 5" Setting From (ft.) 0 To (ft.) 204
Basket set at 90 ft.
60' perforation 244-204

10) SCREEN:
Type: ☐ Perforated ☐ Slotted
Diameter (inches) 5" Setting From (ft.) 0 To (ft.) 204
Slot Size 1/8"

7) COMPLETION (Check):
☒ Straight well ☐ Gravel packed ☐ Other
☐ Under reamed ☐ Open Hole

8) WATER LEVEL:
Static level 112 ft. below land surface Date 9-6-77
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes ☒ No ☐ If yes, by whom? _____
Yield: 25 gpm with 30 ft. drawdown after 3 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes ☒ No ☐
Did any strata contain undesirable water? Yes ☒ No ☐
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
(Type or Print)
ADDRESS 309 W. Hutchins San Antonio Texas
(Street or RFD) (City) (State)
(Signed) Fernando E. Galindo Acc Pump. Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-46-14
Located on map _____
Received: _____

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Texas Ice House Address 12291 Highway 1815 SA Tam 78221
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Brewer 12 miles in SE direction from San Antonio
(N.E., S.W., etc.) (Town)

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 3-28-84

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
	Surface	Surface
	7 7/8	Clay
	300	Sand
		Shale
		Rock
		Sand
		Shale
		Sand
		Shale
		Rock
		Sand
		Shale
		Sand
		Sandy Shale
		Shale
		gravel Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen type, commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	New	Plastic	0	300	
		Slotted	240	300	

CEMENTING DATA
Cemented from 240 ft. to 260 ft.
Method used Purged
Cemented by Case Pump Co.
(Company or individual)

9) WATER LEVEL:
Static level 96 ft. below land surface Date 3-24-84
Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth 260'

11) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS:
☐ Type Test ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 70 gpm with 20 ft. drawdown after 5 hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers' Registration No. 1766
(Type or Print)

ADDRESS 309 W. HUTCHINS SAN ANTONIO Tam 78221
(Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Acc Pump Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

2

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TDWR use only Well No. <u>68-46-4</u> Located on map _____ Received: _____																																																										
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side																																																														
1) OWNER <u>John Webb</u> (Name)		Address <u>10795 So Foster Rd. San Antonio, Tx. 78223</u> (Street or RFD) (City) (State) (Zip)																																																												
2) LOCATION OF WELL: County <u>Bexar</u> <u>1/2</u> miles in <u>Sw</u> direction from <u>Hilltop Txx</u> (Town)																																																														
Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																																														
☐ Legal description: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines <u>181 So and Foster Rd.</u> #3 ☐ See attached map. <u>0168-45-6</u>																																																														
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____		5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____																																																										
6) WELL LOG: Date drilled <u>8/7/89</u>		DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>6 1/2</u> Surface <u>300</u>		7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>200</u> ft. to <u>300</u> ft.																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>2</td><td>Surface soil</td></tr> <tr><td>2 2</td><td>62</td><td>Red Shale</td></tr> <tr><td>62</td><td>64</td><td>Rock</td></tr> <tr><td>64</td><td>100</td><td>Broken brown shale & Sand</td></tr> <tr><td>100</td><td>146</td><td>Grey Sand</td></tr> <tr><td>146</td><td>174</td><td>Grey shale w/ sand streaks</td></tr> <tr><td>174</td><td>185</td><td>Blue sand</td></tr> <tr><td>185</td><td>187</td><td>Rock</td></tr> <tr><td>187</td><td>189</td><td>Blue shale</td></tr> <tr><td>189</td><td>191</td><td>Rock</td></tr> <tr><td>191</td><td>218</td><td>Blue shale</td></tr> <tr><td>218</td><td>264</td><td>Grey sand and shale</td></tr> <tr><td>264</td><td>298</td><td>Grey sand</td></tr> <tr><td>298</td><td>300</td><td>Blue shale</td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	0	2	Surface soil	2 2	62	Red Shale	62	64	Rock	64	100	Broken brown shale & Sand	100	146	Grey Sand	146	174	Grey shale w/ sand streaks	174	185	Blue sand	185	187	Rock	187	189	Blue shale	189	191	Rock	191	218	Blue shale	218	264	Grey sand and shale	264	298	Grey sand	298	300	Blue shale	8) CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>N</td> <td>PVC</td> <td>18 Above</td> <td>300</td> <td>40</td> </tr> </tbody> </table>		Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	4	N	PVC	18 Above	300	40
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4	N	PVC	18 Above	300	40																																																									
RECEIVED OCT 3 1990 TEXAS WATER COMMISSION		CEMENTING DATA Cemented from <u>0</u> ft. to <u>20</u> ft. Method used <u>Hand mixed</u> Cemented by <u>Hammett Water System</u> (Company or Individual)																																																												
		9) WATER LEVEL: Static level <u>131</u> ft. below land surface Date <u>8/7/89</u> Artesian flow _____ gpm. Date _____																																																												
		10) PACKERS: Type _____ Depth _____																																																												
13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>252</u> ft.																																																												
		12) WELL TESTS: ☐ Type Test ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated Yield: <u>90</u> gpm with <u>0</u> ft. drawdown after <u>5</u> hrs.																																																												
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																																																														
NAME <u>Victor E. Hammett</u> Water Well Drillers Registration No. <u>1171</u> (Type or Print)																																																														
ADDRESS <u>12359 S. Hwy. 181 #4</u> <u>San Antonio</u> <u>Texas</u> <u>78223</u> (Street or RFD) (City) (State) (Zip)																																																														
(Signed) <u>Victor Hammett</u> <u>Hammett Water System</u> (Water Well Driller) (Company Name)																																																														
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																														

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

ALP

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
 Well No. 68-45-6T
 Located on map 465
 Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Joe Kunze Address Rt 12 Box 344 San Antonio Texas 78221
 (Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE direction from San Antonio
Well # 2 (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG: Date drilled 6-29-82

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
<u>6 3/4</u>	Surface <u>240</u>	<u>Surface</u>
<u>6</u>	<u>30</u>	<u>Caliche white</u>
<u>30</u>	<u>70</u>	<u>sandy shale</u>
<u>70</u>	<u>81</u>	<u>shale</u>
<u>81</u>	<u>82</u>	<u>Rock</u>
<u>82</u>	<u>87</u>	<u>sand</u>
<u>87</u>	<u>89</u>	<u>Rock</u>
<u>89</u>	<u>105</u>	<u>sandy shale</u>
<u>105</u>	<u>130</u>	<u>shale w/ shale streaks</u>
<u>130</u>	<u>137</u>	<u>shale</u>
<u>137</u>	<u>144</u>	<u>sand</u>
<u>144</u>	<u>151</u>	<u>shale</u>
<u>151</u>	<u>155</u>	<u>sand</u>
<u>155</u>	<u>182</u>	<u>shale</u>
<u>182</u>	<u>198</u>	<u>sand</u>
<u>198</u>	<u>201</u>	<u>Rock</u>
<u>201</u>	<u>240</u>	<u>sand</u>

7) BOREHOLE COMPLETION: ☐ Open Hole ☒ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
 If Gravel Packed give interval ... from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
<u>5</u>	<u>New</u>	<u>PVC sch 40</u>	<u>0</u>	<u>240</u>	
		<u>Slotted 40'</u>			

CEMENTING DATA
 Cemented from 0 ft. to 170 ft.
 Method used Pumped
 Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL: Static level 92 ft. below land surface Date 6-29-82
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 170

11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
 Depth to pump bowls, cylinder, jet, etc., 200' ft.

12) WELL TESTS: ☐ Type Test ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
 Yield: 90 gpm with 30 ft. drawdown after 3 hrs.

13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
 If yes, submit "REPORT OF UNDESIRABLE WATER"
 Type of water? _____ Depth of strata _____
 Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
 (Type or Print)

ADDRESS 309 W. Hutchins San Antonio Texas 78221
 (Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Ace Pump Co.
 (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

DWP

Send orig. copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 68-45-6C
Located on map YES
Received: C.F.S.

1) OWNER Luther Townsend Address RT 1 Box 357CA San Antonio Texas 78223
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL:
County Bexar 6 miles in SE direction from San Antonio
(N.E., S.W., etc.) (Town)

☐ Legal description:
Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 8-20-82

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
<u>7 7/8</u>	<u>Surface</u>	<u>220'</u>
<u>0</u>	<u>6</u>	<u>Surface</u>
<u>6</u>	<u>20</u>	<u>Sand shale</u>
<u>20</u>	<u>50</u>	<u>Shale</u>
<u>50</u>	<u>70</u>	<u>Sandy Shale</u>
<u>70</u>	<u>111</u>	<u>Shale</u>
<u>111</u>	<u>113</u>	<u>Rock</u>
<u>113</u>	<u>141</u>	<u>Sandy Shale</u>
<u>141</u>	<u>145</u>	<u>Sand</u>
<u>145</u>	<u>147</u>	<u>Rock</u>
<u>147</u>	<u>150</u>	<u>Sand</u>
<u>150</u>	<u>160</u>	<u>Rock</u>
<u>160</u>	<u>190</u>	<u>Sand</u>
<u>190</u>	<u>192</u>	<u>Rock</u>
<u>192</u>	<u>220</u>	<u>Sand</u>

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
<u>5</u>	<u>New</u>	<u>PVC Sch 40</u>	<u>0</u>	<u>220'</u>	
		<u>40' Perforation</u>	<u>180</u>	<u>220</u>	

CEMENTING DATA
Cemented from 70 ft. to 100 ft.
Method used Pumped
Cemented by Ace Pump Co
(Company or Individual)

9) WATER LEVEL:
Static level 90 ft. below land surface Date 8-20-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 100

11) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 80 gpm with 30 ft. drawdown after 3 hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
(Type or Print)

ADDRESS 309 W. Hutchins San Antonio Texas 78221
(Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Ace Pump Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

SLP

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-45-67
Located on map 105
Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Soc. Kunze Address RT 12, Box 344 SAN ANTONIO, TEXAS 78221
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE direction from SAN ANTONIO
(Town)

Well # 3

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 8-20-82

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
	Surface	220
0	6	Surface
6	15	Caliche white
15	35	Caliche yellow
35	49	Caliche red
49	65	Shale
65	77	Shale w/ sand str.
77	105	Sand
105	108	Rock
108	119	Shale w/ sand str.
119	123	Rock
123	146	Shale
146	173	Sand
173	179	Shale
179	206	Sand
206	220	Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	Yes	PVC Sch 40	0	220	
		Slotted 40	180	220	

CEMENTING DATA
Cemented from 0 ft. to 180 ft.
Method used Pumped
Cemented by Ace Pump Co.
(Company or Individual)

9) WATER LEVEL:
Static level 91 ft. below land surface Date 8-2-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 130

11) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 100 gpm with 30 ft. drawdown after 3 hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
(Type or Print)

ADDRESS 309 W. Hutchins SAN ANTONIO TEXAS 78221
(Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Ace Pump Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

State Well Number	6846401
County	Bexar
River Basin	San Antonio
Groundwater Management Area	13
Regional Water Planning Area	L - South Central Texas
Groundwater Conservation District	Edwards Aquifer Authority
Latitude (decimal degrees)	29.298334
Latitude (degrees minutes seconds)	29° 17' 54" N
Longitude (decimal degrees)	-98.365278
Longitude (degrees minutes seconds)	098° 21' 55" W
Coordinate Source	Global Positioning System - GPS
Aquifer Code	124CRRZ - Carrizo Sand
Aquifer	Carrizo-Wilcox
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	577
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	400
Well Depth Source	Another Government Agency
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	
Water Level Observation	None
Water Quality Available	No
Pump	Submersible
Pump Depth (feet below land surface)	
Power Type	Electric Motor
Annular Seal Method	
Surface Completion	
Owner	Wester Trails WSC
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	G0150222A
Groundwater Conservation District Well Number	
Owner Well Number	1
Other Well Number	
Previous State Well Number	
Reporting Agency	Texas Commission on Environmental Quality
Created Date	9/3/2009
Last Update Date	7/20/2016

Remarks	
---------	--

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<https://www.twdb.texas.gov/groundwater/data/gwdbbrpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.



Texas Water Development Board
Well Schedule



State Well Number: **68-46-401** Previous Well Number: County: **Bexar** **29**

Latitude (dms): **291754** Longitude (dms): **982155** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **San Antonio River** GMA: **13** RWPA: **L** GCD: **Edwards Aquifer Authority**

Owner: **Wester Trails WSC** Driller: Aquifer ID: **Carrizo-Wilcox**

Aquifer Code: **124CRRZ**

Depth (ft): **400**

Elevation (ft): **577**

**CARRIZO
SAND**

Source of Depth: **Another Government
Agency**

Source of Elevation: **Interpolated From
Topo Map**

Date Drilled: Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:

Construction: Completion:

Casing Material: Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)

Dia. (in.)	Top (ft.)	Bottom (ft.)
---------------	--------------	-----------------

WATER USE

Primary: Secondary: Tertiary:

Water Levels: **None**

Water Quality: **N**

Other Data: Logs:

REMARKS:

Owners well #1. PWS ID #0150222.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **09/03/2009**

Recorded by: DR Jones

Attachment L

Groundwater Quality Technical Report

Groundwater Quality Technical Report

Aztec Estates Mobile Home Park
11704 South Highway 181
San Antonio, Texas

Prepared For

Capstone Property Management, LLC

Prepared By

Braun Intertec Corporation

Project B2303494
8/8/2024

Table of Contents

Description	Page
1.0 Introduction.....	1
2.0 Water Well Database Review - 30 TAC § 309.20(a)(4)(A)	1
3.0 Regional Groundwater Resources - 30 TAC § 309.20(a)(4)(B)	1
4.0 Geology and Hydrogeology	2

Table

Table 1 – Water wells within 1-Mile Radius

Appendices

- Appendix A: References
- Appendix B: ERIS Texas Water Well Report

1.0 Introduction

The objective of this groundwater quality technical report is to assess the impact of the wastewater application operation (septic leach fields) located at Aztec Estates Mobile Home Park located at 11704 South US Highway 181, Bexar County, San Antonio, Texas 78223 (Site) on the uses of local groundwater resources. This report was prepared to meet the Wastewater Discharge Permit (WWDP) groundwater technical report requirements in accordance with *Title 30 Texas Administrative Code (30 TAC) §309.20(a)(4)(A and B)*. To perform this assessment the local geology was evaluated, a desktop water well survey was performed to identify water wells and their classification or usage within 0.5-mile and 1-mile radii of the Site, and regional groundwater resources and quality information was reviewed. The results are presented in the following sections.

2.0 Water Well Database Review - 30 TAC § 309.20(a)(4)(A)

The Texas Water Development Board (TWDB) Groundwater Viewer, Texas Commission of Environmental Quality (TCEQ) Water Well Report Viewer, and the United States Geological Survey National Water Information System (NWIS) Mapper were reviewed to identify water wells within a 1-mile radius of the Site in conjunction with a Texas Water Well Report obtained from Environmental Risk Services (ERIS) and the Map and Well Information provided in Worksheet 3, Section 6. Twenty-seven water wells were identified: two plugged water wells (formally located at the Site), two irrigation wells, one water supply well, one municipal well, and twenty-one domestic-use wells; of these 27 wells, 12 are located within a 0.5-mile radius of the Site. Available information and well construction data for the 12 wells identified are summarized on **Table 1**.

Water quality information for these wells was not available for review. The wells reviewed were drilled to depths ranging from 130 to 694 feet below ground surface (bgs) and were completed in the Wilcox Group. Limited boring log information showed that the underlying geology consisted of interbeds of shale, clay, and sand. The static water levels for the wells ranged from 30 to 160 feet bgs, which are elevations above their respected screened intervals indicating semi-confined to confined conditions. The yields of the identified wells were recorded ranging from 12 to 100 gallons per minute (GPM).

No monitoring wells were identified within 1-mile radius of the Site during the review. Preoperational baseline groundwater quality data is not available.

3.0 Regional Groundwater Resources - 30 TAC § 309.20(a)(4)(B)

San Antonio Water System (SAWS) utilizes primarily groundwater resources to provide potable water to the City of San Antonio and the surrounding area, including the Site. The area is also under the jurisdiction of the South Central Texas Regional Water Planning Area, Groundwater Management Area 13, and the Edwards Aquifer Authority Groundwater Conservation District. The majority of domestic raw groundwater supply provided by SAWS comes from wells completed in the Edwards Aquifer in the northwestern portion of Bexar County.

SAWS does not provide area specific water quality data, but it does provide the highest levels of contaminants recorded at different sites in an annual water quality report. In a 2023 Water Quality Report, SAWS stated that no *Escherichia coli* bacteria were observed in the sampled drinking water in their

distribution systems. The highest nitrate concentration observed in their monitored water plants was 2.51 parts per million (ppm) while the average chlorine concentration observed in their water distribution system was 1.478 ppm; total dissolved solids (TDS), sulfates, and pH data were not provided in the Water Quality Report.

4.0 Geology and Hydrogeology

According to the Geologic Atlas of Texas San Antonio Sheet (1974), the underlying geologic unit at the Site is the Wilcox Group which consists of mostly mudstones and various amounts of sandstone, lignite, glauconitic sands, and conglomerate. The thickness of the Wilcox Group ranges from 440 feet to 1,200 feet and forms part of the Carrizo-Wilcox Aquifer. According to TWDB Groundwater Viewer, the Site is in the outcropping portion of the Carrizo-Wilcox Aquifer (TWDB, 2023). Water wells within a 1-mile radius of the Site are producing water from depths ranging from 130 to 694 feet bgs. The Carrizo-Wilcox Aquifer is a major aquifer extending parallel to the Gulf Coast from Louisiana to the border of Mexico and is primarily composed of sand locally interbedded with gravel, silt, clay, and lignite. The Carrizo-Wilcox Aquifer reaches 3,000 feet in thickness, however, much of the water is brackish and the freshwater saturated thickness of the sands averages 670 feet.

Groundwater resources in the vicinity of the Site are primarily located in the Edwards Aquifer that underlies the Carrizo-Wilcox Aquifer. In the San Antonio region, the Edwards Limestone attains a thickness of approximately 450 to 500 feet, of which about 450 feet make up the Edwards Aquifer that dips steeply toward the Gulf of Mexico. The production zone of the Edwards Aquifer and the majority of SAWS water supply wells are located in the northwestern portion of Bexar County due to saltwater intrusion into the Edwards Aquifer in the southeastern part of the county. The Carrizo-Wilcox Aquifer production zone in the San Antonio region is of generally poorer water quality.

The wells exhibit high static water levels (above screened intervals). This suggests that the clay and impermeable interbeds described in the reviewed boring logs may be providing pressure to the local water-bearing unit creating semi-confining or confining conditions. Coupled with the depth of the producing zones from the water wells, it also suggests that the semi-confining or confining layer restricts the vertical migration of infiltrating water or wastewater from reaching the groundwater resources beneath the shallow leach fields. Given the well depths, impermeable layers, and upward gradient, it is highly unlikely that effluent seepage from the shallow leach fields on the Site would directly impact groundwater resources in the area.

Appendix A

References

References

ERIS, Texas Water Well Report, July, 11 2023.

San Antonio Water System, 2023 Water Quality Report.

http://www.saws.org/wp-content/uploads/2023/06/252729.0150018_SAWS_Main.pdf

Texas Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet, 1974.

Texas Commission of Environmental Quality, Water Well Report Viewer.

<https://www.tceq.texas.gov/gis/waterwellview.html>

Texas Water Development Board, Groundwater Data Viewer.

<https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>

United States Geological Survey, National Water Information System Mapper.

<https://www.usgs.gov/tools/national-water-information-system-nwis-mapper>

TABLE

Table 1
Water Wells Within 1.0 Mile Radius
Aztec Estates Mobile Home Park
San Antonio, Texas

Well Report Tracking #	Well Use	Drilling Start Date	Drilling End Date	Latitude and Longitude	Distance From Site (miles)	Total Depth (ft bgs)	Screened Interval (ft bgs)	Static Elevation ² (ft bgs)	Yield (GPM)	Casing Diameter (in)	Casing type	Source
436500	Domestic	10/18/2016	10/20/2016	29.299806, -98.373750	0.25	327	277 - 317	102	30	5	PVC	TWDB ¹
194513	Domestic	12/5/2005	12/6/2005	29.306389, -98.368611	0.49	305	260 - 305	86	80	4	PVC	TWDB ¹
351994	Domestic	12/17/2013	1/3/2014	29.299167, -98.380833	0.25	360	280 - 360	106	60	5	PVC	TWDB ¹
343769	Domestic	10/11/2013	10/16/2013	29.298334, -98.365278	0.71	290	240 - 280	100	40	5	PVC	TWDB ¹
344418	Domestic	10/20/2013	10/23/2013	29.306945, -98.365278	0.64	300	250 - 290	96	40	5	PVC	TWDB ¹
555669	Domestic	9/23/2020	10/1/2020	29.305900, -98.366000	0.58	320	260 - 320	112	30	5	PVC	TWDB ¹
402557	Irrigation	6/8/2015	6/12/2015	29.310001, -98.385834	0.54	520	300 - 360, 400 - 420, 460 - 480	160	20	5	PVC	TWDB ¹
405835	Irrigation	8/18/2015	8/23/2015	29.309461, -98.385672	0.51	694	220 - 240, 300 - 320, 420 - 440	85	65	5	PVC	TWDB ¹
6846401	Water Supply Well	--	--	29.298334, -98.365278	0.77	400	--	--	--	--	--	TWDB ¹
58944	Plugged	--	plugged 8/31/2009	29.302778, -98.380000	0	156	--	--	--	4	plugged	TWDB ¹
57773	Plugged	--	plugged 8/18/2009	29.302778, -98.380000	0	207	--	--	--	8	plugged	TWDB ¹
68-46-4 CRANE ENTERPRISES	Domestic	--	4/1/1993	29.301136, -98.379298	0.06	300	--	136	40	4	PVC	TCEQ ³
68-45-6 BILL BLOCKER	Domestic	12/18/1995	1/15/1996	29.305509, -98.372197	0.22	297	197 - 297	120	20	4	PVC	TCEQ ³
68-46-4T EMIL DELGADO	Domestic	--	5/23/1983	29.308276, -98.373350	0.29	278	238 - 278	75	35	5	PVC	TCEQ ³
68-46-4 JAMES W. HALE	Domestic	--	3/10/1990	29.303190, -98.370431	0.33	300	--	102	100	4	PVC	TCEQ ³
68-46-4 JACKIE ARMOND	Domestic	9/3/1986	9/6/1986	29.298109, -98.373538	0.33	300	260 - 300	92	50	5	PVC	TCEQ ³
68-45-6 LESLEY CAMPBELL	Domestic	1/9/1997	1/17/1997	29.296714, -98.372140	0.46	174	--	88	--	4	PVC	TCEQ ³
68-46-4 TIM POLLOCK	Domestic	6/8/1999	6/9/1999	29.304232, -98.367545	0.49	333	310 - 330	111	50	4	PVC	TCEQ ³
68-46-4 R. C. SCHUBERT	Domestic	--	8/24/1985	29.304787, -98.367199	0.51	130	90 - 130	30	--	5	PVC	TCEQ ³
68-45-6 ESTER EVERHART	Domestic	4/3/1993	4/5/1993	29.303193, -98.389830	0.56	145	125 - 145	109	12	8.5	PVC	TCEQ ³
68-45-6S DONALD COUER	Domestic	--	9/6/1977	29.303494, -98.391913	0.68	204	144 - 204	112	25	5	PVC	TCEQ ³
68-46-4 TEXAS ICE HOUSE	Domestic	--	3/28/1984	29.295759, -98.368035	0.70	300	260 - 300	96	70	5	PVC	TCEQ ³
68-46-4 AL THOMAS	Municipal	--	6/4/1965	29.298461, -98.365607	0.74	180	160 - 180	90	--	5.5	Steel	TCEQ ³
68-46-4 JOHN WEBB	Domestic	--	8/7/1989	29.310202, -98.363812	0.81	300	--	131	90	4	PVC	TCEQ ³
68-45-6T JOE KUNZE	Domestic	--	6/29/1982	29.308568, -98.393820	0.89	240	--	92	90	5	PVC	TCEQ ³
68-45-6C LUTHER TOWNSEND	Domestic	--	8/20/1982	29.309099, -98.395024	0.97	220	180 - 220	90	80	5	PVC	TCEQ ³
68-45-6T JOE KUNZE	Domestic	--	8/20/1982	29.307760, -98.395757	0.97	220	180 - 220	91	100	5	PVC	TCEQ ³

Notes:

¹Texas Water Development Board

²Depth to water measurement was obtained from driller's log.

³Texas Commission of Environmental Quality

bgs = below ground surface

GPM = gallons per minute

-- = not available

Appendix B

ERIS Texas Water Well Report



TEXAS WATER WELL **REPORT**

Project Property:	<i>Aztec Estates - Domestic WW 11704 US-181 San Antonio TX</i>
Project No:	<i>B2303494</i>
Order No:	<i>23070600489</i>
Requested by:	<i>Braun Intertec Corporation</i>
Date Completed:	<i>July 11, 2023</i>

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

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Executive Summary

Property Information:

Project Property: *Aztec Estates - Domestic WW
11704 US-181 San Antonio TX*

Project No: *B2303494*

Coordinates:

Latitude: *29.30371304*
Longitude: *-98.37808161*
UTM Northing: *3,241,795.62*
UTM Easting: *560,397.51*
UTM Zone: *14R*
Target Property Geometry: *POLYGON*

County/Parish Covered: *Bexar (TX)*

Zipcode(s) Covered: *Elmendorf TX: 78112
San Antonio TX: 78223*

State(s) Covered: *TX*

Executive Summary: Report Summary

<i>Database</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 1.00mi</i>	<i>Total</i>
Federal				
FED USGS	Y	0	0	0
State				
TCEQ WELL LOGS	Y	0	16	16
SDRW WELLS	Y	0	8	8
GWDB	Y	0	1	1
WW FORT BEND	Y	0	0	0
WW HIGH PLAINS	Y	0	0	0
WW HARRIS GAL	Y	0	0	0
WUD	Y	0	0	0
	Total:	0	25	25

*PO – Property Only

Executive Summary: Site Report Summary - Project Property

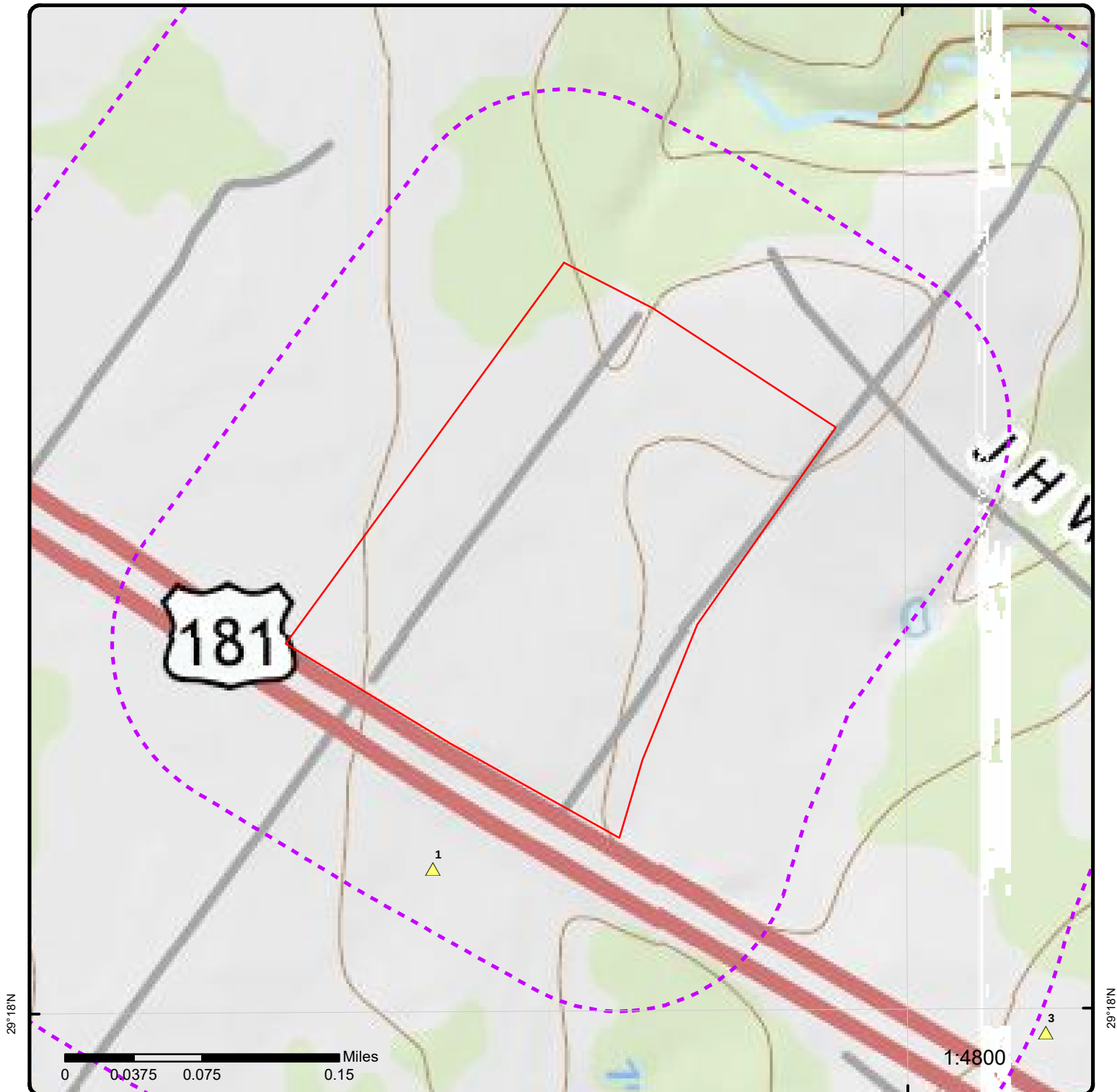
<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
1	TCEQ WELL LOGS		TX	SSW	0.06 / 340.97	13
			Grid No Owners Name: 68-46-4 CRANE ENTERPRISES			
2	TCEQ WELL LOGS		TX	ENE	0.22 / 1,137.51	15
			Grid No Owners Name: 68-45-6 BILL BLOCKER			
3	SDRW WELLS	Jesus Fernandez	San Antonio TX	SE	0.26 / 1,355.16	17
			Track NO: 436500			
4	SDRW WELLS	Jesse Benavides	11920 Donop Rd San Antonio TX 78223	SSW	0.26 / 1,366.40	18
			Track NO: 351994			
5	TCEQ WELL LOGS		TX	NE	0.29 / 1,505.34	19
			Grid No Owners Name: 68-46-4T EMIL DELGADO			
6	TCEQ WELL LOGS		TX	E	0.33 / 1,735.45	23
			Grid No Owners Name: 68-46-4 JAMES W. HALE			
7	TCEQ WELL LOGS		TX	SE	0.33 / 1,757.93	25
			Grid No Owners Name: 68-46-4 JACKIE ARMOND			
8	TCEQ WELL LOGS		TX	SE	0.46 / 2,430.26	29
			Grid No Owners Name: 68-45-6 LESLEY CAMPBELL			
9	SDRW WELLS	J.B. King	11297 S. Foster Rd. San Antonio TX 78155	ENE	0.47 / 2,497.84	31
			Track NO: 194513			
10	TCEQ WELL LOGS		TX	E	0.49 / 2,578.19	32
			Grid No Owners Name: 68-46-4 TIM POLLOCK			
11	SDRW WELLS	GDRM 181 RLP	10842 GREEN LAKE DR SAN ANTONIO TX	NW	0.50 / 2,664.71	35
			Track NO: 405835			
12	TCEQ WELL LOGS		TX	E	0.51 / 2,685.00	36
			Grid No Owners Name: 68-46-4 R. C. SCHUBERT			
13	SDRW WELLS	RAY VARGAS	10842 GREEN LAKE DR SAN ANTONIO TX	NW	0.54 / 2,863.78	39

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Page Number
			Track NO: 402557			
14	TCEQ WELL LOGS	ESTER EVERHART	TX	W	0.56 / 2,935.10	40
			Grid No Owners Name: 68-45-6 ESTER EVERHART			
15	SDRW WELLS	Edward Fernandez	11080 South Foster Rd San Antonio TX 78223	E	0.59 / 3,100.87	43
			Track NO: 555669			
16	SDRW WELLS	Edwardo Hernandez	11080 S. Foster Rd. San Antonio TX 78223	ENE	0.64 / 3,402.07	44
			Track NO: 344418			
17	TCEQ WELL LOGS	DONALD COUER	TX	W	0.68 / 3,603.06	45
			Grid No Owners Name: 68-45-6S DONALD COUER			
18	TCEQ WELL LOGS		TX	SE	0.70 / 3,670.46	47
			Grid No Owners Name: 68-46-4 TEXAS ICE HOUSE			
19	SDRW WELLS	Jaun Hernandez	11080 S.Foster Rd San Antonio TX 78223	ENE	0.73 / 3,855.89	51
			Track NO: 343769			
20	GWDB	Wester Trails WSC	TX	ESE	0.74 / 3,900.76	52
			State Well NO Owner Name: 6846401 Wester Trails WSC			
20	TCEQ WELL LOGS		TX	ESE	0.74 / 3,900.76	55
			Grid No Owners Name: 68-46-4 AL THOMS			
21	TCEQ WELL LOGS		TX	ENE	0.81 / 4,273.74	57
			Grid No Owners Name: 68-46-4 JOHN WEBB			
22	TCEQ WELL LOGS	JOE KUNZE	TX	WNW	0.89 / 4,677.39	61
			Grid No Owners Name: 68-45-6T JOE KUNZE			
23	TCEQ WELL LOGS	LUTHER TOWNSEND	TX	WNW	0.97 / 5,106.79	64
			Grid No Owners Name: 68-45-6C LUTHER TOWNSEND			
24	TCEQ WELL LOGS	JOE KUNZE	TX	WNW	0.97 / 5,131.46	67
			Grid No Owners Name: 68-45-6T JOE KUNZE			



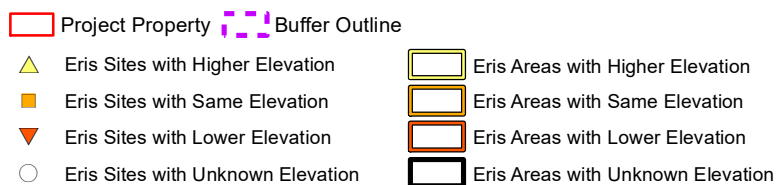
Map: 1.0 Mile Radius | Zoom Level: 3

Order Number: 23070600489

Address: 11704 US-181, San Antonio, TX



Plotted Water Wells



98°23'W

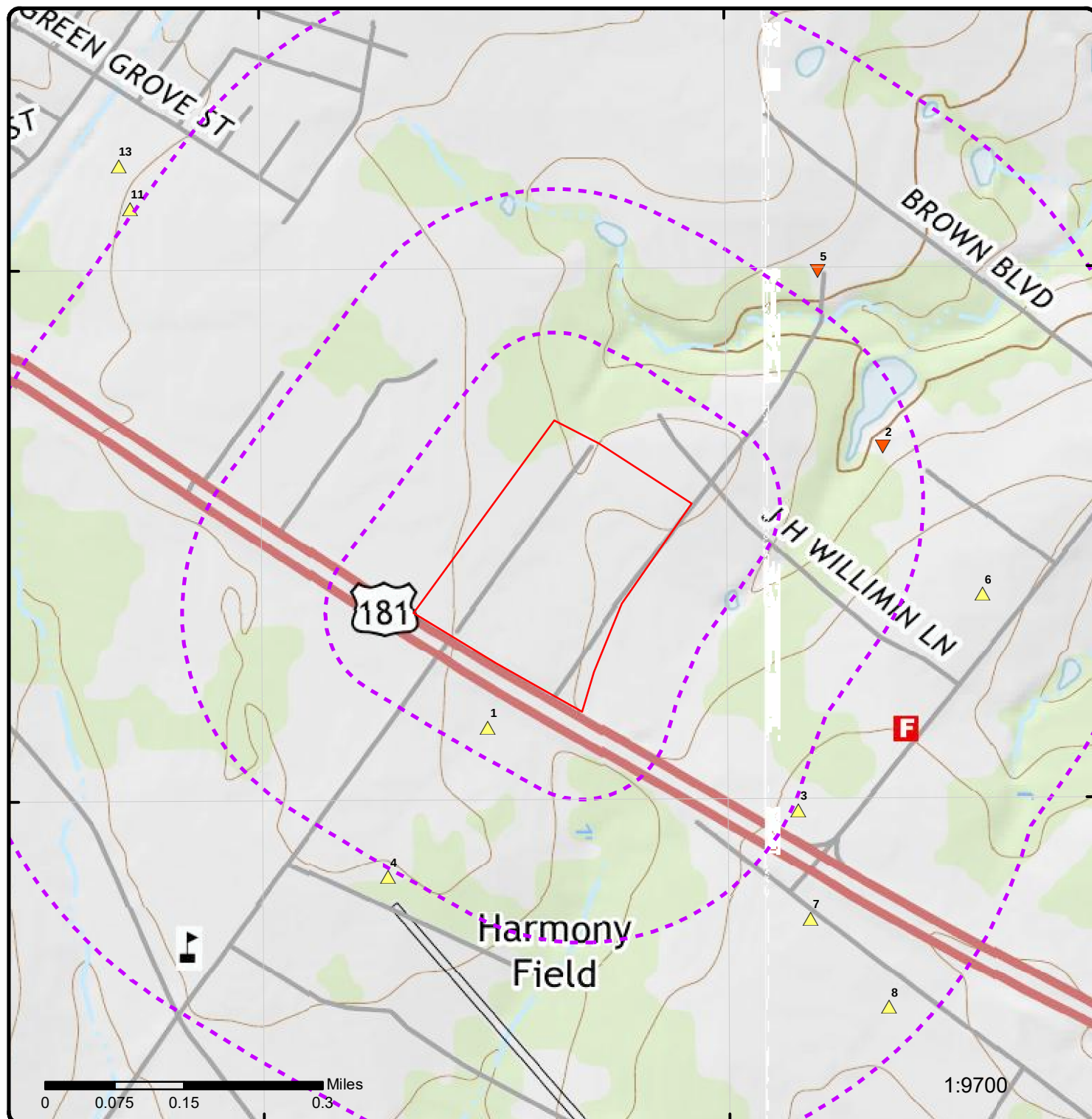
98°22'30"W

29°18'30"N

29°18'N

29°18'30"N

29°18'N



Map: 1.0 Mile Radius | Zoom Level: 2

Order Number: 23070600489

Address: 11704 US-181, San Antonio, TX

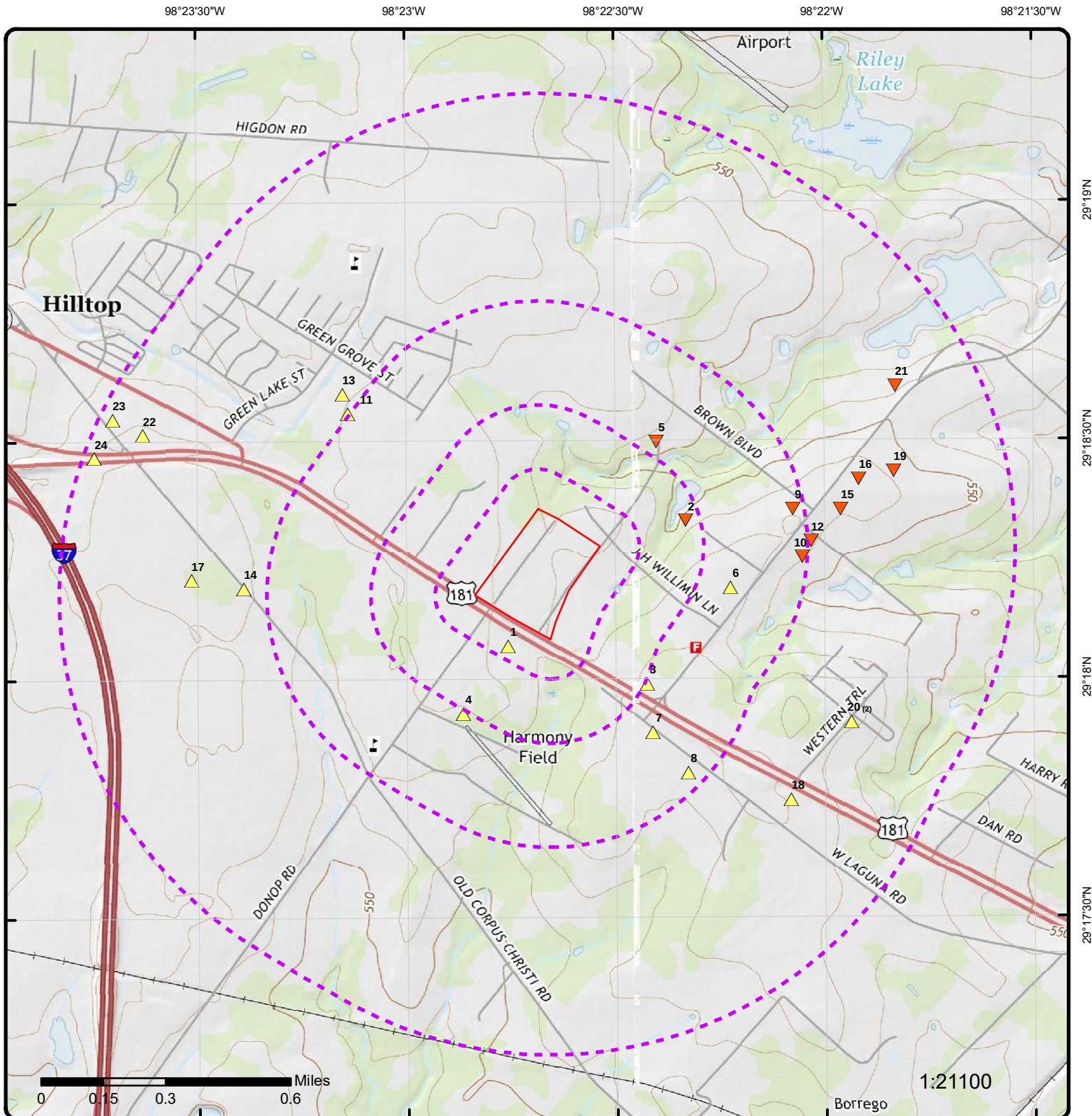


Plotted Water Wells

Project Property Buffer Outline

- ▲ Eris Sites with Higher Elevation
- ▲ Eris Sites with Same Elevation
- ▼ Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation

- Eris Areas with Higher Elevation
- Eris Areas with Same Elevation
- Eris Areas with Lower Elevation
- Eris Areas with Unknown Elevation



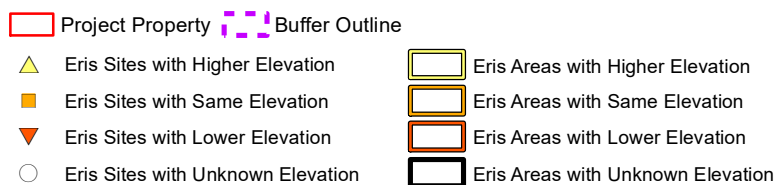
Map: 1.0 Mile Radius | Zoom Level: 1

Order Number: 23070600489

Address: 11704 US-181, San Antonio, TX



Plotted Water Wells



98°23'W

98°22'30"W

29°18'30"N

29°18'30"N

29°18'N

29°18'N

0.1 0.05 0 0.1 Miles

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1:10000

Aerial Year: 2022

Address: 11704 US-181, San Antonio, TX

Source: ESRI World Imagery

Order Number: 23070600489



© ERIS Information Inc.

Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
1	1 of 1	SSW	0.06 / 340.97	TX	TCEQ WELL LOGS

Grid No: 68-46-4
Date Drilled: 04/01/1993
Owners Name: CRANE ENTERPRISES
County: BEXAR
Water Usage: DOMESTIC
Static Level: 136
Depth Drilled: 301
Latitude: 29.30113608735378
Longitude: -98.37929845712083

Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13087 Austin, Texas 78711																																													
1) OWNER <u>Crane Enterprises</u> (Name)		ADDRESS <u>11717 Hwy 181 So.</u> <u>San Antonio</u> <u>7822</u> (Street or RFD) (City) (State) (Zip)																																															
2) LOCATION OF WELL: County <u>Bexar</u> <u>3</u> miles in <u>S</u> direction from <u>L00p 410 181 So</u> (NE, SW, etc.) (Town)																																																	
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																																	
☐ LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____																																																	
☐ SEE ATTACHED MAP <u>68-52-4</u>																																																	
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering		5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____																																													
6) WELL LOG: Date Drilling: _____ 19____ Started <u>4/1</u> 19 <u>93</u> Completed _____ 19____		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">Dia. (in.)</th> <th style="width:33%;">From (ft.)</th> <th style="width:33%;">To (ft.)</th> </tr> <tr> <td><u>6 3/4</u></td> <td><u>Surface</u></td> <td><u>300</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>6 3/4</u>	<u>Surface</u>	<u>300</u>	7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____ If Gravel Packed give Interval ... from _____ ft. to _____ ft.																																							
Dia. (in.)	From (ft.)	To (ft.)																																															
<u>6 3/4</u>	<u>Surface</u>	<u>300</u>																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:15%;">From (ft.)</th> <th style="width:15%;">To (ft.)</th> <th style="width:70%;">Description and color of formation material</th> </tr> <tr><td><u>0</u></td><td><u>4</u></td><td><u>Black Surface soil</u></td></tr> <tr><td><u>4</u></td><td><u>9</u></td><td><u>Yellow Clay</u></td></tr> <tr><td><u>9</u></td><td><u>14</u></td><td><u>Grey Clay</u></td></tr> <tr><td><u>14</u></td><td><u>30</u></td><td><u>surface sand w/black speck</u></td></tr> <tr><td><u>30</u></td><td><u>40</u></td><td><u>Sandy yellow clay</u></td></tr> <tr><td><u>40</u></td><td><u>65</u></td><td><u>Shale</u></td></tr> <tr><td><u>65</u></td><td><u>234</u></td><td><u>Black Shale</u></td></tr> <tr><td><u>234</u></td><td><u>235</u></td><td><u>Sand Stone</u></td></tr> <tr><td><u>235</u></td><td><u>301</u></td><td><u>Black Shale & water sand</u></td></tr> </table>		From (ft.)	To (ft.)	Description and color of formation material	<u>0</u>	<u>4</u>	<u>Black Surface soil</u>	<u>4</u>	<u>9</u>	<u>Yellow Clay</u>	<u>9</u>	<u>14</u>	<u>Grey Clay</u>	<u>14</u>	<u>30</u>	<u>surface sand w/black speck</u>	<u>30</u>	<u>40</u>	<u>Sandy yellow clay</u>	<u>40</u>	<u>65</u>	<u>Shale</u>	<u>65</u>	<u>234</u>	<u>Black Shale</u>	<u>234</u>	<u>235</u>	<u>Sand Stone</u>	<u>235</u>	<u>301</u>	<u>Black Shale & water sand</u>	8) CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2" style="width:10%;">Dia. (in.)</th> <th rowspan="2" style="width:10%;">New or Used</th> <th rowspan="2" style="width:40%;">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2" style="width:20%;">Setting (ft.)</th> <th rowspan="2" style="width:10%;">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>PCV</u></td> <td><u>18" above</u></td> <td><u>300</u></td> <td><u>40</u></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen	From	To	<u>4</u>	<u>N</u>	<u>PCV</u>	<u>18" above</u>	<u>300</u>	<u>40</u>
From (ft.)	To (ft.)	Description and color of formation material																																															
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<u>234</u>	<u>235</u>	<u>Sand Stone</u>																																															
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<u>4</u>	<u>N</u>	<u>PCV</u>	<u>18" above</u>	<u>300</u>	<u>40</u>																																												
13) TYPE PUMP: ☐ Turbine ☒ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>220</u> ft.		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>16</u> ft. to <u>0</u> ft. No. of Sacks Used <u>20</u> Method used <u>Hand mixed</u> Cemented by <u>Hammett Water System</u>																																															
14) WELL TESTS: Type Test: ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated Yield: <u>40</u> gpm with <u>0</u> ft. drawdown after <u>5</u> hrs.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 287.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)] ☐ Pitless Adapter Used [Rule 287.44(3)(B)] ☐ Approved Alternative Procedure Used [Rule 287.71]																																															
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		11) WATER LEVEL: Static level <u>136</u> ft. below land surface Date <u>4/1/93</u> Artesian flow _____ gpm. Date _____																																															
12) PACKERS: Type _____ Depth _____																																																	
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																																																	
COMPANY NAME <u>Hammett Water System</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>1171</u>																																															
ADDRESS <u>12359 S. Hwy 181 #4</u> <u>San Antonio</u> <u>Texas</u> <u>78223</u> (Street or RFD) (City) (State) (Zip)																																																	
(Signed) <u>Walter Hammett</u> (Licensed Well Driller)		(Signed) <u>8/26/93</u> (Registered Driller Trainee)																																															
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																	
For TWC use only: Well No. _____ Located on map <u>68-46-9</u>																																																	

WWD-012 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
2	1 of 1	ENE	0.22 / 1,137.51	TX	TCEQ WELL LOGS
Grid No:		68-45-6			
Date Drilled:		01/15/1996			
Owners Name:		BILL BLOCKER			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		120			
Depth Drilled:		297			
Latitude:		29.30550907391904			
Longitude:		-98.37219730875081			

Send original copy by certified mail to: TNRCC, P.O. Box 7, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-239-0530																																																			
1) OWNER <u>Bill Blocker</u> (Name) ADDRESS <u>11489 S Foster Rd</u> (Street or RFD) <u>San Antonio</u> (City) <u>Tx</u> (State) <u>78223</u> (Zip)																																																							
2) ADDRESS OF WELL: County <u>Bexar</u> <u>11489 S Foster Rd</u> (Street, RFD or other) <u>San Antonio</u> (City) <u>TX</u> (State) <u>78223</u> (Zip)																																																							
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☐ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No		5)																																																			
6) WELL LOG: Date Drilling: _____ Started <u>12/18/95</u> Completed <u>1/15/96</u>		7) DRILLING METHOD (Check): ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other _____		↑																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">DIAMETER OF HOLE</th> </tr> <tr> <th>Dia. (in.)</th> <th>From (ft.)</th> <th>To (ft.)</th> </tr> <tr> <td>6 3/4</td> <td>Surface</td> <td>297</td> </tr> </table>		DIAMETER OF HOLE				Dia. (in.)	From (ft.)	To (ft.)	6 3/4	Surface	297	8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>100</u> ft. to <u>297</u> ft.																																											
DIAMETER OF HOLE																																																							
Dia. (in.)	From (ft.)	To (ft.)																																																					
6 3/4	Surface	297																																																					
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From (ft.)	To (ft.)	Description and color of formation material																																																					
0	2	Surface soil																																																					
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			From	To																																																			
4	N	PVC	18" above	297	40																																																		
4	N	Perf.	197	297	40																																																		
13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>220</u> ft.		9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>14</u> ft. No. of sacks used <u>14</u> _____ ft. to _____ ft. No. of sacks used _____ Method used <u>Hand Mixed</u> Cemented by <u>Hammett Water System</u> Distance to septic system field lines or other concentrated contamination _____ ft. Method of verification of above distance _____																																																					
14) WELL TESTS: Type test: ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated Yield: <u>20</u> gpm with <u>0</u> ft. drawdown after <u>3</u> hrs.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 338.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)] ☐ Pitless Adapter Used [Rule 338.44(3)(b)] ☒ Approved Alternative Procedure Used [Rule 338.71]																																																					
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		11) WATER LEVEL: Static level <u>120</u> ft. below land surface Date <u>1/15/96</u> Artesian flow _____ gpm. Date _____																																																					
		12) PACKERS: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td><u>Canvas</u></td> <td><u>14 Ft</u></td> </tr> </table>				Type	Depth	<u>Canvas</u>	<u>14 Ft</u>																																														
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<u>Canvas</u>	<u>14 Ft</u>																																																						
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																																																							
COMPANY NAME <u>Hammett Water System</u> (Type or print)		WELL DRILLER'S LICENSE NO. <u>1171</u> CNPL																																																					
ADDRESS <u>12359 So. Hwy 181 #4</u> (Street or RFD) <u>San Antonio</u> (City) <u>Tx</u> (State) <u>78223</u> (Zip)		TEXAS NATURAL RESOURCE CONSERVATION COMMISSION																																																					
(Signed) <u>Victor Hammett</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																																																					

Please attach electric log, chemical analysis, and other pertinent information, if available.

TNRCC-0199 (Rev. 11-01-94)

TNRCC COPY

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
3	1 of 1	SE	0.26 / 1,355.16	Jesus Fernandez San Antonio TX	SDRW WELLS

Track NO: 436500
Date Submitted: 2016-11-07
Owner Name: Jesus Fernandez
Owner Address: 431 Ware
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78221
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.299806
Longitude: -98.37375
Drilling Date Started: 2016-10-18
Drilling Date Completed: 2016-10-20
Chemical Analysis: No
Company Name: TJ & TB Drilling
Company Address: PO Box 1009
CompanyAddress2:
Company City: Floresville
Company State: TX
Company Zip: 78114
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=436500&Type=SDR-Well>

Well Borehole Information

Top Depth: 0
Bottom Depth: 327

Top Depth:
Bottom Depth: 327.0

Well Levels

Measurement: 102
Measurement Date: 2016-10-21

Well Strata

Water Type:
 Good Drinking Water

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
4	1 of 1	SSW	0.26 / 1,366.40	Jesse Benavides 11920 Donop Rd San Antonio TX 78223	SDRW WELLS

Track NO: 351994
Date Submitted: 2014-01-20
Owner Name: Jesse Benavides
Owner Address: 11920 Donop Rd
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.299167
Longitude: -98.380833
Drilling Date Started: 2013-12-17
Drilling Date Completed: 2014-01-03
Chemical Analysis: No
Company Name: Thomas Moy and Sons
Company Address: 12323 N St Hwy 123
CompanyAddress2:
Company City: Falls City
Company State: TX
Company Zip: 78113
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=351994&Type=SDR-Well>

Well Borehole Information

Top Depth: 0
Bottom Depth: 360

Top Depth:
Bottom Depth: 360.0

Well Levels

Measurement: 106
Measurement Date:

Well Strata

Water Type:

fresh

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
5	1 of 1	NE	0.29 / 1,505.34	TX	TCEQ WELL LOGS
Grid No:		68-46-4T			
Date Drilled:		05/23/1983			
Owners Name:		EMIL DELGADO			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		75			
Depth Drilled:		278			
Latitude:		29.308276272510547			
Longitude:		-98.37335032334082			

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-46-4T
Located on map YES
Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Emil Delgado (Name) Address San Antonio, Texas (City) (State) (Zip)

2) LOCATION OF WELL: County Brewer 2 miles in North (N.E., S.W., etc.) direction from Eastwood 181 (Town)

☐ Legal description: Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 5/23/83

DIAMETER OF HOLE		
Dia. (in.)	From (ft.)	To (ft.)
7 7/8	Surface	278

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
If Gravel Packed give interval ... from 120 ft. to 278 ft.

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)	Gage Casing Screen
0-3	Surface	Surface	5	N	Plastic	0-278	250
3-24	Clay						
24-26	Rock						
26-70	Clay						
70-75	Sandy						
75-115	Clay						
115-116	Rock						
116-152	Shale						
152-158	Sand						
158-165	Shale						
165-170	Sandy						
170-175	Shale						
175-176	Rock						
177-185	Shale	256-278					
185-190	Sandy	Sandy					
190-200	Shale	TD					
200-203	Sandy						
203-210	Shale						
210-211	Rock						
211-228	Shale						
228-229	Rock						
229-232	Shale						
232-233	Rock						
233-245	Shale						
245-250	Sand						
250-252	Rock						
252-255	Sand						
255-256	Rock						

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Cementing Data:
Cemented from 0 ft. to 120 ft.
Method used Grouting
Cemented by Emil Delgado (Company or Individual)

9) WATER LEVEL:
Static level 75 ft. below land surface Date _____
Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth _____

11) TYPE PUMP:
☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 7.5 gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME EDWARD R. JARZOMBEN (Type or Print) Water Well Drillers Registration No. 686

ADDRESS 921 4TH ST (Street or RFD) FLORESVILLE (City) Tx (State) 78114 (Zip)

(Signed) Edward Jarzomben (Water Well Driller) J-B DRILLING (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).



<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
6	1 of 1	E	0.33 / 1,735.45	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		03/10/1990			
Owners Name:		JAMES W. HALE			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		102			
Depth Drilled:		300			
Latitude:		29.303189763473842			
Longitude:		-98.37043073883767			

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-4634
Located on map
Received: _____

1) OWNER James W. Hale Address 11593 So. Foster Rd. San Antonio, Texas
 (Name) (Street or RFD) (City) (State) 78223
 (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SW direction from HillTop
 (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines Hwy 181 and Foster Rd.
☒ See attached map. #2 on 68-45-6

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
 Date drilled 3/10/90

DIAMETER OF HOLE		Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgt., if commercial	Setting (ft.)		Gage Casing Screen
Dis. (in.)	From (ft.)					To (ft.)	From	
		Surface soil						
		Red and yellow shale						
		Broken blue shale and sand						
		Black Sand						
		Rock						
		Broken sand and shale						
		Grey Sand						
		Sand and rock						
		Shale						
		Grey Sand						
		Blue shale						

7) BOREHOLE COMPLETION:
☐ Open Hole ☐ Straight Wall ☐ Underreamed
☒ Gravel Packed ☐ Other _____
 If Gravel Packed give interval ... from 220 ft. to 300 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mgt., if commercial	Setting (ft.)	Gage Casing Screen
4	N	PVC	18' Above	300
				40

CEMENTING DATA
 Cemented from 0 ft. to 18 ft.
 Method used Hand Mixed
 Cemented by Hammett Water System
 (Company or Individual)

9) WATER LEVEL:
 Static level 102 ft. below land surface Date 3/10/90
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type Depth

11) TYPE PUMP: None
☐ Turbin ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
 Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS:
☐ Type Test ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
 Yield: 100 gpm with 0 ft. drawdown after 4 hrs.

13) WATER QUALITY:
 Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
 If yes, submit "REPORT OF UNDESIRABLE WATER"
 Type of water? _____ Depth of strata _____
 Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Victor Hammett Water Well Drillers Registration No. 1171
 (Type or Print)

ADDRESS 12359 S Hwy. 181 #4 San Antonio Texas 78223
 (Street or RFD) (City) (State) (Zip)

(Signed) Victor Hammett Hammett Water System
 (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.
 TDWR-0392

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
7	1 of 1	SE	0.33 / 1,757.93	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		09/06/1986			
Owners Name:		JACKIE ARMOND			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		92			
Depth Drilled:		300			
Latitude:		29.29810947757998			
Longitude:		-98.37353832386187			

Please use black ink.
Send original copy by
certified mail to the
Texas Water Commission
P.O. Box 13087
Austin, Texas 78711

State of Texas
WATER WELL REPORT

Texas Water Well Drillers Board
P. O. Box 13087
Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Jackie Armond (Name) Address 270 Laguna Rd., San Antonio, TX 78223 (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Brewer 8 miles in South E direction from San Antonio (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description:
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Injection ☐ Other _____

5) DRILLING METHOD (Check): ☐ Driven
☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Other _____

6) WELL LOG:
Date Drilling: Started 9-3 1984 Completed 9-6 1984
DIA. OF HOLE (ft.)
Dia. (in.) From (ft.) To (ft.)
Surface 300

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Undersamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen type, if commercial	Setting (ft.)	Gage Casing Screen
0	4	surface					
4	12	caliche					
12	28	yellow clay	5	New	Plastic 40	0	300
28	53	sandy					
53	70	shaly					
70	123	sandy					
123	177	shaly p/sand sh					
177	201	sandy					
201	215	shaly					
215	229	sandy					
229	257	shaly					
257	300	sand good					

9) CEMENTING DATA [Rule 319.44(b)]
Cemented from 230 ft. to 250 ft. No. of Sacks Used 8
ft. to _____ ft. No. of Sacks Used _____
Method used Purged
Cemented by Acc Pump Co.

10) SURFACE COMPLETION
☒ Specified Surface Slab Installed [Rule 319.44(c)]
☐ Pitless Adapter Used [Rule 319.44(d)]
☐ Approved Alternative Procedure Used [Rule 319.71]

11) WATER LEVEL:
Static level 92 ft. below land surface Date 9-6-84
Artesian flow _____ gpm. Date _____

12) PACKERS: Type _____ Depth 250
Hellbusta Basket

13) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

14) WELL TESTS:
Type Test: ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated
Yield: 50 gpm with 30 ft. drawdown after 45 hrs.

15) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 12 will result in the log(s) being returned for completion and resubmittal.

COMPANY NAME Ace Pump Co. (Type or Print) Water Well Driller's License No. 1766
ADDRESS 309 W. HATCHINS SAN ANTONIO TEXAS 78221
(Street or RFD) (City) (State) (Zip)
(Signed) Fernando E. Helin (Signed) _____
(Licensed Water Well Driller) (Registered Driller Trainee)
Please attach electric log, chemical analysis, and other pertinent information, if available.
For TWC use only:
Well No. 68-46-4
Located on map _____

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Texas Water Commission are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every licensed water well driller drilling, deepening or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within 30 days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. Each copy of a well log, other than a Commission copy, shall include the name, mailing address, and telephone number of the Board and the Commission. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential.



<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
8	1 of 1	SE	0.46 / 2,430.26	TX	TCEQ WELL LOGS

Grid No: 68-45-6
Date Drilled: 01/17/1997
Owners Name: LESLEY CAMPBELL
County: BEXAR
Water Usage: DOMESTIC
Static Level: 88
Depth Drilled: 174
Latitude: 29.296714244127067
Longitude: -98.37213956193801

Send original copy by certified mail to: TNRCC, P.O. Box 13087, Austin, TX 78711-3087

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Advisory Council P.O. Box 13087 Austin, TX 78711-3087 512-239-0530																					
1) OWNER <u>Lesley Campbell</u> (Name) ADDRESS <u>6020 W. Laguna San Antonio Tx 78223</u> (Street or RFD) (City) (State) (Zip)		2) ADDRESS OF WELL: County <u>Bexar</u> <u>6020 W. Laguna S.A. Tx 78223</u> (Street, RFD or other) (City) (State) (Zip) GRID # <u>68 45-6</u>																							
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☐ Monitor ☐ Environmental Soil Boring ☒ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No		5)																					
6) WELL LOG: Date Drilling: _____ Started <u>1-9</u> 19 <u>97</u> Completed <u>1-17</u> 19 <u>97</u>		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Dia. (in.)</th> <th style="width: 33%;">From (ft.)</th> <th style="width: 33%;">To (ft.)</th> </tr> <tr> <td><u>6-7/8</u></td> <td>Surface</td> <td><u>174</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>6-7/8</u>	Surface	<u>174</u>	7) DRILLING METHOD (Check): ☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other _____															
Dia. (in.)	From (ft.)	To (ft.)																							
<u>6-7/8</u>	Surface	<u>174</u>																							
From (ft.) To (ft.) Description and color of formation material <u>0-5</u> <u>Black Surface Soil</u> <u>5-17</u> <u>Clay</u> <u>17-92</u> <u>Yellow Sand + Shale</u> <u>92-174</u> <u>Broken Blue Shale + Sand</u>		8) Borehole Completion (Check): ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>173</u> ft. to <u>93</u> ft.																							
CASING, BLANK PIPE, AND WELL SCREEN DATA:																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>PVC</u></td> <td><u>18" above</u></td> <td><u>174</u></td> <td><u>40</u></td> </tr> <tr> <td></td> <td></td> <td><u>Perf. 80'</u></td> <td></td> <td></td> <td></td> </tr> </table>		Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen	From	To	<u>4</u>	<u>N</u>	<u>PVC</u>	<u>18" above</u>	<u>174</u>	<u>40</u>			<u>Perf. 80'</u>				9) CEMENTING DATA [Rule 338.44(1)] Cemented from <u>0</u> ft. to <u>10</u> ft. No. of sacks used <u>8</u> _____ ft. to _____ ft. No. of sacks used _____ Method used <u>Hand Mixed</u> Cemented by <u>Hammett Water System</u> Distance to septic system field lines or other concentrated contamination <u>150</u> ft. Method of verification of above distance <u>Measured Tape</u>			
Dia. (in.)	New or Used				Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casting Screen																	
		From	To																						
<u>4</u>	<u>N</u>	<u>PVC</u>	<u>18" above</u>	<u>174</u>	<u>40</u>																				
		<u>Perf. 80'</u>																							
13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>140</u> ft.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 338.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 338.44(3)(A)] ☐ Pitless Adapter Used [Rule 338.44(3)(b)] ☐ Approved Alternative Procedure Used [Rule 338.71]																							
14) WELL TESTS: Type test: ☐ Pump ☒ Bailor ☐ Jetted ☐ Estimated Yield: _____ gpm with _____ ft. drawdown after _____ hrs.		11) WATER LEVEL: Static level <u>88</u> ft. below land surface Date <u>1-17-97</u> Artesian flow _____ gpm. Date _____																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		12) PACKERS: <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>FILE ID</th> <th>Type</th> <th>Depth</th> <th>SEP #</th> </tr> <tr> <td><u>Cement</u></td> <td></td> <td></td> <td><u>SEP 06 1997</u></td> </tr> </table>				FILE ID	Type	Depth	SEP #	<u>Cement</u>			<u>SEP 06 1997</u>												
FILE ID	Type	Depth	SEP #																						
<u>Cement</u>			<u>SEP 06 1997</u>																						
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 thru 15 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Hammett Water System</u> (Type or print) WELL DRILLER'S LICENSE NO. <u>WPL 1171</u>		ADDRESS <u>12359 So. Hwy 181 # 4 San Antonio TX 78223</u> (Street or RFD) (City) (State) (Zip)																							
(Signed) <u>Dustin Hammett</u> (Licensed Well Driller)		(Signed) _____ (Registered Driller Trainee)																							

Please attach electric log, chemical analysis, and other pertinent information, if available.

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
9	1 of 1	ENE	0.47 / 2,497.84	J.B. King 11297 S. Foster Rd. San Antonio TX 78155	SDRW WELLS

Track NO: 194513
Date Submitted: 2009-09-28
Owner Name: J.B. King
Owner Address: 11297 S. Foster Rd.
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78155
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.306389
Longitude: -98.368611
Drilling Date Started: 2005-12-05
Drilling Date Completed: 2005-12-06
Chemical Analysis: No
Company Name: Deharde Water Well Service
Company Address: 1075 Schuenemann Rd
CompanyAddress2:
Company City: Seguin
Company State: TX
Company Zip: 78155
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=194513&Type=SDR-Well>

Well Borehole Information

Top Depth: 0
Bottom Depth: 305

Top Depth:
Bottom Depth: 322.0

Top Depth: 0
Bottom Depth: 322

Well Levels

Measurement: 86
Measurement Date: 2005-12-06

Well Strata

Water Type:

Bexar

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
10	1 of 1	E	0.49 / 2,578.19	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		06/09/1999			
Owners Name:		TIM POLLOCK			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		111			
Depth Drilled:		333			
Latitude:		29.30423207711163			
Longitude:		-98.36754476575541			

Send original copy by certified return receipt request to: TDLR, P.O. Box 12157, Austin, TX 78711

ATTENTION OWNER: Confidentiality Privilege Notice on reverse side of Well Owner's copy (pink)		State of Texas WELL REPORT		Texas Department of Licensing & Regulation P.O. Box 12157 Austin, TX 78711 512-463-7880																					
1) OWNER <u>Tim Pollock</u>		ADDRESS <u>11392 Box #2 S Foster Rd. San Antonio TX 78228</u>																							
(Name)		(Street or RFD)		(City)	(State) (Zip)																				
2) ADDRESS OF WELL'S LOCATION:		Same As Above		Long. <u>68-46-4</u>	Lat. <u>4</u>																				
County <u>Bexar</u>		(Street, RFD or other)		(City)	(State) (Zip) Grid #																				
3) TYPE OF WORK (Check):		4) PROPOSED USE (Check):		5)																					
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		☐ Monitor ☐ Environmental Soil Boring ☒ Domestic ☐ Industrial ☐ Irrigation ☐ Injection ☐ Public Supply ☐ De-watering ☐ Testwell If Public Supply well, were plans submitted to the TNRCC? ☐ Yes ☐ No																							
6) WELL LOG:		DIAMETER OF HOLE		7) DRILLING METHOD (Check):																					
Date Drilling:		Dia. (in.) From (ft.) To (ft.)		☐ Driven ☐ Air Rotary ☒ Mud Rotary ☐ Bored ☐ Air Hammer ☐ Cable Tool ☐ Jetted ☐ Other																					
Started <u>6/8</u> 19 <u>99</u>		<u>6 3/4</u> Surface <u>333</u>																							
Completed <u>6/9</u> 19 <u>99</u>		<u>7 7/8</u> Reamed <u>333</u>																							
From (ft.) To (ft.) Description and color of formation material		8) Borehole Completion (Check):																							
<u>0 - sand</u>		☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other																							
<u>2 - sandy red clay</u>		If Gravel Packed give interval from <u>290</u> ft. to <u>330</u> ft.																							
<u>12 - white clay</u>		CASING, BLANK PIPE, AND WELL SCREEN DATA:																							
<u>50 - blue clay</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>4</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>331</u></td> <td><u>Sch40</u></td> </tr> <tr> <td><u>"</u></td> <td><u>"</u></td> <td><u>Screen Mfg. 20°</u></td> <td><u>310</u></td> <td><u>330</u></td> <td><u>" "</u></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	<u>4</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>331</u>	<u>Sch40</u>	<u>"</u>	<u>"</u>	<u>Screen Mfg. 20°</u>	<u>310</u>	<u>330</u>	<u>" "</u>
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<u>"</u>	<u>"</u>	<u>Screen Mfg. 20°</u>	<u>310</u>	<u>330</u>	<u>" "</u>																				
<u>115 - rock</u>																									
<u>117 - sand</u>																									
<u>130 - clay & sand streaks</u>																									
<u>168 - rock</u>																									
<u>169 - clay & sand streaks</u>																									
<u>200 - rock</u>																									
<u>202 - rock</u>																									
<u>208 - sand</u>																									
(Use reverse side of Well Owner's copy, if necessary)																									
9) CEMENTING DATA																									
Cemented from <u>0</u> ft. to <u>15</u> ft. No. of sacks used <u>1</u>																									
Method used <u>Larry Deharde</u>																									
Cemented by <u>Larry Deharde</u>																									
Distance to septic system field lines or other concentrated contamination <u>120</u> ft.																									
Method of verification of above distance <u>Wheel</u>																									
10) SURFACE COMPLETION																									
☐ Specified Surface Slab Installed ☒ Specified Steel Sleeve Installed ☐ Pitless Adapter Used ☐ Approved Alternative Procedure Used																									
11) WATER LEVEL:																									
Static level <u>111</u> ft. below land surface Date <u>6/9/99</u>																									
Artesian flow _____ gpm. Date _____																									
12) PACKERS:																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Type</th> <th>Depth</th> </tr> <tr> <td><u>4 - sacks</u></td> <td><u>Hole Plug 280'-290'</u></td> </tr> </table>						Type	Depth	<u>4 - sacks</u>	<u>Hole Plug 280'-290'</u>																
Type	Depth																								
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13) ☒ Well plugged within 48 hours																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Casing left in well:</th> <th colspan="2">Cement/bentonite placed in well:</th> <th>Sacks used:</th> </tr> <tr> <th>From (ft)</th> <th>To (ft)</th> <th>From (ft)</th> <th>To (ft)</th> <th></th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>						Casing left in well:		Cement/bentonite placed in well:		Sacks used:	From (ft)	To (ft)	From (ft)	To (ft)											
Casing left in well:		Cement/bentonite placed in well:		Sacks used:																					
From (ft)	To (ft)	From (ft)	To (ft)																						
14) TYPE PUMP:																									
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>180</u> ft.																									
15) WELL TESTS:																									
Type test: ☐ Pump ☐ Bailer ☒ Jetted ☒ Estimated																									
Yield: <u>50</u> gpm with <u>0</u> 250 ft. drawdown after _____ hrs.																									
16) WATER QUALITY:																									
Did you knowingly penetrate any strata which contained undesirable constituents?																									
☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER"																									
Type of water? _____ Depth of strata _____																									
Was a chemical analysis made? ☐ Yes ☒ No																									
I certify that I drilled this well (or the well was drilled under my direct supervision) and that each and all of the statements herein are true and correct. I understand that failure to complete items 1 thru 16 will result in the log(s) being returned for completion and resubmittal.																									
COMPANY NAME <u>Deharde Water Well Service</u>																									
(Type or print)																									
ADDRESS <u>1075 Schuenemann Rd.</u>																									
(Street or RFD)																									
(Signed) <u>Larry Deharde</u>																									
(Licensed Well Driller)																									
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>FILE ID</td> <td>SEQ #</td> </tr> <tr> <td>EMP #</td> <td>WELL DRILLER'S LICENSE NO.</td> </tr> <tr> <td><u>2328</u></td> <td><u>WPK</u></td> </tr> <tr> <td><u>JUL 14 1999</u></td> <td></td> </tr> <tr> <td>TX</td> <td>78155</td> </tr> <tr> <td>(City)</td> <td>(Zip)</td> </tr> </table>						FILE ID	SEQ #	EMP #	WELL DRILLER'S LICENSE NO.	<u>2328</u>	<u>WPK</u>	<u>JUL 14 1999</u>		TX	78155	(City)	(Zip)								
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(Registered Driller Trainee)																									

TDLR FORM 001WWD (4/98)

White - TDLR

Yellow - DRILLER

Pink - WELL OWNER

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
CONFIDENTIALITY**

Section 32.005 of the Texas Water Code, concerning confidential information in the Reporting of Well Logs, reads as follows:

"Every licensed driller drilling, deepening or otherwise altering a water well within this State shall make and keep a legible and accurate well log in accordance with the department rule on forms prescribed by the department. Not later than the 60th day after the completion or cessation of drilling, deepening, or otherwise altering the well, the licensed driller shall deliver or transmit by certified mail a copy of the well log to the department and to the owner of the well or the person for whom the well was drilled. Each copy of a well log, other than a department copy must include the name, mailing address, and telephone number of the department. The well log shall be recorded at the time of drilling, and must show the depth, thickness, and character of the strata penetrated, the location of water-bearing strata, the depth, size and character of casing installed, and any other information required by department rule. The department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner or person for whom the well was drilled."

The last sentence specifies the means whereby you may, if you wish, assure that logs of your wells will be kept confidential.

From (ft.)	To (ft.)	Description and color of formation material
210	200	clay
200	190	clay
190	180	sandy clay
180	170	clay
170	160	clay
160	150	sandy clay
150	140	clay
140	130	clay
130	120	clay
120	110	clay
110	100	clay
100	90	clay
90	80	clay
80	70	clay
70	60	clay
60	50	clay
50	40	clay
40	30	clay
30	20	clay
20	10	clay
10	0	clay

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
11	1 of 1	NW	0.50 / 2,664.71	GDRM 181 RLP 10842 GREEN LAKE DR SAN ANTONIO TX	SDRW WELLS

Track NO: 405835
Date Submitted: 2015-09-22
Owner Name: GDRM 181 RLP
Owner Address: 10575 WEST OFFICE DR
Owner Address2:
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77042
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Irrigation
Prop Use Oth Descr:
Latitude: 29.309461
Longitude: -98.385672
Drilling Date Started: 2015-08-18
Drilling Date Completed: 2015-08-23
Chemical Analysis: No
Company Name: KELTIC DRILLING LLC
Company Address: PO BOX 839
CompanyAddress2:
Company City: VON ORMY
Company State: TX
Company Zip: 78073
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=405835&Type=SDR-Well>

Well Borehole Information

Top Depth:
Bottom Depth: 694.0

Top Depth: 0
Bottom Depth: 520

Top Depth: 520
Bottom Depth: 694

Well Levels

Measurement: 85
Measurement Date: 2015-08-23

Well Strata

Water Type:

 NORMAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
12	1 of 1	E	0.51 / 2,685.00	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		08/24/1985			
Owners Name:		R. C. SCHUBERT			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		30			
Depth Drilled:		130			
Latitude:		29.304786915964346			
Longitude:		-98.36719869748185			

State of Texas
WATER WELL REPORT

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

Texas Water Well Drillers Board
 P. O. Box 13087
 Austin, Texas 78711

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER R.C. SCHUBERT Address 4119 WILLARD SAN ANTONIO TX 78228
 (Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County BREXIT 2 miles in EAST direction from 1814 FOSTER ROAD
 (N.E., S.W., etc.) (Town)

☐ Legal description: Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____

☒ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG: DIAMETER OF HOLE
 Date drilled 8-24-85 7 1/8 Dis. (in.) From (ft.) To (ft.)
130 Surface

7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____
 If Gravel Packed give interval ... from 40 ft. to 130 ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

From (ft.)	To (ft.)	Description and color of formation material	Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
						From	To	
0 - 50		BROWN SAND & CLAY MIX						
50 - 120		SAND & SHALE MIX						
120 - 130		SAND						

CEMENTING DATA
 Cemented from 0 ft. to 10 ft.
 Method used SELF
 Cemented by _____ (Company or Individual)

9) WATER LEVEL: Static level 30 ft. below land surface Date 8-28-85
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth N/A

11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
 Depth to pump bowls, cylinder, jet, etc., 100 ft.

12) WELL TESTS: ☐ Type Test ☐ Pump ☒ Bailer ☐ Jetted ☐ Estimated
 Yield: _____ gpm with _____ ft. drawdown after _____ hrs.

13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
 If yes, submit "REPORT OF UNDESIRABLE WATER"
 Type of water? _____ Depth of strata? _____
 Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that all of the statements herein are true to the best of my knowledge and belief.

COMPANY NAME LIVE OAK WATER WELL DRILLING Water Well Driller's License No. 2380
RT. 2, BOX 223
FLORESVILLE TEXAS 78114
(512) 393-3786

ADDRESS _____ (Street or RFD) (City) (State) (Zip)

(Signed) Mark Jones (Signed) _____
 (Licensed Water Well Driller) (Registered Driller Trainee)

Please attach electric log, chemical analysis, and other pertinent information, if available.

For TDWR use only
 Well No. 68-46-4
 Located on map _____

TDWR-0392 (Rev. 5-27-82)

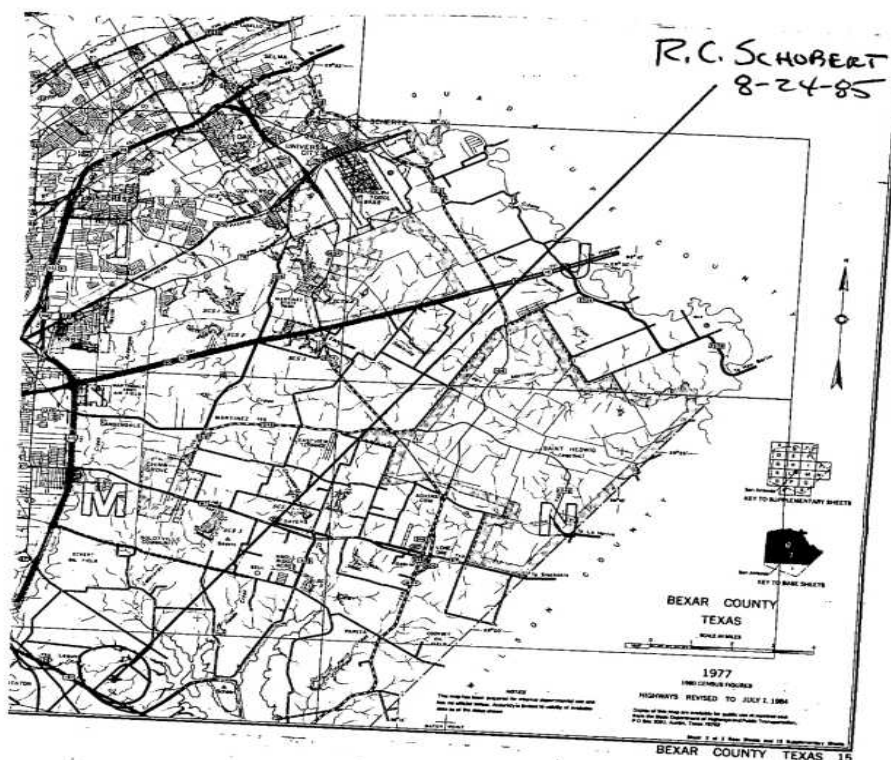
DEPARTMENT OF WATER RESOURCES COPY

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
13	1 of 1	NW	0.54 / 2,863.78	RAY VARGAS 10842 GREEN LAKE DR SAN ANTONIO TX	SDRW WELLS

Track NO: 402557
Date Submitted: 2015-08-19
Owner Name: RAY VARGAS
Owner Address: 10575 WEST OFFICE DR
Owner Address2:
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77092
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Irrigation
Prop Use Oth Descr:
Latitude: 29.310001
Longitude: -98.385834
Drilling Date Started: 2015-06-08
Drilling Date Completed: 2015-06-12
Chemical Analysis: No
Company Name: KELTIC DRILLING LLC
Company Address: PO BOX 839
CompanyAddress2:
Company City: VON ORMY
Company State: TX
Company Zip: 78073
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=402557&Type=SDR-Well>

Well Borehole Information

Top Depth:
Bottom Depth: 520.0

Top Depth: 0
Bottom Depth: 520

Well Levels

Measurement: 160
Measurement Date: 2015-06-12

Well Strata

Water Type:
 NATURAL

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
14	1 of 1	W	0.56 / 2,935.10	ESTER EVERHART TX	TCEQ WELL LOGS

Grid No: 68-45-6
Date Drilled: 04/03/1993
Owners Name: ESTER EVERHART
County: BEXAR
Water Usage: DOMESTIC
Static Level: 109
Depth Drilled: 145
Latitude: 29.303193
Longitude: -98.38983

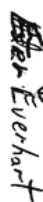
Send original copy by certified mail to: Texas Water Commission, P.O. Box 13087, Austin, Texas 78711

Please use black ink.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side		State of Texas WELL REPORT		Texas Water Well Drillers Board P.O. Box 13087 Austin, Texas 78711																					
1) OWNER: <u>Ester Everhart</u> (Name)		ADDRESS: <u>10951 181. S. S.A. TX. 78226</u> (Street or RFD) (City) (State) (Zip)																							
2) LOCATION OF WELL: County: <u>Dexar</u> <u>8 1/2</u> miles in <u>S.E.</u> direction from <u>San Antonio</u> (NE, SW, etc.) (Town)																									
Driller must complete the legal description below with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																									
☐ LEGAL DESCRIPTION: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines _____																									
☒ SEE ATTACHED MAP																									
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Monitor ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Injection ☐ De-Watering		5) DRILLING METHOD (Check): ☐ Driven ☒ Mud Rotary ☐ Air Hammer ☐ Jetted ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Other _____																					
6) WELL LOG: Date Drilling: <u>4-3-93</u> Started: <u>4-5-93</u> Completed: <u>4-5-93</u>		DIAMETER OF HOLE <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">Dia. (in.)</th> <th style="width:33%;">From (ft.)</th> <th style="width:33%;">To (ft.)</th> </tr> <tr> <td><u>8 1/2</u></td> <td>Surface</td> <td><u>145</u></td> </tr> </table>		Dia. (in.)	From (ft.)	To (ft.)	<u>8 1/2</u>	Surface	<u>145</u>	7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>125</u> ft. to <u>145</u> ft.															
Dia. (in.)	From (ft.)	To (ft.)																							
<u>8 1/2</u>	Surface	<u>145</u>																							
From (ft.) To (ft.) Description and color of formation material		8) CASING, BLANK PIPE, AND WELL SCREEN DATA:																							
<u>0-2 Surface</u> <u>2-38 Sandy Clay</u> <u>38-112 Shale</u> <u>112-145 Sand</u>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casting Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> <tr> <td><u>8 1/2</u></td> <td><u>N</u></td> <td><u>Plastic</u></td> <td><u>0</u></td> <td><u>145</u></td> <td><u>Slotted</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td><u>125</u></td> <td><u>145</u></td> <td></td> </tr> </table>				Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial	Setting (ft.)		Gage Casting Screen	From	To	<u>8 1/2</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>145</u>	<u>Slotted</u>				<u>125</u>	<u>145</u>	
Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., If commercial	Setting (ft.)		Gage Casting Screen																				
			From	To																					
<u>8 1/2</u>	<u>N</u>	<u>Plastic</u>	<u>0</u>	<u>145</u>	<u>Slotted</u>																				
			<u>125</u>	<u>145</u>																					
(Use reverse side if necessary) 13) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bows, cylinder, jet, etc., <u>120</u> ft.		9) CEMENTING DATA [Rule 287.44(1)] Cemented from <u>0</u> ft. to <u>10</u> ft. No. of Sacks Used <u>24</u> ft. to _____ ft. No. of Sacks Used _____ Method used <u>Surface Pour</u> Cemented by <u>SELF</u>																							
14) WELL TESTS: Type Test: ☒ Pump ☐ Baller ☐ Jetted ☐ Estimated Yield: <u>12</u> gpm with <u>0</u> ft. drawdown after <u>24</u> hrs.		10) SURFACE COMPLETION ☒ Specified Surface Slab Installed [Rule 287.44(2)(A)] ☐ Specified Steel Sleeve Installed [Rule 287.44(3)(A)] ☐ Pitless Adapter Used [Rule 287.44(3)(B)] ☐ Approved Alternative Procedure Used [Rule 287.71]																							
15) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable constituents? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		11) WATER LEVEL: Static level <u>109</u> ft. below land surface Date <u>4-5-93</u> Artesian flow _____ gpm. Date _____																							
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief. I understand that failure to complete items 1 and 15 will result in the log(s) being returned for completion and resubmittal.		12) PACKERS: <u>None</u> Type _____ Depth _____																							
COMPANY NAME: <u>NYS Drilling</u> (Type or print) ADDRESS: <u>Rt. 7 Box 417 C. S.A. TX. 78221</u> (Street or RFD) (City) (State) (Zip)		WELL DRILLER'S LICENSE NO. <u>3067 W.</u> (Signed) <u>Dennis Bellway</u> (Licensed Well Driller) (Signed) _____ (Registered Driller Trainee)																							
Please attach electric log, chemical analysis, and other pertinent information, if available.																									
For TWC use only: Well No. _____ Located on map <u>68-85-6</u>																									

TWC-0199 (Rev. 05-18-90)

TEXAS WATER COMMISSION COPY



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
15	1 of 1	E	0.59 / 3,100.87	Edward Fernandez 11080 South Foster Rd San Antonio TX 78223	SDRW WELLS

Track NO: 555669
Date Submitted: 2020-10-07
Owner Name: Edward Fernandez
Owner Address: 11415 Bluewing Rd
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.3059
Longitude: -98.366
Drilling Date Started: 2020-09-23
Drilling Date Completed: 2020-10-01
Chemical Analysis: No
Company Name: Thomas Moy and Sons Water Well Drilling Inc.
Company Address: 12323 N. St. Hwy. 123
CompanyAddress2:
Company City: Falls City
Company State: TX
Company Zip: 78113
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=555669&Type=SDR-Well>

Well Borehole Information

Top Depth: 0
Bottom Depth: 320

Top Depth:
Bottom Depth: 320.0

Well Levels

Measurement: 112
Measurement Date: 2020-10-01

Well Strata

Water Type:

Fresh

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
16	1 of 1	ENE	0.64 / 3,402.07	Edwardo Hernandez 11080 S. Foster Rd. San Antonio TX 78223	SDRW WELLS

Track NO: 344418
Date Submitted: 2013-10-24
Owner Name: Edwardo Hernandez
Owner Address: 11080 S. Foster Rd.
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.306945
Longitude: -98.365278
Drilling Date Started: 2013-10-20
Drilling Date Completed: 2013-10-23
Chemical Analysis: No
Company Name: TJ&TB Drilling
Company Address: 344 CR 305
CompanyAddress2:
Company City: Floresville
Company State: TX
Company Zip: 78114
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=344418&Type=SDR-Well>

Well Borehole Information

Top Depth: 0
Bottom Depth: 300

Top Depth:
Bottom Depth: 300.0

Well Levels

Measurement: 96
Measurement Date: 2013-10-24

Well Strata

Water Type:

WILCOX

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
17	1 of 1	W	0.68 / 3,603.06	DONALD COUER TX	TCEQ WELL LOGS

Grid No: 68-45-6S
Date Drilled: 09/06/1977
Owners Name: DONALD COUER
County: BEXAR
Water Usage: DOMESTIC
Static Level: 112
Depth Drilled: 204
Latitude: 29.303494
Longitude: -98.391913

Send original copy by certified mail to the Texas Water Development Board, P. O. Box 13087, Austin, Texas 78711

State of Texas

WATER WELL REPORT

For TWDB use only
Well No. 68-45-65
Located on map 425
Received: 7/7/77
dlf

1) OWNER:
Person having well drilled Donald Cover Address San Antonio - Texas
(Name) (Street or RFD) (City) (State)
Landowner Same Address _____
(Name) (Street or RFD) (City) (State)

2) LOCATION OF WELL:
County Bexar, 8 miles in South direction from San Antonio
(N.E., S.W., etc.) (Town)
Locate by sketch map showing landmarks, roads, creeks, or Give legal location with distances and directions from
highway number, etc. adjacent sections or survey lines.
Oil Comp. Encl. 11-24
11-37
North
(Use reverse side if necessary)

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Municipal ☐ Irrigation ☐ Test Well ☐ Other

5) TYPE OF WELL (Check):
☒ Rotary ☐ Driven ☐ Dug
☐ Cable ☐ Jetted ☐ Bored

6) WELL LOG:
Diameter of hole 7 7/8 in. Depth drilled 204 ft. Depth of completed well 204 ft. Date drilled Sept 6, 1977
All measurements made from 0 ft. above ground level.

From (ft.)	To (ft.)	Description and color of formation material
0 - 15	Surface	
15 - 22	Shale	
22 - 65	Sand w/ shale streaks	
65 - 80	Tight sand	
80 - 96	Shale w/ sand streaks	
96 - 99	good sand	
99 - 110	Shale w/ sand streaks	
110 - 135	firm sand	
135 - 169	Shale w/ sand streaks	
169 - 175	Shale	
175 - 204	good Sand	

9) Casing:
Type: Old ☒ Steel ☒ Plastic ☐ Other
Cemented from 0 ft. to 90 ft.
Diameter (inches) 5" Setting From (ft.) 0 To (ft.) 204
Basket set at 90 ft.
60' perforation 244-204

10) SCREEN:
Type: ☐ Perforated ☐ Slotted
Diameter (inches) 5" Setting From (ft.) 0 To (ft.) 204
Slot Size 1/8"

7) COMPLETION (Check):
☒ Straight well ☐ Gravel packed ☐ Other
☐ Under reamed ☐ Open Hole

8) WATER LEVEL:
Static level 112 ft. below land surface Date 9-6-77
Artesian pressure _____ lbs. per square inch Date _____
Depth to pump bowls, cylinder, jet, etc., _____ ft. below land surface.

11) WELL TESTS:
Was a pump test made? Yes ☒ No ☐ If yes, by whom? _____
Yield: 25 gpm with 30 ft. drawdown after 3 hrs.
Bailer test _____ gpm with _____ ft. drawdown after _____ hrs.
Artesian flow _____ gpm
Temperature of water _____

12) WATER QUALITY:
Was a chemical analysis made? Yes ☒ No ☐
Did any strata contain undesirable water? Yes ☒ No ☐
Type of water? _____ depth of strata _____

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
(Type or Print)
ADDRESS 309 W. Hutchins San Antonio Texas
(Street or RFD) (City) (State)
(Signed) Fernando E. Galindo Acc Pump. Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

*Additional instructions on reverse side.

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
18	1 of 1	SE	0.70 / 3,670.46	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		03/28/1984			
Owners Name:		TEXAS ICE HOUSE			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		96			
Depth Drilled:		300			
Latitude:		29.295758561502456			
Longitude:		-98.36803527472976			

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
Well No. 68-46-14
Located on map _____
Received: _____

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Texas Ice House Address 12291 Highway 1815 SA Tam 78221
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Brewer 12 miles in SE direction from San Antonio
(N.E., S.W., etc.) (Town)

☐ Legal description:
Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 3-28-84

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
	Surface	Surface
	7 7/8	Clay
	300	Sand
		Shale
		Rock
		Sand
		Shale
		Sand
		Shale
		Rock
		Sand
		Shale
		Sand
		Sandy Shale
		Shale
		gravel Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen type, commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	New	Plastic	0	300	
		Slotted	240	300	

CEMENTING DATA
Cemented from 240 ft. to 260 ft.
Method used Purged
Cemented by Case Pump Co.
(Company or individual)

9) WATER LEVEL:
Static level 96 ft. below land surface Date 3-24-84
Artesian flow _____ gpm. Date _____

10) PACKERS: Type _____ Depth 260'

11) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS:
☐ Type Test ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
Yield: 70 gpm with 20 ft. drawdown after 5 hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers' Registration No. 1766
(Type or Print)

ADDRESS 309 W. HUTCHINS SAN ANTONIO TAM 78221
(Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Acc Pump Co.
(Water Well Driller) (Company Name)

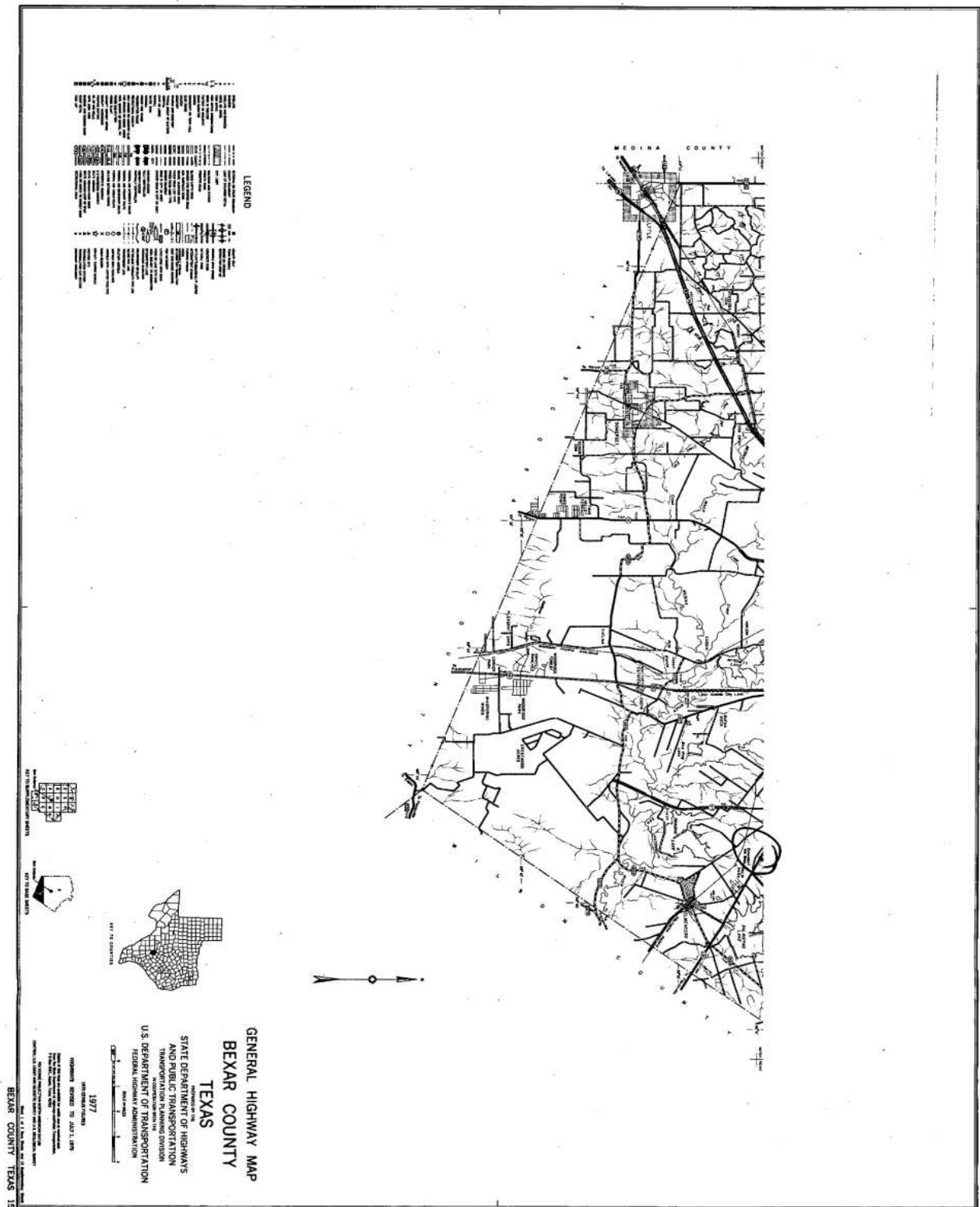
Please attach electric log, chemical analysis, and other pertinent information, if available.

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
19	1 of 1	ENE	0.73 / 3,855.89	Jaun Hernandez 11080 S.Foster Rd San Antonio TX 78223	SDRW WELLS

Track NO: 343769
Date Submitted: 2013-10-17
Owner Name: Jaun Hernandez
Owner Address: 11080 S.Foster Rd
Owner Address2:
Owner City: San Antonio
Owner State: TX
Owner Zip: 78223
County: Bexar
Type of Work: New Well
Typ of Wrk Oth Descr:
Proposed Use: Domestic
Prop Use Oth Descr:
Latitude: 29.307223
Longitude: -98.363889
Drilling Date Started: 2013-10-11
Drilling Date Completed: 2013-10-16
Chemical Analysis: No
Company Name: TJ & TB DRILLING
Company Address: 344 County rd 305
CompanyAddress2:
Company City: Floresville
Company State: TX
Company Zip: 78114
Company Country:
Data Source: Full SDR Database; SDRDB Well Location (Map)
Report Link: <https://www3.twdb.texas.gov/apps/waterdatainteractive/GetReports.aspx?Num=343769&Type=SDR-Well>

Well Borehole Information

Top Depth: 0
Bottom Depth: 290

Top Depth:
Bottom Depth: 290.0

Well Levels

Measurement: 100
Measurement Date: 2013-10-17

Well Strata

Water Type:

wilcox

Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
20	1 of 2	ESE	0.74 / 3,900.76	Wester Trails WSC TX	GWDB

Well Rep Track No:

State Well NO:

6846401

Owner Name:

Wester Trails WSC

Drilling Start Dt:

Drilling Month:

Drilling Day:

Drilling Year:

Well Depth:

400

Well Usage:

Water Level Status:

Latitude:

29.2983340

Longitude:

-98.3652780

Data Source:

Groundwater Database (GWDB) Reports; GIS shapefile of GWDB well locations

Well Info Report:

<https://www3.twdb.texas.gov/apps/waterdatainteractive//GetReports.aspx?Num=6846401&Type=GWDB>

Document Link:

<https://www3.twdb.texas.gov/apps/waterdatainteractive//GetScannedImage.aspx?Num=6846401&Cnty=Bexar>

Texas Water Development Board
Well Schedulegroundwater resources
GWR-2009State Well Number: **68-46-401** Previous Well Number: County: **Bexar** **29**Latitude (dms): **291754** Longitude (dms): **982155** Coordinate Accuracy: **Global Positioning System - GPS**River Basin: **San Antonio River** GMA: **13** RWPA: **L** GCD: **Edwards Aquifer Authority**Owner: **Wester Trails WSC**

Driller:

Aquifer ID: **Carrizo-Wilcox**Aquifer Code: **124CRRZ**Depth (ft): **400**Elevation (ft): **577****CARRIZO
SAND**Source of Depth: **Another Government
Agency**Source of Elevation: **Interpolated From
Topo Map**

Date Drilled:

Well Type: **Withdrawal of Water**Type of Lift: **Submersible Pump**Power: **Electric Motor**

Horsepower:

Construction:

Completion:

Casing Material:

Screen Material:

CASING INTERVALS:
Casing/Blank Pipe (C)
Well Screen/Slotted Zone (S)
Open Hole (O)Dia. Top Bottom
(in.) (ft.) (ft.)WATER USE

Primary:

Secondary:

Tertiary:

Water Levels: **None**Water Quality: **N**

Other Data:

Logs:

REMARKS:

Owners well #1. PWS ID #0150222.

Reporting Agency: **TWC/TNRCC/TCEQ**Date Collected or Reported: **09/03/2009**

Recorded by:

DR Jones

Thursday, September 03, 2009

State Well Number: **68-46-401***New*



**Texas Water Development Board
 Well Schedule**



State Well Number: **68-46-401** Previous Well Number: County: **Bexar** **29**

Latitude (dms): **291754** Longitude (dms): **982155** Coordinate Accuracy: **Global Positioning System - GPS**

River Basin: **San Antonio River** GMA: **13** RWPA: **L** GCD: **Edwards Aquifer Authority**

Owner: **Wester Trails WSC** Driller: Aquifer ID: **Carrizo-Wilcox**

Aquifer Code: **124CRRZ**

Depth (ft): **400**

Elevation (ft): **577**

**CARRIZO
 SAND**

Source of Depth: **Another Government
 Agency**

Source of Elevation: **Interpolated From
 Topo Map**

Date Drilled: Well Type: **Withdrawal of Water**

Type of Lift: **Submersible Pump** Power: **Electric Motor** Horsepower:

Construction: Completion:

Casing Material: Screen Material:

CASING INTERVALS:
 Casing/Blank Pipe (C)
 Well Screen/Slotted Zone (S)
 Open Hole (O)

Dia. (in.)	Top (ft.)	Bottom (ft.)

WATER USE

Primary: Secondary: Tertiary:

Water Levels: **None**

Water Quality: **N**

Other Data: Logs:

REMARKS:

Owners well #1. PWS ID #0150222.

Reporting Agency: **TWC/TNRCC/TCEQ**

Date Collected or Reported: **09/03/2009**

Recorded by: **DR Jones**

Thursday, September 03, 2009

State Well Number: **68-46-401**

New

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
20	2 of 2	ESE	0.74 / 3,900.76	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		06/04/1965			
Owners Name:		AL THOMS			
County:		BEXAR			
Water Usage:		MUNICIPAL			
Static Level:		NOT REPORTED			
Depth Drilled:		180			
Latitude:		29.29846143577288			
Longitude:		-98.36560653446588			

File original copy with
Texas Water Commission
P. O. Box 12311, Capitol Station
Austin, Texas 78711

State of Texas

DRILLERS LOG AND WELL DATA REPORT

For use by TWC only
Well No. 68-46-4B
Located on map 423
By 103 Date 4-25
Map no. 15(2)

1) Well Owner: AL THOMAS 2584 S.W.W. WATERS SAN ANTONIO TEX

2) Land Owner: _____

3) Intended use: Industrial ☐ Municipal ☐ Irrigation ☐ Other _____

4) Location of well: County BEAR Labor _____ League _____ Abstract No. _____

NW 1 NE 2 SW 3 SE 4 of Section _____ Block No. _____ Survey _____
(Circle as many as are known)

5 miles in 800th direction
from SAN ANTONIO
Town

FOSTER RD

LAGUNA RD

Sketch map of well location with distances from two section
or survey lines, and to landmarks, roads, and creeks.

Method of drilling: ROTARY Diameter of hole 8 in. Date drilled 6-4-65

DRILLERS LOG OF WELL

From (ft)		To (ft)		Description and color of formation material	From (ft)		To (ft)		Description and color of formation material
0	5			HARD PAN.					
5	50			SANDY SILTSTARS					
				SHALE					
50	90			SHALE					
90	100			SAND, W.					
100	155			SHALE					
155	180			SAND, W.					

(Use continuation sheets if necessary)

COMPLETION DATA

COMPLETION		CASING		SCREEN	
Straight wall ☐		Type: Old ☒ New ☐		Type <u>5/8" O.D. STEEL P.</u>	
Under reamed ☐		Cemented from <u>NONE</u> ft.		Perforated ☐	Slotted ☒
Gravel packed ☒		to _____ ft.			
Open hole ☐		Diameter (inches)	Setting from (ft) to (ft)	Diameter (inches)	Setting from (ft) to (ft)
Other _____		<u>5 1/2</u>	<u>SURFACE 180</u>	<u>5 1/2</u>	<u>160 180</u>

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

Fred M. Ashby Signature Ashby well drg & son Company Name Reg. No. 303

Please attach electric log, chemical analysis, and other pertinent information if available.

If well was tested by your company or if you installed the permanent pump please complete the following:

WATER LEVEL AND PUMP DATA

Static water level			Pump type	
ft. below	feet	gpm	Type power unit	
<u>90 ft</u>	<u>SURFACE</u>		<u>NO TEST</u>	
	hours		Horsepower	
			Depth to bowls, cylinder, jet, etc., _____ ft. below pump base.	

Name of contractor testing well or installing permanent pump if other than your company: POWER NOT AVAILABLE

C-34 (62-4)

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
21	1 of 1	ENE	0.81 / 4,273.74	TX	TCEQ WELL LOGS
Grid No:		68-46-4			
Date Drilled:		08/07/1989			
Owners Name:		JOHN WEBB			
County:		BEXAR			
Water Usage:		DOMESTIC			
Static Level:		131			
Depth Drilled:		300			
Latitude:		29.31020207761017			
Longitude:		-98.36381247190941			

Send original copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711		State of Texas WATER WELL REPORT		For TDWR use only Well No. <u>68-46-4</u> Located on map _____ Received: _____																																																										
ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side																																																														
1) OWNER <u>John Webb</u> (Name)		Address <u>10795 So Foster Rd. San Antonio, Tx. 78223</u> (Street or RFD) (City) (State) (Zip)																																																												
2) LOCATION OF WELL: County <u>Bexar</u> <u>1/2</u> miles in <u>Sw</u> direction from <u>Hilltop Txx</u> (Town)																																																														
Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.																																																														
☐ Legal description: Section No. _____ Block No. _____ Township _____ Abstract No. _____ Survey Name _____ Distance and direction from two intersecting section or survey lines <u>181 So and Foster Rd.</u> #3 ☐ See attached map. <u>0168-45-6</u>																																																														
3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging		4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____		5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____																																																										
6) WELL LOG: Date drilled <u>8/7/89</u>		DIAMETER OF HOLE Dia. (in.) From (ft.) To (ft.) <u>6 1/2</u> Surface <u>300</u>		7) BOREHOLE COMPLETION: ☐ Open Hole ☐ Straight Wall ☐ Underreamed ☒ Gravel Packed ☐ Other _____ If Gravel Packed give interval ... from <u>200</u> ft. to <u>300</u> ft.																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>Description and color of formation material</th> </tr> </thead> <tbody> <tr><td>0</td><td>2</td><td>Surface soil</td></tr> <tr><td>2 2</td><td>62</td><td>Red Shale</td></tr> <tr><td>62</td><td>64</td><td>Rock</td></tr> <tr><td>64</td><td>100</td><td>Broken brown shale & Sand</td></tr> <tr><td>100</td><td>146</td><td>Grey Sand</td></tr> <tr><td>146</td><td>174</td><td>Grey shale w/ sand streaks</td></tr> <tr><td>174</td><td>185</td><td>Blue sand</td></tr> <tr><td>185</td><td>187</td><td>Rock</td></tr> <tr><td>187</td><td>189</td><td>Blue shale</td></tr> <tr><td>189</td><td>191</td><td>Rock</td></tr> <tr><td>191</td><td>218</td><td>Blue shale</td></tr> <tr><td>218</td><td>264</td><td>Grey sand and shale</td></tr> <tr><td>264</td><td>298</td><td>Grey sand</td></tr> <tr><td>298</td><td>300</td><td>Blue shale</td></tr> </tbody> </table>		From (ft.)	To (ft.)	Description and color of formation material	0	2	Surface soil	2 2	62	Red Shale	62	64	Rock	64	100	Broken brown shale & Sand	100	146	Grey Sand	146	174	Grey shale w/ sand streaks	174	185	Blue sand	185	187	Rock	187	189	Blue shale	189	191	Rock	191	218	Blue shale	218	264	Grey sand and shale	264	298	Grey sand	298	300	Blue shale	8) CASING, BLANK PIPE, AND WELL SCREEN DATA: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Dia. (in.)</th> <th rowspan="2">New or Used</th> <th rowspan="2">Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial</th> <th colspan="2">Setting (ft.)</th> <th rowspan="2">Gage Casing Screen</th> </tr> <tr> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>N</td> <td>PVC</td> <td>18 Above</td> <td>300</td> <td>40</td> </tr> </tbody> </table>		Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen	From	To	4	N	PVC	18 Above	300	40
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			From	To																																																										
4	N	PVC	18 Above	300	40																																																									
		CEMENTING DATA Cemented from <u>0</u> ft. to <u>20</u> ft. Method used <u>Hand mixed</u> Cemented by <u>Hammett Water System</u> (Company or Individual)																																																												
		9) WATER LEVEL: Static level <u>131</u> ft. below land surface Date <u>8/7/89</u> Artesian flow _____ gpm. Date _____																																																												
		10) PACKERS: Type Depth																																																												
		11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____ Depth to pump bowls, cylinder, jet, etc., <u>252</u> ft.																																																												
13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No If yes, submit "REPORT OF UNDESIRABLE WATER" Type of water? _____ Depth of strata _____ Was a chemical analysis made? ☐ Yes ☒ No		12) WELL TESTS: ☐ Type Test ☐ Pump ☐ Bailor ☒ Jetted ☐ Estimated Yield: <u>90</u> gpm with <u>0</u> ft. drawdown after <u>5</u> hrs.																																																												
I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.																																																														
NAME <u>Victor E. Hammett</u> (Type or Print)		Water Well Drillers Registration No. <u>1171</u>																																																												
ADDRESS <u>12359 S. Hwy. 181 #4</u> (Street or RFD)		<u>San Antonio</u> (City)		<u>Texas</u> (State) <u>78223</u> (Zip)																																																										
(Signed) <u>Victor Hammett</u> (Water Well Driller)		<u>Hammett Water System</u> (Company Name)																																																												
Please attach electric log, chemical analysis, and other pertinent information, if available.																																																														

TDWR-0392 (Rev. 1-12-79)

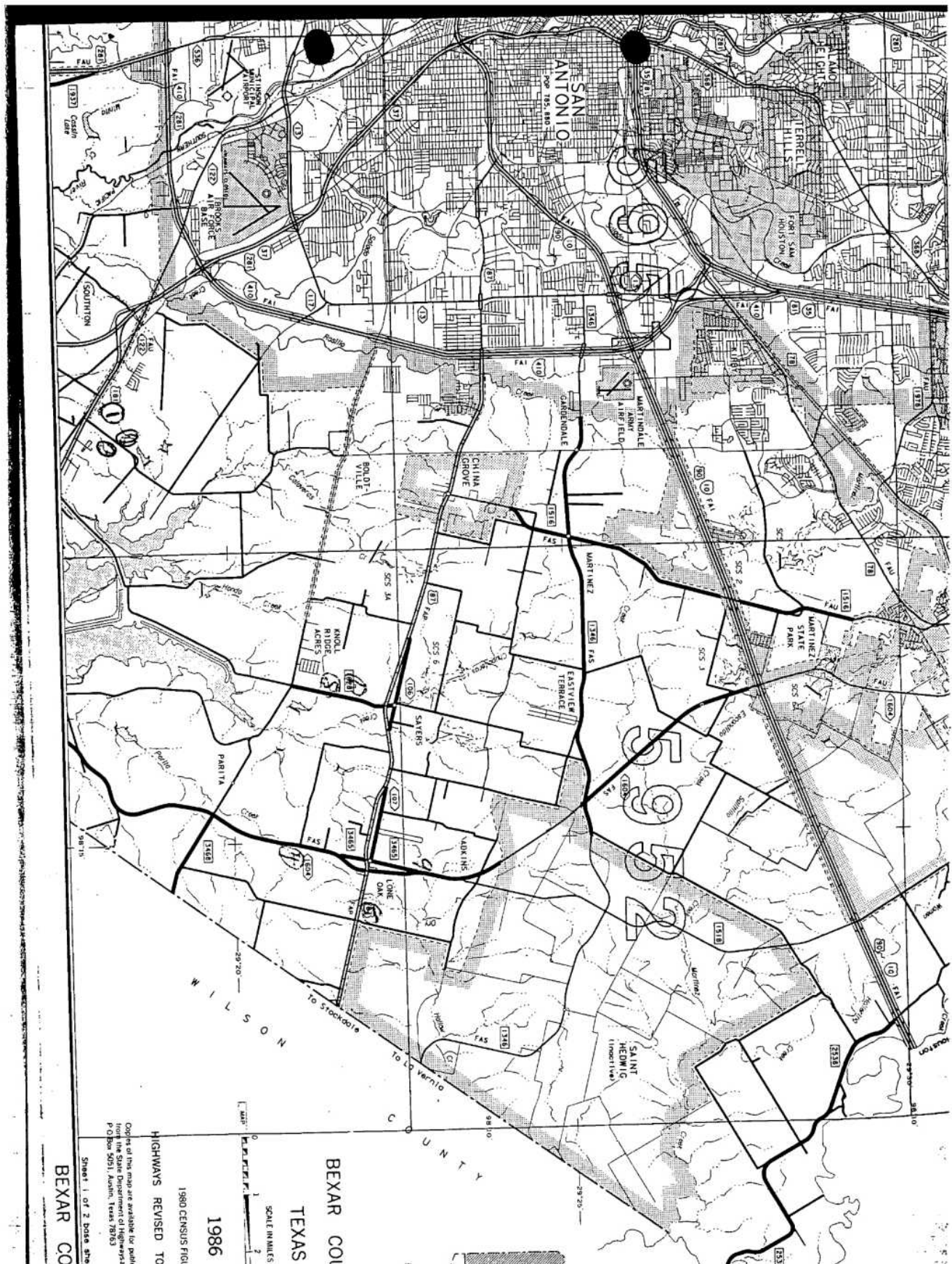
DEPARTMENT OF WATER RESOURCES COPY

**IMPORTANT NOTICE FOR PERSONS
HAVING WELLS DRILLED CONCERNING
PRIVILEGE OF CONFIDENTIALITY**

The Water Well Drillers Board and the Department of Water Resources are concerned that some persons having water wells drilled may not be aware of the confidentiality privilege provision of Section 5 of the Water Well Drillers Act. Section 5, the Reporting of Well Logs, reads as follows:

"Every registered water well driller drilling, deepening, or otherwise altering a water well within this State shall make and keep, or cause to be made and kept, a legible and accurate well log, and within sixty (60) days from the completion or cessation of drilling, deepening or otherwise altering such a water well, shall deliver or transmit by certified mail a copy of such well log to the Commission, and the owner thereof or the person having had such well drilled. The well log required herein shall at the request in writing to the Commission, by certified mail, by the owner or the person having such well drilled be held as confidential matter and not made of public record."

The last sentence specifies the means whereby you can, if you wish, assure that logs of your wells will be kept confidential. Please note that the term "Commission" in the above-quoted section and elsewhere in the Water Well Drillers Act now properly means the Texas Department of Water Resources (P. O. Box 13087; Austin, Texas 78711).



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
22	1 of 1	WNW	0.89 / 4,677.39	JOE KUNZE TX	TCEQ WELL LOGS

Grid No: 68-45-6T
Date Drilled: 06/29/1982
Owners Name: JOE KUNZE
County: BEXAR
Water Usage: DOMESTIC
Static Level: 92
Depth Drilled: 240
Latitude: 29.308568
Longitude: -98.39382

AUP

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
 Well No. 68-45-6T
 Located on map 465
 Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Joe Kunze Address Rt 12 Box 344 San Antonio Texas 78221
 (Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE direction from San Antonio
Well # 2 (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG: Date drilled 6-29-82

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
	Surface	240
0	6	Surface
6	30	Caliche white
30	70	Sandy shale
70	81	Shale
81	82	Rock
82	87	Sand
87	89	Rock
89	105	Sandy shale
105	130	Shale w/ shale streaks
130	137	Shale
137	144	Sand
144	151	Shale
151	155	Sand
155	182	Shale
182	198	Sand
198	201	Rock
201	240	Sand

7) BOREHOLE COMPLETION: ☐ Open Hole ☒ Straight Wall ☐ Underreamed ☐ Gravel Packed ☐ Other _____
 If Gravel Packed give interval ... from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	NEW	PVC Sch 40	0	240	

CEMENTING DATA
 Cemented from 0 ft. to 170 ft.
 Method used Pumped
 Cemented by Ace Pump Co. (Company or Individual)

9) WATER LEVEL: Static level 92 ft. below land surface Date 6-29-82
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 170

11) TYPE PUMP: ☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder ☐ Other _____
 Depth to pump bowls, cylinder, jet, etc., 200 ft.

12) WELL TESTS: ☐ Type Test ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
 Yield: 90 gpm with 30 ft. drawdown after 3 hrs.

13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
 If yes, submit "REPORT OF UNDESIRABLE WATER"
 Type of water? _____ Depth of strata _____
 Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
 (Type or Print)

ADDRESS 309 W. Hutchins San Antonio Texas 78221
 (Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Ace Pump Co.
 (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY



<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Site</i>	<i>DB</i>
23	1 of 1	WNW	0.97 / 5,106.79	LUTHER TOWNSEND TX	TCEQ WELL LOGS

Grid No: 68-45-6C
Date Drilled: 08/20/1982
Owners Name: LUTHER TOWNSEND
County: BEXAR
Water Usage: DOMESTIC
Static Level: 90
Depth Drilled: 220
Latitude: 29.309099
Longitude: -98.395024

DWP

Send orig. copy by certified mail to the Texas Department of Water Resources P. O. Box 13087 Austin, Texas 78711

State of Texas
WATER WELL REPORT

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

For TDWR use only
Well No. 68-45-6C
Located on map YES
Received: C.F.S.

1) OWNER Luther Townsend Address RT 1 Box 357CA San Antonio Texas 78223
(Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL:
County Bexar 6 miles in SE direction from San Antonio
(N.E., S.W., etc.) (Town)

☐ Legal description:
Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.
Section No. _____ Block No. _____ Township _____
Abstract No. _____ Survey Name _____
Distance and direction from two intersecting section or survey lines _____

☐ See attached map.

3) TYPE OF WORK (Check):
☒ New Well ☐ Deepening
☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check):
☒ Domestic ☐ Industrial ☐ Public Supply
☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check):
☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored
☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG:
Date drilled 8-20-82

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
7 7/8	Surface	220'
0	6	Surface
6	20	Sand shale
20	50	Shale
50	70	Sandy Shale
70	111	Shale
111	113	Rock
113	141	Sandy Shale
141	145	Sand
145	147	Rock
147	150	Sand
150	160	Rock
160	190	Sand
190	192	Rock
192	220	Sand

7) BOREHOLE COMPLETION:
☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	NEW	PVC Sch 40	0	220'	
		40' Perforation	180	220	

CEMENTING DATA
Cemented from 70 ft. to 100 ft.
Method used Pumped
Cemented by Ace Pump Co
(Company or Individual)

9) WATER LEVEL:
Static level 90 ft. below land surface Date 8-20-82
Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 100

11) TYPE PUMP:
☐ Turbine ☐ Jet ☒ Submersible ☐ Cylinder
☐ Other _____
Depth to pump bowls, cylinder, jet, etc., 200' ft.

12) WELL TESTS:
☐ Type Test: ☐ Pump ☐ Bailer ☒ Jetted ☐ Estimated
Yield: 80 gpm with 30 ft. drawdown after 3 hrs.

13) WATER QUALITY:
Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
If yes, submit "REPORT OF UNDESIRABLE WATER"
Type of water? _____ Depth of strata _____
Was a chemical analysis made? ☐ Yes ☒ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
(Type or Print)

ADDRESS 309 W. Hutchins San Antonio Texas 78221
(Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Ace Pump Co.
(Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY



Map Key	Number of Records	Direction	Distance (mi/ft)	Site	DB
24	1 of 1	WNW	0.97 / 5,131.46	JOE KUNZE TX	TCEQ WELL LOGS

Grid No: 68-45-6T
Date Drilled: 08/20/1982
Owners Name: JOE KUNZE
County: BEXAR
Water Usage: DOMESTIC
Static Level: 91
Depth Drilled: 220
Latitude: 29.30776
Longitude: -98.395757

SLP

Send original copy by certified mail to the Texas Department of Water Resources, P. O. Box 13087, Austin, Texas 78711

State of Texas
WATER WELL REPORT

For TDWR use only
 Well No. 68-45-67
 Located on map 105
 Received: C.F.S.

ATTENTION OWNER: Confidentiality Privilege Notice on Reverse Side

1) OWNER Soc. Kunze Address RT 12, Box 344 SAN ANTONIO, TEXAS 78221
 (Name) (Street or RFD) (City) (State) (Zip)

2) LOCATION OF WELL: County Bexar 4 miles in SE direction from SAN ANTONIO
Well #3 (N.E., S.W., etc.) (Town)

Driller must complete the legal description to the right with distance and direction from two intersecting section or survey lines, or he must locate and identify the well on an official Quarter- or Half-Scale Texas County General Highway Map and attach the map to this form.

☐ Legal description: Section No. _____ Block No. _____ Township _____
 Abstract No. _____ Survey Name _____
 Distance and direction from two intersecting section or survey lines _____
☐ See attached map.

3) TYPE OF WORK (Check): ☒ New Well ☐ Deepening ☐ Reconditioning ☐ Plugging

4) PROPOSED USE (Check): ☒ Domestic ☐ Industrial ☐ Public Supply ☐ Irrigation ☐ Test Well ☐ Other _____

5) DRILLING METHOD (Check): ☒ Mud Rotary ☐ Air Hammer ☐ Driven ☐ Bored ☐ Air Rotary ☐ Cable Tool ☐ Jetted ☐ Other _____

6) WELL LOG: Date drilled 8-20-82

DIAMETER OF HOLE		Description and color of formation material
Dia. (in.)	From (ft.) To (ft.)	
	Surface	220
0	6	Surface
6	15	Caliche white
15	35	Caliche yellow
35	49	Caliche red
49	65	Shale
65	77	Shale w/ sand str.
77	105	Sand
105	108	Rock
108	119	Shale w/ sand str.
119	123	Rock
123	146	Shale
146	173	Sand
173	179	Shale
179	206	Sand
206	220	Sand

7) BOREHOLE COMPLETION: ☐ Open Hole ☒ Straight Wall ☐ Underreamed
☐ Gravel Packed ☐ Other _____
 If Gravel Packed give interval . . . from _____ ft. to _____ ft.

8) CASING, BLANK PIPE, AND WELL SCREEN DATA:

Dia. (in.)	New or Used	Steel, Plastic, etc. Perf., Slotted, etc. Screen Mfg., if commercial	Setting (ft.)		Gage Casing Screen
			From	To	
5	Yes	PVC Sch 40	0	220	
		Slotted 40	180	220	

CEMENTING DATA
 Cemented from 0 ft. to 180 ft.
 Method used Pumped
 Cemented by Ace Pump Co.
 (Company or Individual)

9) WATER LEVEL: Static level 91 ft. below land surface Date 8-2-82
 Artesian flow _____ gpm. Date _____

10) PACKERS: Type Rubber Depth 130

11) TYPE PUMP: ☐ Turbine ☐ Jet ☐ Submersible ☐ Cylinder
☐ Other _____
 Depth to pump bowls, cylinder, jet, etc., _____ ft.

12) WELL TESTS: ☐ Type Test ☐ Pump ☐ Bailer ☐ Jetted ☐ Estimated
 Yield: 100 gpm with 30 ft. drawdown after 3 hrs.

13) WATER QUALITY: Did you knowingly penetrate any strata which contained undesirable water? ☐ Yes ☒ No
 If yes, submit "REPORT OF UNDESIRABLE WATER"
 Type of water? _____ Depth of strata _____
 Was a chemical analysis made? ☐ Yes ☐ No

I hereby certify that this well was drilled by me (or under my supervision) and that each and all of the statements herein are true to the best of my knowledge and belief.

NAME Fernando E. Galindo Water Well Drillers Registration No. 1766
 (Type or Print)

ADDRESS 309 W. Hutchins SAN ANTONIO TEXAS 78221
 (Street or RFD) (City) (State) (Zip)

(Signed) Fernando E. Galindo Ace Pump Co.
 (Water Well Driller) (Company Name)

Please attach electric log, chemical analysis, and other pertinent information, if available.

TDWR-0392 (Rev. 1-12-79)

DEPARTMENT OF WATER RESOURCES COPY



Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update.

Federal

Wells from NWIS:

[FED USGS](#)

The U.S. Geological Survey's National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS dataset contains select Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well, Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern.

Government Publication Date: Mar 21, 2022

State

Well Log Reports from Plotted Water Wells:

[TCEQ WELL LOGS](#)

Locations of TCEQ Water Wells as derived from well logs in the Texas Commission on Environmental Quality (TCEQ) Water Well Report Viewer, which includes unnumbered water wells and those plotted to 2.5 minute grid locations (2-3 miles). In this collection of Well Log Reports, locations have been manually verified.

Government Publication Date: Jul 26, 2022

Select Wells from SDR:

[SDRW WELLS](#)

Locations of wells from the Submitted Drillers Report (SDR) Database with select proposed usage: Domestic, Fracking Supply, Industrial, Irrigation, Other, Public Supply, Rig Supply, Stock, Unknown. SDR is populated from the online Texas Well Report Submission and Retrieval System (TWRSRS), a cooperative Texas Department of Licensing and Regulation (TDLR) and Texas Water Development Board (TWDB) application requiring registered water-well drillers to submit reports. Excludes SDR records with the following proposed usage: Closed-Loop Geothermal, De-watering, Environmental Soil Boring, Extraction, Injection, Monitor, Test Well.

Government Publication Date: Mar 6, 2023

Groundwater Database:

[GWDB](#)

The Texas Water Development Board (TWDB) Groundwater Database (GWDB) contains information on selected water wells, springs, oil/gas tests (that were originally intended to be or were converted to water wells), water levels and water quality.

Government Publication Date: Oct 19, 2022

Fort Bend Subsidence District Water Wells:

[WW FORT BEND](#)

List of water wells in the Fort Bend Subsidence District, boundaries of which are defined as all the territory within Fort Bend County. The Fort Bend Subsidence District was created by the Texas Legislature in 1989 as a conservation and reclamation district to control land subsidence and manage groundwater resources through regulation, conservation, and coordination with suppliers of alternative water sources to assure an adequate quantity and quality of water for the future. The District's purpose is to provide for the regulation of the withdrawal of groundwater within the District to prevent subsidence that contributes to flooding, inundation or overflow of areas within the District, including rising waters resulting from storms or hurricanes.

Government Publication Date: Nov 18, 2022

High Plains Water Wells:

[WW HIGH PLAINS](#)

Inventory of water wells in the High Plains Underground Water Conservation District No. 1 (HPUWCD), which was created in 1951. As a political subdivision of Texas, HPUWCD is charged with protecting, preserving and conserving aquifers within the District's 16-county service area.

Government Publication Date: Apr 20, 2022

Harris Galveston Subsidence District Water Wells:

[WW HARRIS GAL](#)

List of water wells in the Harris-Galveston Subsidence District (HGSD). The HGSD was created by the 64th Texas Legislature as an underground water conservation district in 1975 to provide regulation of groundwater withdrawal to control subsidence.

Water Utility Database:

[WUD](#)

The Water Utility Database is defined as a collection of data from Texas Water Districts, Public Drinking Water Systems and Water and Sewer Utilities who submit information to the TCEQ. This database is an integrated database designed and developed to replace over 160 stand alone legacy systems representing over 5 million records of the former Texas Water Commission and the Texas Department of Health.

Government Publication Date: Oct 1, 2020

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Attachment M

Soil Map, Information, Analyses and Annual Cropping Plan

Annual Cropping Plan

The sub-surface land application area is undeveloped land, restricted from public access, located adjacent to the mobile home park residences. Only native grasses are grown, no crops are harvested. The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. A site map indicating the location of the sub-surface irrigation area is provided in **Attachment H**.

- a. *A soils map depicting the location of the crops proposed or currently being grown.* These locations should be identified by field and crop on the soils map. #A map of the native soils is provided in **Attachment M**. No crops are grown or harvested.
- b. *All types of crops and acreage irrigated for each crop, including warm and cool season crops.* No crops are grown or harvested, only native grasses. The irrigation acreage is 2.18 acres.
- c. *Crop yield goals or estimates.* No crops are grown or harvested, only native grasses. The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area.
- d. *Growing seasons for each crop including months the field is left fallow (no crops).* No crops are grown or harvested, only native grasses. Native grasses cover the entire area year-long.
- e. *Nutrient requirements for each crop, including additional fertilizer requirements for each crop, proposed additional fertilizer applications for each crop, and methods of fertilizer application for each crop, based on annual soil sampling and analysis.* No crops are grown or harvested, only native grasses. No fertilizers are applied to the irrigation area. See **Attachment M** for results of soil analyses. The soil analyses did not specify the need for addition of any fertilizers.
- f. *Provide the minimum and maximum harvest height for the crop (e.g., mowing height of grasses).* No crops are grown or harvested, only native grasses. #The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area.
- g. *Supplemental watering requirements for each crop.* No additional watering is provided for the irrigation area. All required water is provided through precipitation and sub-surface irrigation.
- h. *Salt tolerances of each crop.* No crops are grown or harvested, only native grasses. The salt tolerance is assumed to be similar to Bermuda Grass.
- i. *Describe the harvesting method and the proposed number of harvests for each crop.* No crops are grown or harvested, only native grasses. The native grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area.
- j. *If the proposed crop is existing native vegetation that will not be harvested, include a justification that the non-removal of crops will not lead to a buildup in nutrients.* The site is existing native vegetation that is not harvested but mown on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. The site has been in operation as originally constructed since the early 1980's. Soil analyses are provided in **Attachment M** and indicate that the site soil salinity and SAR levels are low, indicating that nutrients are not appreciatively accumulating in the application area.

*If the proposed system is drip irrigation with a proposal to use the existing forested vegetation as a crop, then provide a vegetation survey by a certified arborist describing at a minimum: (1) the number of mature ashe juniper (*Juniperus ashei*) and oaks (*Quercus virginiana*) trees per acre, (2) the number of other trees per acre, (3) percent of overstory canopy cover, (4) the extent of open spaces, and (5) areas with forbs and grasses expressed as percent of the land of each application site. A mature tree is one with a minimum height of 14 feet. **Not Applicable, not a drip irrigation system.***



Report generated for:
 Braun Intertec - Janice King
 Aztec Estates
 2105 Donley Dr, Ste 400
 AUSTIN, TX 78758

Bexar County
 Laboratory Number: 635406
 Customer Sample ID: BM-01 0-6"
 Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
 Department of Soil and Crop Sciences
 2478 TAMU
 College Station, TX 77843-2478
 979-845-4816 (phone)
 979-845-5958 (FAX)
 Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
 Printed on: 6/30/2023
 Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.6	(5.8)	-	Slightly Alkaline						
Conductivity	95	(-)	umho/cm	None						
Nitrate-N	14	(-)	ppm**	CL+ Fertilizer Recommended						
Phosphorus	31	(0)	ppm							
Potassium	398	(0)	ppm							
Calcium	3,375	(180)	ppm							
Magnesium	215	(50)	ppm							
Sulfur	33	(13)	ppm							
Sodium	23	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.8						
				Conductivity 0.77 mmhos/cm						
				Sodium 27 ppm 1.196 meq/L						
				Potassium 37 ppm 0.948 meq/L						
				Calcium 110 ppm 5.476 meq/L						
TKN	1229	ppm	Magnesium 11 ppm 0.878 meq/L							
TN	1514	ppm	SAR 0.67							
Ammonium-N	4.5	ppm	SSP 14.07							

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635407
Customer Sample ID: BM-01 6-18"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.7	(5.8)	-	Mod. Alkaline						
Conductivity	122	(-)	umho/cm	None						
Nitrate-N	8	(-)	ppm**	CL* Fertilizer Recommended						
Phosphorus	5	(0)	ppm							
Potassium	292	(0)	ppm							
Calcium	3,730	(180)	ppm							
Magnesium	291	(50)	ppm							
Sulfur	33	(13)	ppm							
Sodium	58	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH		7.0				
				Conductivity		0.53 mmhos/cm				
				Sodium		44 ppm		1.910 meq/L		
				Potassium		14 ppm		0.355 meq/L		
				Calcium		32 ppm		1.599 meq/L		
TKN	639		ppm	Magnesium		4 ppm		0.368 meq/L		
TN	784		ppm	SAR		1.93				
Ammonium-N	3.1		ppm	SSP		45.15				

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635408
Customer Sample ID: BM-01 18-30"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.8	(5.8)	-	Mod. Alkaline						
Conductivity	946	(-)	umho/cm	Moderate				CL*		Fertilizer Recommended
Nitrate-N	3	(-)	ppm**							
Phosphorus	0	(0)	ppm							
Potassium	175	(0)	ppm							
Calcium	6,201	(180)	ppm							
Magnesium	428	(50)	ppm							
Sulfur	534	(13)	ppm							
Sodium	264	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH		6.9				
				Conductivity		3.61 mmhos/cm				
				Sodium		205 ppm		8.900 meq/L		
				Potassium		19 ppm		0.487 meq/L		
				Calcium		550 ppm		27.448 meq/L		
				Magnesium		62 ppm		5.078 meq/L		
TKN	483	ppm								
TN	640	ppm								
Ammonium-N	2.6	ppm								
				SAR		2.21				
				SSP		21.23				

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635409
Customer Sample ID: BM-02 0-6"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
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979-845-5958 (FAX)
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Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.0	(5.8)	-	Neutral						
Conductivity	125	(-)	umho/cm	None						
Nitrate-N	7	(-)	ppm**	CL*						
Phosphorus	58	(0)	ppm							
Potassium	303	(0)	ppm							
Calcium	3,685	(180)	ppm							
Magnesium	217	(50)	ppm							
Sulfur	35	(13)	ppm							
Sodium	16	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.6						
				Conductivity 0.79 mmhos/cm						
				Sodium 23 ppm 0.991 meq/L						
				Potassium 26 ppm 0.669 meq/L						
				Calcium 110 ppm 5.476 meq/L						
TKN	1518	ppm	Magnesium 12 ppm 0.952 meq/L							
TN	1968	ppm	SAR 0.55							
Ammonium-N	4.8	ppm	SSP 12.25							

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

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<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635410
Customer Sample ID: BM-02 6-18"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
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979-845-5958 (FAX)
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Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.		
pH	7.3	(5.8)	-	Slightly Alkaline								
Conductivity	64	(-)	umho/cm	None					CL+		Fertilizer Recommended	
Nitrate-N	3	(-)	ppm**									
Phosphorus	36	(0)	ppm									
Potassium	166	(0)	ppm									
Calcium	2,645	(180)	ppm									
Magnesium	200	(50)	ppm									
Sulfur	25	(13)	ppm									
Sodium	30	(-)	ppm									
Iron												
Zinc												
Manganese												
Copper												
Boron												
Limestone Requirement												
				Detailed Salinity Test (Saturated Paste Extract)								
				pH					6.7			
				Conductivity					0.52		mmhos/cm	
				Sodium					30		ppm 1.312 meq/L	
				Potassium					10		ppm 0.266 meq/L	
				Calcium					50		ppm 2.511 meq/L	
TKN	684		ppm	Magnesium					7		ppm 0.548 meq/L	
TN	849		ppm	SAR					1.06			
Ammonium-N	4.3		ppm	SSP					28.29			

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635411
Customer Sample ID: BM-02 18-30"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.3	(5.8)	-	Slightly Alkaline						
Conductivity	144	(-)	umho/cm	None						
Nitrate-N	4	(-)	ppm**	CL*						
Phosphorus	6	(0)	ppm	Fertilizer Recommended						
Potassium	174	(0)	ppm							
Calcium	3,182	(180)	ppm							
Magnesium	407	(50)	ppm							
Sulfur	29	(13)	ppm							
Sodium	83	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.6						
				Conductivity 0.53 mmhos/cm						
				Sodium 39 ppm 1.703 meq/L						
				Potassium 5 ppm 0.133 meq/L						
				Calcium 37 ppm 1.866 meq/L						
TKN	368	ppm	Magnesium 6 ppm 0.464 meq/L							
TN	741	ppm	SAR 1.58							
Ammonium-N	3.5	ppm	SSP 40.88							

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635412
Customer Sample ID: ALF-1N 0-6"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.	
pH	7.3	(5.8)	-	Slightly Alkaline							
Conductivity	325	(-)	umho/cm	None					CL*		Fertilizer Recommended
Nitrate-N	14	(-)	ppm**								

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635413
Customer Sample ID: ALF-1N 6-18"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.5	(5.8)	-	Slightly Alkaline						
Conductivity	178	(-)	umho/cm	None						
Nitrate-N	8	(-)	ppm**	CL*						
Phosphorus	21	(0)	ppm	Fertilizer Recommended						
Potassium	211	(0)	ppm							
Calcium	3,724	(180)	ppm							
Magnesium	379	(50)	ppm							
Sulfur	48	(13)	ppm							
Sodium	66	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.9						
				Conductivity 1.03 mmhos/cm						
				Sodium 44 ppm 1.905 meq/L						
				Potassium 11 ppm 0.282 meq/L						
				Calcium 99 ppm 4.931 meq/L						
				Magnesium 14 ppm 1.138 meq/L						
TKN	1545	ppm								
TN	679	ppm								
Ammonium-N	3.5	ppm								
				SAR 1.09						
				SSP 23.07						

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>



Report generated for:
 Braun Intertec - Janice King
 Aztec Estates
 2105 Donley Dr, Ste 400
 AUSTIN, TX 78758

Bexar County
 Laboratory Number: 635414
 Customer Sample ID: ALF-1N 18-30"
 Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
 Department of Soil and Crop Sciences
 2478 TAMU
 College Station, TX 77843-2478
 979-845-4816 (phone)
 979-845-5958 (FAX)
 Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
 Printed on: 6/30/2023
 Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.8	(5.8)	-	Mod. Alkaline						
Conductivity	264	(-)	umho/cm	None						
Nitrate-N	4	(-)	ppm**	CL+ Fertilizer Recommended						
Phosphorus	22	(0)	ppm							
Potassium	178	(0)	ppm							
Calcium	5,855	(180)	ppm							
Magnesium	461	(50)	ppm							
Sulfur	66	(13)	ppm							
Sodium	109	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 7.0						
				Conductivity 0.94 mmhos/cm						
				Sodium 59 ppm 2.574 meq/L						
				Potassium 8 ppm 0.203 meq/L						
				Calcium 100 ppm 4.992 meq/L						
TKN	469	ppm	Magnesium 14 ppm 1.139 meq/L							
TN	554	ppm	SAR 1.47							
Ammonium-N	3.2	ppm	SSP 28.89							

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635415
Customer Sample ID: ALF-15-2-7-8 0-6"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.5	(5.8)	-	Slightly Alkaline						
Conductivity	118	(-)	umho/cm	None						
Nitrate-N	9	(-)	ppm**	CL+						
Phosphorus	68	(0)	ppm	Fertilizer Recommended						
Potassium	362	(0)	ppm							
Calcium	4,965	(180)	ppm							
Magnesium	292	(50)	ppm							
Sulfur	48	(13)	ppm							
Sodium	27	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH						
				6.9						
				Conductivity						
				1.10 mmhos/cm						
				Sodium						
				32 ppm						
				1.402 meq/L						
				Potassium						
				32 ppm						
				0.812 meq/L						
				Calcium						
				125 ppm						
				6.219 meq/L						
				Magnesium						
				16 ppm						
				1.311 meq/L						
TKN	1072		ppm							
TN	1332		ppm							
Ammonium-N	4.1		ppm							
				SAR						
				0.72						
				SSP						
				14.39						

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>



Report generated for:
 Braun Intertec - Janice King
 Aztec Estates
 2105 Donley Dr, Ste 400
 AUSTIN, TX 78758

Bexar County
 Laboratory Number: 635416
 Customer Sample ID: ALF-15-2-7-8 6-18"
 Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
 Department of Soil and Crop Sciences
 2478 TAMU
 College Station, TX 77843-2478
 979-845-4816 (phone)
 979-845-5958 (FAX)
 Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
 Printed on: 6/30/2023
 Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.6	(5.8)	-	Mod. Alkaline						
Conductivity	189	(-)	umho/cm	None						
Nitrate-N	5	(-)	ppm**	CL+ Fertilizer Recommended						
Phosphorus	36	(0)	ppm							
Potassium	249	(0)	ppm							
Calcium	4,824	(180)	ppm							
Magnesium	334	(50)	ppm							
Sulfur	92	(13)	ppm							
Sodium	69	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.8						
				Conductivity 1.56 mmhos/cm						
				Sodium 61 ppm 2.644 meq/L						
				Potassium 17 ppm 0.422 meq/L						
				Calcium 225 ppm 11.211 meq/L						
				Magnesium 24 ppm 1.972 meq/L						
TKN	601	ppm								
TN	674	ppm		SAR 1.03						
Ammonium-N	3.0	ppm		SSP 16.27						

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635417
Customer Sample ID: ALF-15-2-7-8 18-30"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.6	(5.8)	-	Mod. Alkaline						
Conductivity	301	(-)	umho/cm	None						
Nitrate-N	12	(-)	ppm**	CL*						
Phosphorus	49	(0)	ppm	Fertilizer Recommended						
Potassium	184	(0)	ppm							
Calcium	5,144	(180)	ppm							
Magnesium	428	(50)	ppm							
Sulfur	143	(13)	ppm							
Sodium	133	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.9						
				Conductivity 1.94 mmhos/cm						
				Sodium 93 ppm 4.035 meq/L						
				Potassium 10 ppm 0.244 meq/L						
				Calcium 303 ppm 15.119 meq/L						
				Magnesium 33 ppm 2.699 meq/L						
TKN	489	ppm								
TN	533	ppm								
Ammonium-N	2.7	ppm								

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635418
Customer Sample ID: ILF-3-4-5-9 0-6"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.0	(5.8)	-	Slightly Acid						
Conductivity	105	(-)	umho/cm	None						
Nitrate-N	9	(-)	ppm**	CL+ Fertilizer Recommended						
Phosphorus	32	(0)	ppm							
Potassium	385	(0)	ppm							
Calcium	3,395	(180)	ppm							
Magnesium	252	(50)	ppm							
Sulfur	33	(13)	ppm							
Sodium	17	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.8						
				Conductivity 0.81 mmhos/cm						
				Sodium 25 ppm 1.085 meq/L						
				Potassium 37 ppm 0.942 meq/L						
				Calcium 113 ppm 5.651 meq/L						
TKN	1524	ppm	Magnesium 16 ppm 1.285 meq/L							
TN	1889	ppm	SAR 0.58							
Ammonium-N	5.0	ppm	SSP 12.10							

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635419
Customer Sample ID: ILF-3-4-5-9 6-18"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.0	(5.8)	-	Neutral						
Conductivity	103	(-)	umho/cm	None						
Nitrate-N	5	(-)	ppm**	CL*						
Phosphorus	6	(0)	ppm	Fertilizer Recommended						
Potassium	248	(0)	ppm							
Calcium	3,790	(180)	ppm							
Magnesium	288	(50)	ppm							
Sulfur	30	(13)	ppm							
Sodium	31	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 6.8						
				Conductivity 0.56 mmhos/cm						
				Sodium 22 ppm 0.946 meq/L						
				Potassium 13 ppm 0.329 meq/L						
				Calcium 57 ppm 2.869 meq/L						
TKN	565	ppm	Magnesium 9 ppm 0.753 meq/L							
TN	661	ppm	SAR 0.70							
Ammonium-N	3.4	ppm	SSP 19.32							

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Report generated for:
Braun Intertec - Janice King
Aztec Estates
2105 Donley Dr, Ste 400
AUSTIN, TX 78758

Bexar County
Laboratory Number: 635421
Customer Sample ID: ILF-3-4-5-9 18-30"
Crop Grown: NO CROP GIVEN

Soil Analysis Report

Soil, Water and Forage Testing Laboratory
Department of Soil and Crop Sciences
2478 TAMU
College Station, TX 77843-2478
979-845-4816 (phone)
979-845-5958 (FAX)
Visit our website: <http://soiltesting.tamu.edu>

Sample received on: 6/20/2023
Printed on: 6/30/2023
Area Represented: not provided

Analysis	Results	CL*	Units	ExLow	VLow	Low	Mod	High	VHigh	Excess.
pH	7.7	(5.8)	-	Mod. Alkaline						
Conductivity	205	(-)	umho/cm	None						
Nitrate-N	3	(-)	ppm**	CL*						
Phosphorus	1	(0)	ppm	Fertilizer Recommended						
Potassium	228	(0)	ppm							
Calcium	6,541	(180)	ppm							
Magnesium	462	(50)	ppm							
Sulfur	45	(13)	ppm							
Sodium	65	(-)	ppm							
Iron										
Zinc										
Manganese										
Copper										
Boron										
Limestone Requirement										
				Detailed Salinity Test (Saturated Paste Extract)						
				pH 7.0						
				Conductivity 0.53 mmhos/cm						
				Sodium 36 ppm 1.585 meq/L						
				Potassium 7 ppm 0.173 meq/L						
				Calcium 36 ppm 1.809 meq/L						
				Magnesium 6 ppm 0.496 meq/L						
TKN	565	ppm	SAR 1.48							
TN	553	ppm	SSP 39.02							
Ammonium-N	3.3	ppm								

*CL=Critical level is the point which no additional nutrient (excluding nitrate-N, sodium and conductivity) is recommended. **ppm=mg/kg

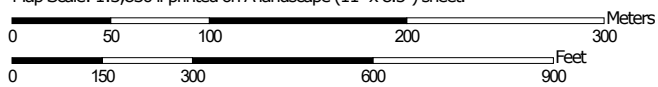
New online fertilizer calculators have been placed on the laboratory's website to determine appropriate fertilizers to purchase and determine their application rates.
<http://soiltesting.tamu.edu/webpages/calculator.html>

Soil Map—Bexar County, Texas



Soil Map may not be valid at this scale.

Map Scale: 1:3,830 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 14N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

7/25/2024
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

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

Date(s) aerial images were photographed: Dec 3, 2020—Dec 9, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CfA	Miguel fine sandy loam, 0 to 1 percent slopes	9.9	34.4%
CfB	Miguel fine sandy loam, 1 to 3 percent slopes	8.3	28.8%
WbB	Floresville fine sandy loam, 1 to 3 percent slopes	5.1	17.5%
WeC2	Floresville fine sandy loam, 1 to 5 percent slopes, eroded	5.6	19.3%
Totals for Area of Interest		28.9	100.0%

Bexar County, Texas

CfA—Miguel fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2wt09

Elevation: 300 to 850 feet

Mean annual precipitation: 27 to 35 inches

Mean annual air temperature: 70 to 72 degrees F

Frost-free period: 270 to 300 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Miguel and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Miguel

Setting

Landform: Low hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy and/or clayey residuum weathered from sandstone and/or mudstone

Typical profile

A - 0 to 11 inches: fine sandy loam

Bt - 11 to 33 inches: sandy clay

Btk - 33 to 43 inches: sandy clay loam

BC - 43 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 30.0

Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Minor Components

Wilco

Percent of map unit: 2 percent

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Leming

Percent of map unit: 2 percent

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Tiocano

Percent of map unit: 1 percent

Landform: Depressions

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R083AY007TX - Lakebed

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

CfB—Miguel fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wt0c

Elevation: 200 to 850 feet

Mean annual precipitation: 27 to 35 inches

Mean annual air temperature: 70 to 72 degrees F

Frost-free period: 270 to 300 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Miguel and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Miguel

Setting

Landform: Low hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy and/or clayey residuum weathered from sandstone and/or mudstone

Typical profile

A - 0 to 11 inches: fine sandy loam

Bt - 11 to 33 inches: sandy clay

Btk - 33 to 43 inches: sandy clay loam

BC - 43 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 30.0

Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Minor Components

Bryde

Percent of map unit: 2 percent

Landform: Low hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Wilco

Percent of map unit: 2 percent

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Tiocano

Percent of map unit: 1 percent

Landform: Depressions

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R083AY007TX - Lakebed

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

WbB—Floresville fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2sf5h

Elevation: 240 to 790 feet

Mean annual precipitation: 26 to 32 inches

Mean annual air temperature: 70 to 74 degrees F

Frost-free period: 275 to 300 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Floresville and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floresville

Setting

Landform: Ridges

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Loamy residuum weathered from sandstone

Typical profile

A - 0 to 10 inches: fine sandy loam

Bt - 10 to 30 inches: clay

Bk - 30 to 44 inches: sandy clay loam

BCK - 44 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Minor Components

Miguel

Percent of map unit: 3 percent
Landform: Terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY024TX - Tight Sandy Loam
Hydric soil rating: No

Wilco

Percent of map unit: 2 percent
Landform: Paleoterraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R083AY022TX - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Bexar County, Texas
Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

WeC2—Floresville fine sandy loam, 1 to 5 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2sxt^r

Elevation: 240 to 790 feet

Mean annual precipitation: 26 to 32 inches

Mean annual air temperature: 70 to 74 degrees F

Frost-free period: 275 to 300 days

Farmland classification: Not prime farmland

Map Unit Composition

Floresville, eroded, and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floresville, Eroded

Setting

Landform: Ridges

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy residuum weathered from sandstone

Typical profile

A - 0 to 6 inches: fine sandy loam

Bt - 6 to 30 inches: clay

Bk - 30 to 44 inches: sandy clay loam

BCK - 44 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Minor Components

Miguel

Percent of map unit: 3 percent

Landform: Terraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Wilco

Percent of map unit: 2 percent

Landform: Paleoterraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

Attachment N
Engineering Report

Engineering Technical Report

Aztec Estates Mobile Home Park
11704 South Highway 181
San Antonio, Texas

Prepared For

Capstone Property Management, LLC

Prepared By

Braun Intertec Corporation

Project B2303494
August 7, 2024

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Appendices

Appendix A: References

Attachments

Attachment A: USGS Topographic Map

Attachment B: Site Map

1.0 Introduction and Background

Braun Intertec Corporation prepared this engineering technical report for the Aztec Estates Mobile Home Park (MHP) located at 11704 South US Highway 181 in San Antonio, Texas (Site). The Aztec MHP is an existing facility that has been in operation since the 1980's. The MHP consists of eighty-nine (89) structures, consisting of:

- 1 Brick House
- 3 Apartments
- 1 Beauty Shop
- 84 individual mobile home lots.

The facility currently utilizes a domestic wastewater treatment system consisting of multiple individual dual chamber septic tanks and gravity drainage from the septic tanks to multiple sub-surface irrigation fields located on an undeveloped portion of the property. The sub-surface irrigation fields are equipped with looped lateral lines that distribute pre-treated domestic wastewater to underlying soils for absorption and final treatment. The lateral lines consist of perforated 4-inch plastic or clay lines laid in excavated trenches with underlying gravel beds, or in some cases, 4-inch gravel-less HDPE chambers. Native soils cover the excavated trenches. Pre-treated wastewater enters the trenches from a series of individual septic tanks located throughout the property by gravity flow. The wastewater is then distributed through the slotted pipe or chambers to surrounding soils, where absorption and final treatment and disposal is achieved.

The domestic wastewater treatment system has not been previously permitted by the Texas Commission on Environmental Quality (TCEQ). The facility was originally permitted by Bexar County, commencing in 1975. However, as a result of a TCEQ investigation conducted at the site in 2016, the prior owner was issued an enforcement action (Docket No. 2016-1035-MWD-E) on August 8, 2018, that required the facility to obtain a TCEQ permit for the wastewater system within 365 days of the effective date of the order. The prior property owner believed that the system was exempt from TCEQ permitting, since it had been permitted through the County, and was grandfathered from current On Site Septic Systems (OSSF) regulations due to its construction date. However, the TCEQ found that repairs made to the system over time invalidated that exemption, requiring permitting. The daily average flow to the system exceeds 5,000 gallons/day, which requires permitting under the Texas Land Application (TLAP) system, as either a Class V injection well or a sub-surface irrigation system.

The property was subsequently sold to a new owner in 2021, Capstone Property Management, LLC (Capstone, CN606026169, RN106656671). As the new owner, discussions were held with the TCEQ regarding how to permit the facility. Originally, Capstone was told that this facility could be permitted as a Class V injection well. The application for a Class V injection well was submitted on August 21, 2023,

and subsequently withdrawn on February 12, 2024 in order to remove one of the existing sub-surface application areas serving 1 apartment that was determined based on tax records to be not on the owner's property. Wastewater discharges from this apartment were connected to one of the existing large sub-surface irrigation areas. The intent is to resubmit the revised TLAP/Class V injection well permit application by August 9, 2024. The system currently operates based on gravity drainage, but the owner is amenable to installing pumps in several of the septic tanks to achieve even distribution, if required by the TCEQ. Therefore, this report was developed in general conformance with 30 Texas Administrative Code (TAC) § 309.20 (a) and (b) to support the land application of sewage effluent from the development.

1.1 Site Information

Site information was obtained from the property owner and from observations made during the Site reconnaissance, a review of readily available documents and online information sources and from site investigations performed.

1.2 Site Location

A United States Geological Survey (USGS) Topographic Map is attached as **Attachment A**. The Site is comprised of seven platted parcels and a portion of an eighth parcel. Relevant Site information obtained from the Bexar County Appraisal District website and from other sources is summarized below.

Address:	11704 South US Highway 181 (approx. 28 ac.) 11740 & 11770 South US Highway 181 (approx. 2.3 ac)
City:	San Antonio
County:	Bexar
State:	Texas
Latitude:	29°18'14" N
Longitude:	98°22'41" W
Size:	~30 acres

2.0 Physical Setting

The purpose of the physical setting review is to provide information about the physical setting of the Site in order to aid in the evaluation of both physical characteristics of the Site and additional attribute data, which is useful in assessing the impact of migration of contaminants and subsequent impact on soils and/or groundwater.

2.1 Geology

According to the Geologic Atlas of Texas San Antonio Sheet (1974), the underlying geologic unit at the Site is the Wilcox Group which consists of mostly mudstones and various amounts of sandstone, lignite, glauconitic sands, and conglomerate. The thickness of the Wilcox Group ranges from 440 feet to 1,200 feet and forms part of the Carrizo-Wilcox Aquifer. According to the Texas Water Development Board (TWDB) Groundwater Viewer, the Site is in the outcropping portion of the Carrizo-Wilcox Aquifer (TWDB 2023). Water wells within a 1-mile radius of the Site are producing water from depths ranging from 156 to 694 feet below ground surface (bgs). The Carrizo-Wilcox Aquifer is a major aquifer extending parallel to the Gulf Coast from Louisiana to the border of Mexico and is primarily composed of sand locally interbedded with gravel, silt, clay, and lignite. The Carrizo-Wilcox Aquifer reaches 3,000 feet in thickness, however, much of the water is brackish and the freshwater saturated thickness of the sand's averages 670 feet.

2.2 Soil

The United States Department of Agriculture (USDA) National Resource Conservation Service (NRCS) website was reviewed to obtain soil information regarding the Site. According to the NRCS, the soil at the Site consists of fine sandy loam of the Miguel unit and Floresville Unit.

3.0 Groundwater Quality

San Antonio Water System (SAWS) utilizes primarily groundwater resources to provide potable water to the City of San Antonio and the surrounding area, including the Site. The area is also under the jurisdiction of the South-Central Texas Regional Water Planning Area, Groundwater Management Area 13, and the Edwards Aquifer Authority Groundwater Conservation District. The majority of domestic raw groundwater supply provided by SAWS comes from wells completed in the Edwards Aquifer in the northwestern portion of Bexar County.

SAWS does not provide area specific water quality data, but it does provide the highest levels of contaminants recorded at different sites in an annual water quality report. In a 2023 Water Quality Report, SAWS stated that no *Escherichia coli* bacteria were observed in the sampled drinking water in their distribution systems. The highest nitrate concentration observed in their monitored water plants was 2.51 parts per million (ppm) while the average chlorine concentration observed in their water distribution system was 1.478 ppm; total dissolved solids (TDS), sulfates, and pH data were not provided in the Water Quality Report.

3.1 Water Wells

The TWDB Groundwater Viewer, Texas Commission of Environmental Quality (TCEQ) Water Well Report Viewer, and the USGS National Water Information System (NWIS) Mapper were reviewed to identify water wells within a 1-mile radius of the Site in conjunction with the Map and Well Information provided in Worksheet 3, Section 6. Twenty-seven water wells were identified: two plugged water wells (formally located at the Site), two irrigation wells, one water supply well, one municipal well, and twenty-one domestic-use wells; of these 27 wells, 12 are located within a 0.5-mile radius of the Site.

Water quality information for these wells was not available for review. The identified wells were drilled to depths ranging from 156 to 694 feet bgs and were completed in the Wilcox Group. Limited boring log information showed that the underlying geology consisted of interbeds of shale, clay, and sand. The static water levels for the wells ranged from 85 to 160 feet bgs, which are elevations above their respected screened intervals indicating semi-confined to confined conditions. The yields of the identified wells were recorded ranging from 20 to 80 gallons per minute (GPM).

No monitoring wells were identified within 1-mile radius of the Site during the review. Pre-operational baseline groundwater quality data was not available.

3.2 Groundwater Resources

Groundwater resources in the vicinity of the Site are primarily located in the Edwards Aquifer that underlies the Carrizo-Wilcox Aquifer. In the San Antonio region, the Edwards Limestone attains a thickness of approximately 450 to 500 feet, of which about 450 feet make up the Edwards Aquifer that dips steeply toward the Gulf of Mexico. The production zone of the Edwards Aquifer and the majority of SAWS water supply wells are located in the northwestern portion of Bexar County due to saltwater intrusion into the Edwards Aquifer in the southeastern part of the county. The Carrizo-Wilcox Aquifer production zone in the San Antonio region is generally of poorer water quality.

4.0 Agricultural Practices

No agricultural crops are produced as a result of land application of domestic wastewater from the site. The area where land application occurs is natural open grassland.

4.1 Sub-Surface Irrigation System

As shown in **Attachment B**, the Site consists of three active lateral fields (LF) that receive effluent from the mobile home park (LF 1, LF 2 and LF 8). These existing lateral fields consist of gravity drainage subsurface application of domestic wastewater through slotted plastic and/or clay pipe, some equipped with additional gravel-less chambers, bedded in pea gravel, and covered with native soils. Currently, the wastewater is conveyed to the fields via gravity flow from a series of septic tanks located throughout the mobile home park.

The dimensions of each field are provided below:

Lateral Field 1 – LF 1 has dimensions of approximately 220 feet by 400 feet by 2.5 feet (L x W x D), with a footprint of 88,000 square feet (ft²), or 2 acres. The field has 1-foot wide trenches, located every 10 feet. The laterals are looped. There are a total of six septic tanks draining into LF 1, varying in size from 2,000 to 3,000 gallons.

Lateral Field 2 – LF 2 has dimensions of approximately 85 feet by 75 feet by 4.5 feet (L x W x D), with a footprint of 6,375 ft², or 0.15 acre. The field has 1-foot wide trenches, located every 10 feet. The laterals are looped. There are a total of four septic tanks draining into LF 2, varying in size from 2,000 to 5,000 gallons.

The apartments, brick house and mobile home units drain to either Lateral Field 1 or 2.

Lateral Field 8 – LF 8 has dimensions of 20 feet by 21 feet in one leg and 10 feet by 12 feet in the second leg, for a total footprint of 540 ft². The depth of LF 8 has not been determined but based on the depth of the other lateral fields at the site, it is expected to be between 2 to 4 feet in depth. The laterals are not looped, since LF 8 serves only one unit – the onsite Beauty Shop, which is not a residence.

A third area, Lateral Field 3 can serve as an overflow for LF 2 but has not been equipped with lateral piping and are currently not receiving any waste streams. Several other inactive lateral fields exist at the site which no longer receive any wastewater flow.

The location of the lateral fields, configuration within each field, and the extent of lateral looping was confirmed through exploratory excavations conducted on June 6, 2023, through June 9, 2023.

There is a total of 11,763 ft² of trenches laid in the beds. Each 1-foot wide trench absorbs 1 foot into each wall, making 3 ft² of absorption for every 1 linear foot of trench. The total area of drainage is 35,289 ft² of absorption. There are three active beds, for a total of 117,625 ft² of absorption.

The soil in the lateral fields consists of sandy and silty loams of the Miguel and Floresville series, which are well drained, slowly permeable soils. Percolation studies were performed in LF 1 and LF 2. Two 1 by 1 by 1 cubic foot (ft³) trenches were excavated, and one gallon of water was added to each trench. The starting water surface was noted. After 1 hour, the drop in water level was recorded to calculate percolation rate in each field, as follows:

- LF 1 – 5-inch drop, or 0.42 ft³/hr. = 12 minutes per inch
 - $0.42 \times 24 \times 7.48 = 75.40 \text{ gal/ft}^3$
- LF 2 – 4-inch drop, or 0.33 ft³/hr. = 15 minutes per inch
 - $0.33 \times 24 \times 7.48 = 59.24 \text{ gal/ft}^3$

These measured values are consistent with percolation rates for well drained sandy/silty soils. In accordance with 30 TAC §309.20 (c), percolation systems should be limited to sites having soil textures suitable for sustaining a rapid intake rate. Percolation dosing sites shall be limited to soils classified as sands, loamy sands, or sandy loams. However, per the requirements for domestic Class V sub-surface irrigation systems, the application rate will be limited to 0.1 gal/ft²/day.

The total daily average flow for all of the residences, based on actual water meter data for calendar year 2023 was 8,741 gallons/day for LF 1 and LF 2 combined. No flow data is metered for the onsite commercial beauty shop. This wastewater flows to a separate dedicated individual sub-surface irrigation area L8. The flow rate for the Beauty Shop is estimated to be an average of 50 gallons/day.

All of the mobile homes are equipped with water savings devices and are metered separately to provide accurate flow rates. No changes have been made to the system since original construction apart from routine maintenance and repair, with the exception of LF 2. The mobile home park has had the same number of units for the past 41 years, since constructed in 1983. There are no future plans to increase development of the property or add additional units.

In 2021, LF 2 was modified to include Infiltrator gravel-less distribution chambers. The chambers allow for a smaller surface area to be used for more efficient distribution of wastewater to surrounding soils.

Seven (7) trenches of chambers, eighty (80) feet in length, located trenches ten (10) feet apart. The perforated plastic pipes are lain on top of the chambers (see Figures 1 and 2 below). The lateral pipes are looped. Even though the mobile homes are equipped with water savings devices, since the chambers were placed in the existing trenches and used the same existing perforated pipe, no request is being made to reduce the required irrigation area for this field. The Infiltrator gravel-less chamber system is approved by the TCEQ for OSSFs with daily flow rates less than 5,000 gallons/day. The gravel-less chamber systems are designed to work without pumps, and currently, all flow is via gravity.



Figure 1 – Example of Interceptor Gravel-less Chamber



Figure 2 – Installation Configuration for Laterals and Chambers

Actual flow data for calendar year 2023 indicates a daily average flow rate to LF 1 and 3,250 gallons/day to LF 2. A similar system upgrade is planned for LF 1 to install gravel-less chambers underneath the existing perforated lateral lines.

These percolation rates, along with lateral field areas and historical effluent flow rates, were used to demonstrate that the existing lateral fields in use are adequate for the current use and meet regulatory requirements for sub-surface application systems for domestic wastes.

Interviews with the site operator coupled with Site observations made on several occasions indicated that there was no standing water or areas of ponding, or observed stressed vegetation in the area where the lateral fields are located. This visual evidence indicates that the lateral fields are draining well, and all wastewater is contained within septic tanks, wastewater collection lines and laterals, with no surface impacts.

4.2 Design Analysis

An analysis of flow rates of each mobile home residence was performed using May of 2023 to April of 2024 water meter data. The water meter data was used to develop an average wastewater generation and total daily wastewater rates per residence. To be conservative, a 1:1 ratio of water used to wastewater generated was assumed.

Actual flow data for calendar year 2023 indicates a daily average flow rate to LF1 and 3,250 gallons/day to LF2, for a total daily flow rate of 8,741 gallons/day. LF 8 is a self-contained unit that drains to a separate field with a daily wastewater rate of 50 gpd.

Design Sub-Surface Irrigation Area:

Daily Flow Rate = 8,741 gpd

Irrigation Area Need = $8,741 \text{ gpd} / 0.1 \text{ gal/sq ft} = 87,410 \text{ sq ft} = \mathbf{2.01 \text{ acres}}$.

As designed, the current sub-surface irrigation system actual available lateral field area is 94,915 ft² or **2.18 acres**. Therefore, the system as currently configured, has adequate land for the required application rate.

4.2.1 Hydraulic Application Rate

The application rate for active lateral field was assumed to be limited to 0.1 gpd/ft².

Available septic system design guidance indicated acceptable application rates for septic leach fields, as shown below.

Lateral Fields 1 and 2 – Total area = 94,915 ft²; daily flow rate is 8,741 gallons/day. Hydraulic loading = $(8,741 \text{ gallons/day} / 94,915 \text{ ft}^2) = 0.1 \text{ gallons/day/ft}^2$, which is the acceptable limit for application rate. This demonstrates that LFs 1 and 2 are adequately sized for the wastewater routed to this fields.

Lateral Field 8 – Total area = 540 ft²; daily flow rate 50 gallons/day. Hydraulic loading = $(50 \text{ gallons/day} / 540 \text{ ft}^2) = 0.1 \text{ gallons/day/ft}^2$, which is the acceptable limit for application rate. This demonstrates that LF 8 is adequately sized for the wastewater routed to this field.

4.2.2 Effluent Storage

Effluent storage is provided by the various septic tanks located throughout the Site. The total storage capacity for all septic tanks is 36,500 gallons, with the minimum tank size ranging from 1,000 gallons to 5,000 gallons each. Therefore, adequate pre-treatment capacity is provided by the septic tanks. The septic tanks are dual-chambered and water that reaches a certain level in the clear water side flows by gravity to the sub-surface application sites. The total daily average flow for the entire Site is 8,741 gallons/day and the total storage capacity is 4.2 days. Therefore, more than 3 days of wet weather storage capacity is provided by the system. Additional storage capacity exists in the wastewater collection lines and individual lateral field piping. Therefore, adequate equalization capacity also exists for short term peak flow rates.

5.0 Conclusions

Braun Intertec has prepared this Engineering Technical Report in accordance with Title 30 TAC 309.20 (a) and (b), for the Aztec Estates Mobile Home Park located at 11704 South US Highway 181, San Antonio, Texas, demonstrating that the existing septic system is adequately designed and suitable for the community served. The Site has existed as currently configured for the past 40+ years without major modifications or alterations beyond normal pipeline maintenance and replacement, and no expansions of the Site are anticipated in the near future. Additional lateral fields do exist at the Site, some of which contain lateral drain pipes and others do not, that could be modified and put into use if needed to accommodate future expansion. Overall, the available land for disposal of sanitary wastewater is adequate for the number of units served on the Site.

No improvements, modifications, or additions are recommended at this time, apart from normal operation and maintenance of land application systems for domestic wastewater.

The request for permitting this Site is a result of the TCEQ enforcement order requiring the Site to obtain a permit through the TCEQ due to the fact that the combined daily flow rate to the 2 large sub-surface application areas is greater than 5,000 gallons/day.

Appendix A

References

References

San Antonio Water System, 2023 Water Quality Report.

http://www.saws.org/wp-content/uploads/2023/06/252729.0150018_SAWS_Main.pdf

Texas Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet, 1974.

Texas Commission of Environmental Quality, Water Well Report Viewer.

<https://www.tceq.texas.gov/gis/waterwellview.html>

Texas Water Development Board, Groundwater Data Viewer, 2023.

<https://www3.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer>

United States Geological Survey, National Water Information System Mapper.

<https://www.usgs.gov/tools/national-water-information-system-nwis-mapper>

Attachment A

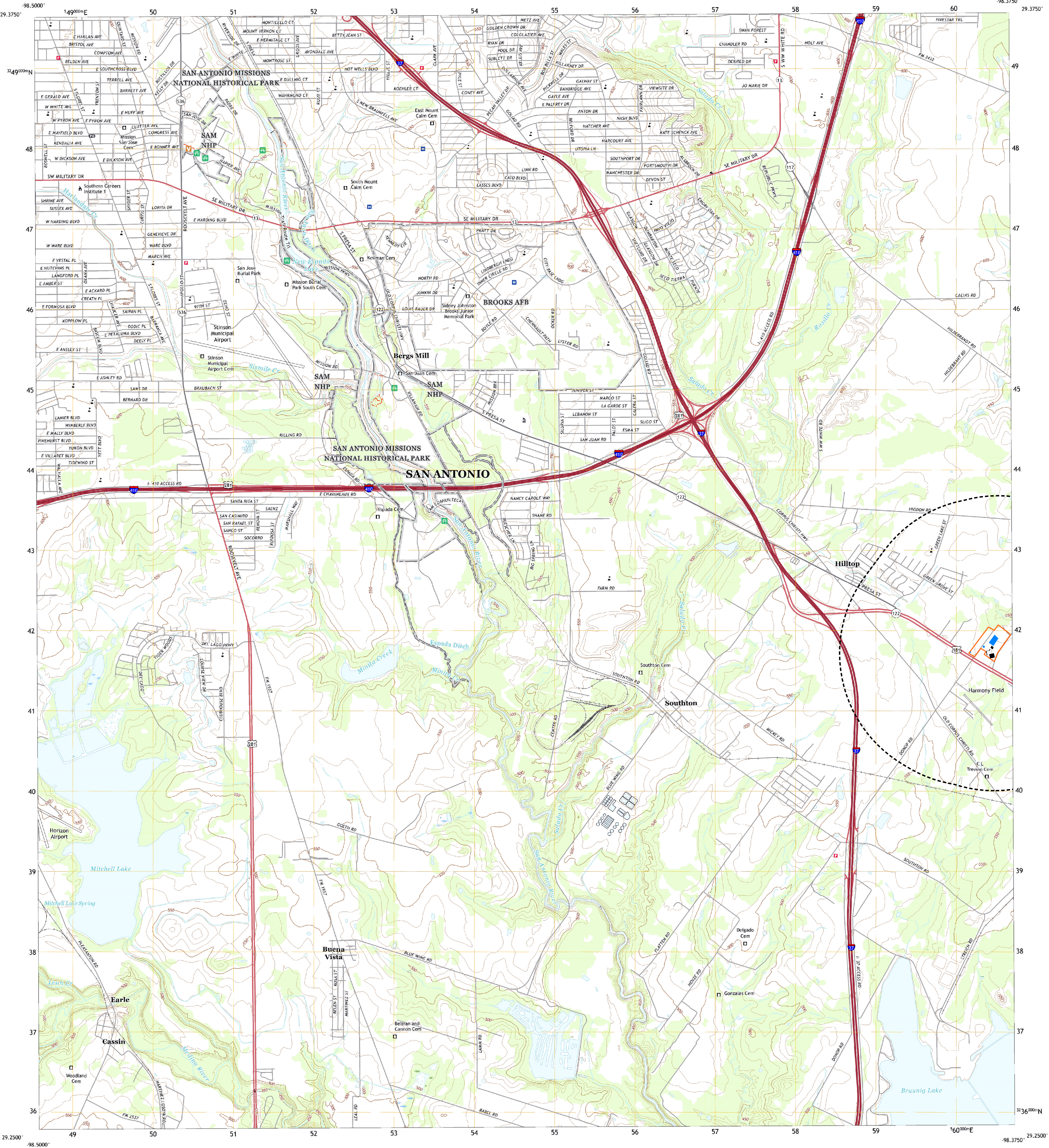
USGS Topographic Map



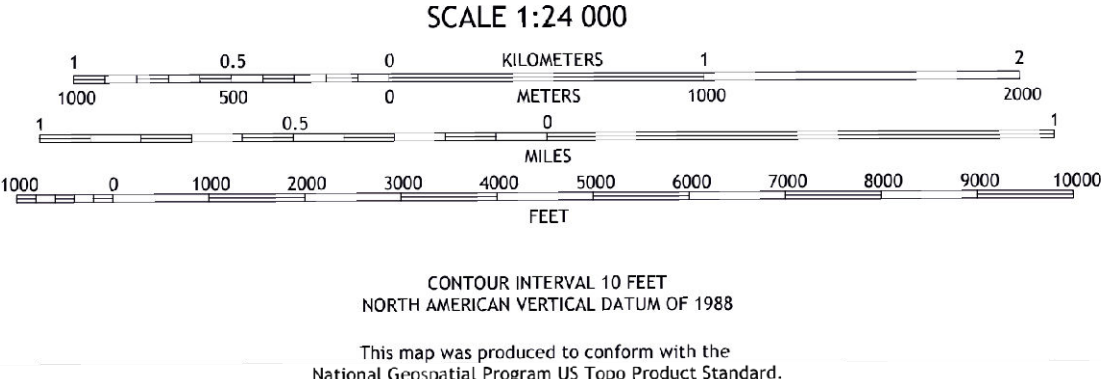
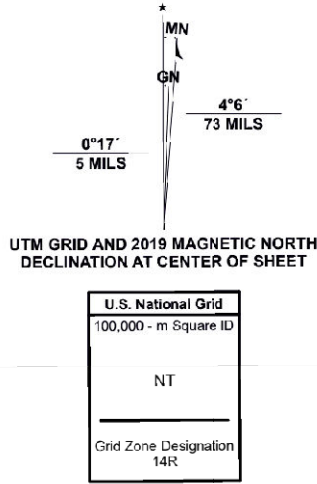
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



SOUTHTON QUADRANGLE
TEXAS - BEJAR COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83). Projection and
1:500-meter grid Universal Transverse Mercator, Zone 14R.
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
reservations may not be shown. Obtain permission before
entering private lands.
Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 1979 - 2022
Hydrography.....National Hydrography Dataset, 2003 - 2021
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021
Wetlands.....FWS National Wetlands Inventory Not Available



1	2	3	1 San Antonio West
4		5	2 San Antonio East
6	7	8	3 Martinez
			4 Terrell Wells
			5 Elmendorf
			6 Thelma
			7 Losoya
			8 Sasparico

ADJOINING QUADRANGLES

SOUTHTON, TX
2022

- Legend**
- Approximate Site Boundary
 - One Mile Project Radius
 - Active Lateral Field
 - Inactive Lateral Field



Project No:
B2303494
Drawing No:
A1E_USGS_Topo
Drawn By:
JPM
Date Drawn:
9/26/2023
Checked By:
JPM
Last Modified:
7/31/2024

Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic
Map

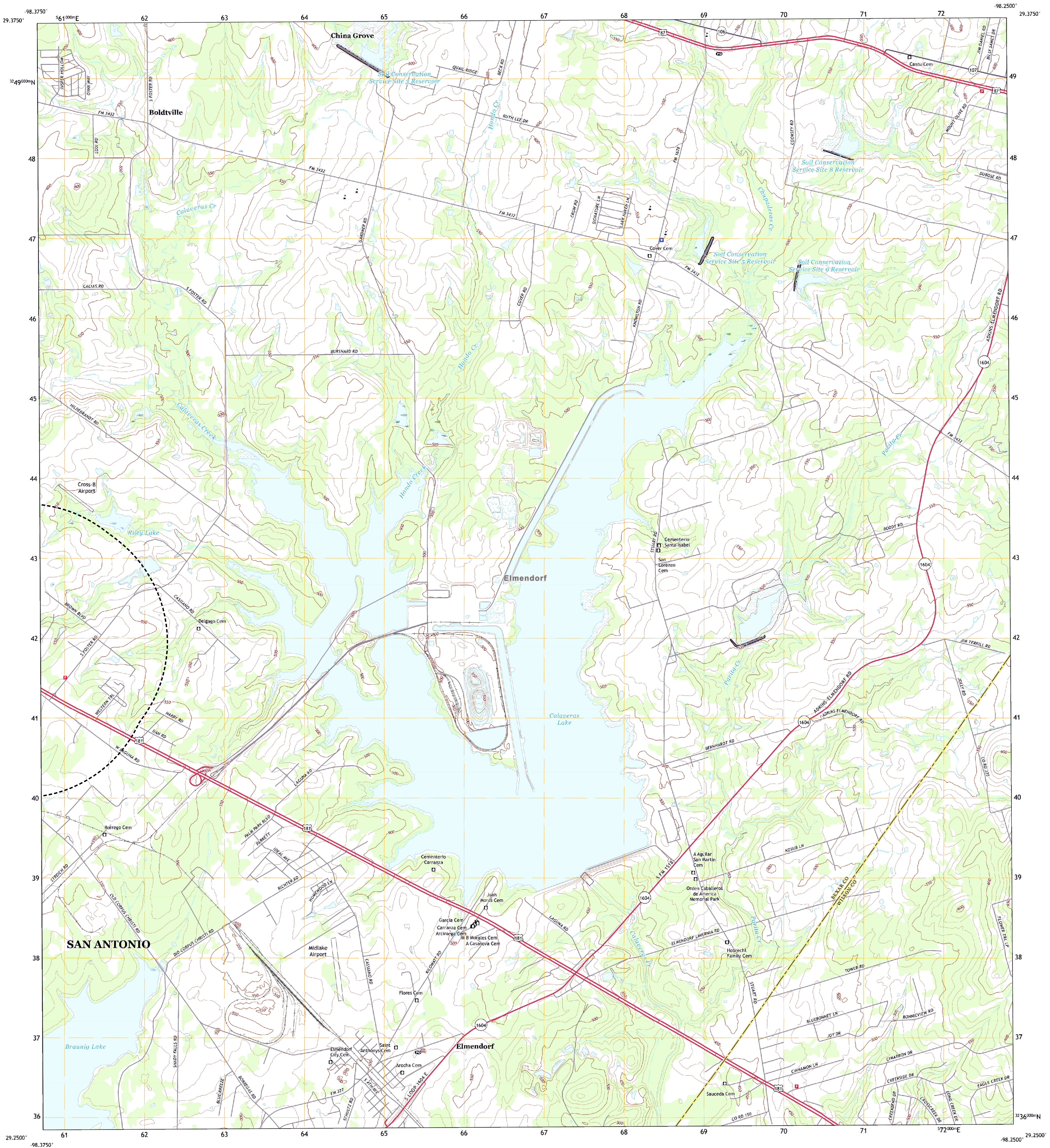
Attachment A-1



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

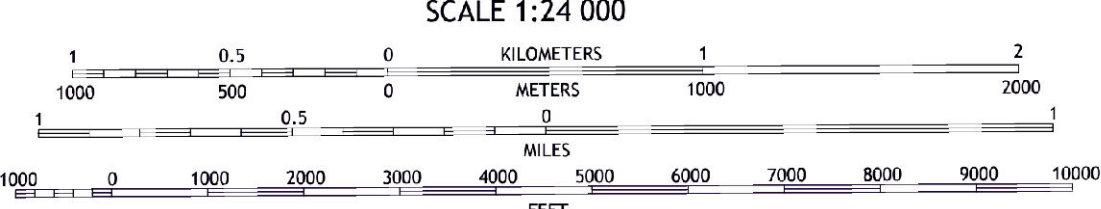
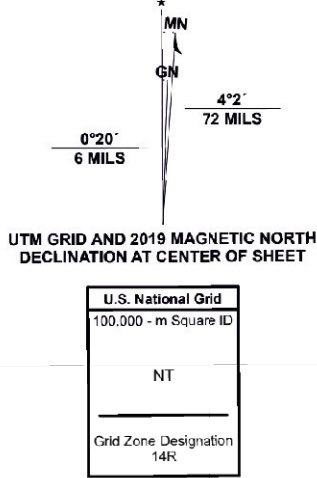


ELMENDORF QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1000-meter grid/Universal Transverse Mercator, Zone 14R
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within government
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Imagery.....	NAIP, September 2016 - November 2016
Roads.....	U.S. Census Bureau, 2015 - 2019
Names.....	GNS, 1979 - 2012
Hydrography.....	National Hydrography Dataset, 2000 - 2021
Contours.....	National Elevation Dataset, 2019
Boundaries.....	Multiple sources; see metadata file 2019 - 2021
Wetlands.....	FWS National Wetlands Inventory Not Available



CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
This map was produced to conform with the
National Geospatial Program US Topo Product Standard.



1	2	3	1 San Antonio East
4	5	2 Martinez	
6	7	8	3 Saint Hedwig
			4 Southtown
			5 La Vernia SW
			6 Leoville
			7 Sissamoco
			8 Floresville

ADJOINING QUADRANGLES

Legend
One Mile Project Radius

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

ELMENDORF, TX
2022



Project No:
Drawing No:
Drawn By:
Date Drawn:
Checked By:
Last Modified:

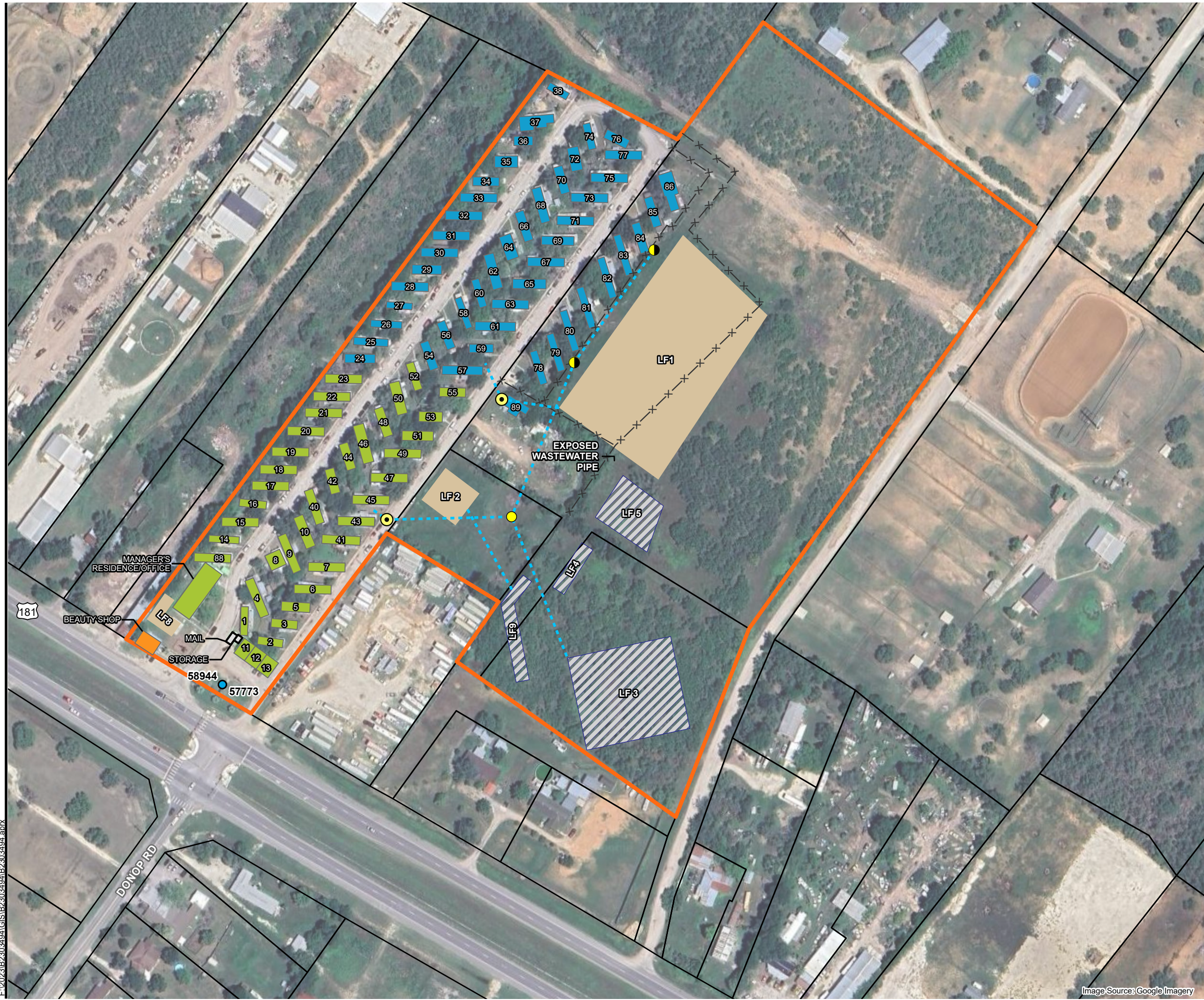
Aztec Estates Mobile Home Park
11704 South US Highway 181
San Antonio, Texas

USGS Topographic Map

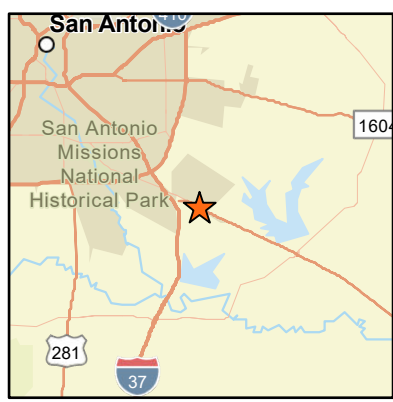
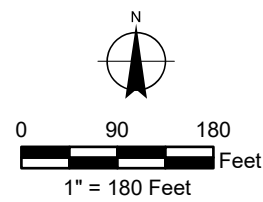
Attachment A-2

Attachment B

Site Map



- Approximate Site Boundary
- Bexar County Parcels
- Pump
- Septic Tank
- Septic Tank/Pump
- Underground Sanitary Sewer Line
- Fence
- Active Lateral Field
- Inactive Lateral Field
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8
- TWDB Well Reports
 - Withdrawal of Water



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Drawing Information

Project No:
B2303494

Drawing No:
AttB-H_SiteMap

Drawn By: JPM
Date Drawn: 6/7/2023
Checked By: EE
Last Modified: 7/31/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

Site Map

Attachment B

F:\2023\B2303494\GIS\B2303494\B2303494.aprx

Image Source: Google Imagery

September 6, 2024

Project B2303494

Ms. Rachel Ellis
Applications Review and Processing Team (MC 148)
Water Quality Division
Texas Commission on Environmental Quality
12100 Park 35 Circle
Austin, TX 78753
Rachel.Ellis@tceq.texas.gov

Re: Response to Administrative Notice of Deficiency
Capstone Property Management, LLC (CN606026169)
11704 South U.S. Highway 181
San Antonio, Texas (RN106656671)
TPDES Permit No.: WQ0016597001

Dear Ms. Ellis:

Braun Intertec Corporation, on behalf of Capstone Property Management, LLC, has prepared this response to the Texas Commission on Environmental Quality (TCEQ) Administrative Notice of Deficiency (NOD), dated August 26, 2024, for the Permit No. WQ0016597001 application for the Aztec Estates Mobile Home Park (MHP) facility located at 11704 South U.S. Highway 181 in San Antonio, Bexar County, Texas (Site).

For reference, we have presented TCEQ comments below in *italics*, with our response thereafter.

1. *Please use the attached Plain Language Summary (PLS) Template to provide a plain language summary in English and Spanish. Please provide the PLS in a **Microsoft Word document**.*

Response

The Plain Language Summary has been updated in English and Spanish and are being submitted as a separate attachment in Microsoft Word.

2. *Landowner electronic labels: Please list each name and address to be capitalized, contain no punctuation, and the appropriate two-character abbreviation must be used for the state. Each entity must be blocked and space consecutively. The format is required by the Postal Service for machine readability. In addition, do not include the numbers used to cross-reference the landowners on the landowners' map. The landowner's labels should be the name and address only. **Please provide electronic labels via MS Word document typed in format mentioned and as example seen below. (Avery label 5160 format 3 columns across, 10 columns down for a total of 30 labels per page.)***

Response

The landowner labels have been updated and are being submitted as a separate attachment in Microsoft Word.

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

Response

The NORI was reviewed and there was one error noted. Tracked changes are shown below.

Capstone Property Management, LLC, 5900 Balcones Drive, Suite 100, Austin, Texas 78731, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Land Application Permit (TLAP) No. WQ0016597001 to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of ~~87,000~~ 8,741 gallons per day via irrigation of 2.18 of acres of land. The facility and disposal area will be located at 11704 South U.S. Highway 181, in the city of San Antonio, in Bexar County, Texas 78223. TCEQ received this application on August 9, 2024. The permit application will be available for viewing and copying at Elmendorf Community Library, front desk, 203 Bexar Avenue, Elmendorf, 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=-98.379166,29.302777&level=18>

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

Response

A translated Spanish NORI has been prepared and is being submitted as a separate attachment in Microsoft Word.

We appreciate your assistance in review of this application. If you have any questions regarding the application, or require additional information, please contact Ms. Janice King (JaKing@braunintertec.com) at 512.221.8902 or Ms. Gabriela Fitzgerald (gfitzgerald@braunintertec.com) at 832.610.9024.

Sincerely,

BRAUN INTERTEC CORPORATION



Gabriela Fitzgerald
Senior Manager, Project Consultant



Janice King
Principal Consultant

c: Mr. John M. Harlan, Capstone Property Management, LLC

September 18, 2024

Project B2303494

Ms. Hannah Zellner, P.G.
Water Quality Assessment Team (MC 150)
Water Quality Division
Texas Commission on Environmental Quality
PO Box 13087
Austin, TX 78711-3087
Hannah.Zellner@tceq.texas.gov; Alan.Barraza@tceq.texas.gov

Re: Response to Technical Notice of Deficiencies
Capstone Property Management, LLC (CN606026169)
11704 South U.S. Highway 181
San Antonio, Texas (RN106656671)
TPDES Permit No.: WQ0016597001

Dear Ms. Zellner:

Braun Intertec Corporation, on behalf of Capstone Property Management, LLC, has prepared this response to the Texas Commission on Environmental Quality (TCEQ) Technical Notice of Deficiencies (NOD), dated September 4, 2024, for the Permit No. WQ0016597001 application for the Aztec Estates Mobile Home Park (MHP) facility located at 11704 South U.S. Highway 181 in San Antonio, Bexar County, Texas (Site).

For reference, we have presented TCEQ comments below in *italics*, with our response thereafter.

GEOLOGY ITEMS

- Domestic Technical Report 1.0, Section 2. Treatment Process- The septic tanks are considered the treatment units for this facility. Please complete Table B in this section with information on the existing septic tanks. Please note the septic tanks that operate in series. Please revise and remove all statements expressing that there is no treatment at the facility from the application.*

Response

All relevant sections and questions in the Domestic Technical Report indicating that there is no wastewater treatment at the facility has been revised and are being submitted as **Attachment A** to this letter.

2. *Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent- The septic tanks are considered the treatment units for this facility. Please sample the effluent leaving the septic tanks and complete the table.*

Response

Effluent from the septic tanks prior to discharge into Lateral Fields 1 and 2 has been sampled and the analytical results and associated laboratory report are being submitted as **Attachment B** to this letter. Analytical results for CBOD will be submitted under separate cover, when available.

3. *Domestic Worksheet 3.0, Section 6. Well and Map Information- Please include the locations of the septic tanks on the Well Map as they are considered the treatment units for this facility.*

Response

The well map as well as a site map has been updated to include the location of the septic tanks and pipe series and are being submitted as **Attachment C** to this letter.

AGRONOMY ITEMS

1. *Administrative Report 1.0, Section 2. Type of Application – Please note that the subsurface area drip dispersal system (SADDs) box is checked but the rest of the application does not mention this type of system. Please clarify if this is a SADDs system and if so, please include Worksheet 3.0 and all required attachments.*

Response

The facility does not use a SADDs system as a disposal method but rather a combined conventional gravity drain lateral line and gravel-less leaching chamber system. The administrative Report 1.0, Section 2 has been updated and is being submitted as **Attachment D** to this letter.

2. *Domestic Worksheet 3.0, Section 2. Land Application Site: The listed land use of “undeveloped land” is invalid. Please use land uses such as hayfield, pastureland, rangeland, park, etc. The listed crop type, native grasses, is only a warm season crop. Please list a specific species. A crop for warm season and cool season must be listed if year-round application is intended.*

Response

The land use and crop type listed in Domestic Worksheet 3.0, Section 2, Land Application Site has been updated and is being submitted to TCEQ as **Attachment E** to this letter.

3. *Domestic Worksheet 3.0, Section 5. Cropping Plan: For the purposes of a TLAP system, all grasses are considered crops. Please update the cropping to reflect an actively growing crop. If year-round application is intended, please list a cool and warm season crop. This can be specific seasonal grasses.*

Response

The cropping plan has been updated to reflect the specific seasonal grasses for year-round application and is being submitted as **Attachment F** to the letter.

4. *Domestic Worksheet 3.0, Section 8.A. Soil Map: Please submit a USDA map depicting the actual irrigation area instead of the property boundaries.*

Response

A USDA soil map depicting the actual irrigation area has been updated and is being submitted to TCEQ as **Attachment G** to this letter.

5. *Domestic Worksheet 3.0, Section 8, Table 3.0(4) Soil Data – Please submit a curve number for each soil series. Values can be attained through the Urban Hydrology for Small Watersheds - TR-55 publication.*

Response

The curve number for each soil series listed in Domestic Worksheet 3.0, Section 8, Table 3.0(4) has been provided and is being submitted to TCEQ as **Attachment H** to this letter.

We appreciate your assistance in review of this application. If you have any questions regarding the application, or require additional information, please contact Ms. Janice King JaKing@braunintertec.com at 512.221.8902 or Ms. Dannelle Belhateche dbelhateche@braunintertec.com at 713.598.1167.

Sincerely,

BRAUN INTERTEC CORPORATION



Dannelle H. Belhateche, PE
Environmental Technical Director
Vice President, Principal Consultant



Janice King
Principal Consultant

Enclosures:

cc: Mr. John M. Harlan, Capstone Property Management, LLC

Attachment A

Domestic Technical Report Section 2

Treatment Process



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

B. Interim II Phase

Design Flow (MGD): N/A

2-Hr Peak Flow (MGD): N/A

Estimated construction start date: N/A

Estimated waste disposal start date: N/A

C. Final Phase

Design Flow (MGD): 0.087

2-Hr Peak Flow (MGD): 0.087

Estimated construction start date: 1983

Estimated waste disposal start date: 1983

D. Current Operating Phase

Provide the startup date of the facility: 1983

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 currently utilizes a domestic wastewater treatment system consisting of multiple individual dual chamber septic tanks and gravity drainage from the septic tanks to multiple sub-surface irrigation fields located on an undeveloped portion of the property. The sub-surface irrigation fields are equipped with looped lateral lines that distribute pre-treated domestic wastewater to underlying soils for absorption and final treatment. The lateral lines consist of perforated 4-inch plastic or clay lines lain in excavated trenches with underlying gravel beds, or in some cases, 4-inch gravel-less HDPE chambers. Native soils cover the excavated trenches. Pre-treated wastewater enters the trenches, via gravity flow, from a series of individual septic tanks located throughout the property. The wastewater is then distributed through the slotted pipe or chambers to surrounding soils, where absorption and final treatment and disposal is achieved

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)
LF 1 Septic Tanks	6	211" L x 102" W x 51" H
LF 2 Septic Tanks	4	211" L x 102" W x 73" H
LF 8 Septic Tanks	1	96" L x 48" W x 63" H

C. Process Flow Diagram

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

Attachment: A

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

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

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

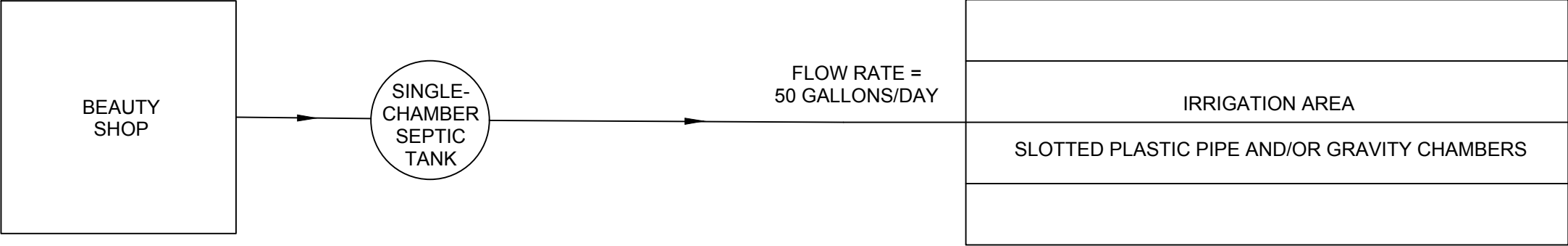
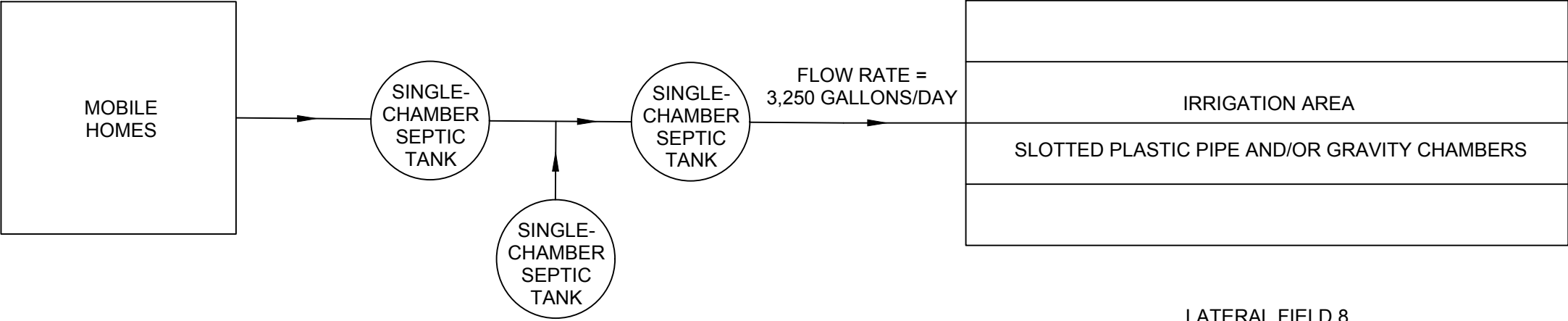
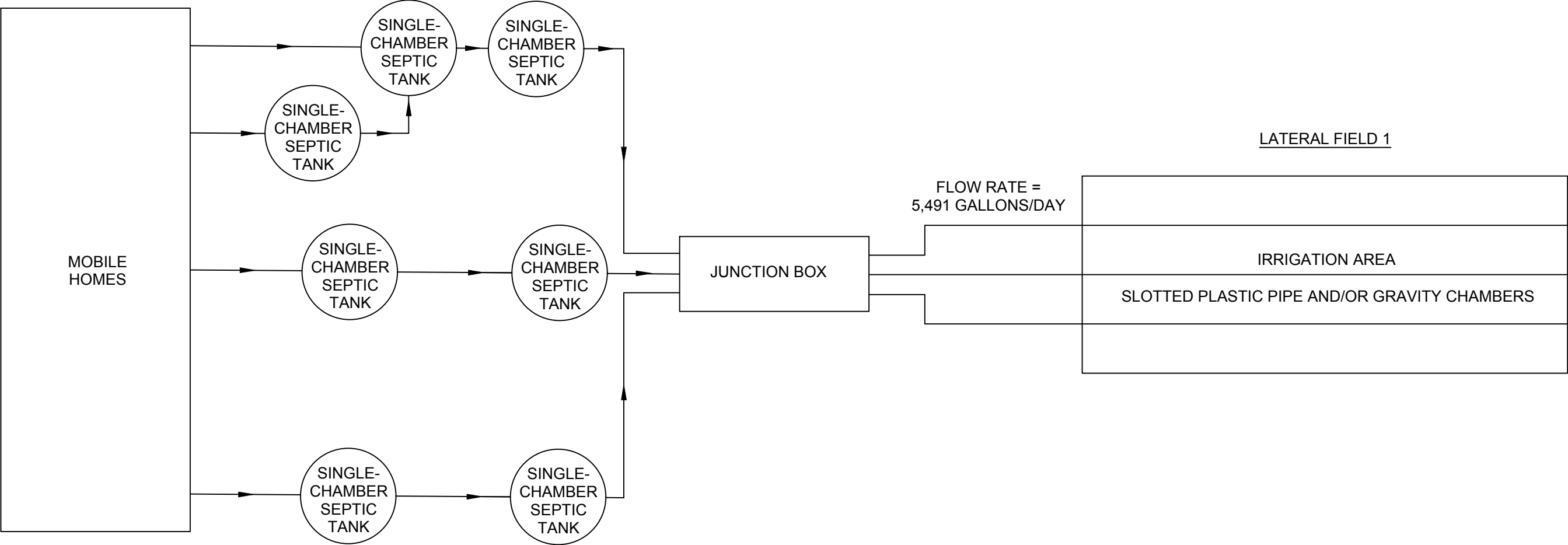
Provide the TLAP disposal site latitude and longitude. Enter N/A if not applicable.

- Latitude: 29°18'14"N
- Longitude: 98°22'41"W

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

F:\2023\B2303494\CAD\B2303494.dwg, Process Flow Diagram, 9/18/2024, 2:04:18 PM



Drawing Information	
Project No:	B2303494
Drawing No:	B2303494
Drawn By:	MMH
Date Drawn:	9/16/24
Checked By:	EE
Last Modified:	9/18/24
Project Information	
Aztec Estates Mobile Home Park	
11704 South US Highway 181	
San Antonio, Texas	
Process Flow Diagram	
Attachment A	

Table 1.0(3) – Pollutant Analysis for Water Treatment Facilities (Not Applicable – Not a Water Treatment Facility)

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
Total Suspended Solids, mg/l	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity (CaCO ₃), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Capstone Property Management, LLC

Facility Operator's License Classification and Level: N/A

Facility Operator's License Number: N/A

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

WWTP's Biosolids Management Facility Type

A. 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 (>= 2 years)
- ☐ Methane or Biogas Recovery
- ☒ Other Treatment Process: Compost

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
Other	Off-site Third-Party Handler or Preparer	Not Applicable	15.2	Class B: PSRP Composting	Option 5: Aerobic process for 14 days at >40C
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): Transport to compost facility

D. Disposal site

Disposal site name: Second Nature Compost, LLC

TCEQ permit or registration number: 42044

County where disposal site is located: Bexar

E. Transportation method

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

Name of the hauler: Van Delden Wastewater System

Hauler registration number: 20929

Sludge is transported as a:

Liquid ☐

semi-liquid ☐

semi-solid ☒

solid ☐

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

Sludge Composting ☐ Yes ☒ No

Marketing and Distribution of sludge ☐ Yes ☒ No

Sludge Surface Disposal or Sludge Monofill ☐ Yes ☒ No

Temporary storage in sludge lagoons ☐ Yes ☒ No

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

- USDA Natural Resources Conservation Service Soil Map:

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

Waste Tracking Form

GENERATOR INFORMATION

Generator Name: Aztec Estates Mobile Home Park
Address: 11704 US 181 Telephone: 620 347 4970
San Antonio TX County: _____
Type of Waste Removed: ☐ Septic ☐ Chem. Toilet ☐ Grease Trap ☐ Sludge ☐ _____
Tank/Trap/Storage Capacity: 4000 ☐ gallons ☐ yards ☐ tons
Date of last removal: 7/20/23

On 7/20/23, the transporter removed a total of 4000 ☐ gallons ☐ yards ☐ tons
As the generator's representative, I certify that this waste contains no hazardous materials, was removed from this address, and is to be transported to a facility that the Texas Commission on Environmental Quality has authorized to receive these wastes.

Generator Name (print): Freddy Robarte Generator Signature: FR

TRANSPORTER INFORMATION

Business Name: VDUN 5
Address: 2106 S 7th St Telephone: 6982000
San Antonio TX SNC Registration Number: 42101
Vehicle Capacity: 4000 ☐ gallons ☐ yards ☐ tons
Truck License Plate Number: _____ TCEQ Registration Number: 20121

On 7/20/23, I transported 4000 ☐ gallons ☐ yards ☐ tons
of waste described under "Generator Information" above to Waste Receiver: Second Nature Compost, LLC
(TCEQ Reg. Number: 42044).

I certify that the information provided above is correct and that only the waste certified for removal by the generator is contained in this waste transport vehicle. I am aware that falsification of this trip ticket may result in revocation of my waste transportation permit, criminal prosecution, and/or civil penalties.

Driver name (print): Freddy Robarte Driver signature: FR

DISPOSAL FACILITY INFORMATION

Business Name: Second Nature Compost, LLC TCEQ Registration Number: 42044
Address: 8449 Nelson Rd, San Antonio, TX 78252 Telephone: 210-960-6440

As the representative of this business, I certify that each of the following statements is true:

*The Texas Commission on Environment Quality has authorized this business to accept the waste specified under "Generator Information" above.

*The transporter named above delivered 4000 ☐ gallons ☐ yards ☐ tons
of this waste to this business on 7/20/23 at 12:30 ☐ AM ☐ PM.

*This waste has been recycled or disposed as required by the TCEQ authorization for this business and has been or will be treated in accordance with the pathogen and vector attraction reduction requirements of 30 TAC 312.82.

Site Operator Name (print): _____ Signature: _____

Attachment B

Technical Report Section 7

Pollutant Analysis of Treated Effluent and Analytical Results

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 BOD₅ concentration of the septic waste, and the design BOD₅ concentration of the influent from the collection system. Also note if this information has or has not changed since the last permit action.

Click to enter text.

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

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

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

☐ Yes ☐ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

Table1.0(2) – Pollutant Analysis for Wastewater Treatment Facilities (Lateral Field 1)

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l			1	Composite	09/11/24 11:35
Total Suspended Solids, mg/l	56	56	1	Composite	09/11/24 11:35
Ammonia Nitrogen, mg/l	25.2	25.2	1	Composite	09/11/24 11:35
Nitrate Nitrogen, mg/l	0.154	0.154	1	Composite	09/11/24 11:35
Total Kjeldahl Nitrogen, mg/l	34.7	34.7	1	Composite	09/11/24 11:35
Sulfate, mg/l	21.6	21.6	1	Composite	09/11/24 11:35
Chloride, mg/l	50.8	50.8	1	Composite	09/11/24 11:35
Total Phosphorus, mg/l	3.33	3.33	1	Composite	09/11/24 11:35
pH, standard units	6.8	7.0	3	Grab	09/11/24 11:35
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	N/A
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	N/A
<i>E.coli</i> (CFU/100ml) freshwater	>2419	>2419	1	Composite	09/11/24 11:35
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	243	243	1	Composite	09/11/24 11:35
Electrical Conductivity, μ mohs/cm, †	867	867	1	Composite	09/11/24 11:35
Oil & Grease, mg/l	7.5	7.5	1	Composite	09/11/24 11:35
Alkalinity (CaCO ₃)*, mg/l	N/A	N/A	N/A	N/A	N/A

*TPDES permits only

†TLAP permits only

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
CBOD ₅ , mg/l			1	Grab	09/11/24 10:15am
Total Suspended Solids, mg/l	10.8	10.8	1	Grab	09/11/24 10:15am
Ammonia Nitrogen, mg/l	37.0	37.0	1	Grab	09/11/24 10:15am
Nitrate Nitrogen, mg/l	0.214	0.214	1	Grab	09/11/24 10:15am
Total Kjeldahl Nitrogen, mg/l	38.7	38.7	1	Grab	09/11/24 10:15am
Sulfate, mg/l	1.79	1.79	1	Grab	09/11/24 10:15am
Chloride, mg/l	48.6	48.6	1	Grab	09/11/24 10:15am
Total Phosphorus, mg/l	3.66	3.66	1	Grab	09/11/24 10:15am
pH, standard units	6.75	6.8	2	Grab	09/11/24 10:15am
Dissolved Oxygen*, mg/l	N/A	N/A	N/A	N/A	09/11/24 10:15am
Chlorine Residual, mg/l	N/A	N/A	N/A	N/A	09/11/24 10:15am
<i>E.coli</i> (CFU/100ml) freshwater	>2419	>2419	1	Grab	09/11/24 10:15am
Enterococci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	09/11/24 10:15am
Total Dissolved Solids, mg/l	287	287	1	Grab	09/11/24 10:15am
Electrical Conductivity, µmohs/cm, †	938	938	1	Grab	09/11/24 10:15am
Oil & Grease, mg/l	<4.75	<4.75	1	Grab	09/11/24 10:15am
Alkalinity (CaCO ₃)*, mg/l	N/A	N/A	N/A	N/A	09/11/24 10:15am

*TPDES permits only

†TLAP permits only

AA/EOE

September 13, 2024

Janice King

Braun Intertec
2105 Donley Dr. Suite 400
Austin, TX 78750

SATL Report No.: 2409169

RE: Aztec

Project Number: B2303494

Dear Janice King

SATL received 2 Sample(s) on 09/11/2024 for analyses identified on the chain of custody. The analyses were performed using methods indicated on the laboratory report. Any deviations observed at sample receiving are notated on the Sample Receipt Checklist and/or Chain of Custody documents attached as part of this analytical report.

Sincerely,

For San Antonio Testing Laboratory, Inc.



Marcela G. Hawk,
President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

1610 S. Laredo Street, San Antonio, Texas 78207-7029 (210) 229-9920 Fax (210) 229-9921

www.satestinglab.com

Braun Intertec
2105 Donley Dr. Suite 400
Austin TX, 78750

Project Manager: Janice King
Project: Aztec
Project Number: B2303494

Reported:
09/13/24 17:21
Received:
09/11/24 12:15

Additional Notes:

Report No. 2409169

SAMPLE SUMMARY

Total Samples received in this work order: 2

The following samples were requested for analysis as per the CoC. Any re-runs or re-analyses requested are identified as such.

<u>Sample ID</u>	<u>Laboratory ID</u>	<u>Matrix</u>	<u>Sampling Method</u>	<u>Date Sampled</u>	<u>Date Received</u>
LF2	2409169-01	Liquid	Grab	09/11/24 10:15	09/11/24 12:15
LF1	2409169-02	Liquid	Composite	09/11/24 11:35	09/11/24 12:15

Notes

All quality control samples and checks are within acceptance limits unless otherwise indicated.

Test results pertain only to those items tested.

All samples were in good condition when received by the laboratory unless otherwise noted.

DRAFT

Braun Intertec
 2105 Donley Dr. Suite 400
 Austin TX, 78750

Project Manager: Janice King
 Project: Aztec
 Project Number: B2303494

Reported:
 09/13/24 17:21
Received:
 09/11/24 12:15

Additional Notes:

Report No. 2409169

Sample ID #: LF2

Sampling Method: Grab

Lab Sample ID #: 2409169-01

Sample Matrix: Liquid

Date/Time Collected: 09/11/24 10:15

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Microbiological Parameters									
E. Coli *	>2419	MPN/100 mL	1.00	Start 09/11/24 13:52/End 09/12/24 16:00			Colilert-QTray	DD	
General Chemistry									
Conductivity (@25C) *	938	umhos/cm	1.00	SM2510B	B437326	09/11/24 17:22	SM2510B	JA	
Ammonia-Nitrogen *	37.0	mg/L	1.00	SM4500NH3B	B437238	09/11/24 17:00	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	38.7	mg/L	1.00	EPA 351.3	B437346	09/13/24 16:37	EPA 351.3	DD	
Total Dissolved Solids *	287	mg/L	8.33	SM2540C	B437344	09/13/24 16:38	SM2540C	DD	
Total Suspended Solids *	10.8	mg/L	5.00	SM2540D	B437332	09/13/24 13:33	SM2540D	DD	
pH *	7.88	pH Units	0.01	SM4500HB	B437325	09/11/24 17:19	SM4500HB	JA	H
pH measured @Temperature >>	16.2	°C	0.100	SM4500HB	B437325	09/11/24 17:19	SM2550B	JA	H
Oil & Grease (HEM) *	<4.75	mg/L	4.75	EPA 1664A	B437301	09/13/24 13:35	EPA 1664A	DD	Q
Total Phosphorous *	3.66	mg/L	0.05	EPA 365.3	B437305	09/12/24 15:30	EPA 365.3	JA	
Anions by Ion Chromatography									
Chloride *	48.6	mg/L	0.500	EPA 300.0	B437291	09/11/24 21:23	EPA 300.0	JA	
Nitrate as N *	0.214	mg/L	0.100	EPA 300.0	B437291	09/11/24 22:16	EPA 300.0	JA	
Sulfate *	1.79	mg/L	0.10	EPA 300.0	B437291	09/11/24 21:23	EPA 300.0	JA	

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 Austin TX, 78750

Project Manager: Janice King
 Project: Aztec
 Project Number: B2303494

Reported:
 09/13/24 17:21
Received:
 09/11/24 12:15

Additional Notes:

Report No. 2409169

Sample ID #: LF1

Sampling Method: Composite

Lab Sample ID #: 2409169-02

Sample Matrix: Liquid

Date/Time Collected: 09/11/24 11:35

Analyte	Result	Units	PQL	Prep Method	Batch	Analyzed	Method	Analyst	Notes
Microbiological Parameters									
E. Coli *	>2419	MPN/100 mL	1.00	Start 09/11/24 13:52/End 09/12/24 16:00			Colilert-QTray	DD	
General Chemistry									
Conductivity (@25C) *	867	umhos/cm	1.00	SM2510B	B437326	09/11/24 17:24	SM2510B	JA	
Ammonia-Nitrogen *	25.2	mg/L	1.00	SM4500NH3B	B437238	09/11/24 17:00	SM4500NH3C	DD	
Total Kjeldahl Nitrogen *	34.7	mg/L	1.00	EPA 351.3	B437346	09/13/24 16:39	EPA 351.3	DD	
Total Dissolved Solids *	243	mg/L	8.33	SM2540C	B437344	09/13/24 16:40	SM2540C	DD	
Total Suspended Solids *	56.0	mg/L	12.5	SM2540D	B437332	09/13/24 13:35	SM2540D	DD	
pH *	7.39	pH Units	0.01	SM4500HB	B437325	09/11/24 17:20	SM4500HB	JA	H
pH measured @Temperature >>	16.2	°C	0.100	SM4500HB	B437325	09/11/24 17:20	SM2550B	JA	H
Oil & Grease (HEM) *	7.50	mg/L	4.75	EPA 1664A	B437301	09/13/24 13:35	EPA 1664A	DD	Q
Total Phosphorous *	3.33	mg/L	0.05	EPA 365.3	B437305	09/12/24 15:30	EPA 365.3	JA	
Anions by Ion Chromatography									
Chloride *	50.8	mg/L	0.500	EPA 300.0	B437291	09/11/24 21:59	EPA 300.0	JA	
Nitrate as N *	0.154	mg/L	0.100	EPA 300.0	B437291	09/11/24 22:52	EPA 300.0	JA	
Sulfate *	21.6	mg/L	0.10	EPA 300.0	B437291	09/11/24 22:52	EPA 300.0	JA	

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Reported:
09/13/24 17:21
Received:
09/11/24 12:15

Additional Notes:

Report No. 2409169

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B437238 - SM4500NH3B									
Blank (B437238-BLK1)				Prepared: 09/11/24 12:00 Analyzed: 09/11/24 12:00					
Ammonia-Nitrogen	<1.00	1.00	mg/L						
LCS (B437238-BS1)				Prepared: 09/11/24 12:00 Analyzed: 09/11/24 12:01					
Ammonia-Nitrogen	23.0	1.00	mg/L	20.0		115	80-120		
LCS Dup (B437238-BSD1)				Prepared: 09/11/24 12:00 Analyzed: 09/11/24 12:02					
Ammonia-Nitrogen	23.0	1.00	mg/L	20.0		115	80-120	0	20
Duplicate (B437238-DUP1)				Source: 2408591-01		Prepared: 09/11/24 12:00 Analyzed: 09/11/24 12:10			
Ammonia-Nitrogen	1.12	1.00	mg/L	1.12				0	20
Matrix Spike (B437238-MS1)				Source: 2408591-01		Prepared: 09/11/24 12:00 Analyzed: 09/11/24 12:11			
Ammonia-Nitrogen	20.7	1.00	mg/L	20.0	1.12	98	80-120		
Matrix Spike Dup (B437238-MSD1)				Source: 2408591-01		Prepared: 09/11/24 12:00 Analyzed: 09/11/24 12:12			
Ammonia-Nitrogen	21.3	1.00	mg/L	20.0	1.12	101	80-120	3	200
Batch B437301 - EPA 1664A									
Blank (B437301-BLK1)				Prepared: 09/12/24 17:30 Analyzed: 09/12/24 18:00					
Oil & Grease (HEM)	<4.75	4.75	mg/L						
LCS (B437301-BS1)				Prepared: 09/12/24 17:30 Analyzed: 09/12/24 18:02					
Oil & Grease (HEM)	37.9	4.75	mg/L	40.0		95	78-114		
LCS Dup (B437301-BSD1)				Prepared: 09/12/24 17:30 Analyzed: 09/12/24 18:04					
Oil & Grease (HEM)	35.8	4.75	mg/L	40.0		90	78-114	6	18
Batch B437305 - EPA 365.3									
Blank (B437305-BLK1)				Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:00					
Total Phosphorous	<0.05	0.05	mg/L						
LCS (B437305-BS1)				Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:00					
Total Phosphorous	0.456	0.05	mg/L	0.500		91	80-120		
LCS Dup (B437305-BSD1)				Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:00					
Total Phosphorous	0.452	0.05	mg/L	0.500		90	80-120	0.9	20
Duplicate (B437305-DUP1)				Source: 2409169-02		Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:45			

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Project: Aztec
Project Number: B2303494

Reported:
09/13/24 17:21
Received:
09/11/24 12:15

Additional Notes:

Report No. 2409169

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B437305 - EPA 365.3									
Duplicate (B437305-DUP1)		Source: 2409169-02		Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:45					
Total Phosphorous	3.32	0.05	mg/L		3.33			0.3	20
Matrix Spike (B437305-MS1)		Source: 2409169-02		Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:45					
Total Phosphorous	1.39	0.05	mg/L	0.500	3.33	NR	80-120		M
Matrix Spike Dup (B437305-MSD1)		Source: 2409169-02		Prepared: 09/11/24 16:00 Analyzed: 09/12/24 15:45					
Total Phosphorous	1.40	0.05	mg/L	0.500	3.33	NR	80-120	0.6	20 M
Batch B437325 - SM4500HB									
LCS (B437325-BS1)		Prepared: 09/11/24 17:15 Analyzed: 09/11/24 17:17							
pH	7.02	0.01	pH Units	7.00		100	97.5-102.5		
pH measured @Temperature >>	20.5	0.100	°C				0-200		
Duplicate (B437325-DUP1)		Source: 2409169-02		Prepared: 09/11/24 17:15 Analyzed: 09/11/24 17:22					
pH	7.30	0.01	pH Units		7.39			1	20 H
pH measured @Temperature >>	16.2	0.100	°C		16.2			0	30 H
Batch B437326 - SM2510B									
LCS (B437326-BS1)		Prepared: 09/11/24 17:15 Analyzed: 09/11/24 17:20							
Conductivity (@25C)	1030	1.00	umhos/cm	1000		103	80-120		
Duplicate (B437326-DUP1)		Source: 2409169-02		Prepared: 09/11/24 17:15 Analyzed: 09/11/24 17:26					
Conductivity (@25C)	864	1.00	umhos/cm		867			0.3	20
Batch B437332 - SM2540D									
Blank (B437332-BLK1)		Prepared: 09/13/24 10:30 Analyzed: 09/13/24 13:30							
Total Suspended Solids	<2.50	2.50	mg/L						
LCS (B437332-BS1)		Prepared: 09/13/24 10:30 Analyzed: 09/13/24 13:31							
Total Suspended Solids	106	25.0	mg/L	100		106	80-120		
LCS Dup (B437332-BSD1)		Prepared: 09/13/24 10:30 Analyzed: 09/13/24 13:32							
Total Suspended Solids	114	25.0	mg/L	100		114	80-120	7	20
Duplicate (B437332-DUP1)		Source: 2409169-01		Prepared: 09/13/24 10:30 Analyzed: 09/13/24 13:34					
Total Suspended Solids	11.2	5.00	mg/L		10.8			4	20
Batch B437344 - SM2540C									

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Project Number: B2303494

Reported:
09/13/24 17:21
Received:
09/11/24 12:15

Additional Notes:

Report No. 2409169

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B437344-BLK1)				Prepared: 09/12/24 16:00 Analyzed: 09/13/24 16:35					
Total Dissolved Solids	<2.50	2.50	mg/L						
LCS (B437344-BS1)				Prepared: 09/12/24 16:00 Analyzed: 09/13/24 16:36					
Total Dissolved Solids	94.0	2.50	mg/L	100		94	80-120		
LCS Dup (B437344-BSD1)				Prepared: 09/12/24 16:00 Analyzed: 09/13/24 16:37					
Total Dissolved Solids	91.0	2.50	mg/L	100		91	80-120	3	20
Duplicate (B437344-DUP1)				Source: 2409169-01 Prepared: 09/12/24 16:00 Analyzed: 09/13/24 16:39					
Total Dissolved Solids	267	8.33	mg/L	287				7	20

Batch B437346 - EPA 351.3

Blank (B437346-BLK1)				Prepared: 09/12/24 12:00 Analyzed: 09/13/24 16:30					
Total Kjeldahl Nitrogen	<1.00	1.00	mg/L						
LCS (B437346-BS1)				Prepared: 09/12/24 12:00 Analyzed: 09/13/24 16:35					
Total Kjeldahl Nitrogen	23.0	1.00	mg/L	20.0		115	80-120		
LCS Dup (B437346-BSD1)				Prepared: 09/12/24 12:00 Analyzed: 09/13/24 16:36					
Total Kjeldahl Nitrogen	22.4	1.00	mg/L	20.0		112	80-120	2	20
Matrix Spike (B437346-MS1)				Source: 2409169-01 Prepared: 09/12/24 12:00 Analyzed: 09/13/24 16:38					
Total Kjeldahl Nitrogen	59.4	1.00	mg/L	20.0	38.7	104	80-120		

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B437291 - EPA 300.0									
Blank (B437291-BLK1)				Prepared: 09/11/24 17:00 Analyzed: 09/11/24 17:49					
Chloride	<0.100	0.100	mg/L						
Nitrate as N	<0.100	0.100	mg/L						
Sulfate	<0.10	0.10	mg/L						
LCS (B437291-BS1)				Prepared: 09/11/24 17:00 Analyzed: 09/11/24 18:06					
Chloride	4.86	0.100	mg/L	5.00		97	90-110		
Nitrate as N	4.87	0.100	mg/L	5.00		97	90-110		

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Project Manager: Janice King
 Project: Aztec
 Project Number: B2303494

Reported:
 09/13/24 17:21
Received:
 09/11/24 12:15

Additional Notes:

Report No. 2409169

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B437291 - EPA 300.0									
LCS (B437291-BS1)				Prepared: 09/11/24 17:00 Analyzed: 09/11/24 18:06					
Sulfate	4.87	0.10	mg/L	5.00		97	90-110		
LCS Dup (B437291-BSD1)				Prepared: 09/11/24 17:00 Analyzed: 09/11/24 18:24					
Chloride	4.85	0.100	mg/L	5.00		97	90-110	0.2	20
Nitrate as N	4.86	0.100	mg/L	5.00		97	90-110	0.2	20
Sulfate	4.85	0.10	mg/L	5.00		97	90-110	0.5	20
Duplicate (B437291-DUP1)		Source: 2409169-01		Prepared: 09/11/24 17:00 Analyzed: 09/11/24 22:34					
Chloride	46.7	0.500	mg/L		48.6			4	20
Nitrate as N	0.207	0.100	mg/L		0.214			3	20
Sulfate	1.95	0.10	mg/L		1.79			9	20
Matrix Spike (B437291-MS1)		Source: 2409169-01		Prepared: 09/11/24 17:00 Analyzed: 09/11/24 23:10					
Chloride	49.9	0.100	mg/L	5.00	48.6	25	80-120		M
Nitrate as N	4.58	0.100	mg/L	5.00	0.214	87	80-120		
Sulfate	7.01	0.10	mg/L	5.00	1.79	105	80-120		
Matrix Spike Dup (B437291-MSD1)		Source: 2409169-01		Prepared: 09/11/24 17:00 Analyzed: 09/11/24 23:28					
Chloride	49.9	0.100	mg/L	5.00	48.6	25	80-120	0.03	20
Nitrate as N	4.45	0.100	mg/L	5.00	0.214	85	80-120	3	20
Sulfate	7.63	0.10	mg/L	5.00	1.79	117	80-120	8	20

Braun Intertec
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Austin TX, 78750

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Project: Aztec
Project Number: B2303494

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09/13/24 17:21
Received:
09/11/24 12:15

Additional Notes:

Report No. 2409169

SAMPLE QUALIFIERS

Q Additional Sample volumes were NOT provided to the laboratory for the analysis of an MS sample as required by EPA Method 1664.
H This parameter should be analyzed within 15 minutes of sample collection. Due to transportation, hold time has been exceeded.

DEFINITIONS

* TNI / NELAP accredited analyte
PQL Practical Quantitation Limit
MCL Maximum Contaminant Level
mg/Kg Milligrams per Kilogram (Parts per Million)
mg/L Milligrams per Liter (Parts per Million)
PPM Parts per Million
L LCS recovery is outside QC acceptance limits, the results may have a slight bias.
M MS recovery is outside QC limits, the results may have a slight bias due to possible matrix interferences.
NR Not Recovered due to source sample concentration exceeds spiked concentration.
RMCCL Recommended Maximum Concentration of Contaminants Level
Surr L Surrogate recovery is low outside QC limits.
Surr H Surrogate recovery is high outside QC limits.
HT Sample received past holdtime
IC Improper Container for this analyte(s)
IP Improper preservation for this analyte(s)
IT Improper Temperature
V Insufficient Volume
B Sample collected in Bulk
S RPD is outside QC limits.
AB VOA Vial contained air bubbles.
OP ortho-Phosphate was not filtered in the field within 15minutes of collection.
CCV Continuing Calibration Verification Standard.
ICV Initial Calibration Verification Standard.

Test Methods followed by the laboratory are referenced in the following approved methodology, unless otherwise specified.

Standard Methods for the Examination of Water and Wastewater, 23rd Edition, 2017
Methods for Chemical Analysis of Water and Wastes, EPA 600/4-79-020, Rev. March 1983
EPA SW Test Methods for the Examination of Solid Waste, SW-846, 1996

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Austin TX, 78750

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Project: Aztec
Project Number: B2303494

Reported:
09/13/24 17:21
Received:
09/11/24 12:15

Additional Notes:

Report No. 2409169

DRAFT REPORT, DATA SUBJECT TO CHANGE For



Marcela G. Hawk, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

DRAFT

Project No.: B2303494 Date: 9-11-24
 Project Name: A27EC Personnel: Nika Sarraf
 Location: SAN ANTONIO Time On Site: 0940 Time Off Site: 1150
☒ Photos taken and documented. Project Manager: JANICE KING

Other Braun Intertec Staff:

N/A

Other Personnel (subcontractors, site superintendent, etc.; include time on site and time off site):

SCOTT FROM A27EC

Weather (temperature, wind speed and direction, etc.):

H: 93°, L: 74°, wind @ 9 mph SW

PPE and Field Equipment Used (e.g., PID; include ID numbers, calibration information, etc.):

TRUCK boots, mask, glasses, gloves

Work Completed (include field scope, unexpected issues, action items, log of communication, and site sketch):

0940 N SARRAF ON SITE W/ SCOTT, REVIEW HASP + FWO + CALLED PM TO CHECK IN.
 1010 PH FROM LF2: 6.8
 1015 PH FROM LF2: 6.7
 SAMPLE COLLECTED FROM LF2
 1040 ON SITE AT LF1
 1045 ALIQUOT 01 COLLECTED FOR LF1.
 PH = 6.8, APPROX 2L.
 1115 ALIQUOT 02 COLLECTED FOR LF1.
 PH = 7.0, APPROX 2L.
 1130 ALIQUOT 03 COLLECTED FOR LF1.
 PH = 6.7, APPROX 2L.
 1150 LF1 COLLECTED.
 ALL SAMPLES PACKED ON ICE.
 1150 NS OFF SITE

9-11-24

Signature:

Attachment C

Domestic Technical Report: Worksheet 3.0, Section 6 Well and Map Information



- Approximate Site Boundary
- 0.25 Mile Project Radius
- 1 Mile Project Radius
- Water Body (USGS)
- Building
- Lateral Field
- Underground Sanitary Sewer Line
- Pipe Series
- Septic Tank
- USGS NHD Streams
 - Intermittent Stream
 - Artificial Path
- TWDB Groundwater Database
 - Water Supply Well
- TWDB Well Reports
 - Domestic
 - Irrigation
 - Withdrawal of Water - Plugged
- TCEQ Well Logs
 - Domestic
 - Municipal

Note: no springs, seeps, faults, or sinkholes were identified within one mile of the site.

Sources: USGS National Hydrography Dataset (NHD), TCEQ Source Water Assessment GIS Layers, Texas Water Development Board Groundwater Database, TCEQ Water Well Report Viewer, Texas Water Development Board Well Reports GIS Layer, Geologic Atlas of Texas.

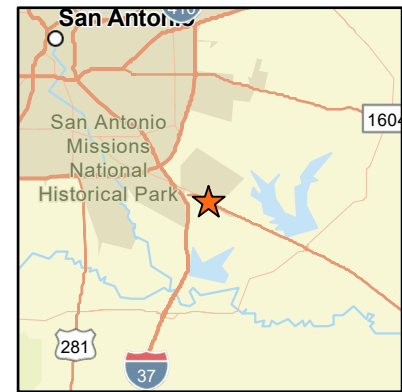
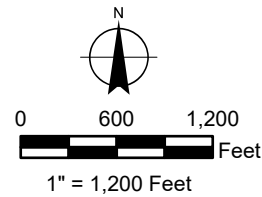


Image Source: Esri Street Map

Drawing Information

Project No:
B2303494

Drawing No:
AttK_WellMap

Drawn By: JPM
Date Drawn: 6/7/2023
Checked By: EE
Last Modified: 9/18/2024

Project Information

Aztec Estates
Mobile Home Park

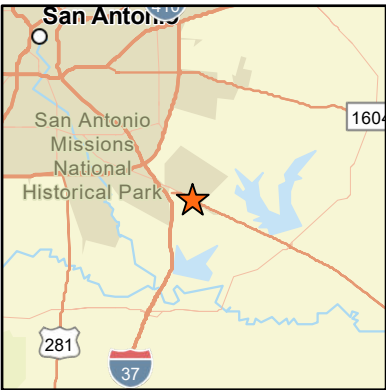
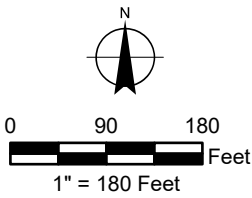
11704 South
US Highway 181

San Antonio, Texas

Well Map



- Approximate Site Boundary
- Bexar County Parcels
- Active Lateral Field
- Inactive Lateral Field
- Mobile Home/Building Not Connected to Septic System
- Mobile Home/Building Draining to Lateral Field 1
- Mobile Home/Building Draining to Lateral Field 2
- Mobile Home/Building Draining to Lateral Field 8
- Underground Sanitary Sewer Line
- Pipe Series
- Fence
- Septic Tank
- TWDB Well Reports
- Withdrawal of Water



BRAUN
INTERTEC
The Science You Build On.
10075 Windfern Rd
Houston, TX 77064
713.230.8436
braunintertec.com

Drawing Information

Project No:
B2303494

Drawing No:
AttB-H_SiteMap

Drawn By: JPM
Date Drawn: 6/7/2023
Checked By: EE
Last Modified: 9/18/2024

Project Information

Aztec Estates
Mobile Home Park

11704 South
US Highway 181

San Antonio, Texas

Site Map

Attachment B

Attachment D

Domestic Administrative Report Section 2 Type of Application

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 Click to enter text.

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

Expiration Date: Click to enter text.

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

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

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

Capstone Property Management, LLC

(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: 606026169

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

Prefix: Mr.

Last Name, First Name: John M. Harlan

Title: Managing Member

Credential: Click to enter text.

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

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

Click to enter text.

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

Attachment E

Domestic Technical Report; Worksheet 3.0 Section 2 Land Application Site

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 3.0: LAND DISPOSAL OF EFFLUENT

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

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

Identify the method of land disposal:

- | | |
|--|--|
| ☐ Surface application | ☒ Subsurface application |
| ☐ Irrigation | ☐ Subsurface soils absorption |
| ☐ Drip irrigation system | ☐ Subsurface area drip dispersal system |
| ☐ Evaporation | ☐ Evapotranspiration beds |
| ☒ Other (describe in detail): <u>Combined looped lateral line and gravel-less chamber system</u> | |

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

For existing authorizations, provide Registration Number: N/A

Section 2. Land Application Site(s) (Instructions Page 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
St. Augustine Grass, Meadow	2.18	8,741	N

Attachment F

Domestic Technical Report; Worksheet 3.0 Section 5 Cropping Plan

Annual Cropping Plan

The sub-surface land application area is located on an open meadow field that is restricted from public access by fencing, that is located adjacent to the mobile home park residences. The crop grown on the land application area is St. Augustine grass. St. Augustine grass is grown year-round, and is suitable for this climate and soil conditions, as shown in the attached information from the Texas A&M Agricultural extension. No fertilizers are added, as the soil analyses did not indicate the need for additional fertilization. The grasses are mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area, but no harvesting occurs. A site map indicating the location of the sub-surface irrigation area is provided in **Attachment H**.

- a. *A soils map depicting the location of the crops proposed or currently being grown.* These locations should be identified by field and crop on the soils map. A map of the native soils is provided in **Attachment M**. St. Augustine grass is the crops are grown at the site. The grass is routinely mowed, but no harvesting is performed.
- b. *All types of crops and acreage irrigated for each crop, including warm and cool season crops.* St. Augustine grass is grown year-round at the site and is suitable for both warm and cool seasons in the area, as shown in the attachment. The irrigation acreage is 2.18 acres.
- c. *Crop yield goals or estimates.* St. Augustine grass is grown year-round. The grass is mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. No harvesting is performed.
- d. *Growing seasons for each crop including months the field is left fallow (no crops).* St. Augustine grass is grown year-round. The grass is mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. No harvesting is performed.
- e. *Nutrient requirements for each crop, including additional fertilizer requirements for each crop, proposed additional fertilizer applications for each crop, and methods of fertilizer application for each crop, based on annual soil sampling and analysis.* St. Augustine grass is grown year-round. The grass is mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. No harvesting is performed. No fertilizers are applied to the irrigation area. See **Attachment M** for results of soil analyses. The soil analyses did not specify the need for addition of any fertilizers.
- f. *Provide the minimum and maximum harvest height for the crop (e.g., mowing height of grasses).* St. Augustine grass is grown year-round. The grass is mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. No harvesting is performed.
- g. *Supplemental watering requirements for each crop.* No additional watering is provided for the irrigation area. All required water is provided through precipitation and sub-surface irrigation.
- h. *Salt tolerances of each crop.* St. Augustine grass is grown year-round. St. Augustine grass is considered highly salt tolerant and suitable for growth in salt marshes, capable of growing in soil salt levels as high as 16 mmhos, as shown in the attached.
- i. *Describe the harvesting method and the proposed number of harvests for each crop.* St. Augustine grass is grown year-round. The grass is mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation area. No harvesting is performed.
- j. *If the proposed crop is existing native vegetation that will not be harvested, include a justification that the non-removal of crops will not lead to a buildup in nutrients.* St. Augustine grass is grown year-round. The grass is mowed on a regular basis to remove excess vegetation to allow routine inspection of the irrigation

area. No harvesting is performed. The site has been in operation as originally constructed since the early 1980's. Soil analyses are provided in **Attachment M** and indicate that the site soil salinity and SAR levels are low, indicating that nutrients are not appreciatively accumulating in the application area.

*If the proposed system is drip irrigation with a proposal to use the existing forested vegetation as a crop, then provide a vegetation survey by a certified arborist describing at a minimum: (1) the number of mature ashe juniper (*Juniperus ashei*) and oaks (*Quercus virginiana*) trees per acre, (2) the number of other trees per acre, (3) percent of overstory canopy cover, (4) the extent of open spaces, and (5) areas with forbs and grasses expressed as percent of the land of each application site. A mature tree is one with a minimum height of 14 feet. **Not Applicable, not a drip irrigation system.***

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St. Augustine Grass

Richard L. Duble, Turfgrass Specialist
Texas Cooperative Extension

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Origin and Distribution. St. Augustine grass is a widely used lawn grass along the Gulf Coast in the U.S., in Southern Mexico, throughout the Caribbean region, South America, South Africa, Western Africa, Australia and the South Pacific and Hawaiian Islands. The species is primarily of tropical origin and is native to sandy beach ridges, fringes of swamps and lagoons, salty and fresh water marshes and limestone shorelines. St. Augustine grass gradually moved inland to naturally open sites such as streambanks, lakeshores and other moist sites. It tolerates a wide range in soil types, but does not withstand waterlogged or droughty sites.

In the U.S., St. Augustine grass is found from the Carolinas to Florida and westward along the Gulf Coast to Texas and in Southern and Central California. Because of its lack of winter hardiness, St. Augustine grass is restricted to areas with mild winter temperatures. Like bermudagrass, St. Augustine thrives in high temperatures, but the growth of St. Augustine is better than that of bermudagrass in cool, coastal climates.

St. Augustine grass is native to the Gulf of Mexico region, the West Indies and Western Africa. For as long as there have been records, St. Augustine grass has been reported as a seashore pioneer along the Atlantic coasts of Africa and the Americas. Prior to 1800, the species was reported in Uruguay, Brazil, Nigeria, Sierra Leone, the West Indies, Bermuda and South Carolina. In the Pacific, records are not nearly as old, but it was reported in Kauai prior to 1800. By 1840, St. Augustine grass had also been collected from Australia and New Zealand.

Several variants or strains of St. Augustine grass have been reported. The normal strain in early records has a white stigma color and was found to be a fertile diploid with 18 chromosomes. A sterile triploid variant with purple-colored stigmas was first collected around the Cape of Good Hope in 1791. By 1900 it was being used for lawns in Natal and has since been planted in Rhodesia, the Congo, Senegal, Australia and Southern California. In Florida it has been planted for lawns since the 1890's.

St. Augustine grass was moved inland from coastal regions by man for use in pastures and lawns. Its requirements, other than mild winter temperatures, include moist and somewhat fertile soils. St. Augustine grass will not survive in dry inland areas without supplemental irrigation. It is not as drought tolerant or cold tolerant as bermudagrass; consequently, its inland movement has been restricted to states and countries bordering coastal zones.

This species is called "St. Augustine grass" and sometimes "carpetgrass" in the Southeastern United States and in California, "crabgrass" in Bermuda and the West Indies, "gramillon" in Argentina, "wiregrass" in St. Helena and "buffalograss" in Australia and the South Pacific.



Description. St. Augustine grass, *Stenotaphrum secundatum* (Walt.) Kuntze, is a perennial robust grass widely used for pastures and lawns. In the warmer climates of the tropics and subtropics it rivals bermudagrass in importance.

St. Augustine grass is a coarse textured, stoloniferous species that roots at the nodes. Unlike bermudagrass, St. Augustine grass does not have rhizomes. Its stems (stolons) and overlapping leaf sheaths are generally compressed; leaf blades generally folded, abruptly contracted at the base, rounded at the tip, and smooth; ligule is reduced to a short fringe of hairs; collar is petioled and the sheath greatly compressed and

ciliate along the margins. Inflorescences mostly terminal, some also axillary, spike like (corky) racemes and spikelets imbedded in main axis; each raceme bearing 1-3 spikelets; spikelets lanceolate or ovate, awnless and sessile; glumes membranous, the lower glume less than half as long as spikelet; lower floret staminate, upper floret complete and caryopsis ovate to oblong, 2.0-3.0 mm long, often failing to mature.

Adaptation and Use. St. Augustine grass is adapted to moist, coastal areas with mild winter temperatures. It is known to be tolerant of high summer temperatures, and St. Augustine grass retains its color at temperatures as much as 10° lower than those which discolor bermudagrass.

St. Augustine grass tolerates moderate shade, being as good or better than other warm season grasses for shaded sites. However, under densely shaded conditions, St. Augustine grass develops thin, spindly turf.

So long as fertility and drainage are adequate, St. Augustine grass tolerates a wide range of soil types. St. Augustine grass grows satisfactorily at a pH range from 5.0 to 8.5, but develops a chlorotic appearance in highly alkaline soils (above pH 7.5). It does not tolerate compacted or waterlogged soil conditions. St. Augustine grass is highly tolerant of soil salinity, producing satisfactory growth at salt levels as high as 16 mmhos. Bermudagrass will tolerate only slightly higher salt levels.

St. Augustine grass is used primarily for lawns as it does not tolerate traffic as well as some other warm season species. It produces satisfactory turf at moderate levels of maintenance, effectively competes with weeds and other grasses and has only a few serious pests.

In moist, warm climates St. Augustine grass maintains a satisfactory turf cover with only occasional mowing. In drier climates (below 30 inches annual rainfall) it survives with supplemental irrigation. At higher maintenance levels, St. Augustine grass produces a thick, lush, dark green turf that is highly preferred by homeowners.

Varieties. Since St. Augustine grass has been propagated vegetatively for 200 years, only a few strains or varieties have evolved and none have been developed through grass breeding programs. The common strain, a fertile diploid with a white stigma color, is native to the Gulf-Caribbean-W. African region. This species may have crossed with another species of *Stenotaphrum* to produce the sterile triploid strain originally reported in S. Africa. This strain, distinguished from the common strain by its purple stigma color, has been found in Australia, New Zealand and in the Pacific Islands. It has been planted in Florida since the 1890's and in California since 1920.

Several selections from Florida were made available prior to 1960. Floratine, a purple stigma type, was released by the Florida Agricultural Experiment Station in 1959. Floratine was released for its somewhat finer texture and darker green color than the typical purple stigma type strain found in Florida prior to that time. It also retains its dark green color long into the fall and was reported to tolerate closer mowing than other St. Augustine grass selections.

Prior to Floratine, Bitter Blue was selected as an improvement over coarser textured types of St. Augustine grass used in Florida for lawns. Both of these selections, Floratine and Bitter Blue, are similar to the coarse textured triploid types reported in Florida prior to 1900.

Floratam St. Augustine grass was released by the Florida and Texas Agricultural Experiment Stations in 1972 as a SAD virus and chinch bug resistant selection. Like other Florida types, Floratam is a vigorous, coarse textured St. Augustine grass variety. Floratam has a purple stigma color and is sterile. Stolons of Floratam are large, purplish-red in color with internodes averaging 3 inches in length. Leaf blades are wider and longer than common St. Augustine grass. The morphological characteristics of Floratam are similar to those of Roselawn St. Augustine grass which is used as a pasture grass on muck soils in south Florida.

Floratam is not as cold tolerant as the common type found in Texas. Its use should be restricted to south Florida and the coastal zones of other southern states. Floratam also lacks the degree of shade tolerance that other St. Augustine grass varieties possess.

Seville St. Augustine grass was released by the O. M. Scott and Sons Company in 1980 as a SAD resistant and chinch bug tolerant variety. Seville is much finer textured than Floratam, but it too lacks the necessary cold tolerance to extend its area of adaptation beyond the southern boundaries of the Gulf Coast.

Raleigh St. Augustine grass was released by the North Carolina Experiment Station in 1980 as a cold tolerant, SAD resistant strain. Raleigh is finer textured than Floratam and develops a dense turf much like the Texas Common strain of St. Augustine grass. Raleigh is also more shade tolerant than Floratam. But, unlike Floratam, Raleigh is not resistant to lawn chinch bugs.

A strain of St. Augustine grass grown and produced commercially in Texas since 1920 is called Texas Common. Texas Common is typical of the white stigma type reported to be native to the Gulf-Caribbean-West African region. Texas Common was found to be a fertile diploid with 18 chromosomes. Seedling progeny from this white stigma type show wide variations in morphological characters. However, since the strain has been propagated vegetatively for over 100 years, only a few variations in the grass have been produced. Natural variants of the common strain are found throughout the state. It is assumed that these variants developed from seed produced by the common strains of St. Augustine grass.

Dwarf and variegated types of St. Augustine grass have also been selected from seed produced by Texas Common. However, these strains are more ornamental and novelty grasses than turfgrasses. One of the dwarf types (patented in the U.S. as Garretts 141) has been evaluated for its seed production potential. However, Garrets 141 and its progeny lacks the cold tolerance necessary to extend its area of adaptation beyond Southern Florida and South Texas in the United States.

Propagation. As long as St. Augustine grass has been cultivated, it has been propagated by vegetative means -- stolons, plugs or sod. Only recently has the seed production potential of St. Augustine grass been realized; but, as yet, significant use has not been made of that potential.

As reported by Long and Bashaw at Texas A&M in 1961 only a few strains of St. Augustine grass are fertile. The common strain of St. Augustine grass found in Texas is generally fertile; whereas, the strains used in Florida since before 1900 were found to be sterile.

St. Augustine grass is readily established from sod since the species is vigorous and spreads rapidly by creeping stolons. Sod plugs or stolons planted on 1 to 2 foot spacings can be expected to cover in one growing season. In commercial St. Augustine grass production 300 to 500 square yards (bushels) of sod are planted per acre. In small lawn plantings, 2 to 4 square inch sod plugs are planted on 1 to 2 foot spacings. St. Augustine grass can be successfully established from plugs anytime during the growing season if water is available.

Unlike bermudagrass, St. Augustine grass is not effectively propagated from stolons. St. Augustine grass stolons are much more prone to desiccation than bermudagrass. Also, bermudagrass roots much faster and has a faster growth rate than St. Augustine grass. As a result, St. Augustine grass is not successfully established by hydromulching or broadcasting stolons.

Some St. Augustine grass strains can be established from seed by planting at 1/3 to 1/2 pound of PLS per 1,000 square feet. The rate of establishment from seed planted at that rate would be about the same as for 2 inch sod plugs planted on 1 foot spacings. A seeded St. Augustine grass lawn should be kept moist for several weeks after planting to obtain a satisfactory stand of grass. Only after the seedlings have begun to spread can the grass tolerate dry conditions. St. Augustine grass should be seeded in late spring to early summer.

Fertilization during the establishment period (first three months after planting) is critical to developing a complete cover of St. Augustine grass. A starter fertilizer (one high in phosphorous) or a balanced, complete fertilizer should be applied at planting time. Subsequent applications of nitrogen at monthly intervals at a rate of 1 pound per 1,000 square feet will promote rapid spread of St. Augustine grass plugs. Weeds can be controlled preemerge with atrazine or post emerge with asulam (Asulox) and hormone-type herbicides (2,4-D, MCPP,

dicamba).

Management. After establishment the success of St. Augustine grass as a lawn grass depends largely on management. Mowing, fertilization and supplemental watering are required to maintain a dense, green, weed-free turf of St. Augustine grass. In coastal areas where rainfall is adequate, St. Augustine grass will survive with little care. In inland areas, where rainfall is less dependable, close management of water is required to maintain a satisfactory lawn with St. Augustine grass.

The growth rate of St. Augustine grass is dependent on temperature, moisture availability and nutrient availability. Any one of these factors can limit the rate of growth of this species. In the spring with mild daytime temperatures and cool night temperatures, St. Augustine grass greens up, but makes little growth. As day and night temperatures increase during late spring and summer, the growth rate increases. Thus, an established turf of St. Augustine grass may require mowing every 2 weeks in early spring and as often as every five days by late spring if nitrogen fertilizer is applied.

During the fall, as temperatures cool, St. Augustine grass maintains its dark green color, but its growth rate declines sharply. Mowing frequency may be reduced to twice monthly during late fall and early winter.

Mowing heights may range from 1 to 3 inches depending on the frequency of mowing and the degree of shade present. At mowing heights below two inches, St. Augustine grass should be mowed every five days during late spring and summer. At a 2 1/2 inch mowing height, a 7-10 mowing schedule is adequate. Above 2 1/2 inches, St. Augustine grass should be mowed at 10 to 14 day intervals. In moderate to dense shade, St. Augustine grass should be mowed at about 3 inches at 10 day intervals.

During the fall, mowing height should be raised about 1/2 inch to increase total leaf area of the turf. The increased leaf area will help the grass accumulate energy reserves to get through the winter. The greater leaf area will also help prevent weed invasion during the dormant season.

St. Augustine grass is responsive to nitrogen fertilizer in terms of color and growth rate. On sandy soils St. Augustine grass requires about 1 pound of nitrogen per 1,000 square feet per month during the growing season to maintain satisfactory color and density. At rates above 1 pound per 1,000 square feet, St. Augustine grass produces lush growth that is highly susceptible to insects and diseases. On heavier textured soils 1/2 pound of nitrogen every month is adequate to maintain good color and growth. Thatch accumulation is also a problem when nitrogen fertilization exceeds the required rate.

Late fall fertilization of St. Augustine grass helps maintain color and density of the lawn into the winter and promotes early recovery of the grass in the spring. Thus, to extend the length of time a St. Augustine lawn is attractive, the lawn should receive about 1 pound of nitrogen every 30 to 60 days from early spring through late fall.

St. Augustine grass is sensitive to iron deficiency and readily develops chlorotic symptoms in alkaline or iron deficient soils. This deficiency can be corrected with foliar applications or iron sulfate or iron chelate. Soil applications of iron sources are less effective than foliar application in alkaline soils.

Potassium requirements for St. Augustine grass are about the same as for other grasses. About half as much potassium as nitrogen is required to maintain growth. Potassium has been shown to increase root growth, cold tolerance and drought tolerance in St. Augustine grass.

Phosphorous requirements for established St. Augustine grass are very low and generally met from the soil. Occasional applications of a phosphorous fertilizer material may be required. Newly planted St. Augustine grass will respond to phosphorous fertilizers in terms of an increased rate of spread.

Insects. Several insect pests cause serious damage to St. Augustine grass lawns. The Southern lawn chinch bug is the most serious pest on St. Augustine grass in Florida where the insect is active most of the year. In other

states it ranks among the most serious pests along with SAD, brownpatch and white grub.

The chinch bug damages St. Augustine grass by feeding on the stems at the base of the leaf sheath. Populations of chinch bugs may reach several hundred per square foot with damage usually apparent at 20 to 30 chinch bugs per square foot. Initial injury symptoms from chinch bugs resembles drought stress -- stunted, chlorotic spots in open (full sun) areas of the lawn. As feeding continues, irregular areas of dead grass develop in the lawn.

Timely applications of insecticides will control chinch bugs. Two or more treatments are required during the growing season in most areas, and as many as 5 or 6 may be required in some areas of Florida. Floratam St. Augustine grass is resistant to the Southern lawn chinch bug and is widely used in South Texas where the grass is adapted. In Florida severe damage to Floratam has been observed in lawns infested with chinch bugs.

White grub are also a serious pest on St. Augustine grass lawns. The grubs are the larvae of the May beetle or June bug that develop in the summer and fall just below the soil surface. The grubs feed on roots of St. Augustine grass and cause significant losses of turf during some years. Damage usually appears the following year as dead areas of grass that can be easily lifted from the lawn.

Grub control is difficult since the larvae are often quite large when detected and feed below the soil surface. Also, for them to be effective, insecticides must be drenched into the soil where the insects feed. Since some insecticides are tightly bound to the thatch layer of St. Augustine grass, drenching the material into the soil is difficult.

Timely and proper application of insecticides is the only method of controlling white grubs. Since they are only an occasional problem, inspection of the turf in midsummer is required for effective control. Biological control with milky spore disease has not been effective against this species of white grub.

Sod webworms, armyworms and cutworms can also feed on St. Augustine grass leaves and can cause damage when infestations are heavy. Evidence of heavy feeding by these insects includes a skeletonized appearance of leaf blade, silk-like webs visible in early morning (webs cover earthen tunnel in the thatch layer of turf) or defoliation of lawn in irregular patches. All of the leaf-feeding insects can be easily controlled by insecticides or biological worm control. (*Bacillus* sp.)

Ground pearls, subterranean scale insects that feed on roots of grasses, can also cause damage to St. Augustine grass lawns. The scale insects attach themselves to grass roots and secrete a waxlike shell around their bodies that resembles a pearl. At the immature scale inside the pearl grows larger, the pearl also increases in size. The pearl may reach 1/8 inch in diameter, and can be found attached to grass roots in the top several inches of soil.

Ground pearl damage becomes evident in spring and summer, particularly during dry periods, as small irregular areas of unthrifty or dead grass. Insecticide treatment should be made in May or early June when the insect is in the crawler stage. Consecutive treatments for 2 or more years may be required for effective control.

Diseases. St. Augustine grass is susceptible to a number of turfgrass diseases including brownpatch, SAD, gray leaf spot, *Helminthosporium*, *Pythium*, rust, downy mildew and others. All of these diseases, except SAD, are caused by fungi and can be controlled by good management and fungicides. SAD is a virus disease for which there is no chemical control. Only resistant varieties of St. Augustine grass are effective against this disease. Floratam, Seville, Raleigh and several experimental varieties have shown good resistance to the SAD virus.

Brownpatch and gray leaf spot are the most serious diseases caused by fungi attacking St. Augustine grass. Although these diseases rarely kill St. Augustine, they severely weaken and thin the grass to the degree that the lawn is unsightly. Preventive applications of fungicides are most effective against these diseases.

Weeds. A healthy St. Augustine grass lawn effectively crowds out most weeds. But St. Augustine grass that is not properly maintained or is weakened by insects or disease can be invaded by grassy and broadleaved weeds. Cool season weeds such as henbit, chickweed and clover are a serious problem in dormant St. Augustine grass.

These weeds can be controlled by hormone-type herbicides in early spring.

Annual grassy weeds such as fescue, annual bluegrass and crabgrass are best controlled by timely applications of preemergence herbicides. Perennial grasses such as dallisgrass and bermudagrass are difficult to control in St. Augustine grass turf. Nonselective products can be applied as directed sprays to these weeds to obtain control.

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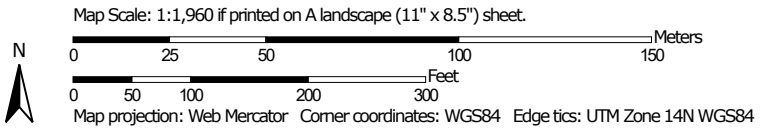
Attachment G

Domestic Technical Report; Worksheet 3.0 Section 8 A Soil Map

Soil Map—Bexar County, Texas
(ActiveLateralField)



Soil Map may not be valid at this scale.



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

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

Date(s) aerial images were photographed: Dec 3, 2020—Dec 9, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CfA	Miguel fine sandy loam, 0 to 1 percent slopes	0.2	8.9%
CfB	Miguel fine sandy loam, 1 to 3 percent slopes	0.9	42.0%
WeC2	Floresville fine sandy loam, 1 to 5 percent slopes, eroded	1.1	49.1%
Totals for Area of Interest		2.2	100.0%

Bexar County, Texas

CfB—Miguel fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2wt0c

Elevation: 200 to 850 feet

Mean annual precipitation: 27 to 35 inches

Mean annual air temperature: 70 to 72 degrees F

Frost-free period: 270 to 300 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Miguel and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Miguel

Setting

Landform: Low hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy and/or clayey residuum weathered from sandstone and/or mudstone

Typical profile

A - 0 to 11 inches: fine sandy loam

Bt - 11 to 33 inches: sandy clay

Btk - 33 to 43 inches: sandy clay loam

BC - 43 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 30.0

Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Minor Components**Bryde**

Percent of map unit: 2 percent

Landform: Low hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve, side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Wilco

Percent of map unit: 2 percent

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Tiocano

Percent of map unit: 1 percent

Landform: Depressions

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R083AY007TX - Lakebed

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

WeC2—Floresville fine sandy loam, 1 to 5 percent slopes, eroded

Map Unit Setting

National map unit symbol: 2sxt^r

Elevation: 240 to 790 feet

Mean annual precipitation: 26 to 32 inches

Mean annual air temperature: 70 to 74 degrees F

Frost-free period: 275 to 300 days

Farmland classification: Not prime farmland

Map Unit Composition

Floresville, eroded, and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Floresville, Eroded

Setting

Landform: Ridges

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy residuum weathered from sandstone

Typical profile

A - 0 to 6 inches: fine sandy loam

Bt - 6 to 30 inches: clay

Bk - 30 to 44 inches: sandy clay loam

BCK - 44 to 80 inches: sandy clay loam

Properties and qualities

Slope: 1 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water supply, 0 to 60 inches: Moderate (about 8.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Minor Components

Miguel

Percent of map unit: 3 percent

Landform: Terraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Wilco

Percent of map unit: 2 percent

Landform: Paleoterraces

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

Bexar County, Texas

CfA—Miguel fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 2wt09

Elevation: 300 to 850 feet

Mean annual precipitation: 27 to 35 inches

Mean annual air temperature: 70 to 72 degrees F

Frost-free period: 270 to 300 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Miguel and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Miguel

Setting

Landform: Low hills

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Loamy and/or clayey residuum weathered from sandstone and/or mudstone

Typical profile

A - 0 to 11 inches: fine sandy loam

Bt - 11 to 33 inches: sandy clay

Btk - 33 to 43 inches: sandy clay loam

BC - 43 to 80 inches: sandy clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 30.0

Available water supply, 0 to 60 inches: Moderate (about 7.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: R083AY024TX - Tight Sandy Loam

Hydric soil rating: No

Minor Components

Wilco

Percent of map unit: 2 percent

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Leming

Percent of map unit: 2 percent

Landform: Stream terraces

Landform position (three-dimensional): Tread

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: R083AY022TX - Loamy Sand

Hydric soil rating: No

Tiocano

Percent of map unit: 1 percent

Landform: Depressions

Landform position (three-dimensional): Dip

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: R083AY007TX - Lakebed

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Bexar County, Texas

Survey Area Data: Version 27, Aug 31, 2023

Attachment H

Domestic Technical Report; Worksheet 3.0 Section 8, Table 3.0(4) Soil Data

Table 3.0(4) – Soil Data

Soil Series	Depth from Surface	Permeability	Available Water Capacity	Curve Number
Miguel fine sandy loam	80 In	Well-drained	0-60 In	71
Floresville fine sandy loam	80 In	Well-drained	0-60 In	71

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 Not Applicable – No existing permit is available

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



PERMIT NO. WQ0016597001

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

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

Capstone Property Management, LLC

whose mailing address is

5900 Balcones Drive, Suite 100
Austin, Texas 78731

Nature of Business Producing Waste: Domestic wastewater treatment operation, SIC Code 6515.

General Description and Location of Waste Disposal System:

Description: The Aztec Estates MHP Wastewater Treatment Facility consists of septic tanks and subsurface gravity drainfields. Treatment units include ten septic tanks with a total volume of 36,500 gallons. The permittee is authorized to dispose of treated domestic wastewater effluent at a daily average flow not to exceed 0.0087 million gallons per day via non-public access subsurface gravity/low pressure dosing drainfields with a minimum area of 2.18 acres. The facility includes at least 3 days of storage between the ten septic tanks which have a total capacity of 36,500 gallons. Application rates shall not exceed 0.1 gallons per square foot per day. The permittee will maintain St Augustine grass (warm season) overseeded with Winter Ryegrass (cool season) on the disposal site.

Location: The wastewater treatment facility and disposal site are located at 11704 South U.S. Highway 181, in Bexar County, Texas 78223. (See Attachment A.)

Drainage Area: The wastewater treatment facility and disposal site are located in the drainage basin of Upper San Antonio River in Segment No. 1911 of the San Antonio 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, **five years from the date of issuance.**

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

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

A. Effluent Limitations

Character: Treated Domestic Sewage Effluent

Volume: Daily Average Flow – 0.0087 MGD from the treatment system

Quality: The following effluent limitations are required:

<u>Parameter</u>	<u>Effluent Concentrations</u>	
	(Not to Exceed)	
	<u>Daily Average mg/l</u>	<u>Single Grab mg/l</u>
Biochemical Oxygen Demand (5-day)	N/A	100

B. Monitoring Requirements:

<u>Parameter</u>	<u>Monitoring Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Totalizing Meter
Biochemical Oxygen Demand (5-day)	One/month	Grab

The monitoring shall be following the final treatment unit(s) and prior to land application (See Attachment B). 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.

TCEQ Revision 06/2020

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 13) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) 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 monofill) and whether the material is ultimately conveyed off-site in bulk or in bags.

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

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

A. Pollutant Limits

Table 2

<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 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) 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 13) 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 13) and the Enforcement Division (MC 224), by September 30th of each year.

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

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

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

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

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC224).

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

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

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

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

A. General Requirements

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

B. Record Keeping Requirements

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

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

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

TCEQ Revision 06/2020

SPECIAL PROVISIONS:

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

This Category 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.

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. Application rates shall not exceed 0.1 gallons per square foot per day. The permittee is responsible for providing equipment for determining 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 least three years.
5. The permittee shall use cultural practices to promote and maintain the health and propagation of St Augustine grass (warm season) overseeded with Winter Ryegrass (cool season). The crops shall be maintained to avoid plant lodging. The permittee shall harvest the crops (cut and remove the grass clippings) at least once during the year. Harvesting and mowing dates shall be recorded in a logbook kept on site to be made available to TCEQ personnel upon request.
6. The physical condition of the land application fields shall be monitored on a weekly basis. Any area with problems such as surface runoff, surficial erosion, or stressed or damaged vegetation, etc., shall be recorded in a field log kept onsite. Corrective measures will be implemented within 24 hours of discovery.

7. Subsurface 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. St Augustine grass (warm season) overseeded with winter ryegrass (cool season) shall be established and well maintained in the irrigation area throughout the year for effluent and nutrient uptake by the crop and to prevent pathways for effluent rising.
8. For any area where treated effluent is stored or where there exist hose bibs or faucets, the permittee shall erect adequate signs stating that the irrigation water is from a non-potable water supply. Signs shall consist of a red slash superimposed over the international symbol for drinking water accompanied by the message "DO NOT DRINK THE WATER" in both English and Spanish. All piping transporting the effluent shall be clearly marked with these same signs.
9. The subsurface system shall be designed and managed so as to prevent seepage or percolation out of the root zone, other than leaching in the amount required to maintain the health of the vegetative cover. Surfacing and ponding is prohibited. Creating a condition at the treatment facility or the drip dispersal zones that contributes to vector attraction or odor is prohibited.
10. Effluent shall not be applied for irrigation when the ground is frozen or saturated.
11. Emitters shall be installed a minimum of six (6) inches below the soil surface. A minimum of 12 inches of soil shall exist below the plane of the driplines.
12. The permittee shall obtain representative soil samples from the root zones of the land application area receiving wastewater. Composite sampling techniques shall be used. Each composite sample shall represent no more than 2.18 acres with no less than one (1) cores per dosing bed (zone) representing each composite sample. Subsamples shall be composited by like sampling depth, type of crop and soil type for analysis and reporting. Soil types are soils that have like topsoil or plow layer textures. These soils shall be sampled individually from 0 to 12 inches and 12 to 24 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 sample 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	Obtained from the SAR water saturated paste extract	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 plus Nitrate-nitrogen		mg/kg (dry weight basis)
Plant-available: Phosphorus	Mehlich III with inductively coupled plasma	1 (P)	mg/kg (dry weight basis)
Plant-available: Potassium (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)
Water-soluble: Sodium (Na) Calcium (Ca) Magnesium (Mg)	Obtained from the SAR water saturated paste extract	1 (Na) 1 (Ca) 1 (Mg)	Water soluble constituents are reported in mg/L
Sodium Adsorption Ratio (SAR)	$SAR = \frac{Na}{\sqrt{\frac{(Ca + Mg)}{2}}}$		Express concentrations of Na, Ca and Mg in the water saturated paste extract in milliequivalents/liter (meq/L) to calculate the SAR. The SAR value is unit less. If the SAR is greater than 10, amendments (e.g., gypsum) shall be added to the soil to adjust the SAR to less than 10.
Amendment addition, e.g., gypsum			Report in short tons/acre in the year effected

A copy of this soil testing plan shall be provided to the analytical laboratory prior to sample analysis. The permittee shall submit the results of the annual soil sample analyses with copies of the laboratory reports and a map depicting the areas that have received wastewater within the permanent land application fields to the TCEQ Regional Office (MC Region 13) and the Compliance Monitoring Team (MC 224), no later than September 1st of each sampling year. If wastewater is not applied in a particular year, the permittee shall notify the

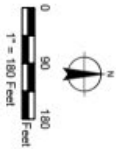
same TCEQ offices and indicate that wastewater has not been applied on the approved land irrigation site(s) during that year.

13. The permittee shall comply with buffer zone requirements of 30 TAC Section § 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. A land application field must be located a minimum horizontal distance of 150 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.
14. The applicant shall develop a Springs/Seeps Monitoring Plan and submit the plan to the TCEQ Water Quality Assessment Team (MC-150) for review and approval within 30 days of permit issuance. At a minimum, the plan shall include:
 - a. A procedure to conduct quarterly field checks at the subsurface system and down-gradient of the fields to identify emerging springs or seeps.
 - b. A procedure to sample springs or seeps in the event that springs/seeps develop after drip irrigation of effluent commences.
 - c. Quarterly field checks and sampling (if applicable) of the springs/seeps during the spring and fall sampling events shall occur after a minimum rainfall event of 0.5-inch, if possible.
 - d. Analysis of springs/seeps water for nutrients, including, but not limited to, a complete nitrogen series [(Nitrate (as N), Nitrite (as N), Total Kjeldahl Nitrogen, ammonia as N], total phosphorus, ortho-phosphate, chlorides, fecal coliform, and specific conductivity.
 - e. A record of the quarterly checks and sampling of the springs and seeps shall be maintained in a field log and kept onsite for TCEQ inspection.
 - f. Monitoring of emerging and existing springs/seeps shall continue for the life of the system.
 - g. The applicant shall submit the data from the Seeps/Springs Monitoring Plan to the Water Quality Assessment Team (MC-150) of the Water Quality Division, the TCEQ Region 13 (San Antonio) Office, and the Compliance Monitoring Section (MC-224) during the month of September of each year for review even if no springs or seeps are found.
 - h. A procedure for the implementation of corrective measures to remedy the discharge if laboratory analysis indicates that wastewater is emerging as a seep or spring.
 - i. The permittee shall implement the plan upon approval by the Water Quality Assessment Team. The executive director may request modification of the approved plan if future information indicates that it would be necessary for the protection of the environment.
15. The permittee shall construct berms or swales, or other engineering controls to prevent or divert stormwater from entering all subsurface wastewater application areas.
16. **Within 60 days of permit issuance** 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 representative of the TCEQ.

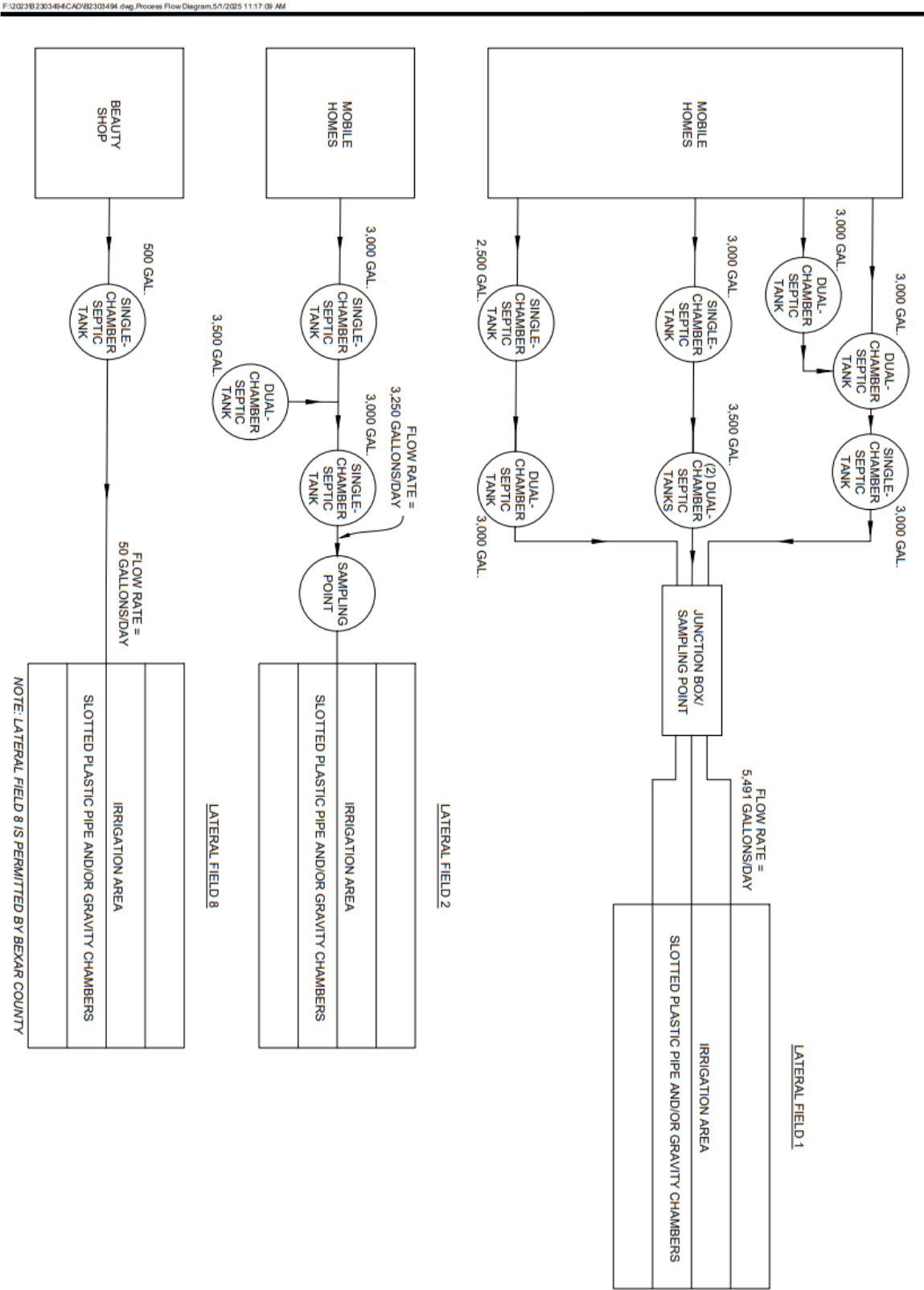
17. The permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).
18. The permittee shall pump and haul wastewater from the facility to prevent the discharge of treated or untreated wastewater if complete shutdown of the wastewater treatment facility becomes necessary or if the storage capacity is exceeded.
19. Permanent transmission lines shall be installed from the treatment system to each drainfield area.
20. The permittee shall monitor the accumulation of solids in the septic tank once every six months. Solids shall be removed once every two years or more frequently if necessary based upon accumulation of solids. The permittee shall maintain records of the dates of inspection and the dates on which solids were removed. These records shall be maintained on-site for a minimum of three years.

Attachment 'A' – Site Map



- Orange outline: Approximate Site Boundary
- Black outline: Bexar County Parcels
- Yellow circle: Pump
- Yellow circle with cross: Septic Tank
- Yellow circle with cross: Septic Tank/Pump
- Blue dashed line: Underground Sanitary Sewer Line
- Blue dashed line: Fence
- Light blue area: Active Lateral Field
- Dark blue area: Inactive Lateral Field
- Yellow area: Mobile Home/Building Not Connected to Septic System
- Light blue area: Mobile Home/Building Draining to Lateral Field 1
- Dark blue area: Mobile Home/Building Draining to Lateral Field 2
- Yellow area: Mobile Home/Building Draining to Lateral Field 8
- Blue circle: TWDB Well Reports
- Blue circle: Withdrawal of Water

Attachment 'B' – Flow Diagram



TECHNICAL SUMMARY AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant:	Capstone Property Management, LLC TCEQ Permit No. WQ0016597001
Regulated Activity:	Domestic Wastewater Permit
Type of Application:	New Permit
Request:	New Permit
Authority:	Texas Water Code (TWC) § 26.027; 30 Texas Administrative Code (TAC) Chapters 305, 309, 312, 319, and 30; and Commission policies.

EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five 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

Capstone Property Management, LLC has applied to the Texas Commission on Environmental Quality (TCEQ) for new Permit No. WQ0016597001 to authorize the disposal of treated domestic wastewater at a daily average flow not to exceed 0.0087 million gallons per day (MGD) via non-public access subsurface gravity/low pressure dosing drainfields with a minimum area of 2.18 acres. The facility includes at least 3 days of storage between the ten septic tanks which have a total capacity of 36,500 gallons. The existing wastewater treatment facility serves the Aztec Estates Mobile Home Community. The facility was originally permitted by Bexar County, commencing in 1975. However, because of a TCEQ investigation conducted at the site in 2016, the prior owner was issued an enforcement action (TCEQ Docket No. 2016-1035-MWD-E) on August 8, 2018, that required the facility to obtain a TCEQ permit for the wastewater system within 365 days of the effective date of the order. The prior property owner believed that the system was exempt from TCEQ permitting, since it had been permitted through the County, and was grandfathered from current On-Site Septic Systems (OSSF) regulations due to its construction date. However, the TCEQ found that repairs made to the system over time invalidated that exemption, thus requiring the system to be permitted.

PROJECT DESCRIPTION AND LOCATION

The Aztec Estates MHP Wastewater Treatment Facility consists of septic tanks and subsurface gravity drainfields. Treatment units include ten septic tanks with a total volume of 36,500 gallons. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed

Capstone Property Management, LLC

Permit No. WQ0016597001

Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

of at a TCEQ-authorized municipal solid waste processing facility, Second Nature Compost LLC, Registration No. 42044, in Bexar County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

The wastewater treatment facility and disposal site are located at 11704 South U.S. Highway 181 in Bexar County, Texas 78223.

The wastewater treatment facility and disposal site are located in the drainage basin of Upper San Antonio River in Segment No. 1911 of the San Antonio 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 is in operation but was not previously permitted by the TCEQ.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the disposal of treated domestic wastewater effluent at a daily average flow not to exceed 0.0087 MGD via non-public access subsurface gravity/low pressure dosing drainfields with a minimum area of 2.18 acres. The facility includes at least 3 days of storage between the ten septic tanks which have a total capacity of 36,500 gallons. Application rates shall not exceed 0.1 gallons per square foot per day. The permittee will maintain St Augustine grass (warm season) overseeded with Winter Ryegrass (cool season) on the disposal site.

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. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-authorized compost recycling facility, Second Nature Compost LLC, MSW Registration No. 42044, in Bexar County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

SUMMARY OF CHANGES FROM APPLICATION

None.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on August 9, 2024, and additional information received on February 19, 2025.

2. Interoffice Memorandum from the Water Quality Assessment Team, Water Quality Assessment & Standards Section, Water Quality Division.

PROCEDURES FOR FINAL DECISION

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

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision and draft permit in the public place with the application.

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

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

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

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

Capstone Property Management, LLC

Permit No. WQ0016597001

Statement of Basis/Technical Summary and Executive Director's Preliminary Decision

For additional information about this application, contact J. Alfonso Martinez III at (512) 239-4668.

JAM III

J. Alfonso Martinez III
Municipal Permits Team
Wastewater Permitting Section (MC 148)

February 14, 2025
Date