



Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
 - English
 - Alternative Language (Spanish)
 2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
 - English
 - Alternative Language (Spanish)
 3. Application materials
-



Portada de Paquete Administrativo

Este archivo contiene los siguientes documentos:

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

English Plain Language Summary

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

Lennar Homes of Texas Land and Construction, LTD, 5505 Waterford District Dr Miami, FL 33126, and Saldana, Jose A, 14040 Mint Trail Dr, San Antonio TX 78232, applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Pollutant Discharge Elimination System (TPDES) Permit to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 990,000 gallons per day via a discharge point that flows into West Lucas Creek thence to Lucas Creek, thence to Borrego Creek, thence to Segment 2107 of the Lower Atascosa River.

The domestic wastewater treatment facility will be located approximately 4,455 ft southeast from the intersection of I-37 and Hardy Rd, near the city of San Antonio, Bexar County, Texas 78264. The permit application will be available for viewing and copying at McCreless Branch Library, 1023 Ada St, San Antonio, in Bexar County, TX 78223.

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



Spanish Plain Language Summary

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

Lennar Homes of Texas Land and Construction, LTD, 5505 Waterford District Dr Miami, FL 33126, y Saldana, Jose A, 14040 Mint Trail Dr, San Antonio TX 78232, solicitaron a la Comisión de Calidad Ambiental de Texas (TCEQ) un Nuevo Texas Sistema de Eliminación de Descargas Contaminantes (TPDES) Permiso para autorizar la disposición de aguas residuales tratadas en un volumen que no exceda un flujo promedio diario de 990,000 galones por día a través de un punto de descarga que desemboca en West Lucas Creek, luego en Lucas Creek, luego en Borrego Creek y luego en el segmento 2107 del río Lower Atascosa.

La instalación de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a 4,455 pies al sureste de la intersección de la I-37 y Hardy Rd, cerca de la ciudad de San Antonio, condado de Bexar, Texas 78264. La solicitud de permiso estará disponible para ver y copiar en la biblioteca McCreless Branch. , 1023 Ada St, San Antonio, en el condado de Bexar, TX 78223.

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



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

PROPOSED PERMIT NO. WQ0016737001

APPLICATION. Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana, 5505 Waterford District Drive, Miami, Florida 33126, have applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016737001 (EPA I.D. No. TX0147516) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 990,000 gallons per day. The domestic wastewater treatment facility will be located approximately 4,455 feet southeast of the intersection of Hardy Road and Interstate Highway 37, near the city of San Antonio, in Bexar County, Texas 78264. The discharge route will be from the plant site to West Lucas Creek, thence to Lucas Creek, thence to Borrego Creek, thence to Lower Atascosa River. TCEQ received this application on February 24, 2025. The permit application will be available for viewing and copying at McCreless Branch Library, 1023 Ada Street, San Antonio, in Bexar County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.4224,29.131&level=18>

ALTERNATIVE LANGUAGE NOTICE. Alternative language notice in Spanish is available at: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>.

El aviso de idioma alternativo en español está disponible en

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

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

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a

public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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 Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana at the address stated above or by calling Ms. Janela Revilla, JA Wastewater, LLC, at 737-864-3476.

Issuance Date: March 17, 2025

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ0016737001

SOLICITUD. Lennar Homes of Texas Land and Construction, Ltd. y Jose A. Saldana, 5505 Waterford District Drive, Miami, Florida 33126, han solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016737001 (EPA I.D. No. TX0147516) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 990.000 galones por día. La planta estará ubicada aproximadamente 4.455 pies al sureste de la intersección de Hardy Road y la autopista interestatal 37, cerca de la ciudad de San Antonio, en el condado de Bexar, Texas 78264. La ruta de descarga es del sitio de la planta a West Lucas Creek, de allí a Lucas Creek, de allí a Borrego Creek, de allí al río Atascosa inferior. La TCEQ recibió esta solicitud el 24 de febrero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en McCreless Branch Library, 1023 Ada Street, San Antonio, condado de Bexar, Texas, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

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

Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.4224,29.131&level=18>

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar

la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o si un legislador local lo pide. Una reunión pública no es una audiencia administrativa de lo contencioso.

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

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

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

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

correos siguientes (1) la lista de correo permanente para recibir los avisos 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 agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana a la dirección indicada arriba o llamando a Ms. Janela Revilla, JA Wastewater, LLC, al 737-864-3476.

Fecha de emisión el 17 de marzo de 2025

Leah Whallon

From: Janela Revilla <jrevilla@jawastewater.com>
Sent: Thursday, March 6, 2025 9:18 AM
To: Leah Whallon
Cc: Jamie Miller
Subject: Re: Application for Proposed Permit No. WQ0016737001; Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana; Saldana WWTF
Attachments: 2025.03.06_Admin_NOD_Response.pdf; Mailing Labels.docx; Spanish Translation.docx
Follow Up Flag: Follow up
Flag Status: Flagged

Good morning Leah,

Please see our response in the attached pdf along with revised forms.

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

Thanks,
Janela Revilla



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

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Wednesday, March 5, 2025 12:32 PM
To: Janela Revilla <jrevilla@jawastewater.com>
Cc: Jamie Miller <jmiller@jawastewater.com>
Subject: Application for Proposed Permit No. WQ0016737001; Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana; Saldana WWTF

Good Afternoon,

Please see the attached Notice of Deficiency letter dated March 5, 2025 requesting additional information needed to declare the application administratively complete. Please send the complete response by March 19, 2025.

Please let me know if you have any questions.

Thank you,



Leah Whallon

Texas Commission on Environmental Quality

Water Quality Division

512-239-0084

leah.whallon@tceq.texas.gov

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

RE: Application for Proposed Permit No.: WQ0016737001 (EPA I.D. No. TX0147516)
Applicant Name: Lennar Homes of Texas Land and Construction, Ltd. (CN602412207); Jose A. Saldana (CN606356889)
Site Name: Saldana WWTF (RN112153663)
Type of Application: New

Please see the responses below in blue:

1. Core Data Form, Section III, Item 25
Please provide a revised page to correct the location description to match the application "located approximately 4,455 feet southeast of the intersection of Hardy Road and Interstate Highway 37".

Please see revised Core Data Forms for both co-applicants.

2. Administrative Report 1.0, Section 10, Item B
Please provide a revised page to list the city nearest the outfall.

Please see revised Administrative Report 1.0, Section 10, Item B.

3. Administrative Report 1.1, Section 1
Please provide the landowner list formatted for mailing labels (Avery 5160) in a Microsoft Word document

Please see attached Microsoft Word document for mailing labels.

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

APPLICATION. Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana, 5505 Waterford District Drive, Miami, Florida 33126, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016737001 (EPA I.D. No. TX0147516) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 990,000 gallons per day. The domestic wastewater treatment facility will be located approximately 4,455 feet southeast of the intersection of Hardy Road and Interstate Highway 37, near the city of San Antonio, in Bexar County, Texas 78264. The discharge route will be from the plant site to West Lucas Creek, thence to Lucas Creek, thence to Borrego Creek, thence to Lower Atascosa River (pending RWA). TCEQ received this application on February 24, 2025. The permit application will be available for viewing and copying at McCreless Branch Library, 1023 Ada Street, San Antonio, in Bexar County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: <https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications>. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. <https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.4224,29.131&level=18>

Further information may also be obtained from Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana at the address stated above or by calling Ms. Janela Revilla, JA Wastewater, LLC, at 737-864-3476.

This is correct.

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

Please see attached Spanish Translation



TCEQ Core Data Form

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

SECTION I: General Information

| | | |
|--|---|---|
| 1. Reason for Submission (If other is checked please describe in space provided.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 602412207 | | RN |

SECTION II: Customer Information

| | | | | | |
|---|--|--|--|---|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 1/24/2025 | |
| <input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>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).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | | <i>If new Customer, enter previous Customer below:</i> | |
| Lennar Homes of Texas Land and Construction, LTD | | | | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| 0011452910 | | 17527920189 | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input checked="" type="checkbox"/> Other: LTD | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | | 5505 Waterford District Dr | | | |
| | | | | | |
| City | | Miami | | State | FL |
| ZIP | | 33126 | | ZIP + 4 | |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | richard.mott@lennar.com | |

| | | |
|-----------------------------|------------------------------|---------------------------------------|
| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) |
| (210) 889-5516 | | () - |

SECTION III: Regulated Entity Information

| | | | | | | | | |
|---|------|--|-------|--|-----|--|---------|--|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> 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.) | | | | | | | | |
| Saldana WWTF | | | | | | | | |
| 23. Street Address of the Regulated Entity: (No PO Boxes) | | | | | | | | |
| | | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 | |
| 24. County | | | | | | | | |

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

| | | | | | | | | |
|--|--|---------|--|---------|--|-------------------------|---------|--|
| 25. Description to Physical Location: | The WWTF is located approximately 4,455 feet southeast of the intersection of Hardy Rd and Interstate Highway 37 | | | | | | | |
| 26. Nearest City | | | | | State | Nearest ZIP Code | | |
| San Antonio | | | | | TX | 78264 | | |
| <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: | 29.1310 | | | | 28. Longitude (W) In Decimal: | -98.4224 | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | | |
| 29 | 07 | 51.60 | -98 | 25 | 20.64 | | | |
| 29. Primary SIC Code (4 digits) | 30. Secondary SIC Code (4 digits) | | 31. Primary NAICS Code (5 or 6 digits) | | 32. Secondary NAICS Code (5 or 6 digits) | | | |
| | | | | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | | |
| Wastewater Treatment | | | | | | | | |
| 34. Mailing Address: | 5505 Waterford District Dr | | | | | | | |
| | | | | | | | | |
| | City | Miami | State | FL | ZIP | 33126 | ZIP + 4 | |
| 35. E-Mail Address: | richard.mott@lennar.com | | | | | | | |
| 36. Telephone Number | 37. Extension or Code | | | | 38. Fax Number (if applicable) | | | |
| (210) 889-5516 | | | | | () - | | | |

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

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

SECTION IV: Preparer Information

| | | | |
|-----------------------------|----------------------|-----------------------|---------------------------|
| 40. Name: | Janela Revilla | 41. Title: | Project Engineer |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (737) 864-3476 | | () - | jrevilla@jawastewater.com |

SECTION V: Authorized Signature

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

| | | | |
|-------------------------|--|-------------------|------------------------|
| Company: | Lennar Homes of Texas Land and Construction, LTD | Job Title: | VP of Land Development |
| Name (In Print): | Richard Mott | Phone: | (210) 889- 5516 |
| Signature: | | Date: | |



TCEQ Core Data Form

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

SECTION I: General Information

| | | |
|--|---|---|
| 1. Reason for Submission (If other is checked please describe in space provided.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 | | RN |

SECTION II: Customer Information

| | | | | | |
|---|--|--|--|--|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 1/24/2025 | |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>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).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | | <i>If new Customer, enter previous Customer below:</i> | |
| Saldana, Jose A | | | | Saldana, Jose A | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | |
| | | | | 10. DUNS Number (if applicable) | |
| | | | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input checked="" type="checkbox"/> Individual | |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited | |
| 12. Number of Employees | | 13. Independently Owned and Operated? | | | |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | | | | | |
| 14040 Mint Trail Dr | | | | | |
| | | | | | |
| City | | San Antonio | | State TX | |
| ZIP | | 78232 | | ZIP + 4 | |
| | | | | | |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | jaspmid@hotmail.com | |

| | | |
|-----------------------------|------------------------------|---------------------------------------|
| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) |
| (210) 394-6569 | | () - |

SECTION III: Regulated Entity Information

| | | | | | | | | |
|---|------|--|-------|--|-----|--|---------|--|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> 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.) | | | | | | | | |
| Saldana WWTF | | | | | | | | |
| 23. Street Address of the Regulated Entity: (No PO Boxes) | | | | | | | | |
| | | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 | |
| 24. County | | | | | | | | |

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

| | | | | | | | | |
|--|--|-------------|--|---------|--|-------------------------|---------|--|
| 25. Description to Physical Location: | The WWTF is located approximately 4,455 feet southeast of the intersection of Hardy Rd and Interstate Highway 37 | | | | | | | |
| 26. Nearest City | | | | | State | Nearest ZIP Code | | |
| San Antonio | | | | | TX | 78264 | | |
| <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: | 29.1310 | | | | 28. Longitude (W) In Decimal: | -98.4224 | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | | |
| 29 | 07 | 51.60 | -98 | 25 | 20.64 | | | |
| 29. Primary SIC Code (4 digits) | 30. Secondary SIC Code (4 digits) | | 31. Primary NAICS Code (5 or 6 digits) | | 32. Secondary NAICS Code (5 or 6 digits) | | | |
| | | | | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | | |
| Wastewater Treatment | | | | | | | | |
| 34. Mailing Address: | 14040 Mint Trail Dr | | | | | | | |
| | | | | | | | | |
| | City | San Antonio | State | TX | ZIP | 78232 | ZIP + 4 | |
| 35. E-Mail Address: | jaspmd@hotmail.com | | | | | | | |
| 36. Telephone Number | 37. Extension or Code | | | | 38. Fax Number (if applicable) | | | |
| (210) 394-6569 | | | | | () - | | | |

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

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

SECTION IV: Preparer Information

| | | | |
|-----------------------------|----------------------|-----------------------|---------------------------|
| 40. Name: | Janela Revilla | 41. Title: | Project Engineer |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (737) 864-3476 | | () - | jrevilla@jawastewater.com |

SECTION V: Authorized Signature

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

| | | | |
|-------------------------|-----------------|-------------------|-----------|
| Company: | | Job Title: | Landowner |
| Name (In Print): | Saldana, Jose A | Phone: | () - |
| Signature: | | Date: | |

E. Owner of effluent disposal site:

Prefix: _

Last Name, First Name:

Title: _

Credential:

Organization Name:

Mailing Address: _

City, State, Zip Code:

Phone No.: _

E-mail Address:

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

Attachment:

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

Prefix: _

Last Name, First Name:

Title: _

Credential:

Organization Name:

Mailing Address: _

City, State, Zip Code:

Phone No.: _

E-mail Address:

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

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐

Yes

☐

No

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

The WWTF will be located approximately 4,455 feet southeast from the intersection of I-37 and Hardy Rd near the city of San Antonio, TX 78264

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:

The discharge point will be located approximately 4,657 feet southeast from the intersection of I-37 and Hardy Rd near the city of San Antonio, TX 78264. It will flow into West Lucas Creek, thence to Lucas Creek, thence to Borrego Creek, thence to Segment 2107 of the Lower Atascosa River,.

City nearest the outfall(s): San Antonio

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

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

JASIK GERALD W JR
27260 MATHIS RD
ELMENDORF TX 78112

BRANSCUM RANDY L & LEONA
26050 MATHIS RD
ELMENDORF TX 78112

BROWN DELBERT E &
26284 MATHIS RD
ELMENDORF TX 78112

SAN ANTONIO WATER SYSTEM
PO BOX 2449
SAN ANTONIO TX 78298

ROBLES RUBEN O
3990 HARDY RD
ELMENDORF TX 78112

RANGEL ABELARDO OVIEDO
142 EL RAY DR
SAN ANTONIO TX 78227

PANTOJA JESSE J &
144 COPPER CREEK DR
LA VERNIA TX 78121

CRAIG CARL B
3810 HARDY RD
ELMENDORF TX 78112

C & I TIMMS REAL ESTATE LP
12685 SOMERSET RD
VON ORMY TX 78073

BARRERA SANDRA & JOSE I &
3776 HARDY RD
ELMENDORF TX 78112

MAIA PROPERTIES LLC
1032 OAK CHASE WAY
LEANDER TX 78641

CITY OF SAN ANTONIO
PO BOX 839966
SAN ANTONIO TX 78283

Comisión de Calidad Ambiental del Estado de Texas



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

PERMISO PROPUESTO NO. WQ0016737001

SOLICITUD. Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana, 5505 Waterford District Drive, Miami, Florida 33126, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016737001 (EPA I.D. No. TX0147516) del Sistema de Eliminación de Descargas de Contaminantes de Texas (TPDES) para autorizar la descarga de aguas residuales tratadas en un volumen que no sobrepasa un flujo promedio diario de 990.000 galones por día. La planta está ubicada aproximadamente 4.455 pies al sureste de la intersección de Hardy Road y la autopista interestatal 37, cerca de la ciudad de San Antonio, en el condado de Bexar, Texas 78264. La ruta de descarga es del sitio de la planta a West Lucas Creek, de allí a Lucas Creek, de allí a Borrego Creek, de allí al río Atascosa inferior. La TCEQ recibió esta solicitud el 24 de febrero de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en McCreless Branch Library, 1023 Ada Street, San Antonio, condado de Bexar, Texas, antes de la fecha de publicación de este aviso en el periódico. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud.

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

Este enlace a un mapa electrónico de la ubicación general del sitio o instalación se proporciona como cortesía pública y no forma parte de la solicitud ni del aviso. Para conocer la ubicación exacta, consulte la solicitud.

<https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.4224,29.131&level=18>

[Include the following non-italicized sentence if the facility is located in the Coastal Management Program boundary. The Coastal Management Program boundary is the area along the Texas Coast of the Gulf of México as depicted on the map in 31 TAC §503.1 and includes part or all of the following counties: Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Aransas, Refugio, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson y Orange.] El Director Ejecutivo de la TCEQ ha revisado esta medida para ver si está de acuerdo con los objetivos y las regulaciones del Programa de Administración Costero de Texas (CMP) de acuerdo con las regulaciones del Consejo Coordinador de la Costa (CCC) y ha determinado que la acción es conforme con las metas y regulaciones pertinentes del CMP.

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

También se puede obtener información adicional del Lennar Homes of Texas Land and Construction, Ltd. and Jose A. Saldana a la dirección indicada arriba o llamando a Ms. Janela Revilla, JA Wastewater, LLC, al 737-864-3476.

Fecha de emisión _____ *[Date notice issued]*

**Saldana
Wastewater Treatment Facility**

TCEQ Application for New TPDES Permit

**Submitted to
Texas Commission on Environmental Quality**

February 2025





TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Lennar Homes of Texas Land and Construction, LTD and Saldana, Jose A

PERMIT NUMBER (If new, leave blank): WQ00

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

| | Y | N | | Y | N |
|------------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|
| Administrative Report 1.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Original USGS Map | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Administrative Report 1.1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Affected Landowners Map | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| SPIF | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Landowner Disk or Labels | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Core Data Form | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Buffer Zone Map | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Summary of Application (PLS) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Flow Diagram | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Public Involvement Plan Form | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Site Drawing | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Technical Report 1.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Original Photographs | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Technical Report 1.1 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Design Calculations | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Worksheet 2.0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Solids Management Plan | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Worksheet 2.1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Water Balance | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Worksheet 3.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 3.1 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 3.2 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 3.3 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 4.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 5.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 6.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Worksheet 7.0 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | | |

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 <input type="checkbox"/> | \$315.00 <input type="checkbox"/> |
| ≥0.05 but <0.10 MGD | \$550.00 <input type="checkbox"/> | \$515.00 <input type="checkbox"/> |
| ≥0.10 but <0.25 MGD | \$850.00 <input type="checkbox"/> | \$815.00 <input type="checkbox"/> |
| ≥0.25 but <0.50 MGD | \$1,250.00 <input type="checkbox"/> | \$1,215.00 <input type="checkbox"/> |
| ≥0.50 but <1.0 MGD | \$1,650.00 <input checked="" type="checkbox"/> | \$1,615.00 <input type="checkbox"/> |
| ≥1.0 MGD | \$2,050.00 <input type="checkbox"/> | \$2,015.00 <input type="checkbox"/> |

Minor Amendment (for any flow) \$150.00 ☐

Payment Information:

Mailed Check/Money Order Number:

Check/Money Order Amount:

Name Printed on Check:

EPAY Voucher Number:

Copy of Payment Voucher enclosed? Yes ☒

Section 2. Type of Application (Instructions Page 26)

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

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

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

- ☐ Active ☒ Inactive

TCEQ ePay Voucher Receipt

Transaction Information

| | |
|------------------------|--|
| Voucher Number: | 747679 |
| Trace Number: | 582EA000649923 |
| Date: | 02/07/2025 07:50 AM |
| Payment Method: | CC - Authorization 0000036403 |
| Voucher Amount: | \$1,600.00 |
| Fee Type: | WW PERMIT - FACILITY WITH FLOW >= .50 & < 1.0 MGD - NEW AND MAJOR AMENDMENTS |
| ePay Actor: | RICHARD CLINTON MOTT |

Payment Contact Information

| | |
|-----------------|---|
| Name: | RICHARD MOTT |
| Company: | LENNAR HOMES OF TEXAS LAND AND CONS |
| Address: | 5505 WATERFORD DISTRICT DR, MIAMI, TX 33126 |
| Phone: | 210-889-5516 |

Site Information

| | |
|-----------------------|--|
| Site Name: | SALDANA WWTP |
| Site Location: | 4 455 FT SE FROM THE INTERSECTION OF I-37 AND HARDY RD |

Customer Information

| | |
|--------------------------|---|
| Customer Name: | LENNAR HOMES OF TEXAS LAND AND CONSTRUCTION LTD |
| Customer Address: | 5505 WATERFORD DISTRICT DR, MIAMI, FL 33126 |

TCEQ ePay Voucher Receipt

Transaction Information

| | |
|------------------------|------------------------------------|
| Voucher Number: | 747680 |
| Trace Number: | 582EA000649923 |
| Date: | 02/07/2025 07:50 AM |
| Payment Method: | CC - Authorization 0000036403 |
| Voucher Amount: | \$50.00 |
| Fee Type: | 30 TAC 305.53B WQ NOTIFICATION FEE |
| ePay Actor: | RICHARD CLINTON MOTT |

Payment Contact Information

| | |
|-----------------|---|
| Name: | RICHARD MOTT |
| Company: | LENNAR HOMES OF TEXAS LAND AND CONS |
| Address: | 5505 WATERFORD DISTRICT DR, MIAMI, TX 33126 |
| Phone: | 210-889-5516 |

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00

EPA I.D. (TPDES only): TX

Expiration Date:

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?

Lennar Homes of Texas Land and Construction, LTD

(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: 602412207

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: Mott, Richard

Title: VP of Land Development

Credential:

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

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

Saldana, Jose A

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

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

CN:

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

Prefix: Mr.

Last Name, First Name: Saldana, Jose A

Title: Landowner

Credential:

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

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

Phone No.: (737)864-3476

E-mail Address: jrevilla@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Ms.

Last Name, First Name: Miller, Jamie

Title: President

Credential: P.E.

Organization Name: JA Wastewater, LLC

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

Phone No.: (970) 443-9096

E-mail Address: jmiller@jawastewater.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

Section 5. Permit Contact Information (Instructions Page 27)

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

A. Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

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

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

B. Prefix: Ms. Last Name, First Name: Miller, Jamie
Title: President Credential: P.E.
Organization Name: JA Wastewater, LLC
Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731
Phone No.: (970) 443-9096 E-mail Address: jmilller@jawastewater.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: Mott, Richard
Title: VP of Land Development Credential:
Organization Name: Lennar Homes of Texas Land and Construction, LTD
Mailing Address: 5505 Waterford District Dr City, State, Zip Code: Miami, FL 33126
Phone No.: (210) 889-5516 E-mail Address: richard.mott@lennar.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: Mott, Richard
Title: VP of Land Development Credential:
Organization Name: Lennar Homes of Texas Land and Construction, LTD
Mailing Address: 5505 Waterford District Dr City, State, Zip Code: Miami, FL 33126
Phone No.: (210) 889-5516 E-mail Address: richard.mott@lennar.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Ms. Last Name, First Name: Revilla, Janela
Title: Project Engineer Credential: E.I.T.
Organization Name: JA Wastewater, LLC
Mailing Address: 3410 Far West Blvd, Ste 170 City, State, Zip Code: Austin, TX 78731
Phone No.: (737) 864-3476 E-mail Address: jrevilla@jawastewater.com

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

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

☒ E-mail Address

☐ Fax

☐ Regular Mail

C. Contact permit to be listed in the Notices

Prefix: Ms.

Last Name, First Name: Revilla, Janela

Title: Project Engineer

Credential: E.I.T.

Organization Name: JA Wastewater, LLC

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

Phone No.: (737) 864-3476

E-mail Address: jrevilla@jawastewater.com

D. Public Viewing Information

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

Public building name: McCreless Branch Library

Location within the building: Circulation Desk

Physical Address of Building: 1023 Ada St

City: San Antonio

County: Bexar

Contact (Last Name, First Name):

Phone No.: (210) 207-9179 Ext.:

E. Bilingual Notice Requirements

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

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

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

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

☒ Yes

☐ No

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

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

☒ Yes

☐ No

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

F. Summary of Application in Plain Language Template

Complete the F. Summary of Application in Plain Language Template (TCEQ Form 20972), also known as the plain language summary or PLS, and include as an attachment.

Attachment: Plain Language Summary

G. Public Involvement Plan Form

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

Attachment: Public Involvement Plan Form

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

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):

Saldana WWTF

C. Owner of treatment facility: Lennar Homes of Texas Land and Construction, LTD

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

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

Prefix: Mr.

Last Name, First Name: Saldana, Jose A

Title: Landowner

Credential:

Organization Name:

Mailing Address: 14040 Mint Trail Dr

City, State, Zip Code: San Antonio, TX 78232

Phone No.: (210) 394-6569

E-mail Address: jaspmd@hotmail.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:

E. Owner of effluent disposal site:

Prefix: _

Last Name, First Name:

Title: _

Credential:

Organization Name:

Mailing Address: _

City, State, Zip Code:

Phone No.: _

E-mail Address:

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

Attachment:

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

Prefix: _

Last Name, First Name:

Title: _

Credential:

Organization Name:

Mailing Address: _

City, State, Zip Code:

Phone No.: _

E-mail Address:

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

Attachment:

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☐ No

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

The WWTF will be located approximately 4,455 feet southeast from the intersection of I-37 and Hardy Rd near the city of San Antonio, TX 78264

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:

The discharge point will be located approximately 4,657 feet southeast from the intersection of I-37 and Hardy Rd near the city of San Antonio, TX 78264. It will flow into West Lucas Creek, thence to Lucas Creek, thence to Borrego Creek, thence to Segment 2107 of the Lower Atascosa River,.

City nearest the outfall(s): West Lucas Creek

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

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

☐ Yes ☒ No

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

- ☐ Authorization granted ☐ Authorization pending

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

Attachment:

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

- ☐ Yes ☐ No

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

- B. City nearest the disposal site:

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

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

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

- ☐ Yes ☒ No

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

- ☐ Yes ☐ No ☒ Not Applicable

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

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account number:

Amount past due:

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, please provide the following information:

Enforcement order number:

Amount past due:

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☒ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify:

Section 14. Signature Page (Instructions Page 34)

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

Permit Number:

Applicant: Lennar Homes of Texas Land and Construction, LTD

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): Richard Mott

Signatory title: VP of Land Development

Signature: _____

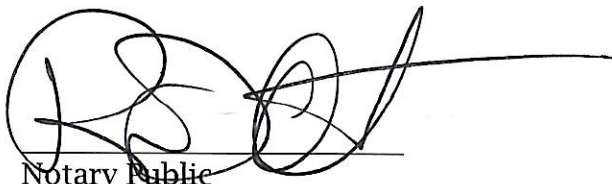
(Use blue ink)

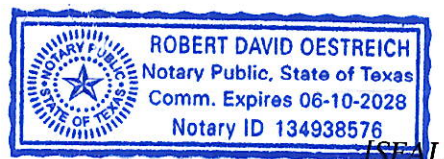
Date: 2/11/2025

Subscribed and Sworn to before me by the said Richard Mott

on this 11 day of FEBRUARY, 2025.

My commission expires on the 6 day of OCTOBER, 2028.


Notary Public



BEXAR

County, Texas

Section 14. Signature Page (Instructions Page 34)

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

Permit Number:

Applicant: Saldana, Jose A


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.

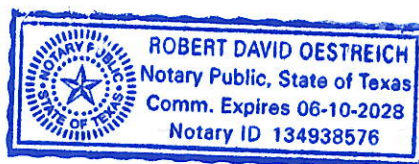
Signatory name (typed or printed): Jose A Saldana

Signatory title: Landowner

Signature:  Date: 2/3/25
(Use blue ink)

Subscribed and Sworn to before me by the said Jose Saldana
on this 3 day of February, 20 25.
My commission expires on the 6 day of October, 20 28.


Notary Public



[SEAL]

BEXAR
County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

The following information is required for new and amendment applications.

Section 1. Affected Landowner Information (Instructions Page 36)

- A. Indicate by a check mark that the landowners map or drawing, with scale, includes the following information, as applicable:
- ☒ The applicant's property boundaries
 - ☒ The facility site boundaries within the applicant's property boundaries
 - ☒ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone
 - ☒ The property boundaries of all landowners surrounding the applicant's property (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)
 - ☒ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream
 - ☒ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge
 - ☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides
 - ☐ The boundaries of the effluent disposal site (for example, irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property
 - ☐ The property boundaries of all landowners surrounding the effluent disposal site
 - ☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners surrounding the applicant's property boundaries where the sewage sludge land application site is located
 - ☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (for example, sludge surface disposal site or sludge monofill) is located
- B. ☒ Indicate by a check mark that a separate list with the landowners' names and mailing addresses cross-referenced to the landowner's map has been provided.
- C. ☒ Indicate by a check mark that the landowners list has also been provided as mailing labels in electronic format (Avery 5160).
- D. Provide the source of the landowners' names and mailing addresses: Bexar Appraisal County Website
- E. As required by *Texas Water Code § 5.115*, is any permanent school fund land affected by this application?
- ☐ Yes ☒ No

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

Section 2. Original Photographs (Instructions Page 38)

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

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

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

- ☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: SPIF Map

ATTACHMENT 1

INDIVIDUAL INFORMATION

Section 1. Individual Information (Instructions Page 41)

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

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

Full legal name (Last Name, First Name, Middle Initial): Saldana, Jose A

Driver's License or State Identification Number: XXXXXXXXXX

Date of Birth: XXXXXXXXXX

Mailing Address: 14040 Mint Trail Dr

City, State, and Zip Code: San Antonio, TX 778232

Phone Number: (210) 394-6569 Fax Number:

E-mail Address: jaspmd@hotmail.com

CN:

For Commission Use Only:

Customer Number:

Regulated Entity Number:

Permit Number:

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: ____Renewal ____Major Amendment ____Minor Amendment ____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

____ Texas Historical Commission

____ U.S. Fish and Wildlife

____ Texas Parks and Wildlife Department

____ U.S. Army Corps of Engineers

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

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

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

The following applies to all applications:

1. Permittee: Lennar Homes of Texas Land and Construction, LTD and Saldana, Jose A

Permit No. WQ00 _

EPA ID No. TX

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

The WWTF of located approximately 4,455 feet southeast from the intersection of I-37 and Hardy Rd, near the city of San Antonio, TX 78264.

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

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

First and Last Name: Richard Mott

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

Title: VP of Land Development

Mailing Address: 5505 Waterford District Dr

City, State, Zip Code: Miami, FL 33126

Phone No.: (210) 889-5516 Ext.: _ Fax No.:

E-mail Address: richard.mott@lennar.com

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

The landowner Saldana, Jose A is a co-applicant.

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

The discharge point flows into West Lucas Creek, thence to Lucas Creek, thence to Borrego Creek, thence to Segment 2107 of the Lower Atascosa River.

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

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

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

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

☐ Disturbance of vegetation or wetlands

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

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

Area is currently undeveloped land.

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

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

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

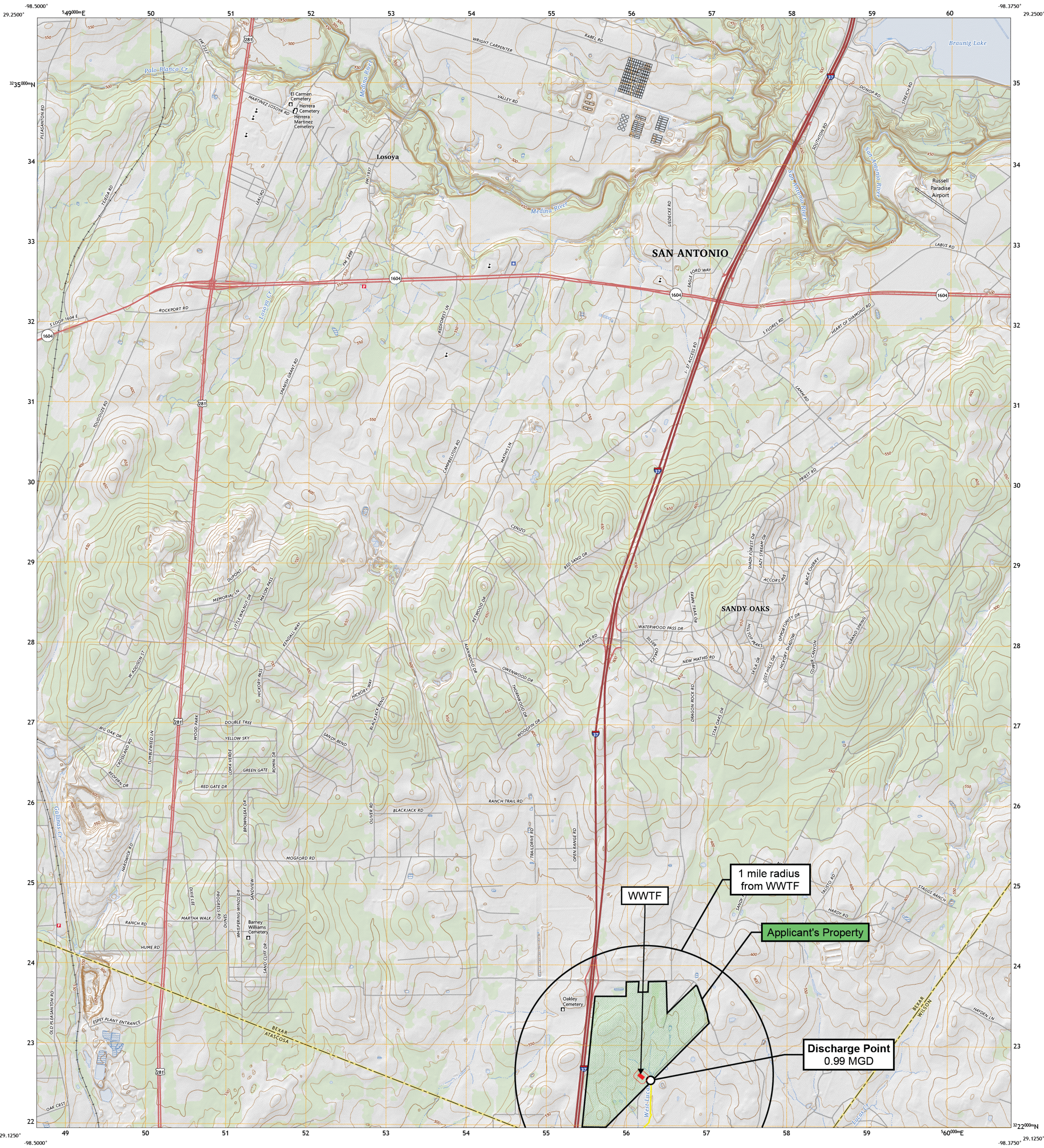
Area is being developed by Lennar Homes of Texas Land and Construction.



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

Saldana WWTF - SPIF Map

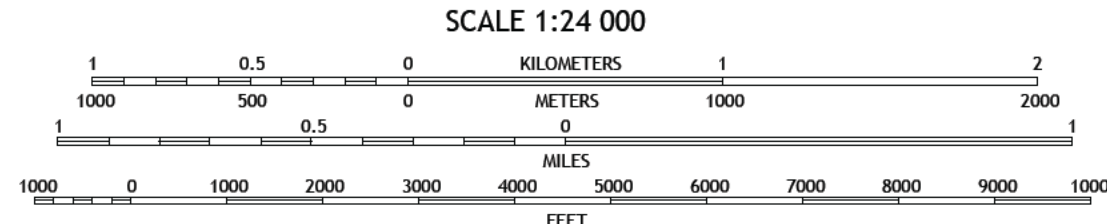
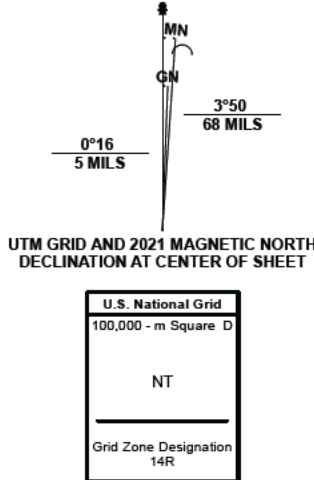
LOSOYA QUADRANGLE
TEXAS
7.5-MINUTE TOPO



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000 meter grid/Universal Transverse Mercator, Zone 14R.
Data is provided by The National Map (TNM), is the best available at the time of map
production, and includes data content from supporting themes of Elevation,
Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover,
and Orthorectification. Refer to associated Federal Geographic Data Committee (FGDC)
Metadata for additional source data information.

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

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



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

USER DEFINED CONTENT



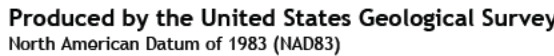
| QUADRANGLE LOCATION | | |
|---------------------|----------|------------|
| Tornell Wells | Southton | Elmendorf |
| Thelma | Losoya | Sasamco |
| Poteet | Leming | Sasamco SE |

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





LEMING QUADRANGLE
TEXAS
7.5-MINUTE TOPO

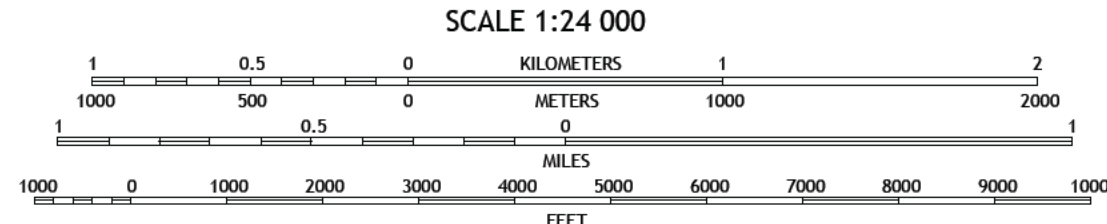


World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R

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

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

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







CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1985
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



| | | |
|------------|------------|-------------|
| Thelma | Losoya | Saspamco |
| Poteet | Leming | Saspamco SE |
| Jourdanton | Pleasanton | Leal |

 Local Connector
 Local Road
 4WD
 US Route
 State Route



English Plain Language Summary

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

Lennar Homes of Texas Land and Construction, LTD, 5505 Waterford District Dr Miami, FL 33126, and Saldana, Jose A, 14040 Mint Trail Dr, San Antonio TX 78232, applied to the Texas Commission on Environmental Quality (TCEQ) for a New Texas Pollutant Discharge Elimination System (TPDES) Permit to authorize the disposal of treated wastewater at a volume not to exceed a daily average flow of 990,000 gallons per day via a discharge point that flows into West Lucas Creek thence to Lucas Creek, thence to Borrego Creek, thence to Segment 2107 of the Lower Atascosa River.

The domestic wastewater treatment facility will be located approximately 4,455 ft southeast from the intersection of I-37 and Hardy Rd, near the city of San Antonio, Bexar County, Texas 78264. The permit application will be available for viewing and copying at McCreless Branch Library, 1023 Ada St, San Antonio, in Bexar County, TX 78223.

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



Spanish Plain Language Summary

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

Lennar Homes of Texas Land and Construction, LTD, 5505 Waterford District Dr Miami, FL 33126, y Saldana, Jose A, 14040 Mint Trail Dr, San Antonio TX 78232, solicitaron a la Comisión de Calidad Ambiental de Texas (TCEQ) un Nuevo Texas Sistema de Eliminación de Descargas Contaminantes (TPDES) Permiso para autorizar la disposición de aguas residuales tratadas en un volumen que no exceda un flujo promedio diario de 990,000 galones por día a través de un punto de descarga que desemboca en West Lucas Creek, luego en Lucas Creek, luego en Borrego Creek y luego en el segmento 2107 del río Lower Atascosa.

La instalación de tratamiento de aguas residuales domésticas estará ubicada aproximadamente a 4,455 pies al sureste de la intersección de la I-37 y Hardy Rd, cerca de la ciudad de San Antonio, condado de Bexar, Texas 78264. La solicitud de permiso estará disponible para ver y copiar en la biblioteca McCreless Branch. , 1023 Ada St, San Antonio, en el condado de Bexar, TX 78223.

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





TCEQ Core Data Form

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

SECTION I: General Information

| | | |
|--|---|---|
| 1. Reason for Submission (If other is checked please describe in space provided.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 602412207 | | RN |

SECTION II: Customer Information

| | | | | | |
|---|--|--|--|---|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 1/24/2025 | |
| <input type="checkbox"/> New Customer <input checked="" type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>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).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | | <i>If new Customer, enter previous Customer below:</i> | |
| Lennar Homes of Texas Land and Construction, LTD | | | | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| 0011452910 | | 17527920189 | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input checked="" type="checkbox"/> Other: LTD | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | | 5505 Waterford District Dr | | | |
| | | | | | |
| City | | Miami | | State | FL |
| ZIP | | 33126 | | ZIP + 4 | |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | richard.mott@lennar.com | |

| | | |
|-----------------------------|------------------------------|---------------------------------------|
| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) |
| (210) 889-5516 | | () - |

SECTION III: Regulated Entity Information

| | | | | | | | | |
|---|------|--|-------|--|-----|--|---------|--|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> 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.) | | | | | | | | |
| Saldana WWTF | | | | | | | | |
| 23. Street Address of the Regulated Entity: (No PO Boxes) | | | | | | | | |
| | | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 | |
| 24. County | | | | | | | | |

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

| | | | | | | | | |
|--|--|---------|-------------------------------|---------|---------------------------------------|-------------------------|---------|--|
| 25. Description to Physical Location: | The WWTF is located approximately 4,455 feet from the intersection of I-37 and Hard Rd | | | | | | | |
| 26. Nearest City | | | | | State | Nearest ZIP Code | | |
| San Antonio | | | | | TX | 78264 | | |
| <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: | 29.1310 | | | | 28. Longitude (W) In Decimal: | -98.4224 | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | | |
| 29 | 07 | 51.60 | -98 | 25 | 20.64 | | | |
| 29. Primary SIC Code | 30. Secondary SIC Code | | 31. Primary NAICS Code | | 32. Secondary NAICS Code | | | |
| (4 digits) | (4 digits) | | (5 or 6 digits) | | (5 or 6 digits) | | | |
| | | | | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | | |
| Wastewater Treatment | | | | | | | | |
| 34. Mailing Address: | 5505 Waterford District Dr | | | | | | | |
| | | | | | | | | |
| | City | Miami | State | FL | ZIP | 33126 | ZIP + 4 | |
| 35. E-Mail Address: | richard.mott@lennar.com | | | | | | | |
| 36. Telephone Number | 37. Extension or Code | | | | 38. Fax Number (if applicable) | | | |
| (210) 889-5516 | | | | | () - | | | |

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


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

SECTION IV: Preparer Information

| | | | |
|-----------------------------|----------------------|-----------------------|---------------------------|
| 40. Name: | Janela Revilla | 41. Title: | Project Engineer |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (737) 864-3476 | | () - | jrevilla@jawastewater.com |

SECTION V: Authorized Signature

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

| | | | |
|-------------------------|---|-------------------|------------------------|
| Company: | Lennar Homes of Texas Land and Construction, LTD | Job Title: | VP of Land Development |
| Name (In Print): | Richard Mott | Phone: | (210) 889- 5516 |
| Signature: |  | Date: | 2/11/2025 |



TCEQ Core Data Form

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

SECTION I: General Information

| | | |
|--|---|---|
| 1. Reason for Submission (If other is checked please describe in space provided.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | | <input type="checkbox"/> 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 | | RN |

SECTION II: Customer Information

| | | | | | |
|---|---------------------|--|--|--|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 1/24/2025 | |
| <input checked="" type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership | | | | | |
| <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>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).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | <i>If new Customer, enter previous Customer below:</i> | | |
| Saldana, Jose A | | | Saldana, Jose A | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID (9 digits) | 10. DUNS Number (if applicable) |
| | | | | | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input checked="" type="checkbox"/> Individual | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited |
| Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | <input type="checkbox"/> Sole Proprietorship | | <input type="checkbox"/> Other: LTD | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: | | | | | |
| <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | 14040 Mint Trail Dr | | | | |
| | | | | | |
| | City | San Antonio | State | TX | ZIP 78232 ZIP + 4 |
| 16. Country Mailing Information (if outside USA) | | | 17. E-Mail Address (if applicable) | | |
| | | | jaspmid@hotmail.com | | |

| | | |
|-----------------------------|------------------------------|---------------------------------------|
| 18. Telephone Number | 19. Extension or Code | 20. Fax Number (if applicable) |
| (210) 394-6569 | | () - |

SECTION III: Regulated Entity Information

| | | | | | | | |
|---|------|--|-------|--|-----|--|---------|
| 21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.) | | | | | | | |
| <input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> 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.) | | | | | | | |
| Saldana WWTF | | | | | | | |
| 23. Street Address of the Regulated Entity: (No PO Boxes) | | | | | | | |
| | | | | | | | |
| | City | | State | | ZIP | | ZIP + 4 |
| 24. County | | | | | | | |

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

| | | | | | | | |
|--|--|-------------|--|--------------------------------------|--|-------|---------|
| 25. Description to Physical Location: | The WWTF is located approximately 4,455 feet from the intersection of I-37 and Hard Rd | | | | | | |
| 26. Nearest City | State | | | | Nearest ZIP Code | | |
| San Antonio | TX | | | | 78264 | | |
| <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: | 29.1310 | | | 28. Longitude (W) In Decimal: | -98.4224 | | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds | | |
| 29 | 07 | 51.60 | -98 | 25 | 20.64 | | |
| 29. Primary SIC Code (4 digits) | 30. Secondary SIC Code (4 digits) | | 31. Primary NAICS Code (5 or 6 digits) | | 32. Secondary NAICS Code (5 or 6 digits) | | |
| | | | | | | | |
| 33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.) | | | | | | | |
| Wastewater Treatment | | | | | | | |
| 34. Mailing Address: | 14040 Mint Trail Dr | | | | | | |
| | | | | | | | |
| | City | San Antonio | State | TX | ZIP | 78232 | ZIP + 4 |
| 35. E-Mail Address: | jaspmd@hotmail.com | | | | | | |
| 36. Telephone Number | 37. Extension or Code | | 38. Fax Number (if applicable) | | | | |
| (210) 394-6569 | | | () - | | | | |

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

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

SECTION IV: Preparer Information

| | | | |
|-----------------------------|----------------------|-----------------------|---------------------------|
| 40. Name: | Janela Revilla | 41. Title: | Project Engineer |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (737) 864-3476 | | () - | jrevilla@jawastewater.com |

SECTION V: Authorized Signature

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

| | | | |
|-------------------------|-------------------|-------------------|----------------|
| Company: | | Job Title: | Landowner |
| Name (In Print): | Saldana, Jose A | Phone: | (201) 394-6589 |
| Signature: | Jose A Saldana m? | Date: | 2/3/25 |



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:

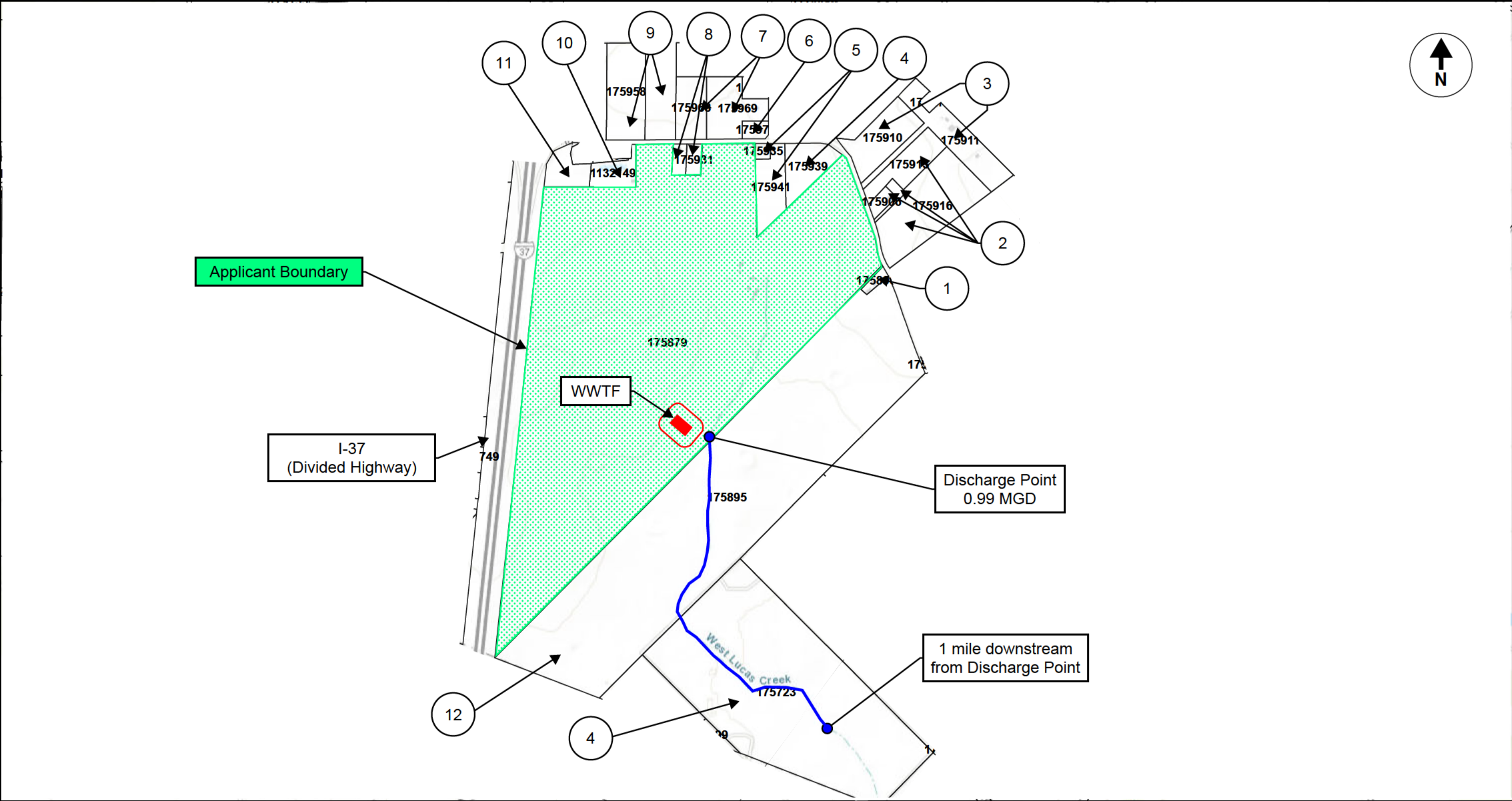
- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

**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.

This project is not considered to have significant public interest.

Saldana WWTF - Affected Landowner Map



12/9/2024, 12:28:50 PM

Parcels



BCAD, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA

Saldana WWTF - Affected Landowner List

| Address Source: https://gis.bisclient.com/bexarcad/ | | 24-01-2025 | |
|---|--------------------|----------------------------|--|
| Map Label | Property ID Number | Owner Name | Mailing Address |
| 1 | 175896 | JASIK GERALD W JR | 27260 MATHIS RD, ELMENDORF, TX 78112 |
| 2 | 175906 | BRANSCUM RANDY L & LEONA | 26050 MATHIS RD, ELMENDORF, TX 78112 |
| | 175913 | | |
| | 175916 | | |
| | 175912 | | |
| 3 | 175910 | BROWN DELBERT E & | 26284 MATHIS RD, ELMENDORF, TX 78112 |
| | 175911 | | |
| 4 | 175939 | SAN ANTONIO WATER SYSTEM | PO BOX 2449, SAN ANTONIO, TX 78298 |
| | 175723 | | |
| 5 | 175935 | ROBLES RUBEN O | 3990 HARDY RD, ELMENDORF, TX 78112 |
| | 175941 | | |
| 6 | 175971 | RANGEL ABELARDO OVIEDO | 142 EL RAY DR, SAN ANTONIO, TX 78227 |
| 7 | 175969 | PANTOJA JESSE J & | 144 COPPER CREEK DR, LA VERNIA, TX 78121 |
| | 175968 | | |
| 8 | 175931 | CRAIG CARL B | 3810 HARDY RD, ELMENDORF, TX 78112 |
| | 175930 | | |
| 9 | 175872 | C & I TIMMS REAL ESTATE LP | 12685 SOMERSET RD, VON ORMY, TX 78073 |
| | 175958 | | |
| 10 | 1132149 | BARRERA SANDRA & JOSE I & | 3776 HARDY RD, ELMENDORF, TX 78112 |
| 11 | 1091434 | MAIA PROPERTIES LLC | 1032 OAK CHASE WAY, LEANDER, TX 78641 |
| 12 | 175895 | CITY OF SAN ANTONIO | PO BOX 839966, SAN ANTONIO, TX 78283 |

JASIK GERALD W JR
27260 MATHIS RD
ELMENDORF TX 78112

BRANSCUM RANDY L & LEONA
26050 MATHIS RD
ELMENDORF TX 78112

BROWN DELBERT E &
26284 MATHIS RD
ELMENDORF TX 78112

SAN ANTONIO WATER SYSTEM
PO BOX 2449
SAN ANTONIO TX 78298

ROBLES RUBEN O
3990 HARDY RD
ELMENDORF TX 78112

RANGEL ABELARDO OVIEDO
142 EL RAY DR
SAN ANTONIO TX 78227

PANTOJA JESSE J &
144 COPPER CREEK DR
LA VERNIA TX 78121

CRAIG CARL B
3810 HARDY RD
ELMENDORF TX 78112

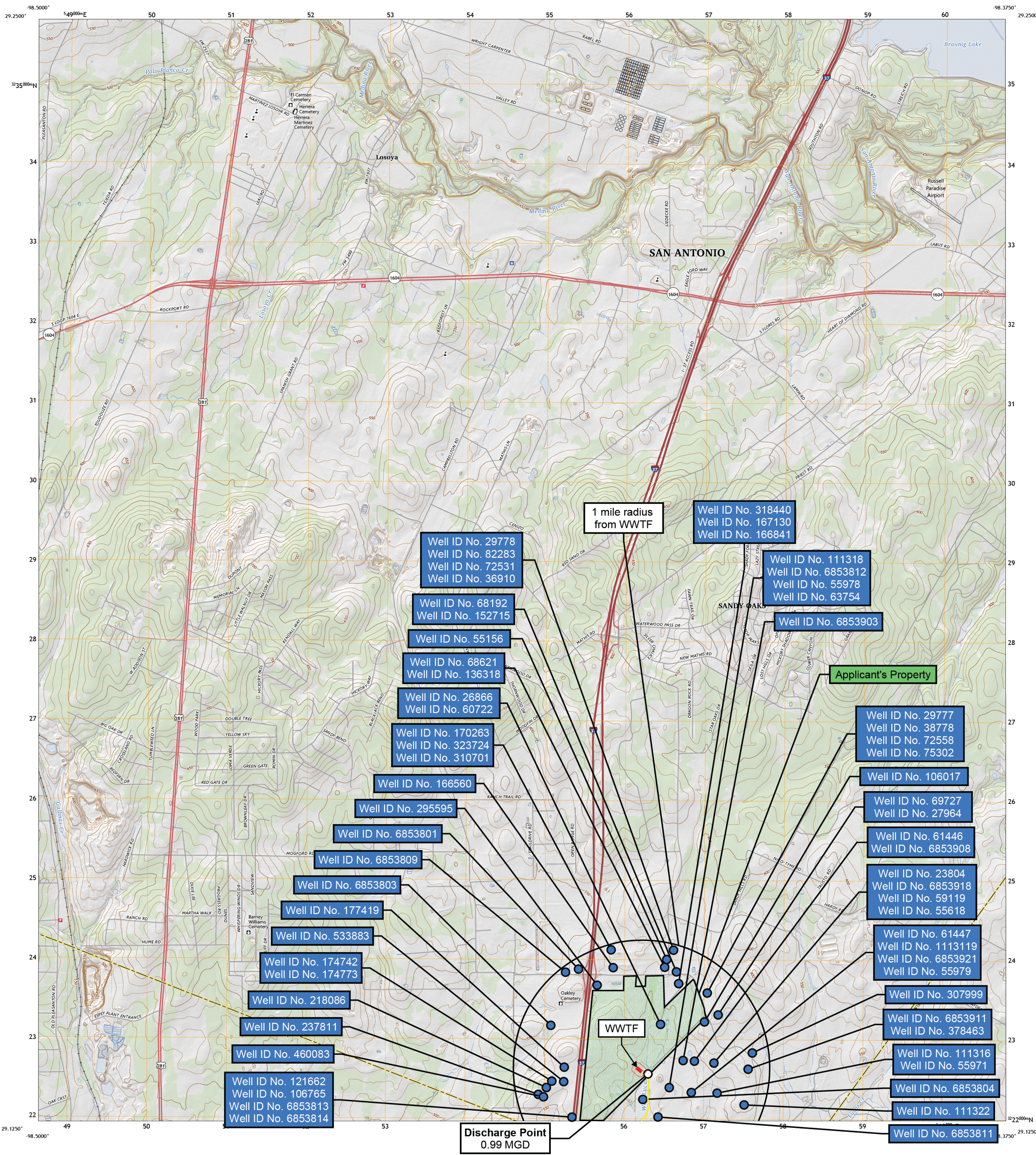
C & I TIMMS REAL ESTATE LP
12685 SOMERSET RD
VON ORMY TX 78073

BARRERA SANDRA & JOSE I &
3776 HARDY RD
ELMENDORF TX 78112

MAIA PROPERTIES LLC
1032 OAK CHASE WAY
LEANDER TX 78641

CITY OF SAN ANTONIO
PO BOX 839966
SAN ANTONIO TX 78283

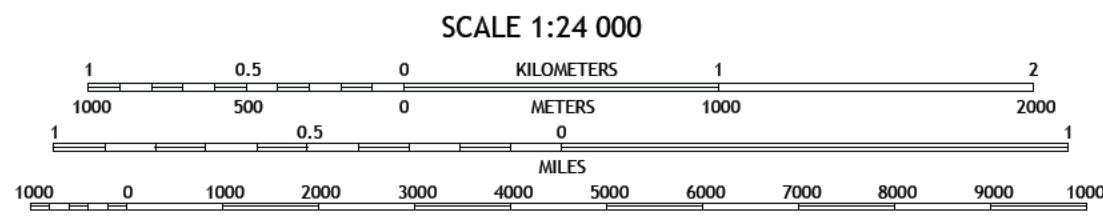
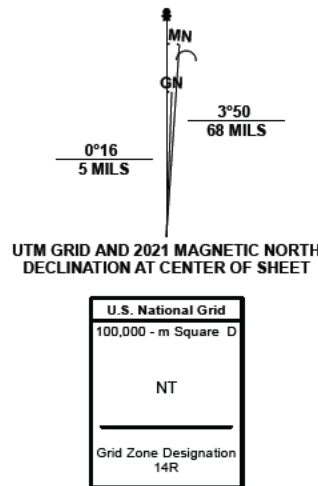
Saldana WWTF - USGS Map



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000 meter grid/Universal Transverse Mercator, Zone 14R.
Data is provided by The National Map (TNM), is the best available at the time of map
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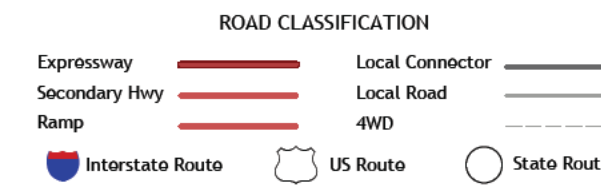
CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



| QUADRANGLE LOCATION | | |
|---------------------|----------|------------|
| Torrell Wells | Southton | Elmendorf |
| Thelma | Losoya | Sasamco |
| Poteet | Leming | Sasamco SE |

ADJOINING QUADRANGLES

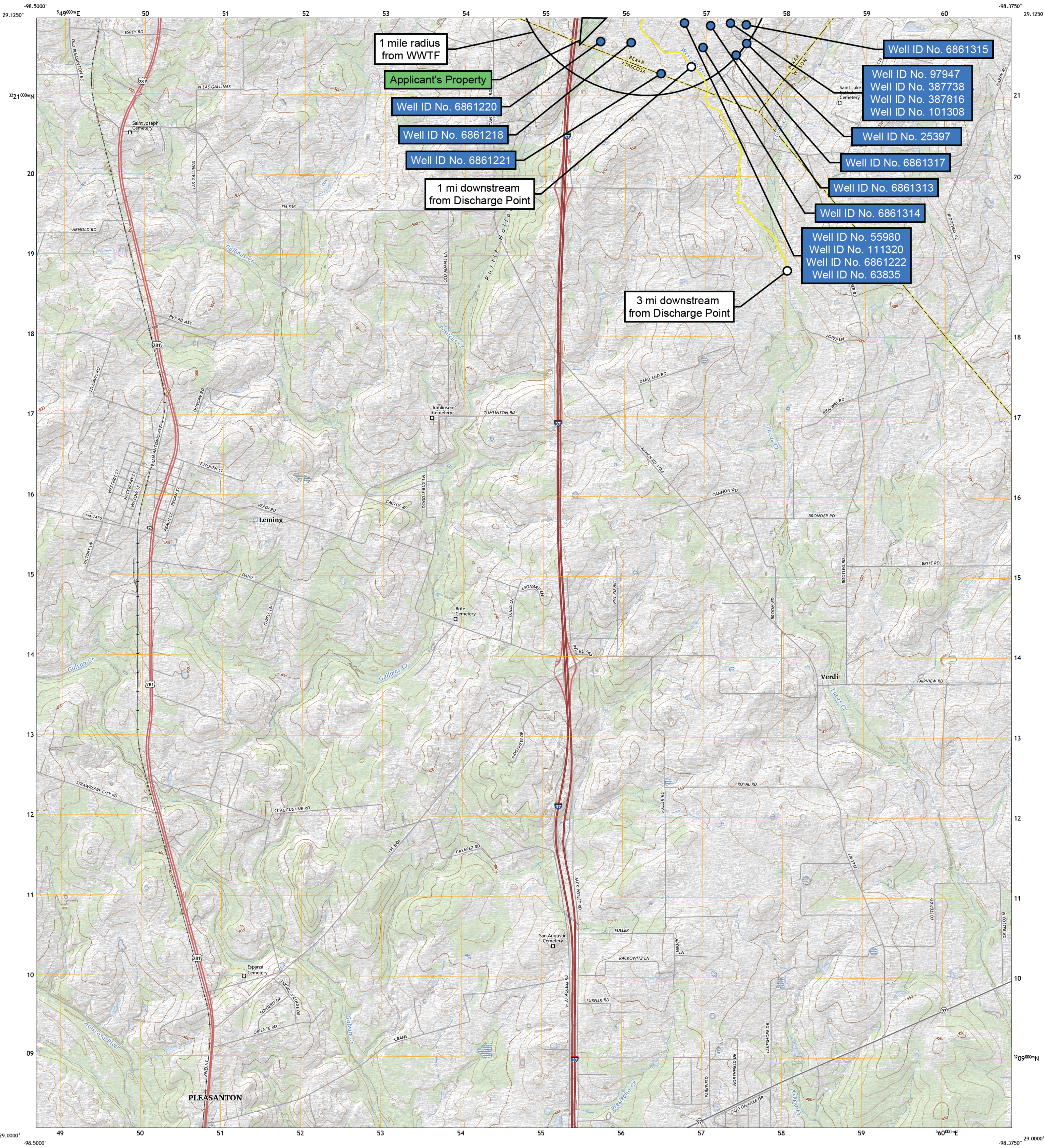




U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Saldana WWTF - USGS Map

LEMING QUADRANGLE
TEXAS
7.5-MINUTE TOPO

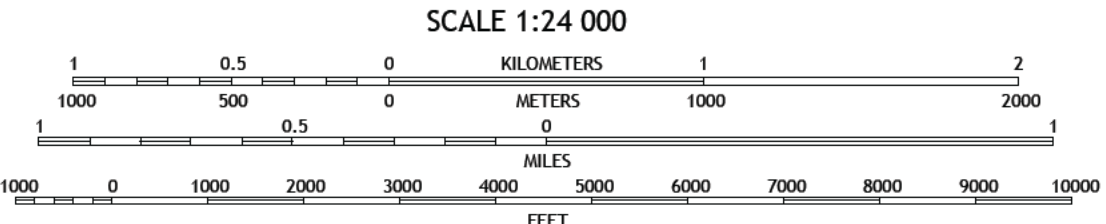
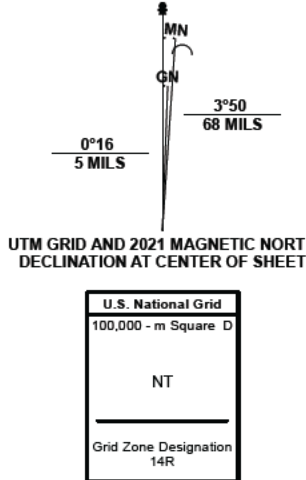


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CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Medium

USER DEFINED CONTENT



| | | |
|------------|------------|-------------|
| Thelma | Losoya | Salspico |
| Poteet | Leming | Salspico SE |
| Jourdanton | Pleasanton | Leal |

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



STATE OF TEXAS PLUGGING REPORT for Tracking #23804

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 19**

Address: **P.O. Box 2449
San Antonio, TX 78298**

Grid #: **68-53-9**

Well Location: **S. Mathis Road
Elmendorf, TX 78112**

Latitude: **29° 07' 54" N**

Longitude: **098° 24' 46" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data**

Date Drilled: **3/15/2005**

Driller: **Roby Coyne**

License Number: **4325**

Well Report Tracking #55618

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 30 | | 635 |

Plugging Information

Date Plugged: **3/23/2005**

Plugging: **Roby Coyne**

Plug Method: **See Comments**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 30 | 5 | 38 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 250 | 750 sks w/4% Bentonite |
| 250 | 635 | Granite 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: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **Cement with 4% Bentonite
Granite 3/8" Gravel - 100 tons
Amended 4/28/05 ref#1452**

STATE OF TEXAS PLUGGING REPORT for Tracking #25397

Owner: **San Antonio Water System**

Owner Well #: **#1**

Address: **P.O. Box 2449
San Antonio, TX 78298**

Grid #: **68-61-3**

Well Location: **26852 Mathis Rd.
Elmendorf, TX**

Latitude: **29° 07' 20" N**

Longitude: **098° 24' 32" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data**

Date Drilled: **1/1/1950**

Driller: **unknown**

License Number: **No Data**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8 | | |

Plugging Information

Date Plugged: **6/15/2005**

Plugger: **Raymundo V. Garcia**

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

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 8 | 3 | 130 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 3 | 10 | 5 sks sackcrete |
| 10 | 130 | 30 class H |

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: **Peerless Equipment, Ltd.**

**5400 Hwy. 90 West
San Antonio, TX 78227**

Driller Name: **Raymundo V. Garcia**

License Number: **4365**

Apprentice Name: **James Black**

Apprentice Number: **1840**

Comments: **Well Plugged by Schlumberger with 30 sks class H + 8% Gel and 2% S-1 Topped off with 5 sks of sackcrete, filled with top soil to ground level.**

STATE OF TEXAS PLUGGING REPORT for Tracking #26866

Owner: **Dr. Jose A Saldana**

Owner Well #: **1**

Address: **14040 Mint Trail
San Antonio, TX 78232**

Grid #: **68-53-8**

Well Location: **25955 Mathis Road
Elemendorf, TX 78112**

Latitude: **29° 08' 09" N**

Longitude: **098° 25' 11" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data**

Date Drilled: **No Data**

Driller: **Unknown**

License Number: **No Data**

Borehole: **No Data**

Plugging Information

Date Plugged: **8/2/2005**

Plugger: **George Jendrzey**

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

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 6 | 2 | 278 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|------------|--------------|--|
| 2 | 250 | 45 sacks Class "A" cement |
| 250 | 278 | 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 Inc.
3359 SE Loop 410
San Antonio, TX 78222**

Driller Name: **George Jendrzey**

License Number: **4120**

Comments: **278' to 250' with gravel
250' to 2' below ground level with 45 sacks of class "A" cement**

STATE OF TEXAS PLUGGING REPORT for Tracking #27964

| | | | |
|----------------|---|---------------|-----------------------|
| Owner: | Roy Brown | Owner Well #: | 1 |
| Address: | 19484 Somerset Road Somerset, TX 78069 | Grid #: | 68-53-9 |
| Well Location: | 26280 Mathis Road Elemendorf, TX 78102 | Latitude: | 29° 08' 13" N |
| Well County: | Bexar | Longitude: | 098° 24' 43" W |
| | | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|-----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | Unknown | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: **9/28/2005** Plugger: **George Jendrzey**

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

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 4 | 3 | 158 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|------------|--------------|--|
| 3 | 125 | 10 Class A Cement |
| 125 | 158 | 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 Inc.**
3359 SE Loop 410
San Antonio, TX 78222

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

Comments: **158 to 125' with gravel**
125 to 3' below ground with 10 sacks Class "A" cement

STATE OF TEXAS PLUGGING REPORT for Tracking #29777

Owner: **Randy Branscum**

Owner Well #: **2**

Address: **26050 Mathis Rd,
Elemendorf, TX 78112**

Grid #: **68-53-9**

Well Location: **26050 Mathis Rd
Elemendorf, TX 78112**

Latitude: **29° 08' 23" N**

Longitude: **098° 24' 49" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Withdrawal of Water**

Drilling Information

Company: **No Data**

Date Drilled: **11/10/2005**

Driller: **Alsay, Inc**

License Number: **54636**

Well Report Tracking #72558

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 12.25 | | 460 |

Plugging Information

Date Plugged: **1/12/2006**

Plugging: **Douglas Hill**

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

Casing Left in Well:

Plug(s) Placed in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 6.625 | 5 | 460 |

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 400 | 64 sks cement |

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, Inc.**
3359 S.E. Loop 410
San Antonio, TX 78112

Driller Name: **Douglas Hill**

License Number: **54636**

Apprentice Name: **Tye Newman**

Apprentice Number: **3029**

Comments: **Amended Ref# 3032 3/10/06**

Report Amended on by Request #3032

STATE OF TEXAS PLUGGING REPORT for Tracking #29778

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Ernesto Olivarez | Owner Well #: | 2 |
| Address: | 2424 Maebeth Ave. Corona, CA 92882 | Grid #: | 68-53-8 |
| Well Location: | 25708 Mathis Rd. Elemendorf, TX 78112 | Latitude: | 29° 08' 40" N |
| Well County: | Bexar | Longitude: | 098° 25' 05" W |
| | | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|----------|-------------------|-----------------|-------------------|
| Company: | No Data | Date Drilled: | 10/24/2005 |
| Driller: | Alsay Inc. | License Number: | 54636 |

Well Report Tracking #72531

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | | 480 |

Plugging Information

Date Plugged: **1/14/2006** Plugger: **Douglas Hill**

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

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 6.625 | 5 | 470 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 5 | 400 | 64 sks cement |

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, Inc**
3359 S.E. Loop 410
San Antonio, TX 78222

| | | | |
|------------------|---------------------------------|--------------------|--------------|
| Driller Name: | Douglas Hill | License Number: | 54636 |
| Apprentice Name: | Rodney Pinson | Apprentice Number: | 1004 |
| Comments: | Cut off 5' below surface | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #36910

| | | | |
|----------------|---|---------------|-----------------------|
| Owner: | Ernesto Oliverez | Owner Well #: | 1 |
| Address: | 2424 Maebeth Ave Corona, CA 92882 | Grid #: | 68-53-8 |
| Well Location: | 25708 Mathis Rd Elemendorf, TX 78112 | Latitude: | 29° 08' 39" N |
| | | Longitude: | 098° 25' 05" W |
| Well County: | Bexar | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|-----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | Unknown | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: **2/22/2007** Plugger: **Douglas B. Hill**

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

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 5 | 0 | 245 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 0 | 245 | 30 sks cement |

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, Inc**
3359 S.E. Loop 410
San Antonio, TX 78222

| | | | |
|------------------|------------------------|--------------------|--------------|
| Driller Name: | Douglas B. Hill | License Number: | 54636 |
| Apprentice Name: | John De La Paz | Apprentice Number: | 3321 |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #38778

Owner: **Randy Branscum**
Address: **26050 Mathis Road
Elmendorf, TX 78112**
Well Location: **26050 Mathis Road
Elmendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **1**
Grid #: **68-53-9**
Latitude: **29° 08' 23" N**
Longitude: **098° 24' 49" W**
Elevation: **No Data**

Well Type: **Withdrawal of Water**

Drilling Information

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

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 5 | | 304 |

Plugging Information

Date Plugged: **5/7/2007** Plugger: **George Jendrzey**
Plug Method: **Tremmie pipe cement from bottom to top**

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 5 | 5 | 304 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 5 | 304 | 38 sacks class "A" |

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 Inc.**
3359 SE Loop 410
San Antonio, TX 78222

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

Comments: **304 feet to 5 feet below ground level with class "A" cement.**

STATE OF TEXAS PLUGGING REPORT for Tracking #97947

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Jasik | Owner Well #: | 1 |
| Address: | 27279 Mathis Road Elmendorf, TX | Grid #: | 68-61-3 |
| Well Location: | 27279 Mathis Road Elmendorf, TX | Latitude: | 29° 07' 29" N |
| Well County: | Bexar | Longitude: | 098° 24' 41" W |
| | | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|-----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: **11/7/2014** Plugger: **Richard Courtney**

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

Casing Left in Well:

Plug(s) Placed in Well:

No Data

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 339 | 37 sacks cement |

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: **C&C Groundwater Services LLC**
29143 Old Fredericksburg RD
Boerne, TX 78015

| | | | |
|------------------|------------------------------|-----------------|-------------|
| Driller Name: | Richard Kyle Courtney | License Number: | 2546 |
| Apprentice Name: | Alfonso Soto III | | |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #101308

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Stanley Jasik | Owner Well #: | No Data |
| Address: | 26660 Mathis Rd Elmendorf, TX 78112 | Grid #: | 68-61-3 |
| Well Location: | 26660 Mathis Rd Elmendorf, TX 78112 | Latitude: | 29° 07' 27" N |
| Well County: | Bexar | Longitude: | 098° 24' 40" W |
| | | Elevation: | No Data |

Well Type: **Withdrawal of Water**

Drilling Information

| | | | |
|-----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: **11/12/2014** Plugger: **Richard Kyle Courtney**

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

Casing Left in Well:

| Dia (in.) | Top (ft.) | Bottom (ft.) |
|-----------|-----------|--------------|
| 5 | 0 | 247 |

Plug(s) Placed in Well:

| Top (ft.) | Bottom (ft.) | Description (number of sacks & material) |
|-----------|--------------|--|
| 0 | 247 | 37 sacks cement |

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: **C&C Groundwater Services LLC**
29143 Old Fredericksburg Road
Boerne, TX 78015

| | | | |
|------------------|------------------------------|--------------------|--------------|
| Driller Name: | Richard Kyle Courtney | License Number: | 2546 |
| Apprentice Name: | Alfonso Soto III | Apprentice Number: | 57114 |
| Comments: | No Data | | |

STATE OF TEXAS PLUGGING REPORT for Tracking #111316

| | | | |
|----------------|--|---------------|-----------------|
| Owner: | San Antonio Water Systems | Owner Well #: | Test Hole ASR25 |
| Address: | P.O. BOX 2449 SAN ANTONIO, TX 78298 | Grid #: | 68-53-9 |
| Well Location: | No Data | Latitude: | 29° 07' 42" N |
| | | Longitude: | 098° 24' 45" W |
| Well County: | Bexar | Elevation: | No Data |

Well Type: Test Well

Drilling Information

| | | | |
|----------|----------------------------------|-----------------|-----------|
| Company: | Henkle Drilling & Supply Co. Inc | Date Drilled: | 1/23/2005 |
| Driller: | Roby G Coyne | License Number: | 4325 |

Well Report Tracking #55971

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 7.875 | 0 | 760 |

Plugging Information

| | | | |
|---------------|-----------|----------|------------|
| Date Plugged: | 1/23/2005 | Plugger: | Roby Coyne |
| Plug Method: | Unknown | | |

Casing Left in Well:

No Data

Plug(s) Placed in Well:

| Description (number of sacks & material) |
|--|
| 0-200 cements 56 sks |
| 200-760 Bentonite 65 sks |

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: Henkle Drilling & Supply Co. Inc
P.O. Box 639
Garden City, KS 67846

| | | | |
|---------------|------------|-----------------|------|
| Driller Name: | Roby Coyne | License Number: | 4325 |
|---------------|------------|-----------------|------|

Comments: Test hole only. Plugged after logging.

STATE OF TEXAS PLUGGING REPORT for Tracking #111318

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 23**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-8**

Well Location: **No Data**

Latitude: **29° 07' 44" N**

Longitude: **098° 25' 07" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Henkle Drilling & Supply Co. Inc**

Date Drilled: **1/27/2005**

Driller: **Roby G Coyne**

License Number: **4325**

Well Report Tracking #55978

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 730 |

Plugging Information

Date Plugged: **1/27/2005**

Plugger: **Roby Coyne**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0-200 Cement 56 sks

200-730 Bentonite 61 sks

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: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #111319

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 24**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-9**

Well Location: **No Data**

Latitude: **29° 07' 42" N**

Longitude: **098° 24' 57" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Henkle Drilling & Supply Co. Inc**

Date Drilled: **1/25/2005**

Driller: **Roby G Coyne**

License Number: **4325**

Well Report Tracking #55979

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 750 |

Plugging Information

Date Plugged: **1/25/2005**

Plugging: **Roby Coyne**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0-200 Cement 56 sks

200-750 Bentonite 64 sks

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: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **No Data**

STATE OF TEXAS PLUGGING REPORT for Tracking #111320

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 29**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-61-2**

Well Location: **No Data**

Latitude: **29° 07' 28" N**

Longitude: **098° 25' 02" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Henkle Drilling & Supply Co. Inc**

Date Drilled: **1/29/2005**

Driller: **Roby G Coyne**

License Number: **4325**

Well Report Tracking #55980

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 785 |

Plugging Information

Date Plugged: **1/29/2005**

Plugger: **Roby Coyne**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0-200 Cement 56 sks

200-785 Bentonite 68 sks

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: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **Test hole only. Plug hole after logging.**

STATE OF TEXAS PLUGGING REPORT for Tracking #111322

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 30**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-9**

Well Location: **South Mathis RD
Elmendorf, TX 78112**

Latitude: **29° 07' 37" N**

Longitude: **098° 24' 32" W**

Well County: **Bexar**

Elevation: **No Data**

Well Type: **Test Well**

Drilling Information

Company: **Henkle Drilling & Supply Co. Inc**

Date Drilled: **2/1/2005**

Driller: **Roby G Coyne**

License Number: **4325**

Well Report Tracking #56024

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 805 |

Plugging Information

Date Plugged: **2/1/2005**

Plugger: **Roby Coyne**

Plug Method: **Unknown**

Casing Left in Well:

Plug(s) Placed in Well:

No Data

Description (number of sacks & material)

0-200 Cement 56 sks

200-805 Bentonite 75 sks

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: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **Test well only. Plug after logging.**

STATE OF TEXAS PLUGGING REPORT for Tracking #152715

| | | | |
|----------------|---|---------------|--------------------------|
| Owner: | Gilbert Morales | Owner Well #: | No Data |
| Address: | 25840 Mathis Rd. Elmendorf, TX 78112 | Grid #: | 68-53-8 |
| Well Location: | 25840 Mathis Rd. Elmendorf, TX 78112 | Latitude: | 29° 08' 30.28" N |
| Well County: | Bexar | Longitude: | 098° 25' 04.19" W |
| | | Elevation: | No Data |
| Well Type: | Domestic | | |

Drilling Information

| | | | |
|-----------|----------------|-----------------|----------------|
| Company: | No Data | Date Drilled: | No Data |
| Driller: | No Data | License Number: | No Data |
| Borehole: | No Data | | |

Plugging Information

Date Plugged: **10/29/2015** Plugger: **Steve Martin**

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

Casing Left in Well:

| <i>Dia (in.)</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|------------------|---------------------|
| 4 | 0 | 235 |

Plug(s) Placed in Well:

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------|---------------------|---|
| 5 | 235 | Cement 20 Bags/Sacks |

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 Inc.**
3359 SE Loop 410
San Antonio, TX 78222

Driller Name: **Steve Martin** License Number: **54201**

Comments: **No Data**

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| | |
|---|----------------------------|
| State Well Number | 6853801 |
| 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) | 29.142222 |
| Latitude (degrees minutes seconds) | 29° 08' 32" N |
| Longitude (decimal degrees) | -98.430278 |
| Longitude (degrees minutes seconds) | 098° 25' 49" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 124WLCX - Wilcox Group |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 573 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 500 |
| Well Depth Source | Person Other than Owner |
| Drilling Start Date | |
| Drilling End Date | 1/0/1956 |
| Drilling Method | Reverse Circulation |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Irrigation |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | Turbine |
| Pump Depth (feet below land surface) | |
| Power Type | Natural-Gas Engine |
| Annular Seal Method | |
| Surface Completion | |
| Owner | J.H. Brown |
| Driller | E.E. Swirce |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 7/15/1957 |
| Last Update Date | |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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| | |
|---|----------------------------|
| State Well Number | 6853803 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.135834 |
| Latitude (degrees minutes seconds) | 29° 08' 09" N |
| Longitude (decimal degrees) | -98.433889 |
| Longitude (degrees minutes seconds) | 098° 26' 02" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 124CRRZ - Carrizo Sand |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 555 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 503 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | 0/0/1968 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---------------------|
| Well Type | Withdrawal of Water |
| Well Use | Irrigation |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | Turbine |
| Pump Depth (feet below land surface) | |
| Power Type | Gasoline Engine |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Conley Farms |
| Driller | Katy Drilling Co. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | |
| Created Date | |
| Last Update Date | |

Remarks Slotted from 285 to 503 ft. Gravel packed. Reported yield of 600 gpm. Development test: Drawdown of 25 ft. while pumping 2,000 gpm for 2 hours on August 11, 1968.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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| | |
|---|----------------------------|
| State Well Number | 6853804 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1275 |
| Latitude (degrees minutes seconds) | 29° 07' 39" N |
| Longitude (decimal degrees) | -98.421389 |
| Longitude (degrees minutes seconds) | 098° 25' 17" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 124CRRZ - Carrizo Sand |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 535 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 580 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | 0/0/1967 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Irrigation |
| Water Level Observation | None |
| Water Quality Available | Yes |
| Pump | Turbine |
| Pump Depth (feet below land surface) | |
| Power Type | Gasoline Engine |
| Annular Seal Method | |
| Surface Completion | |
| Owner | A. J. Jasik |
| Driller | Olaf L. Boone |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/4/2016 |
| Last Update Date | 1/4/2016 |

Remarks Slotted from 370 to 580 ft. Gravel packed. Pump set at 200 ft. Reported yield of 900 gpm. Development test yielded 1,800 gpm. Temp. 76 degrees F.

Casing - No Data

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|-----------|-----------|----------------------------|----------------|------------|
| | Pump | 1800 | | |

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis

Sample Date: 9/4/1969 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Carrizo Sand

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

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 20 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 24.41 | mg/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | < | 100 | ug/L | |
| 00910 | CALCIUM (MG/L) | | 16 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 42 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | < | 0.1 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 56 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 4 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.4 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 6.3 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 6 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 25 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.27 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 45 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 22 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 261 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 29 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 156 | mg/L | |

Water Quality Analysis

Sample Date: 7/13/1972 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Carrizo Sand

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

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 28 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 34.17 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 16 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 47 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | < | 0.1 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 60 | mg/L as CaCO3 | |
| 00920 | MAGNESIUM (MG/L) | | 5 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | < | 0.4 | mg/L as NO3 | |
| 00400 | PH (STANDARD UNITS), FIELD | | 6.4 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 8 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 10 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.23 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 44 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 22 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 274 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO4) | | 24 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 24 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 149 | mg/L | |

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

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| | |
|---|----------------------------|
| State Well Number | 6853809 |
| 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) | 29.141945 |
| Latitude (degrees minutes seconds) | 29° 08' 31" N |
| Longitude (decimal degrees) | -98.431944 |
| Longitude (degrees minutes seconds) | 098° 25' 55" W |
| Coordinate Source | +/- 1 Second |
| Aquifer Code | 124CRRZ - Carrizo Sand |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 555 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 446 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | |
| Drilling End Date | 0/0/1969 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|-------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Domestic |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | Submersible |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Jack Brown |
| Driller | Moys Water Well Drilling |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | |
| Last Update Date | |

Remarks Cemented from 382 ft. to surface. Pump set at 168 ft.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

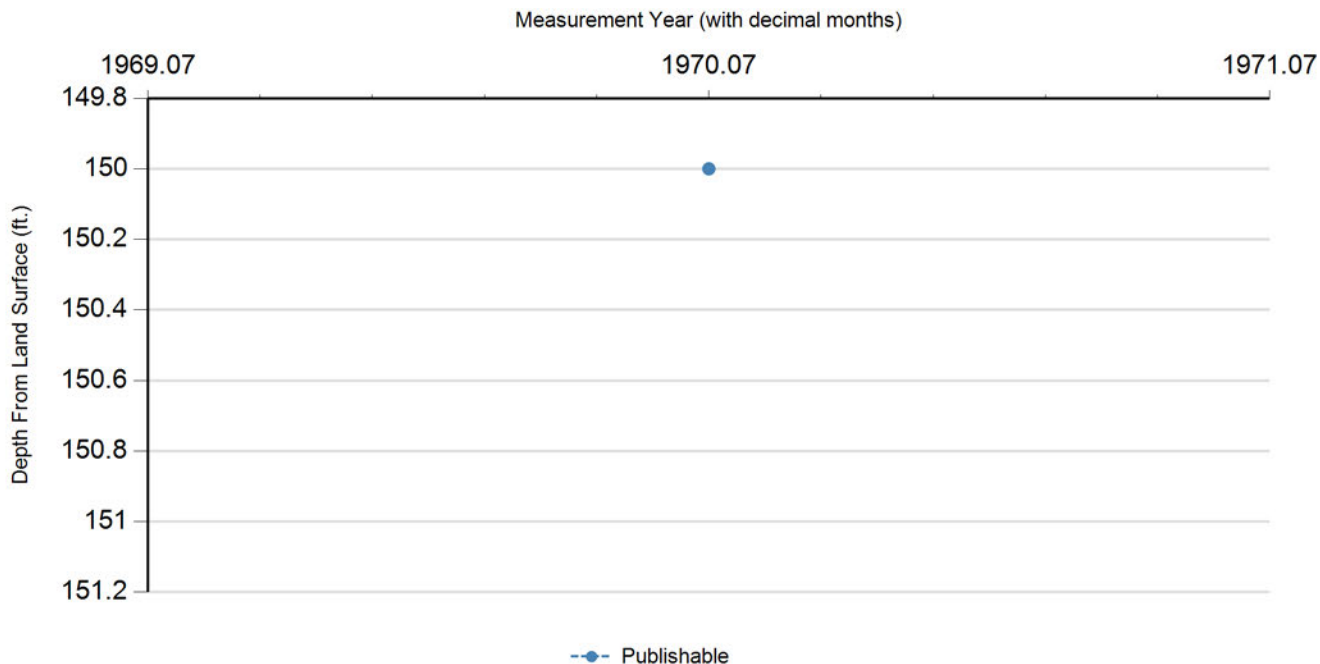
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|--|---------|-----------|----------|
| P | 12/0/1969 | | 150 | | 405 | 1 | Other or Source of Measurement Unknown | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 8/22/1977 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Carrizo Sand

Analyzed Lab: Texas Department of Health

Reliability: Collected from pumped well, but not filtered or preserved

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 13 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 15.86 | mg/L | |
| 00910 | CALCIUM (MG/L) | | 9 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00940 | CHLORIDE, TOTAL (MG/L AS CL) | | 38 | mg/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | < | 0.1 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 30 | mg/L as CaCO ₃ | |
| 00920 | MAGNESIUM (MG/L) | | 2 | mg/L | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO ₃) | < | 0.4 | mg/L as NO ₃ | |
| 00400 | PH (STANDARD UNITS), FIELD | | 6.4 | SU | |
| 00937 | POTASSIUM, TOTAL (MG/L AS K) | | 6 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 32 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.57 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 58 | PCT | |
| 00929 | SODIUM, TOTAL (MG/L AS Na) | | 20 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 190 | MICR | |
| 00945 | SULFATE, TOTAL (MG/L AS SO ₄) | | 13 | mg/L as SO ₄ | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 128 | mg/L | |

Water Quality Analysis

Sample Date: 6/26/1990 **Sample Time:** 1300 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Carrizo Sand

Analyzed Lab: Texas Department of Health

Reliability: Sampled using TWDB protocols

Collection Remarks: No Data

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 60014 | (HYDROXYPHENOL) METHYLETHYL PHENOL, TOTAL, UG/L | | 5 | ug/L | |
| 34551 | 1,2,4-TRICHLOROBENZENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34536 | 1,2-DICHLOROBENZENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34346 | 1,2-DIPHENYLHYDRAZINE, TOTAL, UG/L | < | 5 | ug/L | |
| 34566 | 1,3-DICHLOROBENZENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34571 | 1,4-DICHLOROBENZENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34621 | 2,4,6-TRICHLOROPHENOL, TOTAL, UG/L | < | 11 | ug/L | |
| 34601 | 2,4-DICHLOROPHENOL, TOTAL, UG/L | < | 11 | ug/L | |
| 34606 | 2,4-DIMETHYLPHENOL, TOTAL, UG/L | < | 11 | ug/L | |
| 34616 | 2,4-DINITROPHENOL, TOTAL, UG/L | < | 21 | ug/L | |
| 34611 | 2,4-DINITROTOLUENE, TOTAL, UG/L | < | 5 | ug/L | |
| 51002 | 2,6-DINITRO-2-CRESOL, TOTAL, UG/L | < | 21 | ug/L | |
| 34626 | 2,6-DINITROTOLUENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34581 | 2-CHLORONAPHTHALENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34591 | 2-NITROPHENOL, TOTAL, UG/L | < | 11 | ug/L | |
| 34631 | 3,3'-DICHLOROBENZIDINE, TOTAL, UG/L | < | 5 | ug/L | |
| 51006 | 4,4'-DDD, TOTAL, UG/L | < | 11 | ug/L | |
| 51005 | 4,4'-DDE, TOTAL, UG/L | < | 11 | ug/L | |
| 51007 | 4,4'-DDT, TOTAL, UG/L | < | 11 | ug/L | |
| 34636 | 4-BROMOPHENYL PHENYL ETHER, TOTAL, UG/L | < | 5 | ug/L | |
| 77421 | 4-CHLORO-3-CRESOL, TOTAL, UG/L | < | 11 | ug/L | |
| 34641 | 4-CHLOROPHENYL PHENYL ETHER, TOTAL, UG/L | < | 5 | ug/L | |
| 34646 | 4-NITROPHENOL, TOTAL, UG/L | < | 21 | ug/L | |
| 34253 | A-BHC-ALPHA, TOTAL, UG/L | < | 11 | ug/L | |
| 34205 | ACENAPHTHENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34200 | ACENAPHTHYLENE, TOTAL, UG/L | < | 5 | ug/L | |
| 39330 | ALDRIN, TOTAL, UG/L | < | 11 | ug/L | |
| 39086 | ALKALINITY FIELD DISSOLVED AS CaCO3 | | 10 | mg/L as CaCO 3 | |
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 6 | mg/L as CaCO 3 | |
| 01503 | ALPHA, DISSOLVED (PC/L) | < | 2 | PC/L | |
| 01106 | ALUMINUM, DISSOLVED (UG/L AS AL) | < | 50 | ug/L | |

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|-------|------------|
| 34220 | ANTHRACENE, TOTAL, UG/L | < | 5 | ug/L | |
| 01000 | ARSENIC, DISSOLVED (UG/L AS AS) | < | 10 | ug/L | |
| 01005 | BARIUM, DISSOLVED (UG/L AS BA) | | 113 | ug/L | |
| 34255 | B-BHC-BETA, TOTAL, UG/L | < | 11 | ug/L | |
| 39120 | BENZIDINE, TOTAL, UG/L | < | 5 | ug/L | |
| 34527 | BENZO(A) ANTHRACENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34247 | BENZO-(A)-PYRENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34230 | BENZO(B)FLUORANTHENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34521 | BENZO(GHI)PERYLENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34242 | BENZO(K)FLUORANTHENE, TOTAL, UG/L | < | 5 | ug/L | |
| 03503 | BETA, DISSOLVED (PC/L) | | 10 | PC/L | 5 |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 7.32 | mg/L | |
| 34278 | BIS (2-CHLOROETHOXY) METHANE, TOTAL, UG/L | < | 5 | ug/L | |
| 34273 | BIS (2-CHLOROETHYL) ETHER, TOTAL, UG/L | < | 5 | ug/L | |
| 34283 | BIS (2-CHLOROISOPROPYL) ETHER, TOTAL, UG/L | < | 5 | ug/L | |
| 39100 | BIS(2-ETHYLHEXYL) PHTHALATE, TOTAL, UG/L | | 7 | ug/L | |
| 01020 | BORON, DISSOLVED (UG/L AS B) | | 60 | ug/L | |
| 71870 | BROMIDE, DISSOLVED, (MG/L AS BR) | | 0.4 | mg/L | |
| 51003 | BUTYLBENZYL PHTHALATE, TOTAL, UG/L | < | 5 | ug/L | |
| 01025 | CADMIUM, DISSOLVED (UG/L AS CD) | < | 10 | ug/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS CA) | | 11 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 54 | mg/L | |
| 77966 | CHLOROPHENOL, TOTAL, UG/L | < | 11 | ug/L | |
| 01030 | CHROMIUM, DISSOLVED (UG/L AS CR) | < | 20 | ug/L | |
| 34320 | CHRYSENE, TOTAL, UG/L | < | 5 | ug/L | |
| 01040 | COPPER, DISSOLVED (UG/L AS CU) | < | 20 | ug/L | |
| 77097 | CYCLOHEXANONE, TOTAL, UG/L | | 4 | ug/L | |
| 46323 | DELTA-BHC, TOTAL, UG/L | < | 11 | ug/L | |
| 51004 | DIBENZO (A,H) ANTHRACENE, TOTAL, UG/L | < | 5 | ug/L | |
| 39380 | DIELDRIN, TOTAL, UG/L | < | 11 | ug/L | |
| 34336 | DIETHYL PHTHALATE, TOTAL, UG/L | < | 5 | ug/L | |
| 34341 | DIMETHYL PHTHALATE, TOTAL, UG/L | < | 5 | ug/L | |
| 60005 | DIMETHYL-BENZO-DIPYRAN-2-ONE, TOTAL, UG/L | | 230 | ug/L | |
| 39110 | DI-N-BUTYL PHTHALATE, TOTAL, UG/L | < | 5 | ug/L | |
| 34596 | DI-N-OCTYL PHTHALATE, TOTAL, UG/L | < | 5 | ug/L | |
| 77579 | DIPHENYLAMINE, TOTAL, UG/L | < | 5 | ug/L | |
| 34361 | ENDOSULFAN - ALPHA, TOTAL, UG/L | < | 21 | ug/L | |
| 34356 | ENDOSULFAN - BETA, TOTAL, UG/L | < | 21 | ug/L | |
| 34351 | ENDOSULFAN SULFATE, TOTAL, UG/L | < | 21 | ug/L | |
| 34366 | ENDRIN ALDEHYDE, TOTAL, UG/L | < | 11 | ug/L | |
| 39390 | ENDRIN, TOTAL, UG/L | < | 21 | ug/L | |
| 78013 | ETHYL HEXANOL IN WATER, UG/L | | 92 | ug/L | |

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|-------------------------|------------|
| 78015 | ETHYL METHYL PHENOL IN WATER, UG/L | | 2 | ug/L | |
| 34376 | FLUORANTHENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34381 | FLUORENE, TOTAL, UG/L | < | 5 | ug/L | |
| 00950 | FLUORIDE, DISSOLVED (MG/L AS F) | | 0.08 | mg/L | |
| 39340 | GAMMA-BHC (LINDANE), TOTAL, UG/L | < | 11 | ug/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 40 | mg/L as CaCO 3 | |
| 39420 | HEPTACHLOR EPOXIDE, TOTAL, UG/L | < | 21 | ug/L | |
| 39410 | HEPTACHLOR, TOTAL, UG/L | < | 11 | ug/L | |
| 39700 | HEXACHLOROBENZENE (HCB), TOTAL, UG/L | < | 5 | ug/L | |
| 39702 | HEXACHLOROBUTADIENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34386 | HEXACHLOROCYCLOPENTADIENE, TOTAL, UG/L | < | 5 | ug/L | |
| 34396 | HEXACHLOROETHANE, TOTAL, UG/L | < | 5 | ug/L | |
| 34403 | INDENO (1,2,3-CD) PYRENE | < | 5 | ug/L | |
| 71865 | IODIDE (MG/L AS I) | < | 0.1 | mg/L | |
| 01046 | IRON, DISSOLVED (UG/L AS FE) | | 654 | ug/L | |
| 34408 | ISOPHORONE, TOTAL, UG/L | < | 5 | ug/L | |
| 01049 | LEAD, DISSOLVED (UG/L AS PB) | < | 50 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 3.2 | mg/L | |
| 01056 | MANGANESE, DISSOLVED (UG/L AS MN) | | 24 | ug/L | |
| 71890 | MERCURY, DISSOLVED (UG/L AS HG) | < | 0.2 | ug/L | |
| 60003 | METHYLETHYL PHENOL, TOTAL, UG/L | | 5 | ug/L | |
| 01060 | MOLYBDENUM, DISSOLVED (UG/L AS MO) | < | 20 | ug/L | |
| 34696 | NAPHTHALENE, TOTAL, UG/L | < | 5 | ug/L | |
| 00618 | NITRATE NITROGEN, DISSOLVED (MG/L AS N) | | 0.01 | mg/L as N | |
| 71851 | NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3) | | 0.04 | mg/L as NO3 | |
| 00613 | NITRITE NITROGEN, DISSOLVED (MG/L AS N) | < | 0.01 | mg/L as N | |
| 34447 | NITROBENZENE, TOTAL, UG/L | < | 5 | ug/L | |
| 00608 | NITROGEN, AMMONIA, DISSOLVED (MG/L AS N) | | 0.04 | mg/L as N | |
| 00623 | NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N) | < | 0.1 | mg/L as N | |
| 34438 | N-NITROSODIMETHYLAMINE, TOTAL, UG/L | < | 5 | ug/L | |
| 34428 | N-NITROSO-DI-N-PROPYLAMINE, TOTAL, UG/L | < | 5 | ug/L | |
| 34433 | N-NITROSODIPHENYLAMINE, TOTAL, UG/L | < | 5 | ug/L | |
| 81674 | OCTANOIC ACID IN WATER, UG/L | | 7 | ug/L | |
| 00090 | OXIDATION REDUCTION POTENTIAL (ORP), MILLIVOLTS | | 183.7 | MV | |
| 39032 | PENTACHLOROPHENOL (PCP), TOTAL, UG/L | < | 21 | ug/L | |
| 60002 | PENTYL CYCLOPROPANE, TOTAL, UG/L | | 4 | ug/L | |
| 00400 | PH (STANDARD UNITS), FIELD | | 5.08 | SU | |
| 34461 | PHENANTHRENE, TOTAL, UG/L | < | 5 | ug/L | |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
68-53-809**

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|--------------------|------------|
| 34694 | PHENOL, TOTAL, UG/L | | 36 | ug/L | |
| 78076 | PHENYL ETHANONE IN WATER, UG/L | | 5 | ug/L | |
| 00671 | PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P) | | 0.01 | mg/L as P | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 8.6 | mg/L | |
| 34469 | PYRENE, TOTAL, UG/L | < | 5 | ug/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0 | | |
| 01145 | SELENIUM, DISSOLVED (UG/L AS SE) | < | 2 | ug/L | |
| 00955 | SILICA, DISSOLVED (MG/L AS SI02) | | 37 | mg/L as SI02 | |
| 01075 | SILVER, DISSOLVED (UG/L AS AG) | < | 10 | ug/L | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 1.91 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 59 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS NA) | | 28 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 270 | MICR | |
| 01080 | STRONTIUM, DISSOLVED (UG/L AS SR) | < | 200 | ug/L | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 27 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 25 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 173 | mg/L | |
| 01085 | VANADIUM, DISSOLVED (UG/L AS V) | < | 20 | ug/L | |
| 01090 | ZINC, DISSOLVED (UG/L AS ZN) | | 34 | ug/L | |

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

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6853811 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.125555 |
| Latitude (degrees minutes seconds) | 29° 07' 32" N |
| Longitude (decimal degrees) | -98.42 |
| Longitude (degrees minutes seconds) | 098° 25' 12" 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) | 528 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 665 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 5/22/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Screened |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR Well #5 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | Electric Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DK |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 5 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/12/2005 |
| Last Update Date | 1/12/2005 |

Remarks Owners ASR well#5. Well is used for Public Supply injection well.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | Steel | | | -3 | 470 |
| 16 | Screen | Stainless Steel | | | 470 | 570 |
| 16 | Blank | Stainless Steel | | | 570 | 605 |
| 16 | Screen | Stainless Steel | | | 605 | 660 |
| 16 | Blank | Stainless Steel | | | 660 | 665 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-08-24 | Pump | 1397 | 21.7 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|--------------------------------|
| 0 | 55 | CLAYEY SAND |
| 55 | 80 | SAND |
| 80 | 95 | CLAYEY SAND AND CLAY |
| 95 | 260 | CLAYEY SAND AND CLAY |
| 260 | 360 | SAND |
| 360 | 410 | CLAY |
| 410 | 470 | CLAYEY SAND AND CLAY STRINGERS |
| 470 | 660 | FINE SAND |
| 660 | 735 | CLAY AND CLAYEY SAND |

Annular Seal Range - No Data

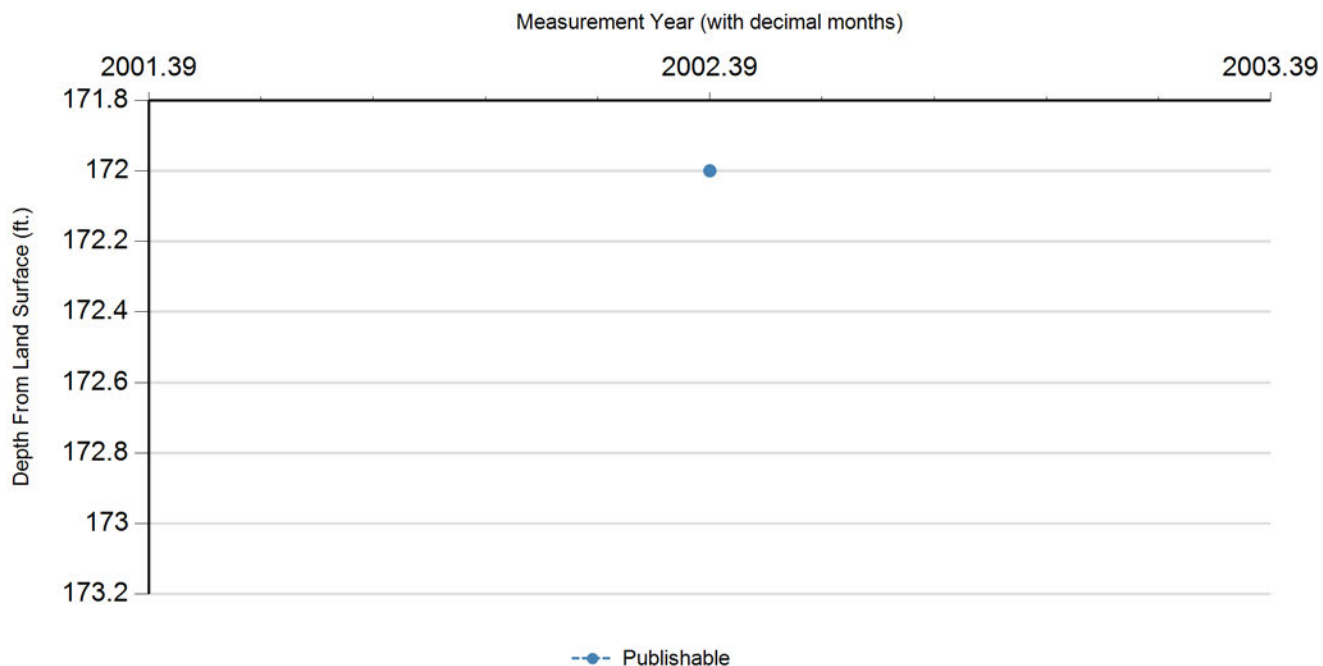
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 5/22/2002 | | 172 | | 356 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6853812 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1288889 |
| Latitude (degrees minutes seconds) | 29° 07' 44" N |
| Longitude (decimal degrees) | -98.4186111 |
| Longitude (degrees minutes seconds) | 098° 25' 07" 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) | 530 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 620 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 5/7/2005 |
| Drilling End Date | 6/30/2005 |
| Drilling Method | Reverse Circulation |
| Borehole Completion | Filter Packed |

| | |
|---|------------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | Tremie |
| Surface Completion | Unknown |
| Owner | San Antonio Water Sys. ASR 23 |
| Driller | Henkle Drilling & Supply Co., Inc. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | 63754 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018EG |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 23 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/30/2009 |
| Last Update Date | 6/26/2017 |

Remarks Specific capacity 48.21 GPM/ft.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 36 | Blank | Steel | | | 0 | 38 |
| 20 | Blank | Steel | | | 0 | 500 |
| 20 | Screen | Steel | | | 500 | 600 |
| 20 | Blank | Steel | | | 600 | 610 |
| 20 | Open Hole | | | | 610 | 620 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2005-06-30 | Pump | 3500 | 72.6 | 36 |
| 2005-09-15 | Pump | 3548 | 84.8 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|--|
| 0 | 5 | FINE SAND |
| 5 | 29 | MED COARSE SAND |
| 29 | 40 | SAND AND CLAY |
| 40 | 90 | BROWN, WHITE, AND GRAY CLAY |
| 90 | 100 | BROWN CLAY, STICKY |
| 100 | 110 | BROWN CLAY, VERY STICKY |
| 110 | 120 | GRAY CLAY, VERY STICKY |
| 120 | 130 | GRAY CLAY |
| 130 | 160 | GRAY CLAY, SANDY |
| 160 | 170 | GRAY CLAY, STICKY, SANDSTONE, HARD |
| 170 | 180 | GRAY CLAY, BROWN CLAY |
| 180 | 190 | GRAY CLAY |
| 190 | 200 | GRAY SANDY CLAY |
| 200 | 210 | GRAY SANDY CLAY, GRAY CLAY |
| 210 | 220 | SANDSTONE, HARD |
| 220 | 300 | GRAY SANDY CLAY, GRAY CLAY |
| 300 | 310 | GRAY SANDY CLAY, COAL |
| 310 | 320 | GRAY SANDY, FINE SAND |
| 320 | 350 | FINE SAND, GRAY SANDY CLAY, GRAY CLAY |
| 350 | 360 | BROWN SANDY CLAY, GRAY SANDY CLAY |
| 360 | 370 | GRAY CLAY STICKY, GRAY SAND CLAY |
| 370 | 450 | GRAY SANDY CLAY, GRAY CLAY |
| 450 | 500 | FINE SANDY AND SANDY GRAY CLAY |
| 500 | 510 | FINE SAND AND COAL |
| 510 | 520 | FINE SANDY AND COAL, MED COARSE SAND |
| 520 | 580 | FINE TO MED COARSE SAND, GRAY SANDY CLAY |
| 580 | 590 | GRAY CLAY SANDY, GRAY CLAY STICKY |
| 590 | 620 | SILTY SAND AND GRAY CLAY |
| 620 | 670 | GRAY CLAY AND SAND |
| 670 | 680 | SILTY GRAY SAND |
| 680 | 690 | GRAY SANDY CLAY, GRAY CLAY |
| 690 | 730 | GRAY CLAY AND SANDSTONE |

Annular Seal Range

| Annular Seal Material | Amount | Unit | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------------------|--------|------------|-----------------|--------------------|
| Cement | 72 | Bags/Sacks | 0 | 38 |
| Cement | 1620 | Bags/Sacks | 0 | 492 |

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 42 | 0 | 38 |
| 34 | 0 | 500 |
| 30 | 500 | 620 |

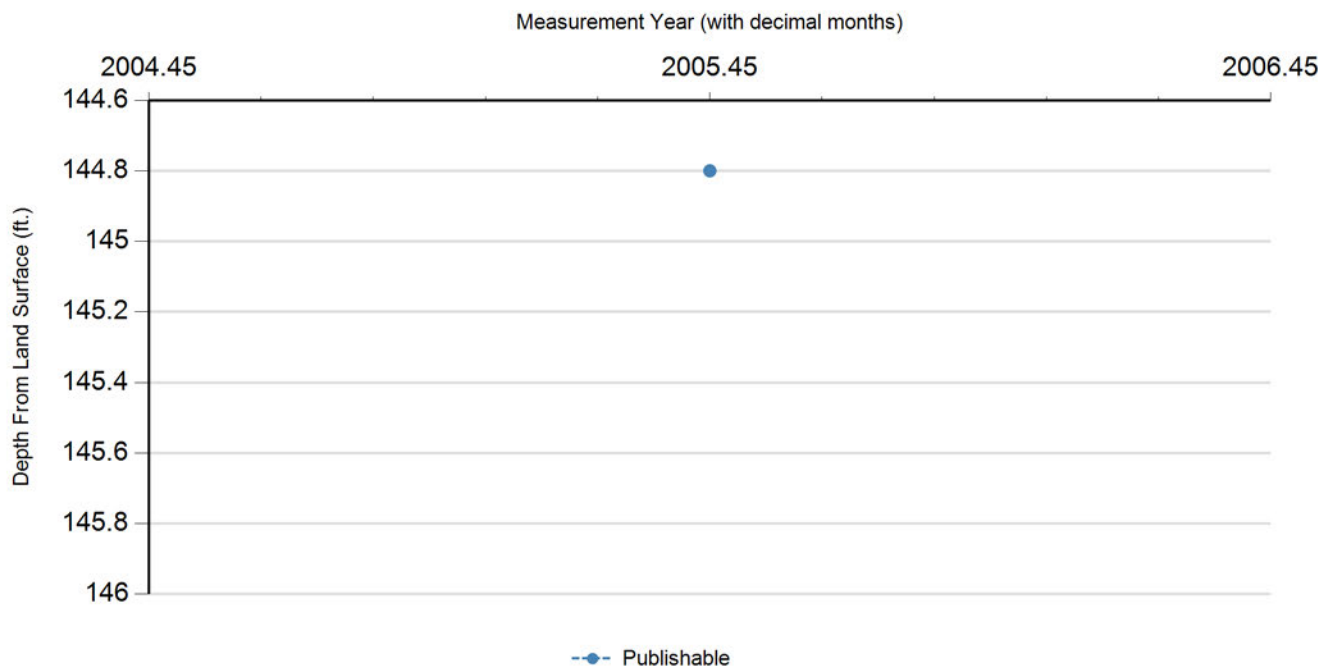
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|------|
| Gravel | 462 | 620 | 8/12 |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 6/14/2005 | | 144.8 | | 385.2 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<https://www.twdb.texas.gov/groundwater/data/gwdb rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at GroundwaterData@twdb.texas.gov.

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
68-53-813**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

| | |
|--|------------------------------|
| State Well Number | 6853813 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1252778 |
| Latitude (degrees minutes seconds) | 29° 07' 31" N |
| Longitude (decimal degrees) | -98.4311111 |
| Longitude (degrees minutes seconds) | 098° 25' 52" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 124WLCX - Wilcox Group |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 554 |
| Land Surface Elevation Method | Digital Elevation Model -DEM |
| Well Depth (feet below land surface) | 1796 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 10/3/2006 |
| Drilling End Date | 1/24/2007 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|--|----------------------------|
| Well Type | Test Hole |
| Well Use | Other |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | |
| Annular Seal Method | External Pressure Tremmie |
| Surface Completion | Surface Slab Installed |
| Owner | SAWS MW-1 |
| Driller | Alsay, Inc. |
| Other Data Available | Aquifer Test; Drillers Log |
| Well Report Tracking Number | 106765 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | Brackish Wilcox MW-1 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Consultant |
| Created Date | 7/1/2010 |
| Last Update Date | 4/24/2019 |

| | |
|----------------|---|
| Remarks | Location questionable. Test results only in TWDB files. |
|----------------|---|

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 6 | Blank | Steel | | | 0 | 500 |
| 4 | Blank | Steel | | | 0 | 1240 |
| 4 | Screen | Stainless Steel | | | 1240 | 1250 |
| 4 | Blank | Steel | | | 1250 | 1270 |
| 4 | Screen | Stainless Steel | | | 1270 | 1290 |
| 4 | Blank | Steel | | | 1290 | 1325 |
| 4 | Screen | Stainless Steel | | | 1325 | 1335 |
| 4 | Blank | Steel | | | 1335 | 1370 |
| 4 | Screen | Stainless Steel | | | 1370 | 1400 |
| 4 | Blank | Steel | | | 1400 | 1440 |
| 4 | Screen | Stainless Steel | | | 1440 | 1446 |
| 4 | Blank | Steel | | | 1446 | 1495 |
| 4 | Screen | Stainless Steel | | | 1495 | 1505 |
| 4 | Blank | Steel | | | 1505 | 1520 |
| 4 | Screen | Stainless Steel | | | 1520 | 1530 |
| 4 | Blank | Steel | | | 1530 | 1550 |
| 4 | Screen | Stainless Steel | | | 1550 | 1560 |
| 4 | Blank | Steel | | | 1560 | 1630 |
| 4 | Screen | Stainless Steel | | | 1630 | 1650 |
| 4 | Blank | Steel | | | 1650 | 1665 |
| 4 | Screen | Stainless Steel | | | 1665 | 1675 |
| 4 | Blank | Steel | | | 1675 | 1698 |
| 4 | Screen | Stainless Steel | | | 1698 | 1723 |
| 4 | Blank | Steel | | | 1723 | 1771 |
| 4 | Screen | Stainless Steel | | | 1771 | 1786 |
| 4 | Blank | Steel | | | 1786 | 1796 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2007-01-19 | Pump | 200 | 83.12 | 8 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|------------------|
| 0 | 58 | Top Soil & Clay |
| 58 | 87 | Yellow Clay |
| 87 | 115 | Sandy red clay |
| 115 | 148 | Dark gray shale |
| 148 | 163 | Sandy shale |
| 163 | 172 | Light gray shale |
| 172 | 190 | Sandy gray shale |
| 190 | 221 | Sand |
| 221 | 228 | Sandy gray shale |
| 228 | 240 | Sand |

**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
68-53-813**

| | | |
|------|------|----------------------------|
| 240 | 260 | Sandy gray shale |
| 260 | 390 | Sand |
| 390 | 450 | Sticky gray shale |
| 450 | 698 | Gray pepper sand |
| 698 | 714 | Sandy gray shale |
| 714 | 742 | Coarse Sand |
| 742 | 762 | Sandy gray shale |
| 762 | 792 | Sand |
| 792 | 800 | Gray shale |
| 800 | 834 | Sandy gray shale |
| 834 | 850 | Gray Shale |
| 850 | 918 | Whitish gray sand w/ shale |
| 918 | 980 | Sandy gray shale |
| 980 | 996 | Gray shale |
| 996 | 1014 | Gray pepper sand |
| 1014 | 1062 | Sandy sandy shale |
| 1062 | 1076 | Sand |
| 1076 | 1106 | Sandy gray shale |
| 1106 | 1138 | Gray shale w/ little sand |
| 1138 | 1158 | Sand w/gray shale |
| 1158 | 1208 | Sandy gray shale |
| 1208 | 1310 | Sand w/ little sand |
| 1310 | 1318 | Gray Shale |
| 1318 | 1366 | Gray shale w/ little sand |
| 1366 | 1436 | Gray sand |
| 1436 | 1450 | Sandy gray shale |
| 1450 | 1506 | Gray sand w/ lignite |
| 1506 | 1516 | Gray shale w/ little sand |
| 1516 | 1570 | Gray Sand |
| 1570 | 1624 | Gray shale w/ little sand |
| 1624 | 1658 | Sand |
| 1658 | 1664 | Gray shale |
| 1664 | 1678 | Sand |
| 1678 | 1694 | Gray Sand |
| 1694 | 1734 | Sand |
| 1734 | 1788 | Sandy gray shale |
| 1788 | 1816 | Gray shale |
| 1816 | 1842 | Sandy gray shale |
| 1842 | 1846 | Gray shale |
| 1846 | 1920 | Sandy shale w/ lignite |

Annular Seal Range

| Annular Seal Material | Amount | Unit | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------------------|--------|------------|-----------------|--------------------|
| Cement | 12 | Yards | 0 | 54 |
| Cement | 600 | Bags/Sacks | 0 | 1120 |
| Bentonite | 5 | Bags/Sacks | 1120 | 1130 |

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 30 | 0 | 54 |
| 15 | 54 | 560 |
| 12.25 | 560 | 1810 |

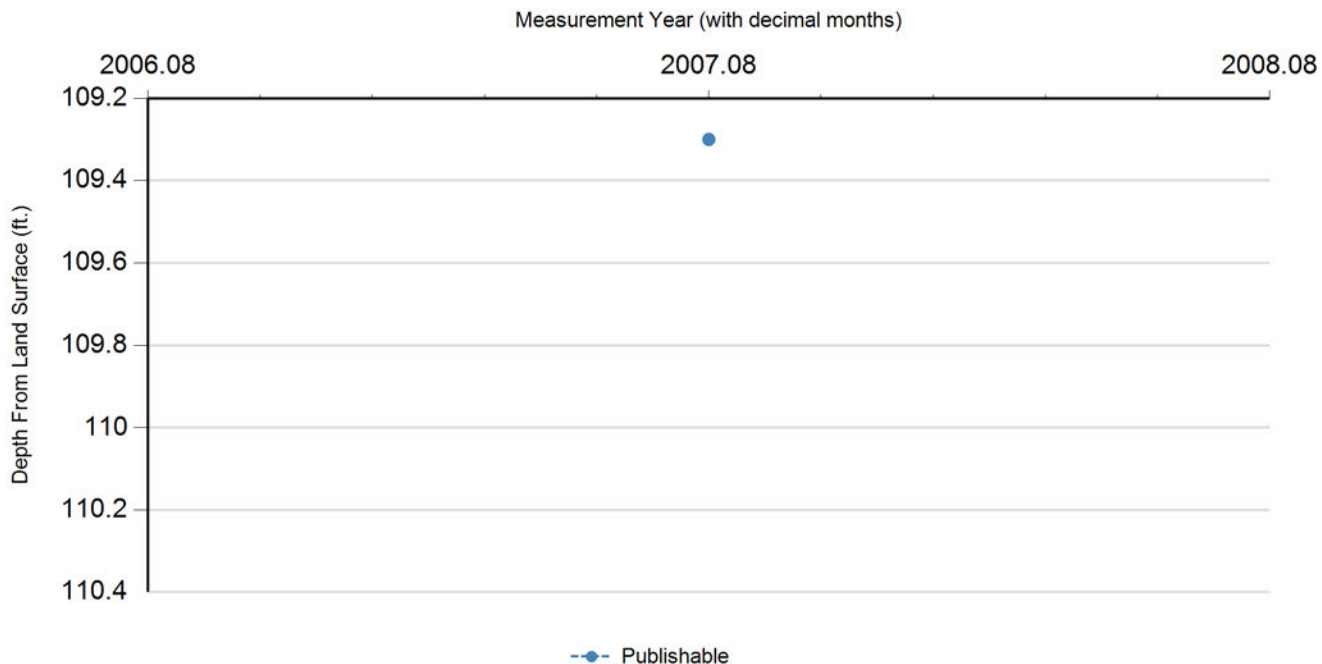
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|-------|
| Gravel | 1130 | 1810 | 16-30 |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 1/29/2007 | | 109.3 | | 444.7 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 11/14/2006 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Groundwater Consultant

Sampled Aquifer: Wilcox Group

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: TWDB R-374, Ch.9

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 207 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 252.61 | mg/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | | 44.8 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS Cl) | | 274 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 206 | mg/L as CaCO ₃ | |
| 01045 | IRON, TOTAL (UG/L AS Fe) | | 647 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS Mg) | | 22.8 | mg/L | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.7 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 9.38 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0.02 | | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 12.86 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 82 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | | 424 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2160 | MICR | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO ₄) | | 508 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 31 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1407 | mg/L | |

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

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**Texas Water Development Board (TWDB)
Groundwater Database (GWDB)
Well Information Report for State Well Number
68-53-814**

[GWDB Reports and Downloads](#)

Well Basic Details

[Scanned Documents](#)

| | |
|--|------------------------------|
| State Well Number | 6853814 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1255556 |
| Latitude (degrees minutes seconds) | 29° 07' 32" N |
| Longitude (decimal degrees) | -98.4313889 |
| Longitude (degrees minutes seconds) | 098° 25' 53" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 124WLCX - Wilcox Group |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 554 |
| Land Surface Elevation Method | Digital Elevation Model -DEM |
| Well Depth (feet below land surface) | 1804 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 12/28/2006 |
| Drilling End Date | 5/25/2007 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|--|----------------------------|
| Well Type | Test Hole |
| Well Use | Other |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | Yes |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | |
| Annular Seal Method | External Pressure Tremmie |
| Surface Completion | Surface Slab Installed |
| Owner | SAWS TW-1 |
| Driller | Alsay, Inc. |
| Other Data Available | Aquifer Test; Drillers Log |
| Well Report Tracking Number | 121662 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | Brackish Wilcox TW-1 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Consultant |
| Created Date | 7/1/2010 |
| Last Update Date | 4/25/2019 |

| | |
|----------------|--|
| Remarks | Aquifer test results in TWDB R-374. Location questionable. |
|----------------|--|

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 12 | Blank | Steel | | | 0 | 1100 |
| 8 | Blank | Steel | | | 1100 | 1226 |
| 8 | Screen | Stainless Steel | | | 1226 | 1300 |
| 8 | Blank | Steel | | | 1300 | 1308 |
| 8 | Screen | Stainless Steel | | | 1308 | 1336 |
| 8 | Blank | Steel | | | 1336 | 1380 |
| 8 | Screen | Stainless Steel | | | 1380 | 1410 |
| 8 | Blank | Steel | | | 1410 | 1430 |
| 8 | Screen | Stainless Steel | | | 1430 | 1450 |
| 8 | Blank | Steel | | | 1450 | 1480 |
| 8 | Screen | Stainless Steel | | | 1480 | 1500 |
| 8 | Blank | Steel | | | 1500 | 1510 |
| 8 | Screen | Stainless Steel | | | 1510 | 1560 |
| 8 | Blank | Steel | | | 1560 | 1616 |
| 8 | Screen | Stainless Steel | | | 1616 | 1646 |
| 8 | Blank | Steel | | | 1646 | 1652 |
| 8 | Screen | Stainless Steel | | | 1652 | 1684 |
| 8 | Blank | Steel | | | 1684 | 1704 |
| 8 | Screen | Stainless Steel | | | 1704 | 1784 |
| 8 | Blank | Steel | | | 1784 | 1804 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2007-05-25 | Pump | 1050 | 174.23 | 60 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|--------------------------|
| 0 | 6 | Sub structure |
| 6 | 58 | Top soil |
| 58 | 87 | Yellow clay |
| 87 | 115 | Sandy red clay |
| 115 | 148 | Dark gray clay |
| 148 | 163 | Sandy clay |
| 163 | 172 | Light gray shale |
| 172 | 190 | Sandy gray shale |
| 190 | 221 | Sand |
| 221 | 228 | Sandy gray shale |
| 228 | 240 | Sand |
| 240 | 270 | Sandy gray shale |
| 270 | 365 | Sand |
| 365 | 396 | Sandy gray shale |
| 396 | 428 | Sandy clay |
| 428 | 459 | Sandy gray shale |
| 459 | 490 | Coarse sand with lignite |
| 490 | 709 | Coarse sand |
| 709 | 771 | Sandy gray shale |
| 771 | 866 | Fine sand with shale |
| 866 | 958 | Fine sand with lignite |
| 958 | 1004 | Sandy gray shale |
| 1004 | 1054 | Shale with rocks |
| 1054 | 1086 | Sandy gray shale |
| 1086 | 1130 | Sandy shale with rocks |
| 1130 | 1150 | Sand |
| 1150 | 1200 | Sandy shale with lignite |
| 1200 | 1226 | Sandy shale |
| 1226 | 1302 | Sand |
| 1302 | 1320 | Sandy gray shale |
| 1320 | 1354 | Sand |
| 1354 | 1390 | Sand with gray shale |
| 1390 | 1410 | Sand |
| 1410 | 1480 | Sandy clay |
| 1480 | 1500 | Sand |
| 1500 | 1580 | Sandy clay |
| 1580 | 1604 | Sandy clay with rocks |
| 1604 | 1646 | Sand |
| 1646 | 1702 | Sandy shale |
| 1702 | 1770 | Sand with little shale |
| 1770 | 1866 | Sandy clay |

Annular Seal Range - No Data

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 36 | 0 | 54 |
| 20 | 54 | 1820 |
| 9.875 | 1820 | 1860 |

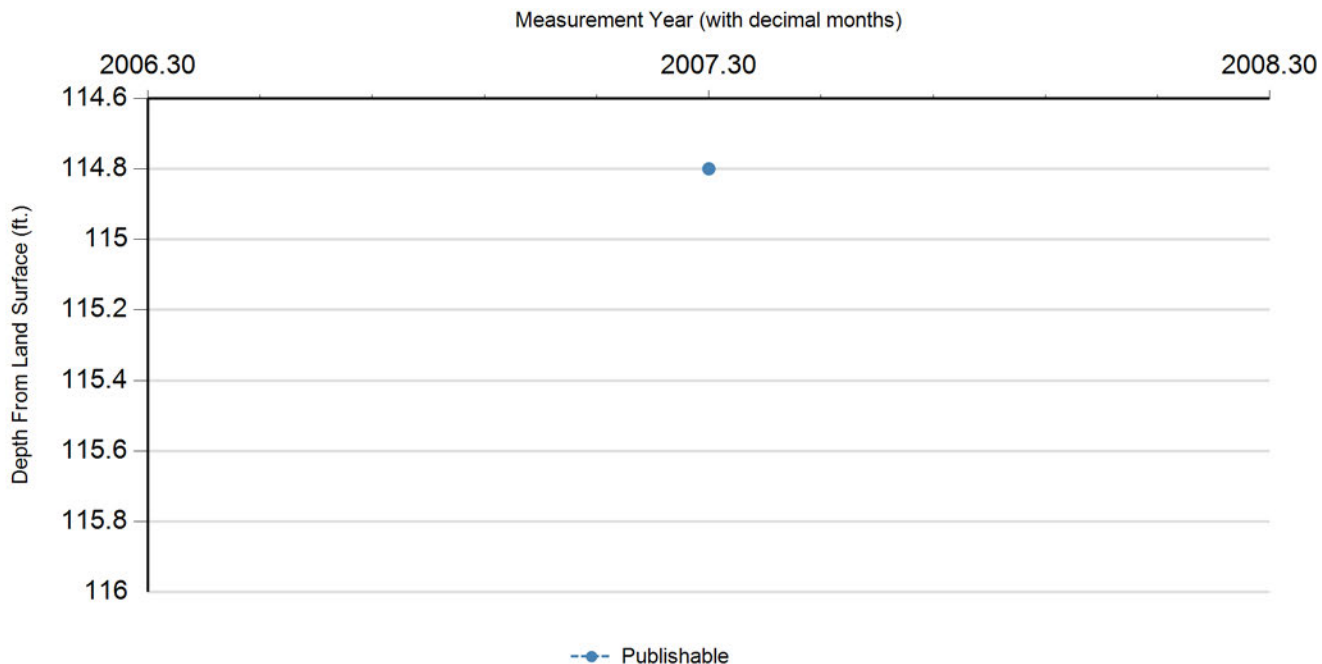
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|-------|
| Gravel | 1120 | 1820 | 16-30 |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 4/18/2007 | | 114.8 | | 439.2 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis

Sample Date: 4/20/2007 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Wilcox Group

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: TWDB R-374, Ch. 9

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|--|------|--------|---------------------------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO ₃) | | 236 | mg/L as CaCO ₃ | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO ₃) | | 288 | mg/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | | 42.8 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO ₃) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS Cl) | | 230 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO ₃) | | 203 | mg/L as CaCO ₃ | |
| 01045 | IRON, TOTAL (UG/L AS Fe) | | 324 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS Mg) | | 23.4 | mg/L | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.5 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 8.64 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0.65 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO ₂) | | 19.1 | mg/L as SiO ₂ | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 11.87 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 81 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | | 389 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 1970 | MICR | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO ₄) | | 508 | mg/L as SO ₄ | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 33 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1363 | mg/L | |

Water Quality Analysis

Sample Date: 3/4/2008 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Wilcox Group

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: TWDB R-374, Ch.9

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 233 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 284.34 | mg/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | | 44.2 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 238 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 203 | mg/L as CaCO3 | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 306 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 22.4 | mg/L | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.6 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 7.91 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0.61 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 21.1 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 11.8 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 81 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | | 386 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2040 | MICR | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 526 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 33 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1385 | mg/L | |
| 82079 | TURBIDITY, LAB, NEPHELOMETRIC TURBIDITY UNITS, NTU | | 1.5 | NTU | |

Water Quality Analysis

Sample Date: 3/12/2008 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Wilcox Group

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: TWDB R-374, Ch. 9

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 232 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 283.12 | mg/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | | 43.2 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 239 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 200 | mg/L as CaCO3 | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 241 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 22.4 | mg/L | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.6 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 8.38 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0.64 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 20.9 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 11.81 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 81 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | | 384 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2040 | MICR | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 513 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 33 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1370 | mg/L | |
| 82079 | TURBIDITY, LAB, NEPHELOMETRIC TURBIDITY UNITS, NTU | | 1.6 | NTU | |

Water Quality Analysis

Sample Date: 3/18/2008 **Sample Time:** 0000 **Sample Number:** 1 **Collection Entity:** Texas Water Development Board

Sampled Aquifer: Wilcox Group

Analyzed Lab: LCRA - Lower Colorado River Authority

Reliability: Sampled using TWDB protocols

Collection Remarks: TWDB R-#74, Ch.9

| Parameter Code | Parameter Description | Flag | Value* | Units | Plus/Minus |
|----------------|---|------|--------|---------------|------------|
| 00415 | ALKALINITY, PHENOLPHTHALEIN (MG/L) | | 0 | mg/L | |
| 00410 | ALKALINITY, TOTAL (MG/L AS CaCO3) | | 232 | mg/L as CaCO3 | |
| 00440 | BICARBONATE ION, CALCULATED (MG/L AS HCO3) | | 283.12 | mg/L | |
| 00915 | CALCIUM, DISSOLVED (MG/L AS Ca) | | 42.7 | mg/L | |
| 00445 | CARBONATE ION, CALCULATED (MG/L AS CO3) | | 0 | mg/L | |
| 00941 | CHLORIDE, DISSOLVED (MG/L AS CL) | | 230 | mg/L | |
| 00900 | HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3) | | 197 | mg/L as CaCO3 | |
| 01045 | IRON, TOTAL (UG/L AS FE) | | 238 | ug/L | |
| 00925 | MAGNESIUM, DISSOLVED (MG/L AS MG) | | 21.9 | mg/L | |
| 00400 | PH (STANDARD UNITS), FIELD | | 7.5 | SU | |
| 00935 | POTASSIUM, DISSOLVED (MG/L AS K) | | 7.78 | mg/L | |
| 71860 | RESIDUAL SODIUM CARBONATE, CALCULATED | | 0.7 | | |
| 00955 | SILICA, DISSOLVED (MG/L AS SiO2) | | 21.8 | mg/L as SiO2 | |
| 00931 | SODIUM ADSORPTION RATIO, CALCULATED (SAR) | | 11.81 | | |
| 00932 | SODIUM, CALCULATED, PERCENT | | 81 | PCT | |
| 00930 | SODIUM, DISSOLVED (MG/L AS Na) | | 381 | mg/L | |
| 00094 | SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C) | | 2060 | MICR | |
| 00946 | SULFATE, DISSOLVED (MG/L AS SO4) | | 506 | mg/L as SO4 | |
| 00010 | TEMPERATURE, WATER (CELSIUS) | | 33 | C | |
| 70301 | TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L) | | 1350 | mg/L | |
| 82079 | TURBIDITY, LAB, NEPHELOMETRIC TURBIDITY UNITS, NTU | | 1.1 | NTU | |

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

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[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

| | |
|---|----------------------------|
| State Well Number | 6853903 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.131944 |
| Latitude (degrees minutes seconds) | 29° 07' 55" N |
| Longitude (decimal degrees) | -98.416944 |
| Longitude (degrees minutes seconds) | 098° 25' 01" W |
| Coordinate Source | +/- 10 Seconds |
| Aquifer Code | 124CRRZ - Carrizo Sand |
| Aquifer | Carrizo-Wilcox |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 545 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 814 |
| Well Depth Source | Unknown |
| Drilling Start Date | |
| Drilling End Date | 0/0/1968 |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|---------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Unused |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | None |
| Pump Depth (feet below land surface) | |
| Power Type | |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Leo Jasik |
| Driller | Moy's Water Well Drilling |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | |
| Created Date | |
| Last Update Date | |

Remarks Slotted from 350 to 550 ft. Gravel packed. Development test yielded 2,500 gpm.

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6853908 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.132222 |
| Latitude (degrees minutes seconds) | 29° 07' 56" N |
| Longitude (decimal degrees) | -98.415278 |
| Longitude (degrees minutes seconds) | 098° 24' 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) | 545 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 620 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 5/1/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR #1 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | Electric Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DG |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 1 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/12/2005 |
| Last Update Date | 1/12/2005 |

Remarks Owners ASR Well #1. Well is used for Public Supply injection. Cemented from 0 to 420 feet. Gravel packed from 420 to 620 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | | | | 0 | 455 |
| 16 | Screen | | | | 455 | 600 |
| 16 | Blank | | | | 600 | 605 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-11-30 | Pump | 1397 | 36.6 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|------------------------|---------------------------|------------------------|
| 0 | 95 | CLAY |
| 95 | 114 | SHALE |
| 114 | 270 | SANDY GREEN CLAY |
| 270 | 490 | SAND AND TRACE OF CLAY |
| 490 | 522 | CLAY, TRACE OF SAND |
| 522 | 525 | CLAY |
| 525 | 585 | SAND |
| 585 | 608 | SAND W/ CLAY STRINGERS |
| 608 | 670 | CLAY |

Annular Seal Range - No Data

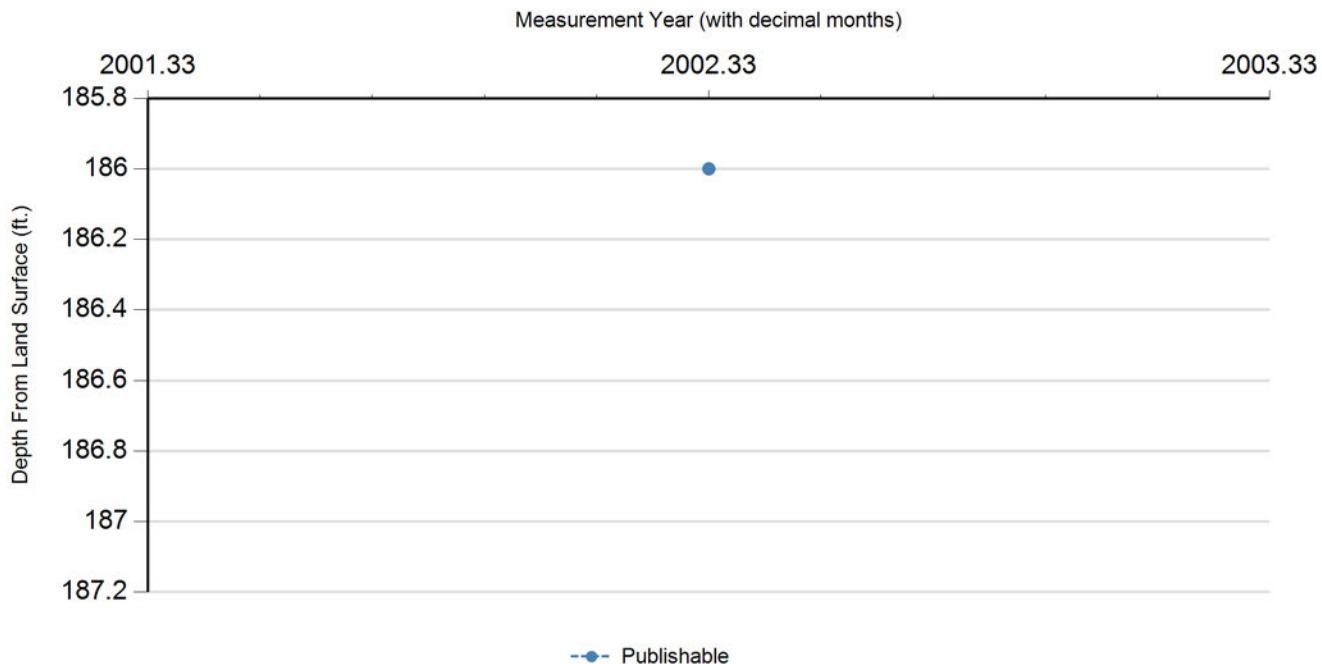
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 5/1/2002 | | 186 | | 359 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6853911 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1308333 |
| Latitude (degrees minutes seconds) | 29° 07' 51" N |
| Longitude (decimal degrees) | -98.4083333 |
| Longitude (degrees minutes seconds) | 098° 24' 30" 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) | 557 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 685 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 4/8/2002 |
| Drilling End Date | 6/4/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Screened |

| | |
|---|---------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | Turbine |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | Positive Displacement |
| Surface Completion | Surface Slab Installed |
| Owner | SAWS ASR Well #7 |
| Driller | Alsay, Inc. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | 378463 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DM |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 7 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/12/2005 |
| Last Update Date | 3/20/2024 |

Remarks Owners well ASR #7. Well is used for Public Supply injection. Cemented from 0 to 475 feet. Gravel packed from 475 to 685 feet. Reported yield 1400 GPM with 26 feet drawdown after pumping 36 hours in 2002. Specific capacity 53 GPM/ft.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 30 | Blank | Steel | | | 0 | 60 |
| 16 | Blank | Steel | | | 0 | 510 |
| 16 | Screen | Stainless Steel | | | 510 | 685 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-06-04 | Pump | 1438 | 26.9 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|------------------------|
| 0 | 70 | YELLOW SANDY CLAY |
| 70 | 98 | SAND |
| 98 | 155 | GRAY SHALE W/ LIGNITE |
| 155 | 196 | SAND |
| 196 | 250 | SANDY SHALE BROWN |
| 250 | 270 | SAND |
| 270 | 290 | SANDY SHALE BROWN |
| 290 | 310 | SAND |
| 310 | 330 | SANDY SHALE |
| 330 | 386 | SAND |
| 386 | 406 | SANDY SHALE |
| 406 | 698 | SAND |
| 698 | 702 | LIGNITE |
| 702 | 748 | SAND |
| 748 | 775 | SAND W/ LIGNITE STREAK |

Annular Seal Range - No Data

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 30 | 0 | 60 |
| 26 | 0 | 685 |

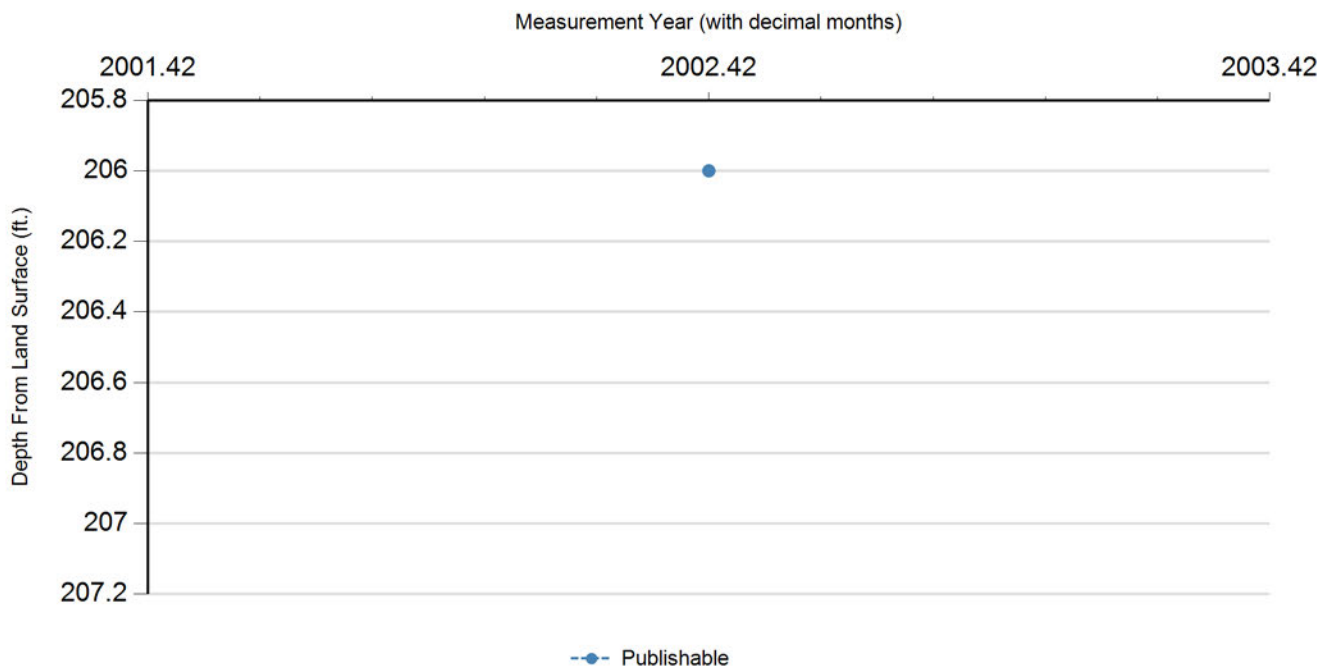
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|------|
| Gravel | 475 | 685 | |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 6/4/2002 | | 206 | | 351 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6853918 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1316667 |
| Latitude (degrees minutes seconds) | 29° 07' 54" N |
| Longitude (decimal degrees) | -98.4127778 |
| Longitude (degrees minutes seconds) | 098° 24' 46" 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) | 552 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 640 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 3/24/2005 |
| Drilling End Date | 4/24/2005 |
| Drilling Method | Reverse Circulation |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|------------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | Pumped through tremmie pipe |
| Surface Completion | Unknown |
| Owner | San Antonio Water Sys. ASR 19 |
| Driller | Henkle Drilling & Supply Co., Inc. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | 59119 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018ED |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 19 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 2/2/2009 |
| Last Update Date | 3/20/2024 |

Remarks Owners well #ASR 19. Measured yield 3500 GPM with 68 feet drawdown after pumping 36 hours in 2005. Specific capacity 51.47 GPM/ft. Pumping level 235.7 feet. Cemented from 0 to 432 feet. Gravel packed from 432 to 640 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 36 | Blank | Steel | | | 0 | 38 |
| 20 | Blank | Steel | | | 0 | 470 |
| 20 | Screen | Stainless Steel | | | 470 | 620 |
| 20 | Blank | Steel | | | 620 | 630 |
| 20 | Open Hole | | | | 630 | 640 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2005-04-18 | Pump | 3518 | 59 | 1 |
| 2005-04-24 | Pump | 3500 | 68 | 36 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|---|
| 0 | 4 | FINE SAND |
| 4 | 20 | BROWN AND RED CLAY, SAND STRKS |
| 20 | 27 | FINE CEMENTED SAND |
| 27 | 30 | SAND AND CLAY STRKS,SAND FINE TO MED COARSE |
| 30 | 50 | FINE SAND AND CLAY |
| 50 | 55 | BROWN CLAYS |
| 55 | 80 | CLAYS, BROWN AND YELLOW |
| 80 | 83 | BROWN CLAYS |
| 83 | 123 | GRAY CLAYS, STICKY |
| 123 | 127 | GRAY SANDSTONE, |
| 127 | 130 | GRAY CLAYS, W/ SANDSTONE STRKS |
| 130 | 140 | GRAY CLAYS W/ FINE TO MED SAND |
| 140 | 160 | FINE SAND MIXED W/ GRAY CLAY |
| 160 | 200 | GRAY STICKY CLAY |
| 200 | 210 | GRAY SANDY CLAY |
| 210 | 230 | GRAY STICKY CLAY W/ HARD STRKS OF SANDSTONE |
| 230 | 280 | GRAY CLAY, STICKY |
| 280 | 290 | GRAY CLAY, COAL, FINE SAND |
| 290 | 300 | GRAY CLAY, SANDY CLAY, COAL, YELLOW CLAY, FINESAND |
| 300 | 310 | GRAY CLAY, FINE SAND |
| 310 | 320 | FINE SAND, SANDY CLAY |
| 320 | 340 | BROWN SAND CLAY, FINE SAND, COAL |
| 340 | 350 | YELLOW CLAY, FINE SANDY, GRAY SANDY CLAY |
| 350 | 360 | FINE TO MED COARSE SAND, SANDY CLAY |
| 360 | 380 | GRAY SANDY CLAY, FINE SAND, YELLOW CLAY, WHITE CLAY |
| 380 | 400 | FINE TO MED COARSE SAND, COAL GRAY SANDY CLAY |
| 400 | 410 | SANDY CLAY GRAY, FINE SANDY CLAY |
| 410 | 440 | FINE TO MED COARSE SAND, GRAY SAND, SANDY CLAY |
| 440 | 450 | FINE SAND |
| 450 | 460 | FINE SANDY, MIX COAL, GRAY CLAY |
| 460 | 470 | FINE TO MED COARSE, BROWN CLAY |
| 470 | 540 | FINE SAND, GRAY SANDY CLAY, WHITE CLAY, YELLOWCLAY |
| 540 | 550 | FINE SAND, IX CLAY, GRAY |
| 550 | 560 | FINE SAND, SANDY GRAY CLAY, BROWN SANDY CLAY |
| 560 | 570 | FINE TO MED COARSE SANDY, GRAY CLAY |
| 570 | 610 | FINE SAND, SOME CLAYS, SANDSTONE |
| 610 | 640 | MED SAND, GRAY CLAY |
| 640 | 680 | FINE SAND |
| 680 | 690 | MED SAND |
| 690 | 700 | FINE SAND, SOME GRAY CLAY740 |
| 700 | 740 | SILTY SAND, GRAY CLAY |

Annular Seal Range - No Data

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 42 | 0 | 38 |
| 32 | 38 | 473 |
| 30 | 473 | 640 |

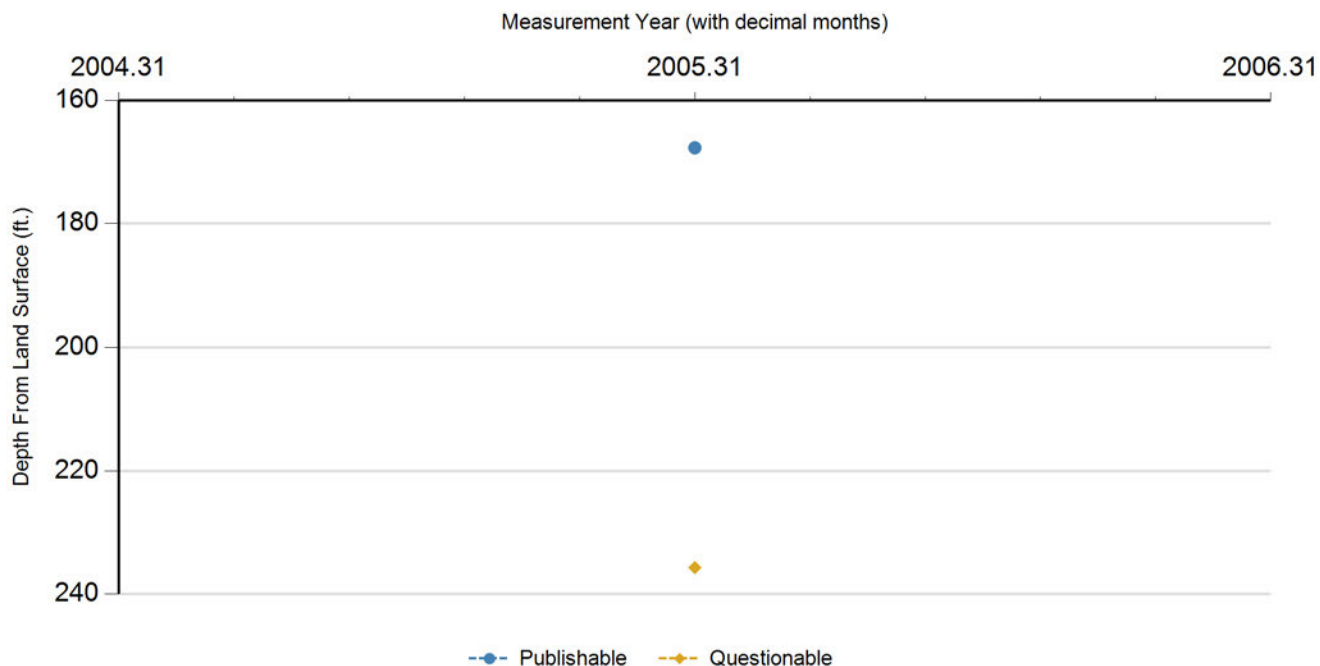
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|------|
| Gravel | 432 | 640 | 8-16 |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 4/25/2005 | | 167.7 | | 384.3 | 1 | Registered Water Well Driller | Unknown | | |
| Q | 4/25/2005 | | 235.7 | 68.00 | 316.3 | 2 | Registered Water Well Driller | Unknown | 2 | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |
| Q | Questionable |

| Remark ID | Remark Description |
|-----------|---------------------------|
| 2 | Pumping-level measurement |

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6853921 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.128333 |
| Latitude (degrees minutes seconds) | 29° 07' 42" N |
| Longitude (decimal degrees) | -98.415834 |
| Longitude (degrees minutes seconds) | 098° 24' 57" 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) | 518 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 590 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 4/26/2005 |
| Drilling End Date | 6/11/2005 |
| Drilling Method | Reverse Circulation |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|------------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | Pumped through tremmie pipe |
| Surface Completion | Unknown |
| Owner | San Antonio Water Sys. ASR 24 |
| Driller | Henkle Drilling & Supply Co., Inc. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | 61447 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018EH |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 24 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 2/2/2009 |
| Last Update Date | 7/21/2016 |

Remarks Owners well ASR 24. Measured yield 3500 GPM with 91.1 feet drawdown after pumping 36 hours in 2005. Specific capacity 38.42 GPM/ft. Pumping level 238.4 feet. Cemented from 0 to 452 feet. Gravel packed from 452 to 590 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 36 | Blank | Steel | | | 0 | 38 |
| 20 | Blank | Steel | | | 0 | 472 |
| 20 | Screen | Stainless Steel | | | 472 | 580 |
| 20 | Blank | Steel | | | 580 | 590 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2005-06-11 | Pump | 3500 | 91.1 | 36 |
| 2005-06-12 | Pump | 3548 | 81.6 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|--|
| 0 | 10 | SAND AND CLAY STRKS |
| 10 | 20 | SANDSTONE W/ STRKS |
| 20 | 27 | SANDSTONE |
| 27 | 60 | BROWN AND YELLOW CLAYS, SOME FINE SAND |
| 60 | 70 | BROWN AND WHITE CLAYS |
| 70 | 80 | BROWN AND YELLOW CLAYS SOME SAND |
| 80 | 90 | DARK BROWN CLAY |
| 90 | 95 | HIGHLY CEMENTED GRAY CLAY |
| 95 | 130 | GRAY CLAY, VERY STICKY |
| 130 | 140 | GRAY CLAY, STICKY |
| 140 | 150 | GRAY CLAY, SANDSTONE, HARD |
| 150 | 190 | GRAY SANDY CLAY, GRAY CLAY |
| 190 | 340 | GRAY CLAY, SANDY |
| 340 | 350 | FINE SAND, GRAY SANDY CLAY |
| 350 | 360 | GRAY CLAY, FIRM |
| 360 | 410 | GRAY SANDY CLAY, GRAY CLAY |
| 410 | 430 | GRAY SANDY CLAY, COAL |
| 430 | 490 | GRAY SANDY CLAY, FINE SAND |
| 490 | 520 | FINE SANDY COAL, MED COARSE SANDY |
| 520 | 550 | FINE TO MED SAND, GRAY SANDY CLAY |
| 550 | 590 | FINE SILTY SAND |
| 590 | 620 | SILTY SAND, AND GRAY CLAY STRKS |
| 620 | 630 | SILTY SAND |
| 630 | 650 | GRAY CLAY |
| 650 | 660 | GRAY CLAY AND SILTY SAND |
| 660 | 710 | SILTY SAND AND CLAY |
| 710 | 720 | MED SAND |
| 720 | 730 | SAND AND CLAY |
| 730 | 750 | FINE SILTY SAND |

Annular Seal Range - No Data

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 42 | 0 | 38 |
| 34 | 0 | 590 |

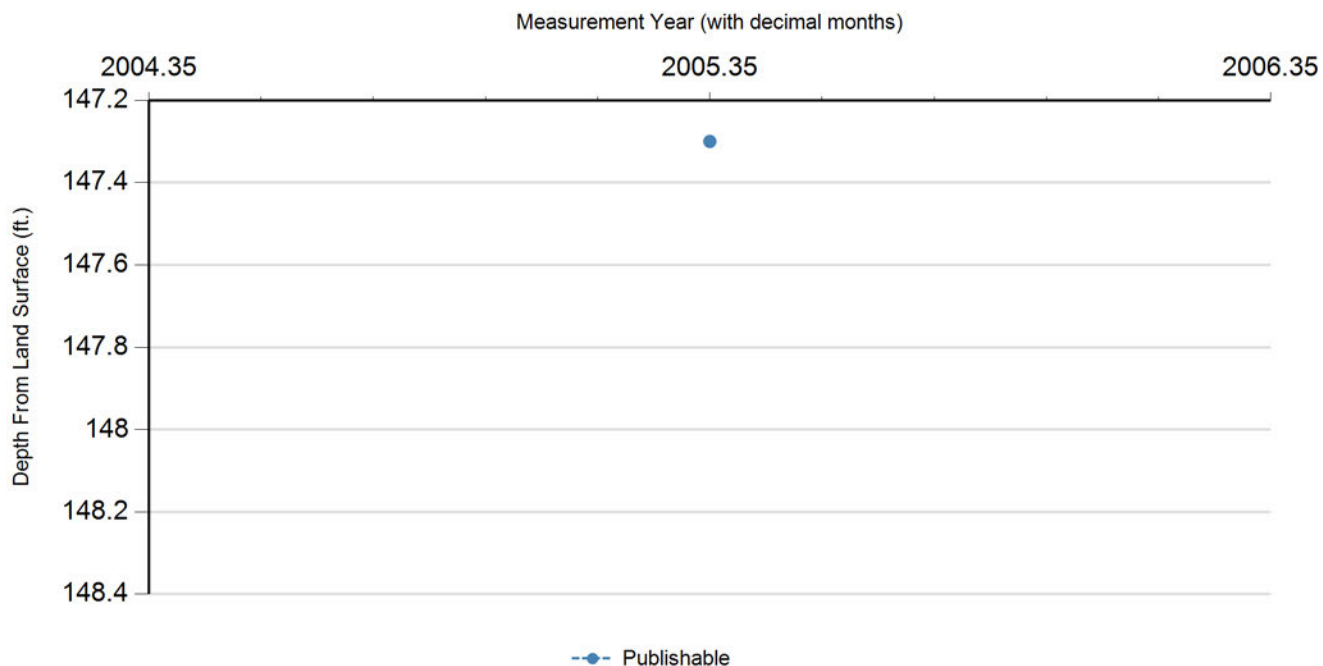
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|------|
| Gravel | 442 | 590 | 8/16 |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 5/8/2005 | | 147.3 | | 370.7 | 1 | Registered Water Well Driller | Unknown | | |
| P | 5/8/2005 | | 238.4 | 91.10 | 279.6 | 2 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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[GWDB Reports and Downloads](#)
[Well Basic Details](#)
[Scanned Documents](#)

| | |
|---|--|
| State Well Number | 6861218 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1225 |
| Latitude (degrees minutes seconds) | 29° 07' 21" N |
| Longitude (decimal degrees) | -98.423889 |
| Longitude (degrees minutes seconds) | 098° 25' 26" W |
| Coordinate Source | +/- 1 Minute |
| Aquifer Code | NOT-APPL - Aquifer Code Is Not Applicable to this Well |
| Aquifer | Unassigned |
| Aquifer Pick Method | |
| Land Surface Elevation (feet above sea level) | 535 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | |
| Well Depth Source | |
| Drilling Start Date | |
| Drilling End Date | |
| Drilling Method | |
| Borehole Completion | |

| | |
|---|--|
| Well Type | Oil or Gas |
| Well Use | |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | |
| Annular Seal Method | |
| Surface Completion | |
| Owner | Annie Chapaty #1 |
| Driller | H & J Drilling Co. & Wilson Bros Oil Co. |
| Other Data Available | Electric Log |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | |
| Groundwater Conservation District Well Number | |
| Owner Well Number | Annie Chapaty 1 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 8/19/1999 |
| Last Update Date | 8/19/1999 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing - No Data

Well Tests - No Data

Lithology - No Data

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6861220 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.1225 |
| Latitude (degrees minutes seconds) | 29° 07' 21" N |
| Longitude (decimal degrees) | -98.427778 |
| Longitude (degrees minutes seconds) | 098° 25' 40" 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) | 535 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 672 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 6/5/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Screened |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR #4 |
| Driller | TWF Drilling |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DJ |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 4 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/12/2005 |
| Last Update Date | 1/12/2005 |

| | |
|---------|--|
| Remarks | |
|---------|--|

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | Steel | | | -3 | 470 |
| 16 | Screen | Stainless Steel | | | 470 | 600 |
| 16 | Blank | Stainless Steel | | | 600 | 610 |
| 16 | Screen | Stainless Steel | | | 610 | 670 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-08-05 | Pump | 1397 | 16.4 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|-----------------|
| 0 | 60 | YELLOW CLAY |
| 60 | 67 | GRAY CLAY |
| 67 | 70 | SHALE GRAY HARD |
| 70 | 100 | BROWN CLAY |
| 100 | 102 | GRAY HARD SHALE |
| 102 | 150 | GRAY CLAY |
| 150 | 170 | FINE SAND |
| 170 | 220 | GRAY CLAY |
| 220 | 280 | CLAY |
| 280 | 387 | FINE SAND |
| 387 | 393 | CLAY |
| 393 | 414 | CLAY |
| 414 | 420 | SAND |
| 420 | 425 | CLAY |
| 425 | 437 | SAND |
| 437 | 457 | CLAY |
| 457 | 583 | SAND |
| 583 | 614 | CLAY |
| 614 | 700 | SAND |
| 700 | 770 | CLAYEY SAND |

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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Well Basic Details

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| | |
|---|---------------------------------|
| State Well Number | 6861221 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.118889 |
| Latitude (degrees minutes seconds) | 29° 07' 08" N |
| Longitude (decimal degrees) | -98.42 |
| Longitude (degrees minutes seconds) | 098° 25' 12" 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) | 523 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 715 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 5/27/2002 |
| Drilling Method | Reverse Circulation |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | Tremie |
| Surface Completion | |
| Owner | SAWS ASR #10 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DP |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 10 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/12/2005 |
| Last Update Date | 2/3/2009 |

Remarks Owners well ASR #10. Well is used for Public Supply injection. Cemented from 0 to 510 feet. Gravel packed from 510 to 715 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | Steel | | | 0 | 550 |
| 16 | Screen | Stainless Steel | | | 550 | 630 |
| 16 | Blank | Stainless Steel | | | 630 | 670 |
| 16 | Screen | Stainless Steel | | | 670 | 700 |
| 16 | Blank | Stainless Steel | | | 700 | 705 |

Well Tests - No Data

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|---------------------------|
| 0 | 55 | FINE SAND AND CLAY |
| 55 | 72 | CLAY |
| 72 | 125 | FINE SAND AND TRACE CLAY |
| 125 | 206 | CLAY |
| 206 | 269 | HARD SANDSTONE |
| 269 | 317 | CLAY |
| 317 | 422 | FINE SAND |
| 422 | 520 | CLAY |
| 520 | 640 | FINE SAND |
| 640 | 660 | SANDY CLAY |
| 660 | 715 | FINE SAND |
| 715 | 740 | CLAY, SOME SAND |
| 740 | 810 | FINE SAND AND CLAYEY SAND |

Annular Seal Range

| Annular Seal Material | Amount | Unit | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------------------|--------|------------|-----------------|--------------------|
| Cement | 780 | Bags/Sacks | 0 | 510 |

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 17 | 0 | 715 |
| 26 | 0 | 715 |

Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|------|
| Gravel | 510 | 715 | |

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6861222 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.124444 |
| Latitude (degrees minutes seconds) | 29° 07' 28" N |
| Longitude (decimal degrees) | -98.417222 |
| Longitude (degrees minutes seconds) | 098° 25' 02" 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) | 529 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 670 |
| Well Depth Source | Driller's Log |
| Drilling Start Date | 5/18/2005 |
| Drilling End Date | 7/1/2005 |
| Drilling Method | Reverse Circulation |
| Borehole Completion | Gravel Pack w/Perforations |

| | |
|---|------------------------------------|
| Well Type | Withdrawal of Water |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | Tremie |
| Surface Completion | Unknown |
| Owner | San Antonio Water Sys. ASR 29 |
| Driller | Henkle Drilling & Supply Co., Inc. |
| Other Data Available | Drillers Log; Specific Capacity |
| Well Report Tracking Number | 63835 |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018EK |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 29 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 2/3/2009 |
| Last Update Date | 6/26/2017 |

Remarks Specific capacity 53.95 GPM/ft.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 36 | Blank | Steel | | | 0 | 38 |
| 20 | Blank | Steel | | | 0 | 495 |
| 20 | Screen | Steel | | | 495 | 585 |
| 20 | Blank | Steel | | | 585 | 600 |
| 20 | Screen | Steel | | | 600 | 650 |
| 20 | Blank | Steel | | | 650 | 660 |
| 20 | Open Hole | | | | 660 | 670 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2005-06-22 | Pump | 3548 | 59.4 | 1 |
| 2005-07-01 | Pump | 3500 | 64.87 | 36 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|---|
| 0 | 20 | MED SAND |
| 20 | 90 | SAND AND CLAY |
| 90 | 140 | GRAY CLAYS |
| 140 | 170 | GRAY CLAYS W/ STRINGERS |
| 170 | 200 | GRAY CLAYS W/ SANDSTONE |
| 200 | 300 | GRAY CLAY SANDY, GRAY CLAY |
| 300 | 310 | GRAY SANDY CLAY, COAL |
| 310 | 410 | GRAY SANDY CLAY, GRAY CLAY STICKY |
| 410 | 480 | GRAY CLAY STICKY AND SOME SAND |
| 480 | 490 | FINE TO MED COARSE SAND, BROWN SANDY CLAY |
| 490 | 520 | FINE SAND, GRAY SANDY CLAY |
| 520 | 580 | FINE TO MED COARSE SAND |
| 580 | 600 | FINE SAND, GRAY SANDY CLAY |
| 600 | 660 | GRAY CLAY, STICKY, FINE SAND |
| 660 | 700 | SILTY FINE SAND AND GRAY CLAY |
| 700 | 720 | SANDY CLAY, GRAY |
| 720 | 730 | SILTY FINE SAND AND GRAY CLAY |
| 730 | 740 | SILTY FINE SAND, MED COARSE SAND, CLAY |
| 740 | 785 | SILTY FINE SAND, GRAY CLAY |

Annular Seal Range

| Annular Seal Material | Amount | Unit | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------------------|--------|------------|-----------------|--------------------|
| Cement | 72 | Bags/Sacks | 0 | 38 |
| Cement | 1600 | Bags/Sacks | 0 | 457 |

Borehole

| Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-----------------|--------------------|
| 42 | 0 | 38 |
| 34 | 0 | 495 |
| 28 | 495 | 670 |

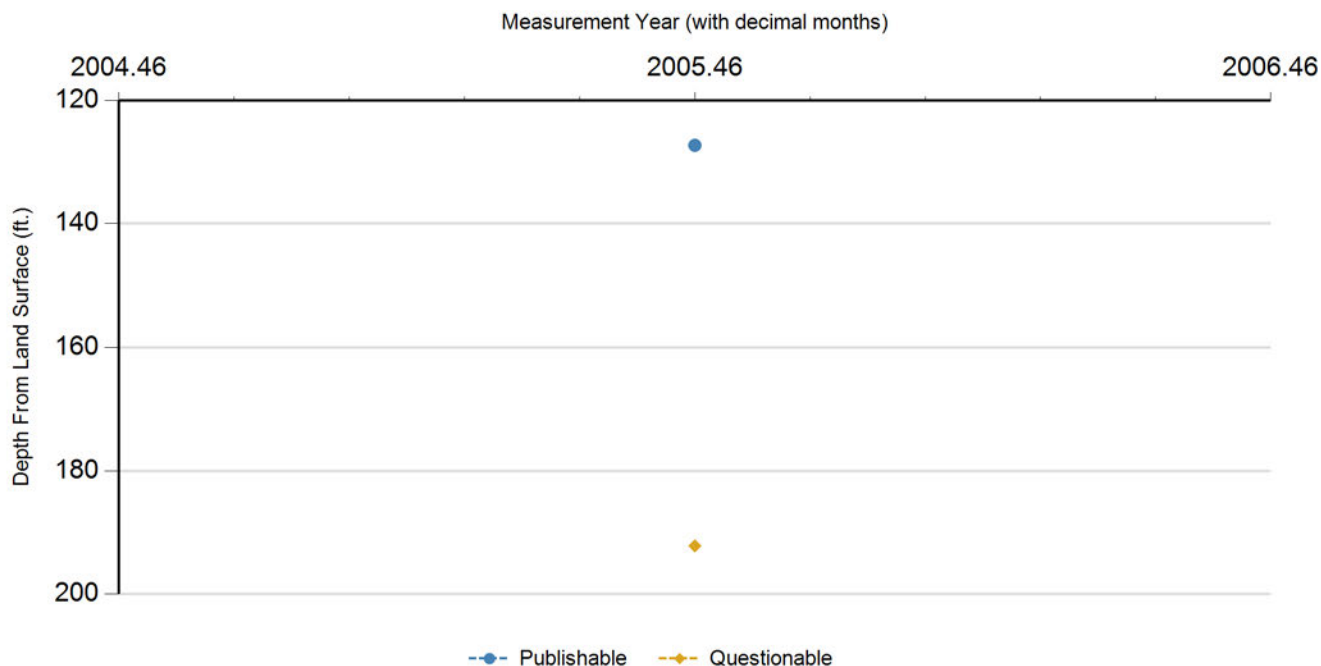
Plugged Back - No Data

Filter Pack

| Filter Material | Top Depth (ft.) | Bottom Depth (ft.) | Size |
|-----------------|-----------------|--------------------|------|
| Gravel | 467 | 670 | 8/16 |

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 6/19/2005 | | 127.3 | | 401.7 | 1 | Registered Water Well Driller | Unknown | | |
| Q | 6/19/2005 | | 192.17 | 64.87 | 336.83 | 2 | Registered Water Well Driller | Unknown | 2 | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |
| Q | Questionable |

| Remark ID | Remark Description |
|-----------|---------------------------|
| 2 | Pumping-level measurement |

Water Quality Analysis - No Data Available

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Well Basic Details

[Scanned Documents](#)

| | |
|---|---------------------------------|
| State Well Number | 6861313 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.124167 |
| Latitude (degrees minutes seconds) | 29° 07' 27" N |
| Longitude (decimal degrees) | -98.413612 |
| Longitude (degrees minutes seconds) | 098° 24' 49" 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) | 525 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 665 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 4/26/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Screened |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | Miscellaneous Measurements |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR #6 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DL |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 6 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/12/2005 |
| Last Update Date | 1/12/2005 |

Remarks Owners well ASR #6. Well is used for Public Supply injection.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | | | | 0 | 470 |
| 16 | Screen | | | | 470 | 610 |
| 16 | Blank | | | | 610 | 640 |
| 16 | Screen | | | | 640 | 660 |
| 16 | Blank | | | | 660 | 665 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-11-12 | Pump | 1507 | 29.6 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|----------------------|
| 0 | 80 | CLAY AND CLAYEY SAND |
| 80 | 125 | SAND |
| 125 | 210 | CLAYEY SAND |
| 210 | 230 | CLAY |
| 230 | 405 | SAND AND CLAYEY SAND |
| 405 | 445 | SANDY CLAY |
| 445 | 620 | FINE SAND |
| 620 | 625 | CLAY |
| 625 | 685 | CLAYEY SAND |
| 685 | 770 | CLAY AND CLAYEY SAND |

Annular Seal Range - No Data

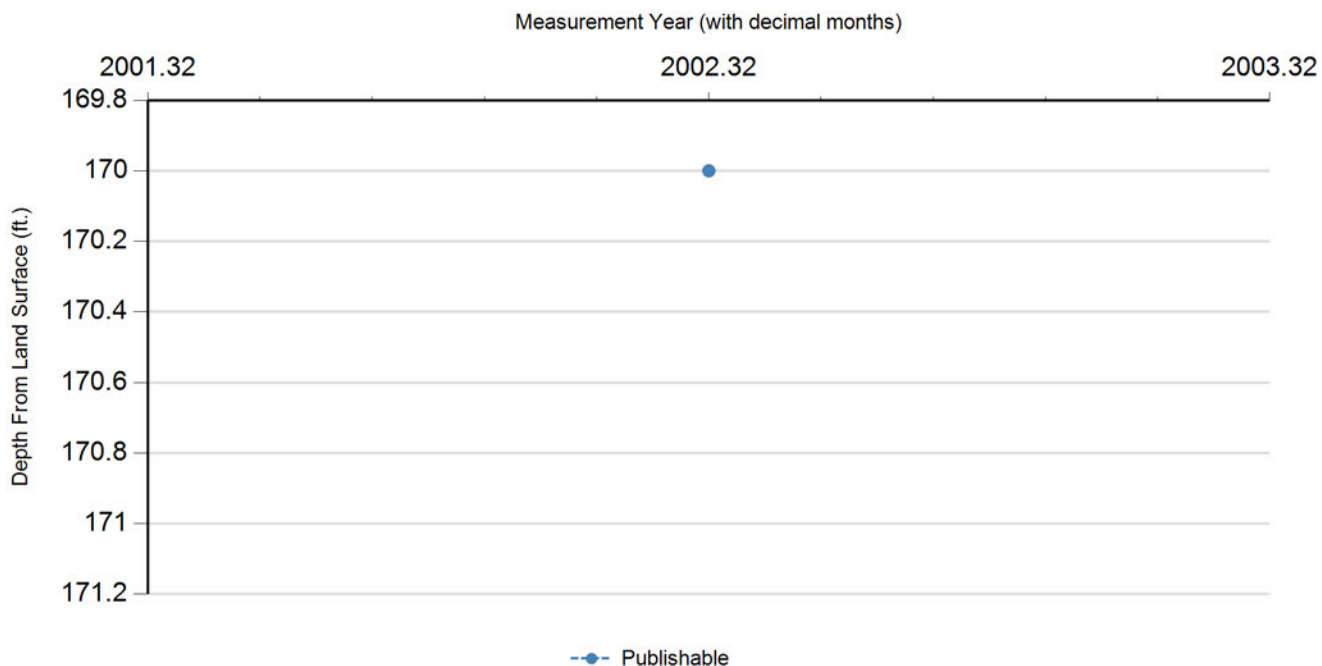
Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements



| Status Code | Date | Time | Water Level (ft. below land surface) | Change value in () indicates rise in level | Water Elevation (ft. above sea level) | Meas # | Measuring Agency | Method | Remark ID | Comments |
|-------------|-----------|------|--------------------------------------|---|---------------------------------------|--------|-------------------------------|---------|-----------|----------|
| P | 4/26/2002 | | 170 | | 355 | 1 | Registered Water Well Driller | Unknown | | |

Code Descriptions

| Status Code | Status Description |
|-------------|--------------------|
| P | Publishable |

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6861314 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.121944 |
| Latitude (degrees minutes seconds) | 29° 07' 19" N |
| Longitude (decimal degrees) | -98.414445 |
| Longitude (degrees minutes seconds) | 098° 24' 52" 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) | 520 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 690 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 4/20/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR #11 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DQ |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 11 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/13/2005 |
| Last Update Date | 1/13/2005 |

Remarks Owners well ASR #11. Well is used for Public Supply injection. Cemented from 0 to 470 feet. Gravel packed from 470 to 690 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | | | | 0 | 510 |
| 16 | Screen | | | | 510 | 630 |
| 16 | Blank | | | | 630 | 665 |
| 16 | Screen | | | | 665 | 685 |
| 16 | Blank | | | | 685 | 690 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-11-25 | Pump | 1413 | 25.2 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|------------------------|---------------------------|------------------------------|
| 0 | 73 | FINE SAND |
| 73 | 126 | GRAY CLAY AND FINE SAND |
| 126 | 150 | SHALE |
| 150 | 210 | BROWN CLAY |
| 210 | 212 | SHALE BLACK |
| 212 | 237 | FINE SAND, HINT OF GRAY CLAY |
| 237 | 250 | SHALE GRAY |
| 250 | 281 | CLAY |
| 281 | 295 | SHALE |
| 295 | 480 | CLAY |
| 480 | 620 | FINE SAND, HINT OF GRAY CLAY |
| 620 | 660 | SANDY CLAY |
| 660 | 690 | FINE SAND |
| 690 | 790 | CLAY |

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6861315 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.124444 |
| Latitude (degrees minutes seconds) | 29° 07' 28" N |
| Longitude (decimal degrees) | -98.409167 |
| Longitude (degrees minutes seconds) | 098° 24' 33" 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) | 539 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 715 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 5/15/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Screened |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR #12 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DR |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 12 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/13/2005 |
| Last Update Date | 2/4/2009 |

Remarks Owners well ASR #12. Well is used for Public Supply injection. Cemented from 0 to 460 feet. Gravel packed from 460 to 715 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | | | | 0 | 510 |
| 16 | Screen | | | | 510 | 610 |
| 16 | Blank | | | | 610 | 680 |
| 16 | Screen | | | | 680 | 710 |
| 16 | Blank | | | | 710 | 715 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-09-16 | Pump | 1429 | 23.5 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|----------------------|
| 0 | 62 | SAND AND CLAYEY SAND |
| 62 | 66 | CLAY |
| 66 | 82 | CLAYEY SAND |
| 82 | 92 | FINE SAND |
| 92 | 130 | CLAYEY SAND |
| 130 | 218 | CLAY |
| 218 | 232 | SHALE |
| 232 | 335 | CLAY AND CLAYEY SAND |
| 335 | 455 | FINE SAND |
| 455 | 467 | CLAY |
| 467 | 505 | CLAYEY SAND |
| 505 | 620 | FINE SAND |
| 620 | 675 | CLAYEY SAND |
| 675 | 715 | FINE SAND |
| 715 | 790 | CLAYEY SAND |

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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GWDB Reports and Downloads

Well Basic Details

Scanned Documents

| | |
|---|---------------------------------|
| State Well Number | 6861317 |
| County | Bexar |
| River Basin | Nueces |
| Groundwater Management Area | 13 |
| Regional Water Planning Area | L - South Central Texas |
| Groundwater Conservation District | Edwards Aquifer Authority |
| Latitude (decimal degrees) | 29.120833 |
| Latitude (degrees minutes seconds) | 29° 07' 15" N |
| Longitude (decimal degrees) | -98.410278 |
| Longitude (degrees minutes seconds) | 098° 24' 37" 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) | 519 |
| Land Surface Elevation Method | Interpolated From Topo Map |
| Well Depth (feet below land surface) | 685 |
| Well Depth Source | Owner |
| Drilling Start Date | |
| Drilling End Date | 3/26/2002 |
| Drilling Method | Mud (Hydraulic) Rotary |
| Borehole Completion | Gravel Pack w/Screen |

| | |
|---|-------------------------------|
| Well Type | Other (see remarks) |
| Well Use | Public Supply |
| Water Level Observation | None |
| Water Quality Available | No |
| Pump | |
| Pump Depth (feet below land surface) | |
| Power Type | Electric Motor |
| Annular Seal Method | |
| Surface Completion | |
| Owner | SAWS ASR #15 |
| Driller | Beylik Drilling, Inc. |
| Other Data Available | |
| Well Report Tracking Number | |
| Plugging Report Tracking Number | |
| U.S. Geological Survey Site Number | |
| Texas Commission on Environmental Quality Source Id | G0150018DU |
| Groundwater Conservation District Well Number | |
| Owner Well Number | ASR 15 |
| Other Well Number | |
| Previous State Well Number | |
| Reporting Agency | Texas Water Development Board |
| Created Date | 1/13/2005 |
| Last Update Date | 1/13/2005 |

Remarks Owners well ASR #15. Well is used for Public Supply injection. Cemented from 0 to 460 feet. Gravel packed from 460 to 685 feet.

Casing

| Diameter (in.) | Casing Type | Casing Material | Schedule | Gauge | Top Depth (ft.) | Bottom Depth (ft.) |
|----------------|-------------|-----------------|----------|-------|-----------------|--------------------|
| 16 | Blank | | | | 0 | 500 |
| 16 | Screen | | | | 500 | 580 |
| 16 | Blank | | | | 580 | 600 |
| 16 | Screen | | | | 600 | 682 |
| 16 | Blank | | | | 682 | 685 |

Well Tests

| Test Date | Test Type | Yield (gallons per minute) | Drawdown (ft.) | Test Hours |
|------------|-----------|----------------------------|----------------|------------|
| 2002-05-21 | Pump | 1406 | 26.9 | 1 |

Lithology

| Top Depth (ft.) | Bottom Depth (ft.) | Description |
|-----------------|--------------------|---------------------------------|
| 0 | 50 | ORANGE FINE SAND |
| 50 | 52 | WHITE SAND AND CLAY |
| 52 | 65 | WHITE SAND, SOME CLAY |
| 65 | 68 | GRAY CLAY AND FINE SAND |
| 68 | 74 | GRAY CLAY |
| 74 | 86 | RED CLAY AND FINE SAND |
| 86 | 92 | RED FINE SAND |
| 92 | 106 | BROWN FINE SAND |
| 106 | 112 | GRAY CLAY |
| 112 | 127 | FINE SAND |
| 127 | 129 | GRAY CLAY, SOME ROCK |
| 129 | 131 | FINE SAND |
| 131 | 140 | CLAY, DRY, GRAY |
| 140 | 155 | SAND, FINE, BLACK |
| 155 | 158 | WHITE CLAY |
| 158 | 165 | HARD, BROWN CLAY |
| 165 | 166 | WHITE, BROWN, ORANGE, GRAY CLAY |
| 166 | 174 | MULTI COLORED CLAY W/ GRAVEL |
| 174 | 177 | HARD BROWN CLAY |
| 177 | 226 | BROWN CLAY |
| 226 | 247 | FINE SAND, GRAY |
| 247 | 267 | FINE BROWN SAND, HINT OF CLAY |
| 267 | 280 | BROWNISH GRAY CLAY |
| 280 | 305 | FINE GRAY SAND |
| 305 | 324 | FINE BROWN SAND AND GRAY CLAY |
| 324 | 370 | BROWN CLAY |
| 370 | 400 | FINE GRAY SAND |
| 400 | 413 | FINE SAND, CLAY |
| 413 | 419 | CLAY |
| 419 | 425 | FINE SAND, CLAY |
| 425 | 430 | SHALE |
| 430 | 435 | FINE SAND, GRAY |
| 435 | 445 | CLAY |
| 445 | 495 | CLAY |
| 495 | 650 | SAND |
| 650 | 700 | FINE SAND AND SOME GRAY CLAY |
| 700 | 780 | SANDY CLAY |

Annular Seal Range - No Data

Borehole - No Data

Plugged Back - No Data

Filter Pack - No Data

Packers - No Data

Water Level Measurements

No Data Available

Water Quality Analysis - No Data Available

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STATE OF TEXAS WELL REPORT for Tracking #55156

Owner: **Reymundo Flores**

Owner Well #: **2**

Address: **2550 Wright-Carpenter
San Antonio, TX 78221**

Grid #: **68-53-8**

Well Location: **Hardy Rd
Elemendorf, TX 78112**

Latitude: **29° 08' 34" N**

Longitude: **098° 25' 07" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **2/4/2005**

Drilling End Date: **2/24/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 390 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 310 | 390 | Gravel | 12-20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 310 | 165 Cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **20**

Sealed By: **Alsay**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **180 ft. below land surface on 2005-02-24** Measurement Method: **Unknown**

Packers: **None**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Jetted** Yield: **30 GPM with 20 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|---------------------|
| 340 | Good-Carrizo |

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: **Alsay Inc.**
3359 SE Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Rodney Pinson** Apprentice Number: **1004**

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 | 10 | Topsoil-Sand |
| 10 | 30 | Sandy Red Clay |
| 30 | 50 | Gray Shale |
| 50 | 300 | Sandy Gray Shale |
| 300 | 325 | Lt. Gray Sand-Fine |
| 325 | 348 | Gray Shale |
| 348 | 390 | Lt. Gray & White Sand- Med. Grain |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-----------------------|------------------------------|
| 6 5/8 | New | Steel A53 Gr.B | 384-374 .280 |
| 6 5/8 | New | SSWR Rod Base | 374-354 .035 |
| 6 5/8 | New | Steel A53 Gr.B | 354-+2 .280 |

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 #55618

| | | | |
|----------------|---|---------------|---|
| Owner: | San Antonio Water System | Owner Well #: | Test Hole ASR19 |
| Address: | P. O. box 2449 San Antonio, TX 78298 | Grid #: | 68-53-9 |
| Well Location: | No Data | Latitude: | 29° 07' 54" N |
| Well County: | Bexar | Longitude: | 098° 24' 46" W |
| | | Elevation: | No Data |
| | | | **Plugged Within 48 Hours** |
| | **This well has been plugged** | | <u>Plugging Report Tracking #23804</u> |

| | | | |
|---------------|----------|---------------|-----------|
| Type of Work: | New Well | Proposed Use: | Test Well |
|---------------|----------|---------------|-----------|

Drilling Start Date: 1/18/2005 Drilling End Date: 1/21/2005

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 740 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Open Hole

Annular Seal Data: No Data

Seal Method: Not Applicable

Sealed By: Unknown

Distance to Property Line (ft.): No Data

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

Distance to Septic Tank (ft.): No Data

Method of Verification: No Data

Surface Completion: Unknown

Water Level: No Data

Packers: No Data

Type of Pump: No Data

Well Tests: No Test Data Specified

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | 0 - 200 cement 56 sks | | |
| | 200 - 740 bentonite 62 sks | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

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

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

Company Information: **Henkle Drilling & Supply Co., Inc.**
P. O. Box 639
Garden City, KS 67846

Driller Name: **Roby Coyne** License Number: **4325**

Comments: **Test hole only. Plug after logging.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------------|
| 0 | 4 | fine sand |
| 4 | 29 | brown & red clay,sand stks |
| 20 | 27 | fine cemented sand |
| 27 | 30 | sand & clay stks |
| 30 | 50 | fine sand & clay |
| 50 | 83 | brown & yellow clay |
| 83 | 123 | gray clay |
| 123 | 127 | gray sandstone |
| 127 | 140 | gray clay w/fine sand |
| 140 | 160 | fine sand w/gray clay |
| 160 | 200 | gray sticky clay |
| 200 | 220 | gray sandy clay |
| 220 | 250 | gray sticky clay |
| 250 | 270 | sandy gray clay |
| 270 | 310 | gray clay , fine sand |
| 310 | 320 | fine sand, sandy clay |
| 320 | 340 | brown sandy clay, fine sand |
| 340 | 350 | yellow clay |

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

| | | |
|-----|-----|--|
| 350 | 360 | fine to med coarse sand, sandy clay |
| 360 | 380 | gray sandy clay |
| 380 | 400 | fine to med coarse sand, sandy clay |
| 400 | 410 | sandy gray clay |
| 410 | 440 | fine to med coarse sand |
| 440 | 450 | fine sand |
| 450 | 460 | fine sandy gray clay |
| 460 | 470 | fine to med coarse sand |
| 470 | 560 | fine sand, sandy gray clay |
| 560 | 570 | fine to med coarse sand, sandy clay |
| 570 | 600 | fine sand |
| 600 | 610 | fine sand, some clay stks |
| 610 | 640 | med sand, gray clay |
| 640 | 660 | fine sand, gray clay |
| 660 | 680 | fine sand |
| 680 | 690 | med sand |
| 690 | 700 | fine sand |
| 700 | 740 | silty sand, gray clay |

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 #55971

Owner: **San Antonio Water Systems** Owner Well #: **Test Hole ASR25**
Address: **P.O. BOX 2449** Grid #: **68-53-9**
SAN ANTONIO, TX 78298
Well Location: **No Data** Latitude: **29° 07' 42" N**
Longitude: **098° 24' 45" W**
Well County: **Bexar** Elevation: **No Data**
****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #111316

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/21/2005** Drilling End Date: **1/23/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 760 |

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

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | 0-200 cements 56 sks | | |
| | 200-760 Bentonite 65 sks | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: No

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**
P.O. Box 639
Garden City, KS 67846

Driller Name: Roby Coyne

License Number: 4325

Comments: Test hole only. Plugged after logging.

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--|
| 0 | 5 | Fine Sand |
| 5 | 15 | Medium Sand & Brown Clay |
| 15 | 29 | Brown Sandstone |
| 29 | 40 | Brown Sand |
| 40 | 50 | Sand & Mixed Clays |
| 50 | 70 | Brown, white, mixed clays |
| 70 | 80 | Medium sand, clays |
| 80 | 90 | Gray clay, sandy brown clay, sticky |
| 90 | 100 | Brown sticky clay, gray sandy clay |
| 100 | 120 | Gray clay sticky, sandy gray clay |
| 120 | 150 | Gray Sticky clay |
| 150 | 160 | Sandy gray clay & sticky gray clay |
| 160 | 170 | Gray clay, sandy gray clay |
| 170 | 180 | Brown sandy clay, brown clay |
| 180 | 190 | Brown sandy clay, gray sandy clay |
| 190 | 200 | Gray sandy clay, sandstone hard gray sticky clay |

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

| | | |
|-----|-----|--|
| 200 | 210 | Gray clay, sandy clay, brown sandy clay |
| 210 | 230 | Gray clay, sticky |
| 230 | 240 | Gray clay, sandstone hard |
| 240 | 250 | Sandy gray clay, gray clay sticky |
| 250 | 260 | Sandstone, gray clay, gray sandy clay |
| 260 | 280 | Gray clay, gray sandy clay |
| 280 | 290 | Gray sandy clay |
| 290 | 300 | Fine to medium coarse sand, gray sandy clay |
| 300 | 340 | Gray sandy clay |
| 340 | 350 | Fine sandy gray clay, fine to medium coarse sand |
| 350 | 370 | Sandy clay, fine sand gray clay |
| 370 | 440 | Fine sand, gray clay sandy |
| 440 | 460 | Silty sand, gray clays |
| 460 | 470 | Medium sand & gray clay |
| 470 | 480 | Oil shale |
| 480 | 490 | Oil shale, gray clay, some sand |
| 490 | 510 | Sandy gray clay |
| 510 | 550 | Silty fine sand |
| 550 | 560 | Medium coarse sand |
| 560 | 570 | Silty fine sand, gray clay |
| 570 | 670 | Gray clays |
| 670 | 700 | Silty sand |
| 700 | 710 | Large coarse sand |
| 710 | 704 | Fine sand |
| 740 | 760 | Fine silty sand |

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 #55978

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 23**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-8**

Well Location: **No Data**

Latitude: **29° 07' 44" N**

Longitude: **098° 25' 07" W**

Well County: **Bexar**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #111318

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/25/2005**

Drilling End Date: **1/27/2005**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 7.875 | 0 | 730 |

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

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Plug Information:

| <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|---|------------------------|---------------------------|
| 0-200 Cement 56 sks | | |
| 200-730 Bentonite 61 sks | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**
P.O. Box 639
Garden City, KS 67846

Driller Name: **Roby Coyne**

License Number: **4325**

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 | 5 | Fine Sand |
| 5 | 29 | Medium Coarse Sand |
| 29 | 40 | Sand & Clay |
| 40 | 110 | Brown Clay |
| 110 | 140 | Gray Clay |
| 140 | 160 | Gray Clay, sandy |
| 160 | 170 | Gray clay, sticky, sandstone |
| 170 | 180 | Gray clay, brown clay |
| 180 | 210 | Gray clay, sandy |
| 210 | 220 | Sandstone, hard |
| 220 | 270 | Gray clay |
| 270 | 300 | Gray clay, sandy |
| 300 | 310 | Gray sandy clay, coal |
| 320 | 350 | Fine sand,gray clay |
| 350 | 360 | Brown sandy clay, gray clay sandy |
| 360 | 370 | Gray clay sticky, gray sandy clay |
| 370 | 450 | Gray sandy clay |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-------------|------------------------------|
| No Data | | | |

| | | |
|-----|-----|--|
| 450 | 500 | Fine sand, gray sandy clay |
| 500 | 510 | Fine sandy & coal, medium coarse sand |
| 520 | 550 | Fine to medium coarse sand |
| 550 | 560 | Fine to medium coarse sand, sandy coal |
| 560 | 570 | Fine to medium coarse sand, brown clay |
| 570 | 580 | Fine to medium coarse sand, gray clay |
| 580 | 590 | Gray clay sandy, gray clay sticky |
| 590 | 620 | Silty sand, gray clay |
| 620 | 630 | Gray clay |
| 630 | 640 | Gray clay & silty sand |
| 640 | 670 | Gray clay |
| 670 | 680 | Silty gray sand |
| 680 | 690 | Gray sandy clay, gray clay |
| 690 | 720 | Gray sandstone |
| 720 | 730 | Gray clay, sandstone |

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 #55979

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 24**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-9**

Well Location: **No Data**

Latitude: **29° 07' 42" N**

Longitude: **098° 24' 57" W**

Well County: **Bexar**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #111319

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/23/2005**

Drilling End Date: **1/25/2005**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 7.875 | 0 | 750 |

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

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Plug Information:

| <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|---|------------------------|---------------------------|
| 0-200 Cement 56 sks | | |
| 200-750 Bentonite 64 sks | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **No**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**
P.O. Box 639
Garden City, KS 67846

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|---|
| 1- | 5 | Sand |
| 5- | 10 | Sand & clay streaks |
| 10- | 27 | Sandstone |
| 27- | 60 | Brown & yellow clays |
| 60- | 70 | Brown & white clays |
| 70- | 80 | Brown & yellow clays, some sand |
| 80- | 90 | Dark Brown clay |
| 90- | 95 | Highly cemented gray clay |
| 95- | 140 | Gray clay, some sticky |
| 140- | 150 | Gray clay, sandstone |
| 150- | 180 | Gray sandy clay |
| 180- | 360 | Gray sandy clay |
| 360- | 380 | Gray sandy clay, gray sticky clay |
| 380- | 480 | Gray sandy clay, some sticky |
| 480- | 490 | Gray sandy clay, fine sand |
| 490- | 500 | Fine to med coarse sand, brown clay, coal |
| 500- | 510 | Fine sand |
| 510- | 520 | Fine sandy coal, medium coarse sandy |

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

| |
|--|
| 520-550 Fine to medium sand, gray sandy clay |
| 550-590 Fine silty sand |
| 590-620 Silty sand & gray clay streaks |
| 620-630 Silty sand |
| 630-650 Gray clay |
| 650-660 Gray clay & silty sand |
| 660-670 Silty sand |
| 670-680 Silty sand & streaks of clay |
| 680-710 Silty sand |
| 710-730 Medium sand, clay |
| 730-750 Fine silty sand |

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 #55980

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 29**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-61-2**

Well Location: **No Data**

Latitude: **29° 07' 28" N**

Longitude: **098° 25' 02" W**

Well County: **Bexar**

Elevation: **No Data**

****Plugged Within 48 Hours****

****This well has been plugged****

Plugging Report Tracking #111320

Type of Work: **New Well**

Proposed Use: **Test Well**

Drilling Start Date: **1/27/2005**

Drilling End Date: **1/29/2005**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 7.875 | 0 | 785 |

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

Borehole Completion: **Open Hole**

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

Plug Information:

| <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|---|------------------------|---------------------------|
| 0-200 Cement 56 sks | | |
| 200-785 Bentonite 68 sks | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**
P.O. Box 639
Garden City, KS 67846

Driller Name: **Roby Coyne**

License Number: **4325**

Comments: **Test hole only. Plug hole after logging.**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|-----------------------------------|
| 0 | 20 | Medium sand |
| 20 | 30 | Sand & Clay |
| 30 | 60 | Clay |
| 60 | 70 | Sand & Clay |
| 70 | 80 | Clay |
| 80 | 90 | Sand & Clay |
| 90 | 130 | Gray clay |
| 130 | 170 | Gray clays with stringers |
| 170 | 200 | Gray clays with sandstone |
| 200 | 210 | Gray clay |
| 210 | 230 | Gray clay, sandy |
| 230 | 240 | Gray clay |
| 240 | 260 | Gray clay, gray sandy clay |
| 260 | 280 | Gray clay, sandy |
| 280 | 300 | Gray clay sandy, gray clay |
| 300 | 310 | Gray sandy clay, coal |
| 310 | 320 | Gray sandy clay, gray clay |
| 320 | 400 | Gray sandy clay |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-------------|------------------------------|
| No Data | | | |

| | | |
|-----|-----|---|
| 400 | 410 | Gray sandy clay, gray sticky clay |
| 410 | 430 | Gray sticky clay |
| 430 | 460 | Gray sandy clay |
| 460 | 470 | Gray sandy clay, gray clay |
| 470 | 480 | Gray clay sticky, some sand |
| 480 | 490 | Fine to med coarse sand, brown sandy clay |
| 490 | 500 | Fine sand, gray sandy clay |
| 500 | 510 | Gray sandy clay, fine sand |
| 510 | 520 | Fine sand, gray sandy clay |
| 520 | 580 | Fine to medium coarse sand |
| 580 | 600 | Fine sand, gray sandy clay |
| 600 | 650 | Gray sandy clay, fine sand |
| 650 | 660 | Gray clay sticky, fine sand |
| 660 | 700 | Silty fine sand and gray clay |
| 700 | 720 | Sandy clay gray |
| 720 | 730 | Silty fine sand, gray clay |
| 730 | 740 | Silty fine sand, medium coarse sand, clay |
| 740 | 785 | Silty fine sand, gray clay |

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 #59119

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 19**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-9**

Well Location: **South Mathis RD
Elmendorf, TX 78112**

Latitude: **29° 07' 54" N**

Longitude: **098° 24' 46" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **3/24/2005**

Drilling End Date: **4/24/2005**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 42 | 0 | 38 |
| 32 | 38 | 473 |
| 30 | 473 | 640 |

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 432 | 640 | Gravel | 8-16 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 38 | 72 |
| 0 | 432 | 1160 |

Seal Method: **Pumped through tremmie
pipe**

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

Sealed By: **Schlumberger**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **167.72 ft. below land surface on 2005-04-25** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** Yield: **3500 GPM with 68 ft. drawdown after 36 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 470-620 | No Data |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Apprentice Name: **Rodney Padilla**

Apprentice Number: **1769**

Comments: **Toney Nabors- Driller- Licence #54595
Amended 5/23/05 Ref#1561**

**TWDB SW#68-53-918
Doc Jones 2/2/09**

Report Amended on by Request #1561

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|--|
| 0 | 4 | Fine Sand |
| 4 | 20 | Brown & Red Clay, Sand Streaks |
| 20 | 27 | Fine cemented sand, drills tight |
| 27 | 30 | Sand & Clay Streaks, Sand fine to medium, coarse |
| 30 | 50 | Fine Sand & Clay |
| 50 | 55 | Brown Clays |
| 55 | 80 | Clays, Brown & yellows |
| 80 | 83 | Brown clays |
| 83 | 123 | Gray clays, sticky |
| 123 | 127 | Gray sandstone, drills tight |
| 127 | 130 | Gray clays, with sandstone streaks |
| 130 | 140 | Gray clays with fine to medium sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------|-----------------------|
| 36" | New | Steel Casing | 0-38 .375 |
| 20" | New | Steel Casing+ | 3' 38-470 .375 |
| 20" | New | SS Screen | 470-620 .45 slot |
| 20" | New | SS Casing | 620-630 .375 |

| |
|--|
| 140 160 Fine sand mixed with gray clay |
| 160 200 Gray sticky clay, drills fast |
| 200 210 Gray sandy clay |
| 210 230 Gray sticky clay with hards streaks of sandstone |
| 230 280 Gray clay, sticky |
| 280 290 Gray clay, coal, fine sand |
| 290 300 Gray clay, sandy clay, coal yellow clay, fine sand |
| 300 310 Gray clay, fine sand |
| 310 320 Fine sand, sandy clay |
| 320 340 Brown sand clay, fine sand, coal |
| 340 350 Yellow clay, fine sandy, gray sandy clay |
| 350 360 Fine to medium coarse sand, sandy clay |
| 360 380 Gray sandy clay, fine sand, yellow clay, white clay |
| 380 400 Fine to medium coarse sand, coal gray sandy clay |
| 400 410 Sandy clay gray, fine sandy clay |
| 410 440 Fine to medium coarse sand, gray sand, sandy clay, yellow clay |
| 440 450 Fine Sand |
| 450 460 Fine Sandy, Mix coal, gray clay |
| 460 470 Fine to medium coarse, brown clay |
| 470 540 Fine sand, gray sandy clay, white clay, yellow clay |
| 540 550 Fine sand, mix clay, gray |
| 550 560 Fine sand, sandy gray clay, brown sandy clay |
| 560 570 Fine to medium coarse sandy, gray clay |
| 570 610 Fine sand, some clays, sandstone |
| 620 640 Medium sand, gray clay |
| 640 680 Fine sand |
| 680 690 Medium Sand |
| 690 700 Fine sand, some gray clay |
| 700 740 Silty sand, gray 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 #60722

Owner: **D r. Jose A. Saldana**

Owner Well #: **2**

Address: **14040 Mint Trail
San Antonio, TX 78232**

Grid #: **68-53-8**

Well Location: **25955 Mathis Rd.
Elemendorf, TX 78112**

Latitude: **29° 08' 09" N**

Longitude: **098° 25' 11" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **5/9/2005**

Drilling End Date: **5/13/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 491 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 375 | 450 | Gravel | 10-20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 375 | 201 sks. cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **2000**

Sealed By: **Driller**

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

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

Method of Verification: **Tape Measure & Plat**

Surface Completion: **Surface Slab Installed**

Water Level: **185 ft. below land surface on 2005-05-13** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Jetted** Yield: **80 GPM with 50 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|---------------------|
| 330 | Carrizo-Good |

Chemical Analysis Made: **No**

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

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

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

Driller Name: **Douglas B Hill**

License Number: **54636**

Apprentice Name: **Rodney L. Pinson**

Apprentice Number: **1004**

Comments: **Tye C. Newman ---#3029**
Michael B. Powell---#56017

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--|
| 0 | 12 | Topsoil-Sand |
| 12 | 80 | Sandy Red Clay |
| 80 | 85 | Hard Rock |
| 85 | 120 | Gray Shale |
| 120 | 125 | Rock |
| 125 | 220 | Gray Shale |
| 220 | 315 | Sandy Lt. Gray Shale |
| 315 | 330 | Gray Shale |
| 330 | 345 | Lt. Gray Sand |
| 345 | 395 | Gray Shale |
| 395 | 491 | Med. Grain White to Lt. Gray Sand |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-----------------------------|------------------------------|
| 6 5/8 | new | Steel A53-Gr.B | 435-425 .280 |
| 6 5/8 | new | SSWR Rod Base Screen | 425-405 .035 |
| 6 5/8 | new | Steel A53-Gr.B | 405-+2 .280 |

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 #61446

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 25**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-9**

Well Location: **South Mathis RD
Elmendorf, TX 78112**

Latitude: **29° 07' 54" N**

Longitude: **098° 24' 56" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **4/2/2005**

Drilling End Date: **5/26/2005**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 42 | 0 | 38 |
| 34 | 0 | 590 |

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 482 | 595 | Gravel | 8/16 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 38 | 72 sks |
| 0 | 452 | 1230 |

Seal Method: **Pumped through tremmie tube**

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

Sealed By: **Sclumberger**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **151.26 ft. below land surface on 2005-05-14** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** Yield: **3500 GPM with 78.2 ft. drawdown after 36 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|----------------|
| 490-580 | No Data |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **ROBY COYNE**

License Number: **4325**

Apprentice Name: **Rodney Padilla**

Apprentice Number: **1769**

Comments: **Driller: Toney Nabors #54595**

**TWDB SW#68-53-922
Doc Jones 2/2/09**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|------------|------------|--|
| 0 | 5 | Fine sand |
| 5 | 15 | Medium sand and brown clay, brown sandstone, drills tight |
| 15 | 20 | Brown sandstone, drills tight with streaks of clay |
| 20 | 29 | Brown sandstone |
| 29 | 40 | Brown Sand |
| 40 | 50 | Some sand and mix of clays |
| 50 | 70 | Brown, white, orange clays |
| 70 | 80 | Medium Sand & Clays |
| 80 | 90 | Gray clay, Sandy brown clay, sticky |
| 90 | 120 | Gray clay sticky, sandy gray clay |
| 120 | 150 | Gray sticky clay |
| 150 | 160 | Sandy gray clay, gray clay sticky |
| 160 | 170 | Gray clay, sandy gray clay |
| 170 | 190 | Brown sandy clay, gray sandy clay |
| 190 | 210 | Gray clay, sandy clay, gray brown sandy clay |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|------------|-------------------------------|-------------------------|
| 36" | NEW | Steel Casing | 0-38 .375 |
| 20" | NEW | Steel casing, + 3' AGS | 0-482 .375 |
| 20" | NEW | SS Screen | 482-580 .45 slot |
| 20" | NEW | SS Blank casing | 580-590 .375 |

| |
|--|
| 210 230 Gray clay sticky |
| 230 240 Gray clay, sandstone hard |
| 240 260 Sandy stone, hard, gray clay, gray sandy clay |
| 260 290 Gray sandy clay |
| 290 300 Fine to medium coarse sand, sandy clay gray |
| 300 310 Gray sandy clay |
| 310 340 Sandy gray clay coal |
| 340 350 Fine gray sandy clay, fine to medium coarse sand |
| 350 370 Sandy clay, fine sand gray clay |
| 370 440 Fine sand, gray clay, sandy |
| 440 460 Silty sand & some gray clays |
| 460 470 Medium sand and gray clay |
| 470 490 Oil shale and gray clay, some sand |
| 490 510 Sandy & Gray clay |
| 510 550 Silty fine sand |
| 550 560 Medium coarse sand |
| 560 570 Silty fine sand and gray clay |
| 570 650 Gray clay with stringers |
| 650 660 Gray clay |
| 660 670 Gray clay |
| 670 700 Silty sand |
| 700 710 Large coarse sand |
| 710 740 Fine sand |
| 740 760 Fine silty sand |

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 #61447

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 24**

Address: **P.O. BOX 2449
SAN ANTONIO, TX 78298**

Grid #: **68-53-9**

Well Location: **South Mathis RD
Elmendorf, TX 78112**

Latitude: **29° 07' 42" N**

Longitude: **098° 24' 57" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **4/26/2005**

Drilling End Date: **6/11/2005**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 42 | 0 | 38 |
| 34 | 0 | 590 |

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed; Open Hole**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 442 | 590 | Gravel | 8/16 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 38 | 72 |
| 0 | 452 | 1480 |

Seal Method: **Pumped through tremmie
pipe**

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

Sealed By: **Schlumberger**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **147.39 ft. below land surface on 2005-05-08** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** Yield: **3500 GPM with 91.1 ft. drawdown after 36 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 90 | No Data |

Chemical Analysis Made: **Unknown**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **ROBY COYNE**

License Number: **4325**

Apprentice Name: **Rodney Padilla**

Apprentice Number: **1769**

Comments: **Driller: Toney Nabors #54595**

**TWDB SW#68-53-921
Doc Jones 2/2/09**

Report Amended on by Request #1857

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|--------------------------------------|
| 1 | 10 | Sand & clay streaks |
| 10 | 20 | Sandstone with streaks |
| 20 | 27 | Sandstone |
| 27 | 60 | Brown & yellow clays, some fine sand |
| 60 | 70 | Brown & white clays |
| 70 | 80 | Brown & yellow clays some sand |
| 80 | 90 | Dark brown clay |
| 90 | 95 | Highly cemented gray clay |
| 95 | 130 | Gray clay, very sticky |
| 130 | 140 | Gray clay, sticky |
| 140 | 150 | Gray clay, sandstone, hard |
| 150 | 190 | Gray sandy clay, gray clay |
| 190 | 340 | Gray clay, sandy |
| 340 | 350 | Fine sand, gray sandy clay |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------------------|-----------------------|
| 36" | New | Steel Casing | 0-38' .375 |
| 20" | New | Steel Casing + 3' AGS | 0-472' .375 |
| 20" | New | SS Screen | 472-580' .45 slot |
| 20" | New | SS Blank Casing | 580-590 ' .375 |

| |
|--|
| 350 360 Gray clay, firm |
| 360 410 Gray sandy clay, gray clay |
| 410 430 Gray sandy clay, coal |
| 430 490 Gray sandy clay, fine sand |
| 490 520 Fine sandy coal, medium coarse sandy |
| 520 550 Fine to medium sand, gray sandy clay |
| 550 590 Fine silty sand |
| 590 620 Silty sand & gray clay streaks |
| 620 630 Silty sand |
| 630 650 Gray clay |
| 650 660 Gray clay and silty sand |
| 660 710 Silty sand and clay |
| 720 720 Medium sand |
| 720 730 Sand & clay |
| 730 750 Fine silty sand |

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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 #63754

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 23**

Address: **P.O. Box 2449
San Antonio, TX 78298**

Grid #: **68-53-8**

Well Location: **South Mathis Rd
Elmendorf, TX 78112**

Latitude: **29° 07' 44" N**

Longitude: **098° 25' 07" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **5/7/2005**

Drilling End Date: **6/30/2005**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 42 | 0 | 38 |
| 34 | 0 | 500 |
| 30 | 500 | 620 |

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 462 | 620 | Gravel | 8/12 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 38 | 72 sks cement |
| 0 | 492 | 1620 sks cement |

Seal Method: **Pumped through tremmie
tube**

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

Sealed By: **Schlumberger**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **144.8 ft. below land surface on 2005-06-14**

Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump**

Yield: 3500 GPM with 72.6 ft. drawdown after 36 hours

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 108 | No Data |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Apprentice Name: **Rodney Padilla**

Apprentice Number: **1769**

Comments: **Additional driller: Toney Nabors #54595**

**TWDB SW#68-53-812
Doc Jones 1/30/09**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|------------------------------------|
| 0 | 5 | Fine Sand |
| 5 | 29 | Medium coarse sand |
| 29 | 40 | Sand & clay |
| 40 | 90 | Brown, white & gray clay |
| 90 | 100 | Brown clay, sticky |
| 100 | 110 | Brown clay, very sticky |
| 110 | 120 | Gray clay, very sticky |
| 120 | 130 | Gray clay |
| 130 | 160 | Gray clay, sandy |
| 160 | 170 | Gray clay, sticky, sandstone, hard |
| 170 | 180 | Gray clay, brown clay |
| 180 | 190 | Gray clay |
| 190 | 200 | Gray sandy clay |
| 200 | 210 | Gray sandy clay, gray clay |
| 210 | 220 | Sandstone, hard |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------------|-----------------------|
| 36" | New | Steel Casing | 0-38' 0.375" |
| 20" | New | Steel Casing | +3' 0-500' 0.375" |
| 20" | New | SS Slotted | 500'-600' .050" |
| 20" | New | SS Blank casing | 600'-610' .375" |

| |
|---|
| 220 300 Gray sandy clay, gray clay |
| 300 310 Gray sandy clay, coal |
| 310 320 Gray sandy, fine sand |
| 320 350 Fine sand, gray sandy clay, gray clay |
| 350 360 Brown sandy clay, gray sandy clay |
| 360 370 Gray clay sticky, gray sand clay |
| 370 450 Gray sandy clay, gray clay |
| 450 500 Fine sandy & sandy gray clay |
| 500 510 Fine sand & coal |
| 510 520 Fine sandy & coal, medium coarse sand |
| 520 580 Fine to medium coarse sand, gray sandy clay |
| 580 590 Gray clay sandy, gray clay sticky |
| 590 620 Silty sand and gray clay |
| 620 670 Gray clay & sand |
| 670 680 Silty gray sand |
| 680 690 Gray sandy clay, gray clay |
| 690 730 Gray clay & sandstone |

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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 #63835

Owner: **San Antonio Water Systems**

Owner Well #: **ASR 29**

Address: **P.O. Box 2449
San Antonio, TX 78298**

Grid #: **68-61-2**

Well Location: **South Mathis Rd
Elmendorf, TX 78112**

Latitude: **29° 07' 28" N**

Longitude: **098° 25' 02" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Drilling Start Date: **5/18/2005**

Drilling End Date: **7/1/2005**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 42 | 0 | 38 |
| 34 | 0 | 495 |
| 28 | 495 | 670 |

Drilling Method: **Reverse Circulation**

Borehole Completion: **Filter Packed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 467 | 670 | Gravel | 8/16 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 38 | 72 sks cement |
| 0 | 457 | 1600 sks cement |

Seal Method: **Pumped through tremmie
tube**

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

Sealed By: **Schlumberger**

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **127.38 ft. below land surface on 2005-06-19** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Pump** Yield: **3500 GPM with 64.87 ft. drawdown after 36 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 155 | No Data |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Henkle Drilling & Supply Co. Inc**

**P.O. Box 639
Garden City, KS 67846**

Driller Name: **Roby Coyne**

License Number: **4325**

Apprentice Name: **Rodney Padilla**

Apprentice Number: **1769**

Comments: **Additional Driller: Toney Nabors, #54595**

**TWDB SW#68-61-222
Doc Jones 2/3/09**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|--|
| 0 | 20 | Medium Sand |
| 20 | 90 | Sand & clay |
| 90 | 140 | Gray clays |
| 140 | 170 | Gray clays with stringers |
| 170 | 200 | Gray clays with sandstone |
| 200 | 300 | Gray clay sandy, gray clay |
| 300 | 310 | Gray sandy clay, coal |
| 310 | 410 | Gray san clay, gray clay sticky |
| 410 | 480 | Gray clay sticky & some sand |
| 480 | 490 | Fine to medium coarse sand, brown sandy clay |
| 490 | 520 | Fine sand, gray sandy clay |
| 520 | 580 | Fine to medium coarse sand |
| 580 | 600 | Fine sand, gray sandy clay |
| 600 | 660 | Gray clay, sticky, fine sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------------|-----------------------|
| 36" | New | Steel Casing | 0-38' .375 |
| 20" | New | Steel Casing | 0-495' .375 |
| 20" | New | 304 SS. Slotted | 495'-585' .045 |
| 20" | New | 304 SS Casing | 585'-600' .375 |
| 20" | New | 304 SS Slotted | 600'-650' .045 |
| 20" | New | 304 SS Casing | 650'-660' .375 |

| |
|--|
| 660 700 Silty fine sand & gray clay |
| 700 720 Sandy clay, gray |
| 720 730 Silty fine sand & gray clay |
| 730 740 Silty fine sand, medium coarse sand,clay |
| 740 785 Silty fine sand, gray 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 #68192

Owner: **Angie Martinez**
Address: **25808 Mathis Rd.
Elemendorf, TX 78112**
Well Location: **25808 Mathis Rd.
Elemendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **2**
Grid #: **68-53-8**
Latitude: **29° 08' 32" N**
Longitude: **098° 25' 03" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **8/3/2005**

Drilling End Date: **8/18/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 459 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 390 | 459 | Gravel | 10-20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 390 | 198 sks cement |

Seal Method: **External Pressure Tremmie**

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

Sealed By: **Sch**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **182 ft. below land surface on 2005-08-18** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Jetted** Yield: **80 GPM with 40 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 350 | Good |

Chemical Analysis Made: **No**

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

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

Company Information: **Alsay Inc.**
3359 SE Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill**

License Number: **54636**

Apprentice Name: **Rodney Pinson**

Apprentice Number: **1004**

Comments: **Tye C. Newman---WWA-3029**
Michael B. Powell---WWD-56017

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|------------------------------|
| 0 | 10 | Topsoil-Sand |
| 10 | 120 | Sandy Red Clay |
| 120 | 160 | Sandy Gray Shale |
| 160 | 180 | Fine Gray Sand |
| 180 | 190 | Gray Shale |
| 190 | 290 | Lt. Gray Fine Sand |
| 290 | 305 | Sandy Gray Shale |
| 305 | 325 | Med. Gr. White Sand |
| 325 | 350 | Sandy Gray Shale |
| 350 | 459 | Med. Grain White Sand |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-----------------------------|------------------------------|
| 6 5/8 | new | A53-Gr. B Steel | 450-440 .280 |
| 6 5/8 | new | SSWR Rod Base Screen | 440-420 .035 |
| 6 5/8 | new | A53-Gr.B Steel | 420- +2 .280 |

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 #68621

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Ken Sharp | Owner Well #: | 2 |
| Address: | 25755 Mathis Rd. Elemendorf, TX 78112 | Grid #: | 68-53-8 |
| Well Location: | 25755 Mathis Rd. Pleasanton, TX 78112 | Latitude: | 29° 08' 36" N |
| Well County: | Bexar | Longitude: | 098° 25' 09" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **9/2/2005**

Drilling End Date: **9/14/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 469 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 390 | 469 | Gravel | 10-20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 390 | 195 sks cement |

Seal Method: **Trimmie**

Distance to Property Line (ft.): **75**

Sealed By: **Driller**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **178 ft. below land surface on 2005-09-26** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Jetted** Yield: **40 GPM with 30 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|--------------|
| 375 | Carrizo-Good |

Chemical Analysis Made: No

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

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

Company Information: **Alsay Inc.**
3359 SE Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Tye C. Newman** Apprentice Number: **3029**

Comments: **Michael B. Powell-----56017**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---------------------|
| 0 | 4 | Topsoil-Sand |
| 4 | 25 | Yellow Clay |
| 25 | 45 | Sandy Red Clay |
| 45 | 85 | Sticky Gray Shale |
| 85 | 180 | Sandy Gray Shale |
| 180 | 210 | Gray Shale |
| 210 | 310 | Fine White Sand |
| 310 | 335 | Gray Shale |
| 335 | 365 | Med. Gr. White Sand |
| 365 | 375 | Gray Shale |
| 375 | 469 | Med. Gr. White Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------------|-----------------------|
| 6 5/8 | new | Steel A53-Gr. B | 450-440 .280 |
| 6 5/8 | new | SSWR Rod Base Scren | 440-420 .035 |
| 6 5/8 | new | Steel A53- Gr. B | 420-+2 .280 |

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 #69727

| | | | |
|----------------|--|---------------|-----------------------|
| Owner: | Roy Brown | Owner Well #: | 2 |
| Address: | 19484 Somerset Rd. Somerset, TX 78069 | Grid #: | 68-53-9 |
| Well Location: | 26280 Mathis Rd. Elemendorf, TX 78112 | Latitude: | 29° 08' 14" N |
| Well County: | Travis | Longitude: | 098° 24' 44" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **8/30/2005** Drilling End Date: **9/19/2005**

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 12.25 | 0 | 440 |
| | 8.75 | 440 | 469 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| Filter Pack Intervals: | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|--------------|
| | 370 | 440 | Gravel | 10-20 |

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | 0 | 370 | 200 sks cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **150**

Sealed By: **Driller**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **233 ft. below land surface on 2005-09-19** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **360**

Well Tests: **Pump** Yield: **25 GPM with 5 ft. drawdown after 8 hours**

| Plug Information: | Description (number of sacks & material) | Top Depth (ft.) | Bottom Depth (ft.) |
|-------------------|--|-----------------|--------------------|
| | N/A | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|--------------|
| 390 | Carrizo-Good |

Chemical Analysis Made: No

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

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

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

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Rodney Pinson** Apprentice Number: **1004**

Comments: **Tye C. Newman-----#3029**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 5 | Topsoil- sand |
| 5 | 40 | Red Clay |
| 40 | 275 | Sticky Gray Shale |
| 275 | 385 | Fine White Sand |
| 385 | 395 | Gray Shale |
| 395 | 455 | Med. Grain White Sand |
| 455 | 469 | Sandy Gray Shale |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|----------------------|-----------------------|
| 6 5/8 | new | Steel-A53-Gr.B | 430-420 .280 |
| 6 5/8 | new | SSWR Rod Base Screen | 420-400 .035 |
| 6 5/8 | new | Steel-A53-Gr.B | 400-+2 .280 |

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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 #72531

Owner: **Ernesto Olivarez**
Address: **2424 Maebeth Ave
Corona, CA 92882**
Well Location: **25708 MATHIS RD
Elemendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **2**
Grid #: **68-53-8**
Latitude: **29° 08' 40" N**
Longitude: **098° 25' 05" W**
Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #29778

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/12/2005** Drilling End Date: **10/24/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 480 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 410 | 480 | Gravel | 10-20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 410 | 204 sks cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **35**

Sealed By: **Alsay,Inc**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **175 ft. below land surface on 2005-10-24** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Jetted** Yield: **60 GPM with 20 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|--------------|
| 430 | Carrizo-Good |

Chemical Analysis Made: No

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

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

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

Driller Name: **Douglas Hill** License Number: **54636**

Apprentice Name: **Tye Newman** Apprentice Number: **3029**

Comments: **Michael B. Powell-----56017**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 6 | Topsoil-Sand |
| 6 | 30 | Sandy Red Clay |
| 30 | 88 | Gray Shale |
| 88 | 160 | Sandy Gray Shale |
| 160 | 170 | Gray Shale |
| 170 | 318 | Fine White Sand |
| 318 | 325 | Gray Shale |
| 325 | 348 | Med. Grain White Sand |
| 348 | 352 | Gray Shale |
| 352 | 365 | Coarse White Sand |
| 365 | 370 | Gray Sand |
| 370 | 425 | Med. Grain White Sand |
| 425 | 430 | Gray Shale |
| 430 | 480 | Med. Grain White Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|----------------------|-----------------------|
| 6 5/8 | new | PVC | 470-460 Sch. 80 |
| 6 5/8 | new | SSWR Rod Base Screen | 460-440 .035 |
| 6 5/8 | new | PVC | 440-+2 Sch.80 |

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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 #72558

Owner: **Randy Branscum**
Address: **26050 Mathis Rd.
Elemendorf, TX 78112**
Well Location: **26050 Mathis Rd.
Elemendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **2**
Grid #: **68-53-9**
Latitude: **29° 08' 23" N**
Longitude: **098° 24' 49" W**
Elevation: **No Data**

****This well has been plugged****

Plugging Report Tracking #29777

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **10/31/2005** Drilling End Date: **11/10/2005**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 460 |
| | 8.75 | 460 | 494 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 400 | 460 | Gravel | 10-20 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 400 | 198 sks.cement |

Seal Method: **External Pressure Tremmie**

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

Sealed By: **Alsay, Inc**

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

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

Method of Verification: **Tape measure**

Surface Completion: **Surface Slab Installed**

Water Level: **No Data**

Packers: **N/A**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 60 GPM with 40 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 400 | Carrizo |

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: **Alsay, Inc.**
3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **Douglas Hill** License Number: **54636**

Apprentice Name: **Rodney Pinson** Apprentice Number: **1004**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|--------------------|
| 0 | 5 | Sand |
| 5 | 45 | Red Clay |
| 45 | 95 | Sandy Gray Shale |
| 95 | 105 | Lignite |
| 105 | 230 | Gray Shale |
| 230 | 335 | Med.Gr. White Sand |
| 335 | 345 | Gray Shale |
| 345 | 380 | White Sand |
| 380 | 400 | Gray Shale |
| 400 | 420 | Sandy Gray Shale |
| 420 | 425 | Gray Shale |
| 425 | 494 | White Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|----------------------|-----------------------|
| 6 5/8 | new | PVC | 460-450 Sch.80 |
| 6 5/8 | new | SSWR Rod Base Screen | 450-430 .035 |
| 6 5/8 | new | PVC | 430-+2 Sch.80 |

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

STATE OF TEXAS WELL REPORT for Tracking #75302

Owner: **Randy Branscum**

Owner Well #: **3**

Address: **26050 Mathis Rd.
Elemendorf, TX 78112**

Grid #: **68-53-9**

Well Location: **26050 Mathis Rd.
Elemendorf, TX 78112**

Latitude: **29° 08' 23" N**

Longitude: **098° 24' 49" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **Replacement**

Proposed Use: **Domestic**

Drilling Start Date: **1/16/2006**

Drilling End Date: **1/26/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 16 | 0 | 18 |
| | 12.25 | 18 | 470 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| Filter Pack Intervals: | 400 | 470 | Gravel | 8-16 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 400 | 190 sks. cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **205**

Sealed By: **Alsay, Inc.**

Distance to Septic Field or other
concentrated contamination (ft.): **145**

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **167 ft. below land surface on 2006-01-31** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Pump** Yield: **17 GPM with 10 ft. drawdown after 3 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|--------------|
| 420 | Good-Carrizo |

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: **Alsay, Inc**
3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Tye Newman** Apprentice Number: **3029**

Comments: **Michael B. Powell ---56017**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 4 | Sand |
| 4 | 45 | Red Clay |
| 45 | 95 | Sandy Gray Shale |
| 95 | 105 | Lignite |
| 105 | 230 | Gray Shale |
| 230 | 335 | Med Gr. White Sand |
| 335 | 345 | Gray Shale |
| 345 | 380 | White Sand |
| 380 | 400 | Gray Shale |
| 400 | 420 | Sandy Gray Shale |
| 420 | 425 | Gray Shale |
| 425 | 470 | Med. Grain White Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|----------------------|-----------------------|
| 6 5/8 | new | PVC | 460-450 SDR 17 |
| 6 5/8 | new | SSWR rod base screen | 450-430 .035 |
| 6 5/8 | new | PVC | 430-+2 SDR 17 |
| 14 | new | Steel 18-0 | .250 |

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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 #82283

Owner: **Ernesto Olivarez**
Address: **2424 Maebeth Ave
Corona, CA 92882**
Well Location: **25708 Mathis Rd.
Elemendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **3**
Grid #: **68-53-8**
Latitude: **29° 08' 40" N**
Longitude: **098° 25' 05" W**
Elevation: **No Data**

Type of Work: **Replacement**

Proposed Use: **Domestic**

Drilling Start Date: **3/6/2006**

Drilling End Date: **3/17/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 480 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| Filter Pack Intervals: | 410 | 480 | Gravel | 8-16 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 410 | 204 sks. cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **30**

Sealed By: **Alsay, Inc**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **176 ft. below land surface on 2006-03-20** Measurement Method: **Unknown**

Packers: **n/a**

Type of Pump: **Submersible** Pump Depth (ft.): **320**

Well Tests: **Jetted** Yield: **55 GPM with 20 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | n/a | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|--------------|
| 430 | Good-Carrizo |

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: **Alsay, Inc.**
3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Tye Newman** Apprentice Number: **3029**

Comments: **Micheal B. Powell-----56017**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 6 | Topsoil-sand |
| 6 | 30 | Sandy Red Clay |
| 30 | 88 | Gray Shale |
| 88 | 160 | Sandy Gray Shale |
| 160 | 170 | Gray Shale |
| 170 | 318 | Fine White Sand |
| 318 | 325 | Gray Shale |
| 325 | 348 | Med Grain White Sand |
| 348 | 352 | Gray Shale |
| 352 | 365 | Coarse White Sand |
| 365 | 370 | Gray Sand |
| 370 | 425 | Med. Grain White Sand |
| 425 | 430 | Gray Shale |
| 430 | 480 | Med. Grain White Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|----------------------|-----------------------|
| 6 5/8 | new | PVC | 470-460 SDR 17 |
| 6 5/8 | new | SSWR Rod Base Screen | 460-440 .035 |
| 6 5/8 | new | PVC | 440-+2 SDR 17 |

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 #106017

Owner: **Gerry Jasik Jr.**
Address: **27260 Mathis Rd.
Elemendorf, TX 78112**
Well Location: **27260 Mathis Rd.
Elemendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **2**
Grid #: **68-53-9**
Latitude: **29° 08' 11" N**
Longitude: **098° 24' 50" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/15/2006** Drilling End Date: **1/29/2007**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 440 |
| | 8.75 | 440 | 490 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| Filter Pack Intervals: | 380 | 445 | Gravel | 8-16 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 380 | 185 sks cement |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **20**

Sealed By: **Driller**

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

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

Method of Verification: **Tape Measure**

Surface Completion: **Surface Slab Installed**

Water Level: **180 ft. below land surface on 2007-01-29** Measurement Method: **Unknown**

Packers: **N/A**

Type of Pump: **Submersible** Pump Depth (ft.): **340**

Well Tests: **Jetted** Yield: **40 GPM with 40 ft. drawdown after 6 hours**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | N/A | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 405 | Carrizo |

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: **Alsay, Inc**
3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **John De La Paz** Apprentice Number: **3321**

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 | 2 | Topsoil |
| 2 | 60 | Red Clay |
| 60 | 246 | Dense Gray Shale |
| 246 | 370 | Fine White Sand |
| 370 | 375 | Gray Shale |
| 375 | 405 | Fine White Sand |
| 405 | 410 | Gray Shale |
| 410 | 440 | Med Grain White Sand |
| 440 | 445 | Gray Shale |
| 445 | 490 | Fine White Sand |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 6 5/8 | new | PVC | 440-430 SDR 17 |
| 6 5/8 | new | SSWR Screen | 430-410 .035 |
| 6 5/8 | new | PVC | 410-+2 SDR 17 |

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 #106765

Owner: **San Antonio Water System**
Address: **2800 US 281 North
San Antonio, TX 78212**
Well Location: **Hardy Rd.-1/2 mile SE of I37 South
Elemendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **MW-1**
Grid #: **68-53-8**
Latitude: **29° 07' 31" N**
Longitude: **098° 25' 52" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Monitor**

Drilling Start Date: **10/3/2006**

Drilling End Date: **1/24/2007**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 30 | 0 | 54 |
| | 15 | 54 | 560 |
| | 12.25 | 560 | 1810 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| Filter Pack Intervals: | 1130 | 1810 | Gravel | 16-30 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 54 | 12 yds cement |
| | 0 | 1120 | 600 sks cement |
| | 1120 | 1130 | 5 sks bentonite |

Seal Method: **External Pressure Tremmie**

Distance to Property Line (ft.): **1000**

Sealed By: **Schlumberger**

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

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

Method of Verification: **Plat**

Surface Completion: **Surface Slab Installed**

Water Level: **109.3 ft. below land surface on 2007-01-19** Measurement Method: **Unknown**
Packers: **N/A**
Type of Pump: **No Data**

Well Tests: **Pump** **Yield: 200 GPM with 83.12 ft. drawdown after 8 hours**

| | | | |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
| | N/A | | |

| | | |
|----------------|---------------------------|-------------------|
| Water Quality: | <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| | 1238 | Wilcox |

Chemical Analysis Made: **Yes**

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

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

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

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Robert Curry** Apprentice Number: **1134**

Comments: **Brian Hillard-----54916**
8 3/4 hole 1810-----1920
TWDB assigned SWN 68-53-813

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|----------------------------|
| 0 | 58 | Top Soil & Clay |
| 58 | 87 | Yellow Clay |
| 87 | 115 | Sandy red clay |
| 115 | 148 | Dark gray shale |
| 148 | 163 | Sandy shale |
| 163 | 172 | Light gray shale |
| 172 | 190 | Sandy gray shale |
| 190 | 221 | Sand |
| 221 | 228 | Sandy gray shale |
| 228 | 240 | Sand |
| 240 | 260 | Sandy gray shale |
| 260 | 390 | Sand |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|---------------------------|------------------------------|
| 4 | new | S.S. Blank | 1796-1786 .237 |
| 4 | new | SS Rod base screen | 1786-1771 .025 |
| 4 | new | SS Blank | 1771-1723 .237 |
| 4 | new | SS rod base screen | 1723-1698 .025 |
| 4 | new | SS Blank | 1698-1675 .237 |
| 4 | new | SS rod base screen | 1675-1665 .025 |
| 4 | new | SS Blank | 1665-1650 .237 |
| 4 | new | SS rod base screen | 1650-1630 .025 |
| 4 | new | SS Blank | 1630-1560 .237 |
| 4 | new | SS rod base screen | 1560-1550 .025 |
| 4 | new | SS Blank | 1550-1530 .237 |
| 4 | new | SS rod base screen | 1530-1520 .025 |

| | | |
|------|------|----------------------------|
| 390 | 450 | Sticky gray shale |
| 450 | 698 | Gray pepper sand |
| 698 | 714 | Sandy gray shale |
| 714 | 742 | Coarse Sand |
| 742 | 762 | Sandy gray shale |
| 762 | 792 | Sand |
| 792 | 800 | Gray shale |
| 800 | 834 | Sandy gray shale |
| 834 | 850 | Gray Shale |
| 850 | 918 | Whitish gray sand w/ shale |
| 918 | 980 | Sandy gray shale |
| 980 | 996 | Gray shale |
| 996 | 1014 | Gray pepper sand |
| 1014 | 1062 | Sandy sandy shale |
| 1062 | 1076 | Sand |
| 1076 | 1106 | Sandy gray shale |
| 1106 | 1138 | Gray shale w/ little sand |
| 1138 | 1158 | Sand w/gray shale |
| 1158 | 1208 | Sandy gray shale |
| 1208 | 1310 | Sand w/ little sand |
| 1310 | 1318 | Gray Shale |
| 1318 | 1366 | Gray shale w/ little sand |
| 1366 | 1436 | Gray sand |
| 1436 | 1450 | Sandy gray shale |
| 1450 | 1506 | Gray sand w/ lignite |
| 1506 | 1516 | Gray shale w/ little sand |
| 1516 | 1570 | Gray Sand |
| 1570 | 1624 | Gray shale w/ little sand |
| 1624 | 1658 | Sand |
| 1658 | 1664 | Gray shale |
| 1664 | 1678 | Sand |
| 1678 | 1694 | Gray Sand |
| 1694 | 1734 | Sand |
| 1734 | 1788 | Sandy gray shale |
| 1788 | 1816 | Gray shale |
| 1816 | 1842 | Sandy gray shale |
| 1842 | 1846 | Gray shale |

| |
|---|
| 4 new SS Blank 1520-1505 .237 |
| 4 new SS rod base screen 1505-1495 .025 |
| 4 new SS Blank 1495-1446 .237 |
| 4 new SS rod base screen 1446-1440 .025 |
| 4 new SS Blank 1440-1400 .237 |
| 4 new SS rod base screen 1400-1370 .025 |
| 4 new SS Blank 1370-1335 .237 |
| 4 new SS rod base screen 1335-1325 .025 |
| 4 new SS Blank 1325-1290 .237 |
| 4 new SS rod base screen 1290-1270 .025 |
| 4 new SS Blank 1270-1250 .237 |
| 4 new SS rod base screen 1250-1240 .025 |
| 4 new Dielectric Cplg. 1240-1238.5 |
| 4 new A53-Gr.B Steel 1238.5-500 .237 |
| 6 new A53-Gr.B Steel 500-+3 .280 |

| | | |
|------|------|------------------------|
| 1846 | 1920 | Sandy shale w/ lignite |
|------|------|------------------------|

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 #121662

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | San Antonio Water System | Owner Well #: | TW-1 |
| Address: | 2800 US 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | Hardy Rd - 1/2 mile SE of I-37 South Elemendorf, TX 78112 | Latitude: | 29° 07' 32" N |
| | | Longitude: | 098° 25' 53" W |
| Well County: | Bexar | Elevation: | 525 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Test Well |

Drilling Start Date: 12/28/2006 Drilling End Date: 5/25/2007

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 36 | 0 | 54 |
| | 20 | 54 | 1820 |
| | 9.875 | 1820 | 1860 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed; Straight Wall

| | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|-------|
| Filter Pack Intervals: | 1120 | 1820 | Gravel | 16-30 |

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 54 | 10 Yds Grout |
| | 0 | 1110 | 1334 Sks Cement |
| | 1110 | 1120 | 5 Sks Ben. Chip |

Seal Method: External Pressure Tremmie

Distance to Property Line (ft.): 1000

Sealed By: Schlumberger

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Plat

Surface Completion: Surface Slab Installed

| | | | |
|---------------|---|---------------------|---------|
| Water Level: | 114.87 ft. below land surface on 2007-04-18 | Measurement Method: | Unknown |
| Packers: | N/A | | |
| Type of Pump: | No Data | | |

Well Tests: **Pump** **Yield: 1050 GPM with 174.23 ft. drawdown after 60 hours**

| | | | |
|-------------------|---|------------------------|---------------------------|
| Plug Information: | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
| | N/A | | |

| | | |
|----------------|---------------------------|------------------------|
| Water Quality: | <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| | 1216 | Wilcox-Brackish |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Alsay Incorporated**
3359 SE Loop 410
San Antonio, TX 78222

Driller Name: **Douglas B. Hill** License Number: **54636**

Apprentice Name: **Tye C. Newman** Apprentice Number: **57991**

Comments: **Michael B. Powell - 56017**
TWDB assigned SWN 68-53-814

Report Amended on 7/6/2017 by Request #21940

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|-------------------------|
| 0 | 6 | Sub structure |
| 6 | 58 | Top soil |
| 58 | 87 | Yellow clay |
| 87 | 115 | Sandy red clay |
| 115 | 148 | Dark gray clay |
| 148 | 163 | Sandy clay |
| 163 | 172 | Light gray shale |
| 172 | 190 | Sandy gray shale |
| 190 | 221 | Sand |
| 221 | 228 | Sandy gray shale |
| 228 | 240 | Sand |
| 240 | 270 | Sandy gray shale |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|------------------------|------------------------------|
| 8 | New | SS Blank | 1804 - 1784 .322 |
| 8 | New | Rod Base Screen | 1784 - 1704 .25 |
| 8 | New | SS Blank | 1704 - 1684 .322 |
| 8 | New | Rod Base Screen | 1684 - 1652 .25 |
| 8 | New | SS Blank | 1652 - 1646 .322 |
| 8 | New | Rod Base Screen | 1646 - 1616 .25 |
| 8 | New | SS Blank | 1616 - 1560 .322 |
| 8 | New | Rod Base Screen | 1560 - 1510 .25 |
| 8 | New | SS Blank | 1510 - 1500 .322 |
| 8 | New | Rod Base Screen | 1500 - 1480 .25 |
| 8 | New | SS Blank | 1480 - 1450 .322 |
| 8 | New | Rod Base Screen | 1450 - 1430 .25 |
| 8 | New | SS Blank | 1430 - 1410 .322 |

| | | |
|------|------|--------------------------|
| 270 | 365 | Sand |
| 365 | 396 | Sandy gray shale |
| 396 | 428 | Sandy clay |
| 428 | 459 | Sandy gray shale |
| 459 | 490 | Coarse sand with lignite |
| 490 | 709 | Coarse sand |
| 709 | 771 | Sandy gray shale |
| 771 | 866 | Fine sand with shale |
| 866 | 958 | Fine sand with lignite |
| 958 | 1004 | Sandy gray shale |
| 1004 | 1054 | Shale with rocks |
| 1054 | 1086 | Sandy gray shale |
| 1086 | 1130 | Sandy shale with rocks |
| 1130 | 1150 | Sand |
| 1150 | 1200 | Sandy shale with lignite |
| 1200 | 1226 | Sandy shale |
| 1226 | 1302 | Sand |
| 1302 | 1320 | Sandy gray shale |
| 1320 | 1354 | Sand |
| 1354 | 1390 | Sand with gray shale |
| 1390 | 1410 | Sand |
| 1410 | 1480 | Sandy clay |
| 1480 | 1500 | Sand |
| 1500 | 1580 | Sandy clay |
| 1580 | 1604 | Sandy clay with rocks |
| 1604 | 1646 | Sand |
| 1646 | 1702 | Sandy shale |
| 1702 | 1770 | Sand with little shale |
| 1770 | 1866 | Sandy clay |

| |
|--|
| 8 New Rod Base Screen 1410 - 1380 .25 |
| 8 New SS Blank 1380 - 1336 .322 |
| 8 New Rod Base Screen 1336 - 1308 .25 |
| 8 New SS Blank 1308 - 1300 .322 |
| 8 New Rod Base Screen 1300 - 1226 .25 |
| 8 New SS Blank 1226 - 1216 .322 |
| 8 New SS Blank 1216 - 1100 .322 |
| 12 New GR. B Steel ID Coated 1100 - 0 .375 |

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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 #136318

Owner: **Jesse Pantoja**
Address: **410 Prestwick Blvd.
San Antonio, TX 78223**
Well Location: **25795 Mathis Rd.
Elmendorf, TX 78112**
Well County: **Bexar**

Owner Well #: **No Data**
Grid #: **68-53-8**
Latitude: **29° 08' 33" N**
Longitude: **098° 25' 09" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **12/5/2006**

Drilling End Date: **12/16/2006**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.25 | 0 | 530 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| Filter Pack Intervals: | 470 | 530 | Gravel | 8/16 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 20 | 17 sks. cement |
| | 20 | 470 | 56 sks. grout |

Seal Method: **External pressure tremmie**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **120**

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

Method of Verification: **Tape**

Surface Completion: **Surface Slab Installed**

Water Level: **180 ft. below land surface on 2006-12-15** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Jetted** **Yield: 50-75 GPM**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 500 | Carrizo |

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: **Alsay Inc.**
3359 S.E. Loop 410
San Antonio, TX 78222

Driller Name: **Brian Hillard** License Number: **54916**

Apprentice Name: **John De la paz** Apprentice Number: **57741**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 10 | topsoil |
| 10 | 25 | red clay w/sand |
| 25 | 100 | clay&sand |
| 100 | 150 | grey clay w/sand |
| 150 | 230 | fine grey sand w/clay |
| 230 | 290 | brown sand |
| 290 | 450 | grey sand |
| 450 | 500 | fine grey sand |
| 500 | 550 | lt. grey sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------------|-----------------------|
| 6" | new | pvc | 530-520 Sdr-17 |
| 6" | new | pvc slotted screens | 520-500 Sdr-17 .035 |
| 6" | new | pvc | 500-+2 Sdr-17 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

STATE OF TEXAS WELL REPORT for Tracking #166560

| | | | |
|----------------|---|---------------|-------------------------|
| Owner: | San Antonio Water Systems | Owner Well #: | MW C-13 |
| Address: | 2800 U.S. Hwy. 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 3763 Hardy Rd. Elmendorf, TX 78112 | Latitude: | 29° 08' 33" N |
| | | Longitude: | 098° 25' 33" W |
| Well County: | Bexar | Elevation: | 551 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Monitor |

Drilling Start Date: 12/2/2008 Drilling End Date: 12/5/2008

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 23 | 0 | 37 |
| | 14.75 | 37 | 510 |
| | 8.75 | 37 | 650 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed; Straight Wall

| Filter Pack Intervals: | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|------|
| | 350 | 500 | Gravel | 8/16 |

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | 0 | 345 | 230 sks. cmt. |
| | 345 | 350 | 15 sk.fine sand |
| | 350 | 550 | 4 Bags Gravel |

Seal Method: External pressure tremmie

Distance to Property Line (ft.): 30

Sealed By: Schlumberger

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Tape

Surface Completion: Unknown

Water Level: 171.05 ft. below land surface on 2008-12-15 Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible

Well Tests:

Pump**Yield: 86 GPM with 4.87 ft. drawdown after 8 hours**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 390 | Carrizo |

Chemical Analysis Made: **Yes**

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

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

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

Driller Name: **Brian K. Hillard**License Number: **54916**Apprentice Name: **John D. Wilkins**Apprentice Number: **56877**

Comments: **Steven Baguley -58223**
Jason Woodlee-58234

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|------------------------------|
| 0 | 5 | Surface sand |
| 5 | 15 | Brown clay |
| 15 | 40 | Brown & Red clay |
| 40 | 70 | Sandy brown clay |
| 70 | 85 | Grey clay |
| 85 | 170 | Gry sand |
| 170 | 190 | Grey sand w/ lignite |
| 190 | 230 | Grey sand |
| 230 | 240 | Grey sand w/ lignite |
| 240 | 350 | Grey sand |
| 350 | 360 | Grey sand w/ lignite |
| 360 | 420 | Grey sand |
| 420 | 425 | Grey shale & sand |
| 425 | 530 | Grey sand |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|---------------------------------|----------------------------------|
| 6" | New | Pvc | 500-490 Sdr-17 |
| 6" | New | S.S. Wire Wrapped Screen | 490-470 .035 |
| 6" | New | Pvc | 470-450 Sdr-17 |
| 6" | New | S.S. Wire Wrapped Screen | 450-430 .035 |
| 6" | New | Pvc | 430-410 Sdr-17 |
| 6" | New | S.S. Wire Wrapped Screen | 410-390 .035 |
| 6" | New | Pvc | Certainteed 390-+2 Sdr-17 |
| 16" | New | Steel Class B | 0-37 .250 |

| | | |
|-----|-----|-------------------------|
| 530 | 540 | Grey shale & sand |
| 540 | 590 | Grey sand |
| 590 | 595 | Brown sandstone |
| 595 | 610 | Brown sand |
| 610 | 620 | Grey shale & brown sand |
| 620 | 650 | Grey sand |

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 #166841

| | | | |
|----------------|---|---------------|--------------------------------|
| Owner: | San Antonio Water Systems | Owner Well #: | PO-4 |
| Address: | 2800 U.S. Hwy. 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 3390 Hardy Rd. Elemendorf, TX 78112 | Latitude: | 29° 08' 26" N |
| Well County: | Bexar | Longitude: | 098° 25' 01" W |
| | | Elevation: | 601 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Public Supply |

Drilling Start Date: **12/18/2008**

Drilling End Date: **12/29/2008**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 36 | 0 | 40 |
| 24 | 40 | 538 |
| 8.75 | 40 | 650 |

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

Borehole Completion: **Filter Packed; Straight Wall**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 359 | 537 | Gravel | 12/20 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 352 | 440 sks. cmt. |
| 352 | 359 | 18 sks. sand |
| 359 | 537 | 14 bags gravel |

Seal Method: **External pressure tremmie**

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

Sealed By: **Schlumberger**

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

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

Method of Verification: **Tape**

Surface Completion: **Unknown**

Water Level: **177 ft. below land surface on 2009-01-12** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** Yield: **1450 GPM with 31 ft. drawdown after 24 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 390 | Carrizo |

Chemical Analysis Made: **Yes**

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

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

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

Driller Name: **Brian K. Hillard**

License Number: **54916**

Apprentice Name: **John D. Wilkins**

Apprentice Number: **56877**

Comments: **Steven Baguley-58223**
Jason Woodley-58234

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---------------------------|
| 0 | 4 | Fine tan sand |
| 4 | 17 | Red & brown clay |
| 17 | 18 | Red gravel |
| 18 | 40 | Red & brown clay |
| 40 | 70 | Brown & red clay w/gravel |
| 70 | 90 | Dark grey shale |
| 90 | 100 | Lt. grey shale |
| 100 | 130 | Lt. grey shale & tan sand |
| 130 | 210 | Fine grey sand w/lignite |
| 210 | 240 | Grey sandy shale |
| 240 | 295 | Lt. grey sand |
| 295 | 306 | Sandy shale w/lignite |
| 306 | 354 | Lt. grey sand |
| 354 | 384 | Sandy shale w/lignite |
| 384 | 456 | Grey med. sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------------------|-----------------------|
| 30" | New | Grade B Mild Steel | 0-40 .312 |
| 12" | New | 308 Stainless Steel | 530-520 .375 |
| 12" | New | S.S. Rod Base Screen | 520-460 .035 |
| 12" | New | 308 Stainless Steel | 460-450 .375 |
| 12" | New | S.S. Rod Base Screen | 450-400 .035 |
| 12" | New | Die-Elec. Coup. S.S./Grade B | 400-398.5 .375 |
| 12x18" | New | Grade B Steel | 398.5-397 .500 |
| 18" | New | A53 Grade B Mild Steel | 397-317 .500 |
| 18" | New | A53 Grade B Mild Steel | 317-+2 .375 |

| | | |
|-----|-----|-----------------------|
| 456 | 460 | Sandy shale w/lignite |
| 460 | 548 | Lt. grey sand |
| 548 | 552 | Sandy shale w/lignite |
| 552 | 580 | Lt. grey sand |
| 580 | 598 | Sandy shale w/lignite |
| 598 | 650 | Lt. grey sand |

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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 #167130

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | San Antonio Water Systems | Owner Well #: | SW PO-4 |
| Address: | 2800 U.S. Hwy 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 3390 Hardy Rd. Elmendorf, TX 78112 | Latitude: | 29° 08' 26" N |
| Well County: | Bexar | Longitude: | 098° 25' 03" W |
| | | Elevation: | 601 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Rig Supply |

Drilling Start Date: 11/19/2008 Drilling End Date: 12/1/2008

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 20 | 0 | 17 |
| | 12.25 | 17 | 362 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|------------|
| Filter Pack Intervals: | 270 | 362 | Gravel | 3/8 gravel |

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 5 | 5 sks. cmt. |
| | 5 | 270 | 47 sks grout |
| | 270 | 362 | 57 sks. gravel |

Seal Method: **External pressure tremmie**

Sealed By: **Alsay Inc.**

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

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

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

Method of Verification: **Tape**

Surface Completion: **Alternative Procedure Used**

Water Level: **177 ft. below land surface on 2008-12-01** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **Jetted** **Yield: 80 GPM with 12 ft. drawdown after 4 hours**

Plug Information:

| Description (number of sacks & material) | Top Depth (ft.) | Bottom Depth (ft.) |
|--|-----------------|--------------------|
| 4-350 350-4 43 sks. cmt. | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 310 | Carrizo |

Chemical Analysis Made: Yes

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

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

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

Driller Name: **Brian K. Hillard** License Number: **54916**Apprentice Name: **John R. De La Paz** Apprentice Number: **57741**Comments: **No Data**

Lithology:

DESCRIPTION & COLOR OF FORMATION MATERIAL

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---------------------------|
| 0 | 4 | fine tan sand |
| 4 | 17 | brown,red & white clay |
| 17 | 18 | red gravel |
| 18 | 30 | brown & red clay |
| 30 | 40 | brown & red clay |
| 40 | 70 | brown & red clay w/gravel |
| 70 | 90 | dark grey shale |
| 90 | 100 | lt. grey shale |
| 100 | 130 | lt. grey shale & tan sand |
| 130 | 210 | fine grey sand w/ lig. |
| 210 | 240 | grey sandy shale |
| 240 | 295 | lt. grey sand |
| 295 | 306 | sandy shale w/lignite |
| 306 | 362 | lt. grey sand |

Casing:

BLANK PIPE & WELL SCREEN DATA

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------------------|-----------------------|
| 14" | New | Grade B Mild Steel | 0-17 .250 |
| 5" | New | Pvc Certa-Lock | 350-340 Sdr-17 |
| 5" | New | Pvc Mill-Slotted Screen | 340-310 .035 |
| 5" | New | Pvc Certa-Lock | 310-+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 #170263

| | | | |
|----------------|---|---------------|--------------------------------|
| Owner: | San Antonio Water System | Owner Well #: | P05 |
| Address: | 2800 U.S. Hwy. 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 3763 Hardy Rd. Elmendorf, TX 78112 | Latitude: | 29° 08' 41" N |
| Well County: | Bexar | Longitude: | 098° 25' 34" W |
| | | Elevation: | 530 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Public Supply |

Drilling Start Date: **12/17/2008**

Drilling End Date: **1/8/2009**

Plans Approved by TCEQ - **YES**

| Borehole: | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| | 36 | 0 | 40 |
| | 24 | 40 | 519 |
| | 8.75 | 40 | 570 |

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

Borehole Completion: **Filter Packed; Straight Wall**

| Filter Pack Intervals: | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|------------------------|---------------------------|------------------------|--------------|
| | 370 | 519 | Gravel | 12/20 |

| Annular Seal Data: | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| | 0 | 366 | 388 sks cmt |
| | 366 | 370 | 10 sks sand |
| | 370 | 519 | 11 bgs gravel |

Seal Method: **External pressure tremmie**

Distance to Property Line (ft.): **110**

Sealed By: **Schlumberger**

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

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

Method of Verification: **Tape**

Surface Completion: **Unknown**

Water Level: **178 ft. below land surface on 2009-03-02** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible**

Well Tests: **Pump** Yield: **1400 GPM with 42.06 ft. drawdown after 24 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 397 | Carrizo |

Chemical Analysis Made: Yes

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

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

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

Driller Name: **Brian K. Hillard**

License Number: **54916**

Apprentice Name: **John D. Wilkins**

Apprentice Number: **56877**

Comments: **Steven Baguley 58223**
Jason Woodley 58234

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|------------------------------|
| 0 | 5 | Tan sand |
| 5 | 15 | Brown clay |
| 15 | 39 | Brown & red clay |
| 39 | 40 | Purple clay |
| 40 | 50 | Sandy lt. tan clay |
| 50 | 110 | Tan sand |
| 110 | 130 | Sandy shale w/lignite |
| 130 | 150 | Tan sand w/lignite |
| 150 | 165 | Sandy shale |
| 165 | 235 | Grey sand |
| 235 | 250 | Grey sandy shale |
| 250 | 335 | Grey sand |
| 335 | 355 | Grey shale w/lignite |
| 355 | 502 | Lt. grey sand |
| 502 | 540 | Grey sand w/grey sandy shale |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------------|-----------------------|
| 12" | New | 308 stainless steel | 510-500 .375 |
| 12" | New | S.S. rod base screen | 500-397 .035 |
| 12" | New | Die-electric coupling | 397-395.5 .375 |
| 12x18" | New | Grade B mild steel | 395.5-394 .500 |
| 18" | New | A53 grade B mild steel | 394-314 .500 |
| 18" | New | A53 grade B mild steel | 314-+3 .375 |
| 30" | New | Grade B mild steel | 0-42 .312 |

| | | |
|-----|-----|----------------|
| 540 | 570 | Fine grey sand |
|-----|-----|----------------|

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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 #174742

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | San Antonio Water System | Owner Well #: | P07 SW |
| Address: | 2800 U.S. Hwy 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 26866 Campbelton Rd. San Antonio, TX 78264 | Latitude: | 29° 07' 47" N |
| Well County: | Bexar | Longitude: | 098° 26' 01" W |
| | | Elevation: | 526 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Rig Supply |

Drilling Start Date: 12/8/2008 Drilling End Date: 12/21/2008

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 18 | 0 | 17 |
| | 12.25 | 17 | 457 |
| | 8.75 | 17 | 460 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed; Straight Wall

| Filter Pack Intervals: | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|------------|
| | 370 | 457 | Gravel | 3/8 gravel |

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | 0 | 17 | 21 sks cmt |
| | 17 | 370 | 132 sks grout |

Seal Method: External pressure tremmie

Sealed By: Driller

Distance to Property Line (ft.): 200

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Tape

Surface Completion: Alternative Procedure Used

Water Level: 178 ft. below land surface on 2008-12-21 Measurement Method: Unknown

Packers: No Data

Type of Pump: No Data

Well Tests: Jetted Yield: 45 GPM with 12 ft. drawdown after 4 hours

Plug Information:

| <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|---|------------------------|---------------------------|
| 3-400' 72 sacks cement from 450'-3' | | |

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 400 | Carrizo |

Chemical Analysis Made: **Yes**

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

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

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

Driller Name: **Brian K. Hillard** License Number: **54916**

Apprentice Name: **John R. De La Paz** Apprentice Number: **57741**

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 | 5 | Dark brown surface |
| 5 | 10 | Dark brown clay |
| 10 | 16 | Brown & yellow clay |
| 16 | 60 | Dark brown & yellow clay |
| 60 | 105 | Dark grey clay |
| 105 | 130 | Grey shale |
| 130 | 150 | Tan sand |
| 150 | 310 | Lt. grey sand |
| 310 | 340 | Sandy grey shale w/lignite |
| 340 | 384 | Grey sand w/grey shale |
| 384 | 460 | Course lt. grey sand |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|---------------------------|------------------------------|
| 5" | New | Pvc | 450-440 Sdr-17 |
| 5" | New | Pvc Slotted Screen | 440-400 .032 |
| 5" | New | Pvc | 400-+3 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 #174773

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | San Antonio Water System | Owner Well #: | P07 |
| Address: | 2800 U.S. Hwy 281 North San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 26866 Campbellton Rd. San Antonio, TX 78264 | Latitude: | 29° 07' 47" N |
| Well County: | Bexar | Longitude: | 098° 26' 02" W |
| | | Elevation: | 536 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Public Supply |

Drilling Start Date: 2/23/2009

Drilling End Date: 3/12/2009

Plans Approved by TCEQ - YES

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 36 | 0 | 40 |
| 24 | 40 | 580 |
| 8.75 | 40 | 640 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed; Straight Wall

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 375 | 580 | Gravel | 8/16 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 370 | 420 sks cmt |
| 370 | 375 | 22 sks sand |
| 375 | 580 | 13.25bgs gravel |

Seal Method: External pressure tremmie

Distance to Property Line (ft.): 173

Sealed By: Schlumberger

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Tape

Surface Completion: Unknown

Water Level: 181 ft. below land surface on 2009-03-30 Measurement Method: Unknown

Packers: No Data

Type of Pump: No Data

Well Tests: Pump Yield: 1450 GPM with 23 ft. drawdown after 24 hours

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 384 | Carrizo |

Chemical Analysis Made: **Yes**

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

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

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

Driller Name: **Brian K. Hillard**

License Number: **54916**

Apprentice Name: **John D. Wilkins**

Apprentice Number: **56877**

Comments: **Jason Woodlee-58234**
Steven Baguley-58223

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 5 | Dark brown surface |
| 5 | 10 | Dark brown clay |
| 10 | 16 | Brown & yellow clay |
| 16 | 60 | Dark brown & red clay |
| 60 | 105 | Dark grey clay |
| 105 | 130 | Grey shale |
| 130 | 150 | Tan sand |
| 150 | 310 | Lt. grey sand |
| 310 | 340 | Sandy grey shale w/lignite |
| 340 | 384 | Grey sand w/grey shale |
| 384 | 572 | Course lt. grey sand |
| 572 | 582 | Sandy shale |
| 582 | 640 | Fine dark grey sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------------------------|-----------------------|
| 12" | New | Stainless Steel | 570-560 .375 |
| 12" | New | Stainless Steel Rod Base Screen | 560-420 .045 |
| 12" | New | Die-Electric Coupling | 420-418.5 .375 |
| 12"x18" | New | Grade B Mild Steel | 418.5-417 .500 |
| 18" | New | A-53 Grade B Steel | 417-337 .500 |
| 18" | New | A-53 Grade B Steel | 337-+3 .375 |
| 30" | New | Grade B Steel | 0-40 .312 |

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 #177419

| | | | |
|----------------|--|---------------|----------------|
| Owner: | J.T. Shoupe | Owner Well #: | 2 |
| Address: | 26860 Campbelton Rd. Lot #1 San Antonio, TX 78264 | Grid #: | 68-53-8 |
| Well Location: | 26860 Campbelton Rd. Lot #1 San Antonio, TX 78264 | Latitude: | 29° 07' 52" N |
| Well County: | Bexar | Longitude: | 098° 25' 56" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 4/22/2009 Drilling End Date: 4/29/2009

| | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| Borehole: | 18 | 0 | 17 |
| | 12.25 | 17 | 413 |
| | 8.75 | 17 | 550 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed; Straight Wall

| | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|------|
| Filter Pack Intervals: | 314 | 413 | Gravel | 8/16 |

| | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| Annular Seal Data: | 0 | 20 | 27 sks cmt |
| | 20 | 309 | 80 sks cmt |
| | 309 | 314 | 5 sks cmt |

Seal Method: External pressure tremmie

Distance to Property Line (ft.): 80

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: | 171.7 ft. below land surface on 2009-04-30 | Measurement Method: | Unknown |
| Packers: | No Data | | |
| Type of Pump: | Submersible | | |

Well Tests:

Pump

Yield: 48 GPM with 1.44 ft. drawdown after 1.10 hours

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 320 | Carrizo |

Chemical Analysis Made: Yes

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

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

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

Driller Name: **Brian K. Hillard** License Number: **54916**

Apprentice Name: **John D. Wilkins** Apprentice Number: **56877**

Comments: **Jason Woodlee-58234**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 20 | red clay |
| 20 | 50 | shale & sandstone |
| 50 | 84 | grey clay |
| 84 | 94 | grey sand |
| 94 | 120 | grey clay |
| 120 | 170 | grey sand w/lignite |
| 170 | 240 | sand & grey clay |
| 240 | 290 | grey sand |
| 290 | 320 | grey clay |
| 320 | 500 | med.-course grey sand |
| 500 | 550 | med.-fine grey sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|---------------------------------|-----------------------|
| 6" | New | Pvc 407-397 Sdr-17 | |
| 6" | New | Pvc slotted screen 397-357 .032 | |
| 6" | New | Pvc 357-+2 Sdr-17 | |
| 14" | New | Grade B steel 0-17 .250 | |

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 #218086

| | | | |
|----------------|----------------------------------|---------------|--------------------------------|
| Owner: | Emilio Garza | Owner Well #: | 1 |
| Address: | No Data | Grid #: | 68-53-8 |
| Well Location: | 16902 campbellton road TX | Latitude: | 29° 07' 44" N |
| | | Longitude: | 098° 26' 04" W |
| Well County: | Atascosa | Elevation: | 573 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **5/12/2010** Drilling End Date: **5/13/2010**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 350 |

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

Borehole Completion: **Unknown**

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

Seal Method: **Unknown**

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

Sealed By: **Unknown**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **152 ft. below land surface on 2010-05-14** Measurement Method: **Unknown**

Packers: **8" rubber packer at 305'**

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

Well Tests: **Jetted** Yield: **100 GPM with 0 ft. drawdown after unspecified hours**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| No Data | No Data |

Chemical Analysis Made: **No**

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

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

Company Information: **Lanceco Drilling Services**
4670 US Hwy 281 North
Pleasanton, TX 78064

Driller Name: **Scott Lawson**

License Number: **2637**

Apprentice Name: **Lance Reynolds**

Apprentice Number: **58233**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>From (ft)</i> | <i>To (ft)</i> | <i>Description</i> |
|------------------|----------------|--------------------|
| 0-150- | sand | |
| 150-155- | rock | |
| 155-310- | shale | |
| 310-350- | sand | |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------|------------------------------|
| 5" | new | PVC SDR17 | 0-310' |
| 5" | new | SDR 17 .020 | 310-350' |

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

STATE OF TEXAS WELL REPORT for Tracking #237811

| | | | |
|----------------|--|---------------|-------------------------|
| Owner: | Nathan Buchsenschutz | Owner Well #: | No Data |
| Address: | 26920 Campbellton Rd. San Antonio, TX 78264 | Grid #: | 68-53-8 |
| Well Location: | 26920 Campbellton Rd. San Antonio, TX 78264 | Latitude: | 29° 07' 41" N |
| Well County: | Bexar | Longitude: | 098° 26' 08" W |
| | | Elevation: | 613 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: 11/1/2010 Drilling End Date: 11/10/2010

| Borehole: | Diameter (in.) | Top Depth (ft.) | Bottom Depth (ft.) |
|-----------|----------------|-----------------|--------------------|
| | 18 | 0 | 18 |
| | 12.25 | 17 | 550 |
| | 8.75 | 17 | 610 |

Drilling Method: Mud (Hydraulic) Rotary

Borehole Completion: Filter Packed; Straight Wall

| Filter Pack Intervals: | Top Depth (ft.) | Bottom Depth (ft.) | Filter Material | Size |
|------------------------|-----------------|--------------------|-----------------|------|
| | 404 | 550 | Gravel | 8/16 |

| Annular Seal Data: | Top Depth (ft.) | Bottom Depth (ft.) | Description (number of sacks & material) |
|--------------------|-----------------|--------------------|--|
| | 0 | 18 | 10 sks cmt |
| | 18 | 399 | 68 sks grout |
| | 399 | 404 | 5 sks cement |

Seal Method: External pressure tremmie

Distance to Property Line (ft.): 150+

Sealed By: Alsay Inc.

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

Distance to Septic Tank (ft.): No Data

Method of Verification: Tape

Surface Completion: Surface Slab Installed

Water Level: 164.65 ft. below land surface on 2010-11-15 Measurement Method: Unknown

Packers: No Data

Type of Pump: Submersible Pump Depth (ft.): 320

Well Tests:

Pump

Yield: 41 GPM with 2.93 ft. drawdown after 1 hours

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 385 | Carrizo |

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: **Alsay Inc**
3359 S.E Loop 410
San Antonio, TX 78222

Driller Name: **Brian K. Hillard**License Number: **54916**Apprentice Name: **John De la paz**Apprentice Number: **57741**Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|---------------------------|
| 0 | 1 | surface sand |
| 1 | 17 | red clay |
| 17 | 25 | white clay w/sand |
| 25 | 48 | yellow clay w/red gravel |
| 48 | 63 | red & white clay w/gravel |
| 63 | 72 | dark grey clay |
| 72 | 73 | dark grey sandstone |
| 73 | 90 | dark grey clay |
| 90 | 91 | dark grey sandstone |
| 91 | 105 | light grey clay |
| 105 | 107 | grey sandstone |
| 107 | 111 | dark grey clay |
| 111 | 119 | dark grey sandstone |
| 119 | 163 | grey sandy shale |
| 163 | 256 | dark grey shale w/lignite |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------------------|-----------------------|
| 6" | New | Pvc casing | 545-540 Sdr-17 |
| 6" | New | Pvc mill slotted screen | 540-500 .032 |
| 6" | New | Pvc casing | 500-+18" Sdr-17 |

| | | |
|-----|-----|---------------------------|
| 256 | 327 | dark grey sand w/lignite |
| 327 | 339 | grey clay w/lignite |
| 339 | 385 | dark brown clay w/lignite |
| 385 | 458 | dark grey silica sand |
| 458 | 482 | med. grey sands w/lignite |
| 482 | 518 | course grey sand |
| 518 | 531 | med. grey sand |
| 531 | 546 | med. tan sand |
| 546 | 570 | grey & tan sand w/lignite |
| 570 | 610 | dark grey sand w/lignite |

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(512) 334-5540

STATE OF TEXAS WELL REPORT for Tracking #295595

Owner: **Layne / Christineson**

Owner Well #: **2 / Jasik Jimbo**

Address: **5061 Luckett Rd
Fort Myers, FL 33905**

Grid #: **68-53-8**

Well Location: **Mathis Rd
Elmendorf, TX 78112**

Latitude: **29° 08' 26" N**

Longitude: **098° 25' 40" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Rig Supply**

Drilling Start Date: **7/9/2012**

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

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 480 |

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: | 200 | 480 | Gravel | 8 - 12 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 10 | 4 Sks |

Seal Method: **Hand Mixed**

Distance to Property Line (ft.): **70**

Sealed By: **Moys**

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

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

Method of Verification: **Tape**

Surface Completion: **Surface Slab Installed**

Water Level: **255 ft. below land surface on 2012-07-17** 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 | Carrizo |

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: **Santiago Gonzales** 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 | 210 | Shale and Rks |
| 210 | 215 | Rk |
| 215 | 372 | Sand and Shale Strks |
| 372 | 386 | Shale |
| 386 | 480 | Sand and Strks of Shale |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|---|-----------------|-------------|------------------------------|
| 5 New Plastic Casing Blank 0 to 340 | | | |
| 5 New Plastic Factory Screen 340 to 480 .025 | | | |

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

STATE OF TEXAS WELL REPORT for Tracking #307999

| | | | |
|----------------|---|---------------|--------------------------------|
| Owner: | San Antonia Water Systems | Owner Well #: | SAWS BGD # 8 |
| Address: | 2800 North Hyw 281 San Antonia, TX 78212 | Grid #: | 68-53-9 |
| Well Location: | 26680 Mathis Road Elmendorf, TX 78112 | Latitude: | 29° 07' 58" N |
| Well County: | Bexar | Longitude: | 098° 24' 28" W |
| | | Elevation: | 505 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Public Supply |

Drilling Start Date: **7/12/2012**

Drilling End Date: **12/3/2012**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 22 | 0 | 1195 |
| 20 | 1195 | 1770 |
| 9.875 | 1770 | 1850 |

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

Borehole Completion: **Filter Packed; Under-reamed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 1195 | 1770 | Gravel | 16/30 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 1195 | 1655 Aw/6% |
| 0 | 60 | 130 |
| 1775 | 1850 | 50 |

Seal Method: **Halliburton**

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

Sealed By: **Treat Em Rite**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **132.62 ft. below land surface on 2012-11-20** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Turbine** Pump Depth (ft.): **550**

Well Tests:

Pump**Yield: 1413 GPM with 184.13 ft. drawdown after 1 hours**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 1201-1751 | Good |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Layne Christensen Company**

**5931 Brittmore Rd
Houston, TX 77041**

Driller Name: **Richard H Allbritton**License Number: **4633**Comments: **Replaces Tr.#305523 1/7/13 Ref.# 10924**

**Diamater of hole 36" from surface to 60 ft
Amended 2/20/14 Ref.# 11918**

Report Amended on by Request #11918

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--------------------------------------|
| 0 | 10 | sub sandy |
| 10 | 20 | black clay |
| 20 | 35 | sand |
| 35 | 90 | fine sand |
| 90 | 116 | blue clay sand streaks |
| 116 | 182 | fine sand shale streaks |
| 182 | 206 | grey clay, sandy streaks |
| 206 | 237 | grey sand |
| 237 | 285 | sand,lignite w/clay streaks |
| 285 | 301 | sand shale w/ lignite streaks |
| 301 | 331 | sand ,clay |
| 331 | 400 | sand |
| 400 | 430 | sand w/clay streaks |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-------------------------------------|------------------------------|
| 30" | New | Carbon Steel | 0 ft - 60 ft .375" |
| 16" | New | HSLA Carbon Steel | +2 ft - 1195 ft .437 |
| 10.75" | New | 1090 ft to 1200ft 316L SS | Blank |
| 10.75" | New | 1200 ft to 1240 ft. 316L SS | WW |
| 10.75" | New | 1240 ft. to 1246 ft. 316L SS | Blank |
| 10.75" | New | 1246 ft. to 1260 ft 316L SS | WW |
| 10.75" | New | 1260 ft. to 1278 ft, 316L SS | Blank |
| 10.75" | New | 1292 ft. to 1315 ft. 316L SS | Blank |
| 10.75" | New | 1315 ft. to 1336 ft. 316L SS | WW |
| 10.75" | New | 1336 ft. to 1357 ft. 316L SS | Blank |
| 10.75" | New | 1357 ft. to 1382 ft. 316L SS | WW |
| 10.75" | New | 1382 ft. to 1410 ft. 316L SS | Blank |
| 10.75" | New | 1410ft. To 1420 ft. 316L SS | WW |
| 10.75" | New | 1420 ft. to 1463 ft. 316L SS | Blank |

| | | |
|------|------|----------------------------|
| 430 | 793 | sand |
| 793 | 860 | sand , clay streaks |
| 860 | 890 | sand, limestone |
| 890 | 1015 | sand, clay |
| 1015 | 1133 | sand |
| 1133 | 1234 | sandy streaks w/ clay |
| 1234 | 1296 | sand |
| 1296 | 1389 | clay hard |
| 1389 | 1432 | sandy clay w/shale streaks |
| 1432 | 1433 | hard shale |
| 1433 | 1566 | grey sand |
| 1566 | 1708 | sand |
| 1708 | 1850 | sandy shale |

| |
|--|
| 10.75" New 1463 ft. to 1495 ft. 316L SSWW |
| 10.75" New 1495 ft. to 1515 ft. 316L SS Blank |
| 10.75" New 1515 ft. to 1530 ft. 316L SSWW |
| 10.75" New 1530 ft. to 1556`ft. 316L SS Blank |
| 10.75" New 1556 ft. to 1656 ft. 316L SSWW |
| 10.75" New 1656 ft. to 1668 ft. 316L SS Blank |
| 10.75" New 1668 ft. to 1750 ft. 316L SSWW |
| 10.75" New 1750 ft. to 1770 ft. 316L SS Blank |
| Note: All screens are .025 slot & blanks are .375" |

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 #310701

Owner: **Layne Christenson**
Address: **5061 Luckett Rd
Fort Myers, FL 33905**
Well Location: **Hardy Rd.
Elmendorf, TX 78113**
Well County: **Bexar**

Owner Well #: **4**
Grid #: **68-53-8**
Latitude: **29° 08' 38" N**
Longitude: **098° 25' 34" W**
Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Rig Supply**

Drilling Start Date: **1/18/2013**

Drilling End Date: **1/21/2013**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 7.875 | 0 | 460 |

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: | 360 | 460 | Gravel | .25 |

| | <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.): **1500**

Sealed By: **Moys**

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

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

Method of Verification: **Odom**

Surface Completion: **Surface Slab Installed**

Water Level: **150 ft. below land surface on 2013-01-21** 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: **Thomas Moy Jr.** License Number: **2570**

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

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 | 110 | Sand and Shale |
| 110 | 239 | Sand |
| 239 | 460 | Sand and Streaks of Shale |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|-------------------------------|------------------------------|
| 5" | New | Plastic Blank | 0-380 |
| 5" | New | Plastic Factory Screen | 380-460 .032 |

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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 #318440

| | | | |
|----------------|---|---------------|--------------------------------|
| Owner: | San Antonio Water Systems | Owner Well #: | 6 |
| Address: | 2800 North HWY 281 San Antonio, TX 78212 | Grid #: | 68-53-8 |
| Well Location: | 3990 Hardy Rd Elmendorf, TX 78112 | Latitude: | 29° 08' 27" N |
| | | Longitude: | 098° 25' 03" W |
| Well County: | Bexar | Elevation: | 554 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Public Supply |

Drilling Start Date: **12/3/2012**

Drilling End Date: **2/25/2013**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 22 | 0 | 933 |
| 20 | 933 | 1588 |
| 9.875 | 1588 | 1920 |

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

Borehole Completion: **Filter Packed; Under-reamed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 993 | 1588 | Gravel | 16/30 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 993 | 1000 A/6% gel |
| 0 | 59 | 108 |
| 1588 | 1920 | 45 |

Seal Method: **Positive Displacement**

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

Sealed By: **Allied**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

| | | | |
|---------------|---|---------------------|----------------|
| Water Level: | 139.2 ft. below land surface on 2013-02-26 | Measurement Method: | Unknown |
| Packers: | No Data | | |
| Type of Pump: | Turbine | Pump Depth (ft.): | 500 |

Well Tests:

Pump**Yield: 1005 GPM with 256.85 ft. drawdown after 48 hours**

Water Quality:

| <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
|---------------------------|-------------------|
| 993-1588 | Good |

Chemical Analysis Made: **Yes**

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

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

Company Information: **Layne Christensen**
5931 Brittmoore Rd.
Houston, TX 77041

Driller Name: **Charles H. Allbritton** License Number: **58158**

Comments: **Drilled 36" diameter hole from surface to 59 ft.**
Amended 2/20/14 Ref.# 11915
Amended 3/5/14 Ref.# 11948

Report Amended on by Request #11915

Report Amended on by Request #11948

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| <i>Top (ft.)</i> | <i>Bottom (ft.)</i> | <i>Description</i> |
|------------------|---------------------|--------------------------------------|
| 0 | 56 | Brwn clay and sand |
| 56 | 94 | Gray clay |
| 94 | 180 | fine sand w/ hard stringers |
| 180 | 270 | fine sand |
| 270 | 300 | Fine sand w/ clay |
| 300 | 360 | fine sand |
| 360 | 587 | fine sand w/lignite stringers |
| 587 | 695 | clay and lignite |
| 695 | 710 | sand hard w/shale |
| 710 | 720 | sandy clay w/lignite |
| 720 | 730 | sand gray |
| 730 | 803 | sandy clay w/lignite |

| <i>Dia. (in.)</i> | <i>New/Used</i> | <i>Type</i> | <i>Setting From/To (ft.)</i> |
|-------------------|-----------------|--------------------------|------------------------------|
| 30 | New | Carbon steel | 0-59 .375 |
| 16 | New | HSLA Carbon steel | +2-993 .437 |
| 10.75 | New | 316LSST blank | 900-998 .375 |
| 10.75 | New | 316LSST WWRB | 998-1018 .025 slot |
| 10.75 | New | 316LSST blank | 1018-1044 .375 |
| 10.75 | New | 316LSST WWRB | 1044-1066 .025 |
| 10.75 | New | 316LSST blank | 1066-1074 .375 |
| 10.75 | New | 316LSST WWRB | 1074-1102 .025 |
| 10.75 | New | 316LSST blank | 1102-1148 .375 |
| 10.75 | New | 316LSST WWRB | 1148-1160 .025 |
| 10.75 | New | 316LSST blank | 1160-1212 .375 |
| 10.75 | New | 316LSST WWRB | 1212-1272 .025 |
| 10.75 | New | 316LSST blank | 1272-1290 .375 |

| | | |
|------|------|---------------------------------|
| 803 | 860 | fine sand w/clay and lignite |
| 860 | 1008 | sandy clay |
| 1008 | 1209 | fine sand w/clay stringers |
| 1209 | 1213 | clay and shale |
| 1213 | 1284 | fine sand w/lignite stringers |
| 1284 | 1286 | sandstone hard |
| 1286 | 1291 | shale and sandy clay |
| 1291 | 1390 | fine sand w/clay streaks |
| 1390 | 1410 | clay gray |
| 1410 | 1425 | sandy clay |
| 1425 | 1440 | clay gray |
| 1440 | 1624 | fine sand gray / clay stringers |
| 1624 | 1627 | Sandstone |
| 1627 | 1646 | Sand gray |
| 1646 | 1659 | clay and shale |
| 1659 | 1669 | fine sand |
| 1669 | 1750 | clay w/sandy stringers |
| 1750 | 1796 | sand |
| 1796 | 1860 | shale and clay w/sandy streaks |
| 1860 | 1904 | sand |
| 1904 | 1920 | sand, clay hard |

| |
|--|
| 10.75 New 316LSST WWRB 1290-1300 .025 |
| 10.75 New 316LSST blank 1300-1324 .375 |
| 10.75 New 316LSST WWRB 1324-1374 .025 |
| 10.75 New 316LSST blank 1374-1416 .375 |
| 10.75 New 316LSST WWRB 1416-1424 .025 |
| 10.75 New 316LSST blank 1424-1444 .375 |
| 10.75 New 316LSST WWRB 1444-1486 .025 |
| 10.75 New 316LSST blank 1486-1514 .375 |
| 10.75 New 316LSST WWRB 1514-1545 .025 |
| 10.75 New 316LSST blank 1545-1554 .375 |
| 10.75 New 316LSST WWRB 1554-1568 .025 |
| 10.75 New 316LSST blank w/BBV 1568-1588 .375 |
| All screen is wire wrapped/rod based .375 w/0.025 slot |

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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 #323724

| | | | |
|----------------|--|---------------|--------------------------------|
| Owner: | San Antonio Water Systems | Owner Well #: | BGD #5 |
| Address: | San Antonio, TX | Grid #: | 68-53-8 |
| Well Location: | 3679 Hardy RD Elmendorf, TX 78112 | Latitude: | 29° 08' 40" N |
| Well County: | Bexar | Longitude: | 098° 25' 35" W |
| | | Elevation: | 651 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Public Supply |

Drilling Start Date: 1/30/2013

Drilling End Date: 3/19/2013

Plans Approved by TCEQ - YES

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 22 | 0 | 942 |
| 20 | 942 | 1490 |
| 9.875 | 1490 | 1750 |

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

Borehole Completion: **Filter Packed; Under-reamed**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|--------------|
| 842 | 1490 | Gravel | 16/30 |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 942 | 977 |
| 0 | 59 | 108 |
| 1490 | 1520 | 30 |

Seal Method: **Positive Displacement**

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

Sealed By: **Allied**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **141.71 ft. below land surface on 2013-04-23** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Turbine** Pump Depth (ft.): **500**

Well Tests:

Pump

Yield: 1005 GPM with 328.99 ft. drawdown after 48 hours

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 942-1490 | Good |

Chemical Analysis Made: Yes

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

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

Company Information: Layne Christensen
5931 Brittmoore Rd.
Houston, TX 77041

Driller Name: Charles H. Allbritton

License Number: 58158

Comments: Diameter of hole 36" 0 -59
Amended Ref#11914 2-19-14 ~DG

Report Amended on by Request #11914

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------------|
| 0 | 10 | SUB |
| 10 | 20 | Red clay |
| 20 | 35 | fine sand |
| 35 | 45 | red white clay |
| 45 | 60 | sandy clay |
| 60 | 95 | dark clay |
| 95 | 121 | fine sand / clay w/lignite |
| 121 | 200 | fine sand gray |
| 200 | 240 | coarse sand |
| 240 | 271 | gray clay/ red clay |
| 271 | 317 | fine sand |
| 317 | 517 | coarse sand w/lignite |
| 517 | 643 | coarse sand w/lignite |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-------------------|-----------------------|
| 30 | New | Carbon Steel | 0-59 .375 |
| 16 | New | HSLA Carbon steel | +2-942 .437 |
| 10.75 | New | 316LSST blank | 842-942 .375 |
| 10.75 | New | 316LSST blank | 942-948 .375 |
| 10.75 | New | 316LSST WWRB | 948-963 .025 |
| 10.75 | New | 316LSST blank | 963-991 .375 |
| 10.75 | New | 316LSST WWRB | 991-1043 .025 |
| 10.75 | New | 316LSST blank | 1043-1050 .375 |
| 10.75 | New | 316LSST WWRB | 1050-1060 .025 |
| 10.75 | New | 316LSST blank | 1060-1067 .375 |
| 10.75 | New | 316LSST WWRB | 1067-1076 .025 |
| 10.75 | New | 316LSST blank | 1076-1120 .375 |
| 10.75 | New | 316LSST WWRB | 1120-1155 .025 |
| 10.75 | New | 316LSST blank | 1155-1169 .375 |

| | | |
|------|------|-------------------------------------|
| 643 | 660 | fine sand |
| 660 | 675 | hard fractured sand |
| 675 | 698 | gray sand and clay |
| 698 | 710 | fine gray sand w/clay |
| 710 | 775 | fine sand and gray clay |
| 775 | 830 | sandy clay |
| 830 | 921 | clay and shale |
| 921 | 944 | gray shale |
| 944 | 984 | fine sand w/ shale and clay str. |
| 984 | 989 | shale / clay / lignite |
| 989 | 1017 | light tan sand |
| 1017 | 1021 | shale |
| 1021 | 1043 | fine sand / salt and pepper |
| 1043 | 1045 | sand stone |
| 1045 | 1056 | fine sand w/shale stringers |
| 1056 | 1060 | shale and clay |
| 1060 | 1071 | fine sand / clay and lignite str. |
| 1071 | 1076 | hard shale |
| 1076 | 1099 | fine shale / clay w/lignite str. |
| 1099 | 1145 | shale and lignite str. |
| 1145 | 1165 | fine sand w/ shale and lignite str. |
| 1165 | 1179 | hard shale / clay |
| 1179 | 1191 | fine sand with clay stringers |
| 1191 | 1244 | shale and clay w/sand stringers |
| 1244 | 1252 | fine tan / gray sand |
| 1252 | 1264 | sandy clay |
| 1264 | 1427 | fine sand / shale stringers |
| 1427 | 1490 | fine sand |
| 1490 | 1527 | shale and clay |
| 1527 | 1600 | fine sand w/shale stringers |
| 1600 | 1668 | gray clay |
| 1668 | 1672 | gray clay |
| 1672 | 1685 | sand / gray |
| 1685 | 1750 | gray clay |

| |
|--|
| 10.75 New 316LSST WWRB 1169-1175 .025 |
| 10.75 New 316LSST blank 1175-1235 .375 |
| 10.75 New 316LSST WWRB 1235-1258 .025 |
| 10.75 New 316LSST blank 1258-1290 .375 |
| 10.75 New 316LSST WWRB 1290-1307 .025 |
| 10.75 New 316LSST blank 1307-1323 .375 |
| 10.75 New 316LSST WWRB 1323-1339 .025 |
| 10.75 New 316LSST blank 1339-1378 .375 |
| 10.75 New 316LSST WWRB 1378-1402 .025 |
| 10.75 New 316LSST blank 1402-1425 .375 |
| 10.75 NEW 316LSST WWRB 1425-1470 .025 |
| 10.75 NEW 316LSST blank 1470-1490 .375 |
| 1470-1490 (15' blank + 5' DBPV) WWRB = wire wrap rod base |

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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 #378463

Owner: **San Antonio Water System**

Owner Well #: **See Comments**

Address: **1222 N Main Ste. 900E
San Antonio, TX 78212**

Grid #: **68-53-9**

Well Location: **Mathis Rd
Leming, TX**

Latitude: **29° 07' 51" N**

Longitude: **098° 24' 30" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Public Supply**

Replaced by Tracking # **621342**

Drilling Start Date: **4/8/2002**

Drilling End Date: **6/4/2002**

Plans Approved by TCEQ - **YES**

Borehole:

| <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------------------|------------------------|---------------------------|
| 30 | 0 | 60 |
| 26 | 0 | 685 |

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

Borehole Completion: **Filter Packed; Straight Wall**

Filter Pack Intervals:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Filter Material</i> | <i>Size</i> |
|------------------------|---------------------------|------------------------|-------------|
| 475 | 685 | Gravel | |

Annular Seal Data:

| <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|------------------------|---------------------------|---|
| 0 | 475 | 788 |

Seal Method: **Positive Displacement**

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

Sealed By: **Sowell Schlumberger**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **206 ft. below land surface on 2002-06-04** Measurement Method: **Unknown**

Packers: **n/a**

Type of Pump: **Turbine**

Well Tests: **Pump** **Yield: 1400 GPM with 26.6 ft. drawdown after 36 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: No

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

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

Company Information: Neil Rollie
6615 Gant
Houston, TX 77066

Driller Name: Neil Rollie License Number: 2048

Comments: Well No. Project #01-8608-206B, ASR #7
^EAD

Report Amended on 7/12/2017 by Request #22150

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------|
| 0 | 70 | yellow sandy clay |
| 70 | 98 | sand |
| 98 | 155 | gray shale w/lignite |
| 155 | 196 | sand |
| 196 | 250 | sandy shale (brown) |
| 250 | 270 | sand |
| 270 | 290 | sandy shale (brown) |
| 290 | 310 | sand |
| 310 | 330 | sandy shale |
| 330 | 386 | sand |
| 386 | 406 | sandy shale |
| 406 | 698 | sand |
| 698 | 702 | lignite |
| 702 | 748 | sand |
| 748 | 775 | sand w/lignite streak |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|-----------|-----------------------|
| 30" | N | Steel | 0'-60' .375 |
| 16" | N | Steel | +3'-510' .375 |
| 16" | N | SS Screen | 510'-685' .035 |

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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 #387738

Owner: **Stanley Jasik**

Owner Well #: **1A**

Address: **26660 Mathis
Elmendorf, TX 78112**

Grid #: **68-61-3**

Well Location: **26660 Mathis RD
Elmendorf, TX 78112**

Latitude: **29° 07' 28" N**

Longitude: **098° 24' 40" W**

Well County: **Bexar**

Elevation: **No Data**

Type of Work: **New Well**

Proposed Use: **Domestic**

Drilling Start Date: **1/21/2015**

Drilling End Date: **1/28/2015**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 13.75 | 0 | 570 |

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: | 375 | 570 | Gravel | 8/16 |

| | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| Annular Seal Data: | 0 | 20 | Cement |
| | 20 | 375 | Benseal |

Seal Method: **Unknown**

Distance to Property Line (ft.): **150+**

Sealed By: **C&C Groundwater
Services**

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

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

Method of Verification: **No Data**

Surface Completion: **Surface Slab Installed**

Water Level: **224 ft. below land surface on 2015-01-28** Measurement Method: **Unknown**

Packers: **No Data**

Type of Pump: **Submersible** Pump Depth (ft.): **360**

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

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | CARRIZO |

Chemical Analysis Made: Yes

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

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

Company Information: **C&C Groundwater Services LLC**
29143 Old Fredericksburg Road
Boerne, TX 78015

Driller Name: **Richard Kyle Courtney**

License Number: **2546**

Apprentice Name: **Alfonso Soto**

Apprentice Number: **57114**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|-----------------------------|
| 0 | 20 | Sand |
| 20 | 40 | Light Grey sand and clay |
| 40 | 70 | Yellow/Light grey clay |
| 70 | 85 | Red Course Sand/Yellow Clay |
| 85 | 110 | Yellow/Orange Clay |
| 110 | 130 | Lignite/Red Clay |
| 130 | 170 | Brown Clay |
| 170 | 190 | Grey Shale |
| 190 | 220 | Grey Shale/Ligt Grey Clay |
| 220 | 230 | Grey Shale/Lignite |
| 230 | 300 | Grey Shale |
| 300 | 310 | Grey Limestone |
| 310 | 390 | Grey Shale |
| 390 | 450 | Sandy Grey Shale |
| 450 | 470 | Fine Sandy Grey Shale |
| 470 | 570 | Coarse Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|--------------------------|-----------------------|
| 14" | new | steel surface casing | 0-21' |
| 6" | new | 6" SDR 17 Blank | 0-520' |
| 6" | new | SDR 17 Slotted .032 Slot | 520'-560' |
| 6" | NEW | 6" SDR 17 BLANK | 560'-565' |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

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

STATE OF TEXAS WELL REPORT for Tracking #387816

| | | | |
|----------------|--|---------------|--------------------------------|
| Owner: | STANLEY JASIK | Owner Well #: | 1 |
| Address: | 26660 Mathis Elmendorf, TX 78112 | Grid #: | 68-61-3 |
| Well Location: | 26660 Mathis RD Elmendorf, TX 78112 | Latitude: | 29° 07' 28" N |
| Well County: | Bexar | Longitude: | 098° 24' 40" W |
| | | Elevation: | 500 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **12/12/2014** Drilling End Date: **12/20/2014**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 12.75 | 0 | 620 |

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: | | | Gravel | 8/16 |

Annular Seal Data: **No Data**

Seal Method: **Not Applicable**

Sealed By: **Unknown**

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

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

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

Method of Verification: **No Data**

Surface Completion: **Unknown**

Water Level: **No Data**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

| | <i>Description (number of sacks & material)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-------------------|--|------------------------|---------------------------|
| Plug Information: | casing left in well and cemented to surface with 33 sacks of portland and 10 sacks quickcrete | | |

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| No Data | No Data |

Chemical Analysis Made: **Unknown**

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

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

Company Information: **C&C Groundwater Services LLC**
29143 Old FredeAricksburg Road
Boerne, TX 78015

Driller Name: **Richard Kyle Courtney** License Number: **2546**

Apprentice Name: **Alfonso Soto** Apprentice Number: **57114**

Comments: **Well collapsed at 247 feet so well was plugged**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| From (ft) | To (ft) | Description |
|-----------|---------|------------------------------|
| 0-20 | | Sand |
| 20-40 | | Light Grey Sand/Clay |
| 40-70 | | Yellow/Light Gray Clay |
| 70-85 | | Red Course Sand /Yellow Clay |
| 85-110 | | Yellow / Orange Clay |
| 110-130 | | Lignite/Red Clay |
| 130-170 | | Brown Clay |
| 170-190 | | Grey Shale |
| 190- 220 | | Grey Shale/ Light Grey Clay |
| 220-230 | | Grey Shale / Lignite |
| 230-300 | | Grey Shale |
| 300-310 | | Grey Limestone |
| 310-390 | | Grey Shale |
| 390-450 | | Sandy Grey Shale |
| 450-470 | | Fine Sandy Grey Shale |
| 470-620 | | Coarse Sand |

| Dia. (in.) | New/Used | Type | Setting From/To (ft.) |
|------------|----------|------------------|-----------------------|
| 6" | New | SDR 17 | 0-460 |
| 6" | New | SDR 17 Slot .032 | 460-510 |
| 6" | New | SDR 17 Blank | 510-515 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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

STATE OF TEXAS WELL REPORT for Tracking #460083

| | | | |
|----------------|--|---------------|--------------------------------|
| Owner: | RANDY THOMAS | Owner Well #: | No Data |
| Address: | 106 E. BONNER SAN ANTONIO, TX 78214 | Grid #: | 68-53-8 |
| Well Location: | 27039 CAMPBELLTON LEMING, TX 78050 | Latitude: | 29° 07' 40" N |
| | | Longitude: | 098° 26' 05" W |
| Well County: | Bexar | Elevation: | 513 ft. above sea level |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **7/17/2017** Drilling End Date: **7/18/2017**

| | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| Borehole: | 8.75 | 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: | 110 | 360 | Gravel | 1/4 PEA |

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

Seal Method: **Hand Mixed**

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

Sealed By: **Driller**

Distance to Septic Field or other
concentrated contamination (ft.): **NO SEPTIC**

Distance to Septic Tank (ft.): **NO SEPTIC**

Method of Verification: **TAPE**

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

Water Level: **80 ft. below land surface on 2017-07-19** Measurement Method: **Sonic/Radar**

Packers: **WHOLE PLUG at 106 ft.**

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

Well Tests: **Jetted** **Yield: 30 GPM with 0 ft. drawdown after 1 hours**

Water Quality:

| Strata Depth (ft.) | Water Type |
|--------------------|------------|
| 120 - 250 | CARRIZZO |

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: **HERBOLD DRILLING**
6395 FM 467
SEGUIN, TX 78155

Driller Name: **GENE HERBOLD**

License Number: **4070**

Apprentice Name: **JON HERBOLD**

Apprentice Number: **59236**

Comments: **No Data**

Lithology:
DESCRIPTION & COLOR OF FORMATION MATERIAL

Casing:
BLANK PIPE & WELL SCREEN DATA

| Top (ft.) | Bottom (ft.) | Description |
|-----------|--------------|----------------------|
| 0 | 30 | TOP SOIL |
| 30 | 60 | BLUE SHALE |
| 60 | 110 | SAND STREAKS |
| 110 | 120 | SHALE |
| 120 | 250 | SAND |
| 250 | 300 | SHALE |
| 300 | 328 | SAND |
| 328 | 360 | SAND STREAKS & SHALE |

| Dia (in.) | Type | Material | Sch./Gage | Top (ft.) | Bottom (ft.) |
|-----------|--------|-------------------|-----------|-----------|--------------|
| 4.5 | | New Plastic (PVC) | SDR17 | 0 | 360 |
| 4.5 | Screen | New Plastic (PVC) | 16 | 300 | 360 |

IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

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STATE OF TEXAS WELL REPORT for Tracking #533883

| | | | |
|----------------|--|---------------|--------------------------|
| Owner: | Nell Broadbent | Owner Well #: | Broadbent-N1-ND |
| Address: | 26870 Campbelton Rd Elmendorf, TX 78112 | Grid #: | 68-53-8 |
| Well Location: | 26870 Campbelton Rd Elmendorf, TX 78112 | Latitude: | 29° 07' 45.98" N |
| Well County: | Bexar | Longitude: | 098° 25' 55.55" W |
| | | Elevation: | No Data |
| Type of Work: | New Well | Proposed Use: | Domestic |

Drilling Start Date: **11/18/2019** Drilling End Date: **11/22/2019**

| Borehole: | <i>Diameter (in.)</i> | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> |
|-----------|-----------------------|------------------------|---------------------------|
| | 15 | 0 | 20 |
| | 12.25 | 20 | 520 |
| | 8.75 | 520 | 550 |

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> |
|------------------------|------------------------|---------------------------|------------------------|-------------|
| | 380 | 510 | Gravel | |

| Annular Seal Data: | <i>Top Depth (ft.)</i> | <i>Bottom Depth (ft.)</i> | <i>Description (number of sacks & material)</i> |
|--------------------|------------------------|---------------------------|---|
| | 0 | 20 | Cement 10 Bags/Sacks |
| | 20 | 370 | Grout 84 Bags/Sacks |
| | 370 | 380 | Cement 5 Bags/Sacks |

Seal Method: **Tremie**

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

Sealed By: **Driller**

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

Distance to Septic Tank (ft.): **100**

Method of Verification: **Tape**

Surface Completion: **Surface Slab Installed**

Surface Completion by Driller

Water Level: **204 ft. below land surface, and 90 GPM** Measurement Method: **Electric Line**
artesian flow on **2019-11-27**

Packers: **No Data**

Type of Pump: **No Data**

Well Tests: **No Test Data Specified**

| | | |
|----------------|---------------------------|-------------------|
| Water Quality: | <i>Strata Depth (ft.)</i> | <i>Water Type</i> |
| | No Data | No Data |

Chemical Analysis Made: **No**

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

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

Company Information: **Alsay Inc**
3359 SE Loop 410
San Antonio, TX 78222

Driller Name: **Stuart Frassmann**

License Number: **59635**

Apprentice Name: **Joshua Donahue**

Apprentice Number: **59713**

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 | 5 | Top Sand |
| 5 | 16 | Red Clay |
| 16 | 25 | White Clay with Sand |
| 25 | 46 | Yellow Clay |
| 46 | 63 | Red Clay |
| 63 | 120 | Grey Clay |
| 120 | 121 | Rock |
| 121 | 180 | Shale |
| 180 | 198 | Sand |
| 198 | 260 | Shale |
| 260 | 315 | Sand |
| 315 | 340 | Shale |
| 340 | 390 | Brown Clay |
| 390 | 550 | Sand |

| <i>Dia (in.)</i> | <i>Type</i> | <i>Material</i> | <i>Sch./Gage</i> | <i>Top (ft.)</i> | <i>Bottom (ft.)</i> |
|------------------|---------------|--------------------------|---------------------|------------------|---------------------|
| 6 | Blank | New Plastic (PVC) | SDR 17 | 0 | 465 |
| 6 | Screen | New Plastic (PVC) | SDR 17 0.025 | 465 | 505 |
| 6 | Blank | New Plastic (PVC) | SDR 17 | 505 | 510 |

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(512) 334-5540**



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.33

2-Hr Peak Flow (MGD): 1.32

Estimated construction start date: February 2026

Estimated waste disposal start date: August 2026

B. Interim II Phase

Design Flow (MGD): 0.66

2-Hr Peak Flow (MGD): 2.64

Estimated construction start date: February 2027

Estimated waste disposal start date: August 2027

C. Final Phase

Design Flow (MGD): 0.99

2-Hr Peak Flow (MGD): 3.96

Estimated construction start date: February 2028

Estimated waste disposal start date: August 2028

D. Current Operating Phase

Provide the startup date of the facility:

Section 2. Treatment Process (Instructions Page 42)

A. Current Operating Phase

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

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

See Treatment Unit Sizing and Process Description Attachment

B. Treatment Units

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

Table 1.0(1) - Treatment Units

| Treatment Unit Type | Number of Units | Dimensions (L x W x D) |
|--|-----------------|------------------------|
| See Treatment Unit Sizing and Process Description Attachment | | |
| | | |
| | | |
| | | |
| | | |
| | | |

C. Process Flow Diagram

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

Attachment: Process Flow Diagram

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

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

- Latitude: 29.1307
- Longitude: -98.4212

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

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

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

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

disposal site.

Attachment: Site Drawing

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

The facility will serve the Saldana Development, a new subdivision in Bexar County, Texas.

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

Collection System Information

| Collection System Name | Owner Name | Owner Type | Population Served |
|------------------------|------------|------------|-------------------|
| | | | |
| | | | |
| | | | |
| | | | |

Section 4. Unbuilt Phases (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 5. Closure Plans (Instructions Page 44)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Section 6. Permit Specific Requirements (Instructions Page 44)

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

A. Summary transmittal

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

☐ Yes ☒ No

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

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

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

The buffer zone will be met by ownership

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

3. Grit disposal

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

☐ Yes ☒ No

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

Describe the method of grit disposal.

4. Grease and decanted liquid disposal

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

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

E. Stormwater management

1. Applicability

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

2. MSGP coverage

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

☐ Yes ☒ No

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

TXR05 _ or TXRNE

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

☐ Yes ☒ No

3. Conditional exclusion

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

☐ Yes ☒ No

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

4. Existing coverage in individual permit

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

☐ Yes ☒ No

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

5. Zero stormwater discharge

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

☐ Yes ☒ No

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

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

6. Request for coverage in individual permit

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

☐ Yes ☒ No

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

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

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the 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.

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.

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

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

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

☐ Yes ☒ No

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

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

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

| Pollutant | Average Conc. | Max Conc. | No. of Samples | Sample Type | Sample Date/Time |
|---|---------------|-----------|----------------|-------------|------------------|
| CBOD ₅ , mg/l | | | | | |
| Total Suspended Solids, mg/l | | | | | |
| Ammonia Nitrogen, mg/l | | | | | |
| Nitrate Nitrogen, mg/l | | | | | |
| Total Kjeldahl Nitrogen, mg/l | | | | | |
| Sulfate, mg/l | | | | | |
| Chloride, mg/l | | | | | |
| Total Phosphorus, mg/l | | | | | |
| pH, standard units | | | | | |
| Dissolved Oxygen*, mg/l | | | | | |
| Chlorine Residual, mg/l | | | | | |
| <i>E.coli</i> (CFU/100ml) freshwater | | | | | |
| Enterococci (CFU/100ml) saltwater | | | | | |
| Total Dissolved Solids, mg/l | | | | | |
| Electrical Conductivity, μ mohs/cm, † | | | | | |
| Oil & Grease, mg/l | | | | | |
| Alkalinity (CaCO ₃)*, mg/l | | | | | |

*TPDES permits only

†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: To be determined

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

Facility Operator's License Number: To be determined

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

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

Check all that apply. See instructions for guidance

- ☐ Design flow \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 Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

C. Sewage Sludge or Biosolids Management

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

permit will authorize all sewage sludge or biosolids management practices listed in the instructions. Rather indicate the management practice the facility plans to use.

Biosolids Management

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

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

D. Disposal site

Disposal site name: To be determined

TCEQ permit or registration number: To be determined

County where disposal site is located: To be determined

E. Transportation method

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

Name of the hauler: To be determined

Hauler registration number: To be determined

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:
Attachment:
- USDA Natural Resources Conservation Service Soil Map:
Attachment:
- Federal Emergency Management Map:
Attachment:
- Site map:
Attachment:

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

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

Attachment:

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

B. Temporary storage information

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

Nitrate Nitrogen, mg/kg:

Total Kjeldahl Nitrogen, mg/kg:

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

Phosphorus, mg/kg:

Potassium, mg/kg:

pH, standard units:

Ammonia Nitrogen mg/kg:

Arsenic:

Cadmium:

Chromium:

Copper:

Lead:

Mercury:

Molybdenum:

Nickel:

Selenium:

Zinc:

Total PCBs:

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

D. Site development plan

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

Attach the following documents to the application.

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

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment:

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

A. Additional authorizations

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

☐ Yes ☒ No

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

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment:

Section 14. Laboratory Accreditation (Instructions Page 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.

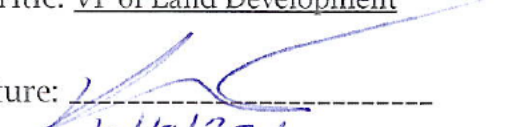
The following certification statement shall be signed and submitted with every application. See the Signature Page section in the Instructions, for a list of designated representatives who may sign the certification.

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: Richard Mott

Title: VP of Land Development

Signature: 

Date: 10/15/2024

DOMESTIC WASTEWATER PERMIT APPLICATION

TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

Saldana Development is currently planning 2,114 LUEs (250gpd/LUE) with amenities, and intends to add more phases to the development. Altogether, it is approximated to generate 990,000 gallons per day of domestic-strength wastewater at full build-out. There are no facilities within 3 miles that have capacity nor is it economically feasible to transport waste to an existing facility.

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☒ No ☐ Not Applicable

If yes, within the city limits of:

If yes, attach correspondence from the city.

Attachment:

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

Attachment:

2. *Utility CCN areas*

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

☐ Yes ☒ No

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

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

Attachment:

3. Nearby WWTPs or collection systems

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

☐ Yes ☒ No

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

Attachment:

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

Attachment:

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

Attachment:

Section 2. Proposed Organic Loading (Instructions Page 58)

Is this facility in operation?

☐ Yes ☒ No

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

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

A. Current organic loading

Facility Design Flow (flow being requested in application):

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

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

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

| |
|--|
| |
|--|

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

| Source | Total Average Flow (MGD) | Influent BOD ₅ Concentration (mg/l) |
|---|--------------------------|--|
| Municipality | | |
| Subdivision | 0.99 | 350 |
| Trailer park - transient | | |
| Mobile home park | | |
| School with cafeteria and showers | | |
| School with cafeteria, no showers | | |
| Recreational park, overnight use | | |
| Recreational park, day use | | |
| Office building or factory | | |
| Motel | | |
| Restaurant | | |
| Hospital | | |
| Nursing home | | |
| Other | | |
| TOTAL FLOW from all sources | 0.99 | |
| AVERAGE BOD ₅ from all sources | | 350 |

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

A. Existing/Interim I Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥ 2

Other:

B. Interim II Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥ 2

Other:

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l:

Total Phosphorus, mg/l:

Dissolved Oxygen, mg/l: ≥ 2

Other:

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1-4 mg/l after 10 minutes detention time at peak flow

Dechlorination process: OR

☒ Ultraviolet Light: 10 seconds contact time at peak flow

☐ Other:

Section 4. Design Calculations (Instructions Page 58)

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

Attachment: Design Calculations

Section 5. Facility Site (Instructions Page 59)

A. 100-year floodplain

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

☒ Yes ☐ No

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

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

FEMA Map Viewer: 48029C0745G

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

☐ Yes ☒ No

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

☐ Yes ☐ No

If **yes**, provide the permit number:

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

B. Wind rose

Attach a wind rose: Wind rose

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

B. Sludge processing authorization

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

- ☐ Sludge Composting
- ☐ Marketing and Distribution of sludge
- ☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: Solids Management Plan

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

- Treatment units and processes dimensions and capacities

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

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

DOMESTIC WASTEWATER PERMIT APPLICATION

WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 63)

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

☐ Yes ☒ No

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

Owner of the drinking water supply:

Distance and direction to the intake:

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

Attachment:

Section 2. Discharge into Tidally Affected Waters (Instructions Page 63)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

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

A. Receiving water outfall

Width of the receiving water at the outfall, in feet:

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

C. Sea grasses

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

☐ Yes ☐ No

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

Section 3. Classified Segments (Instructions Page 63)

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

☐ Yes ☒ No

If **yes**, this Worksheet is complete.

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

Section 4. Description of Immediate Receiving Waters (Instructions Page 63)

Name of the immediate receiving waters: West Lucas Creek, thence to Lucas Creek, thence to Borrego Creek, thence to Segment 2107 of the Lower Atascosa River

A. Receiving water type

Identify the appropriate description of the receiving waters.

☒ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres:

Average depth of the entire water body, in feet:

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify:

B. Flow characteristics

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

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

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

☐ Perennial - normally flowing

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

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify:

C. Downstream perennial confluences

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

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

E. Normal dry weather characteristics

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

Streambed is dry

Date and time of observation: January 2025, 9AM

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☒ No

Section 5. General Characteristics of the Waterbody (Instructions Page 65)

A. Upstream influences

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

- | | |
|---|--|
| <input type="checkbox"/> Oil field activities | <input type="checkbox"/> Urban runoff |
| <input type="checkbox"/> Upstream discharges | <input type="checkbox"/> Agricultural runoff |
| <input type="checkbox"/> Septic tanks | <input type="checkbox"/> Other(s), specify: |

B. Waterbody uses

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

- | | |
|--|--|
| <input type="checkbox"/> Livestock watering | <input type="checkbox"/> Contact recreation |
| <input type="checkbox"/> Irrigation withdrawal | <input type="checkbox"/> Non-contact recreation |
| <input type="checkbox"/> Fishing | <input type="checkbox"/> Navigation |
| <input type="checkbox"/> Domestic water supply | <input type="checkbox"/> Industrial water supply |
| <input type="checkbox"/> Park activities | <input type="checkbox"/> Other(s), specify: |

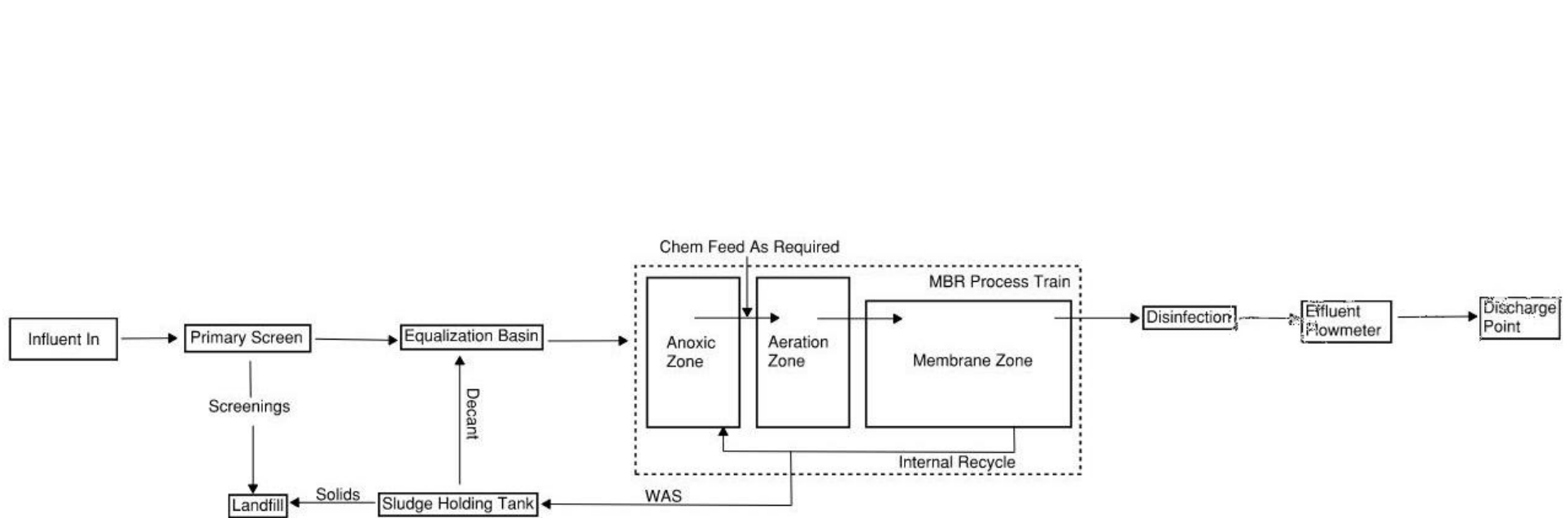
C. Waterbody aesthetics

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

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

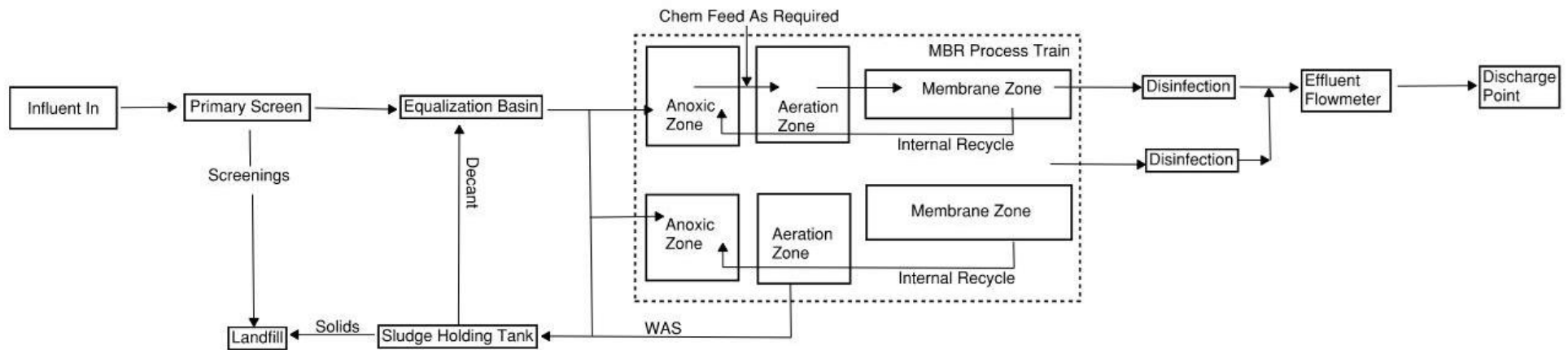
Saldana WWTF - Process Description

Phase 1 – 330,000 gpd



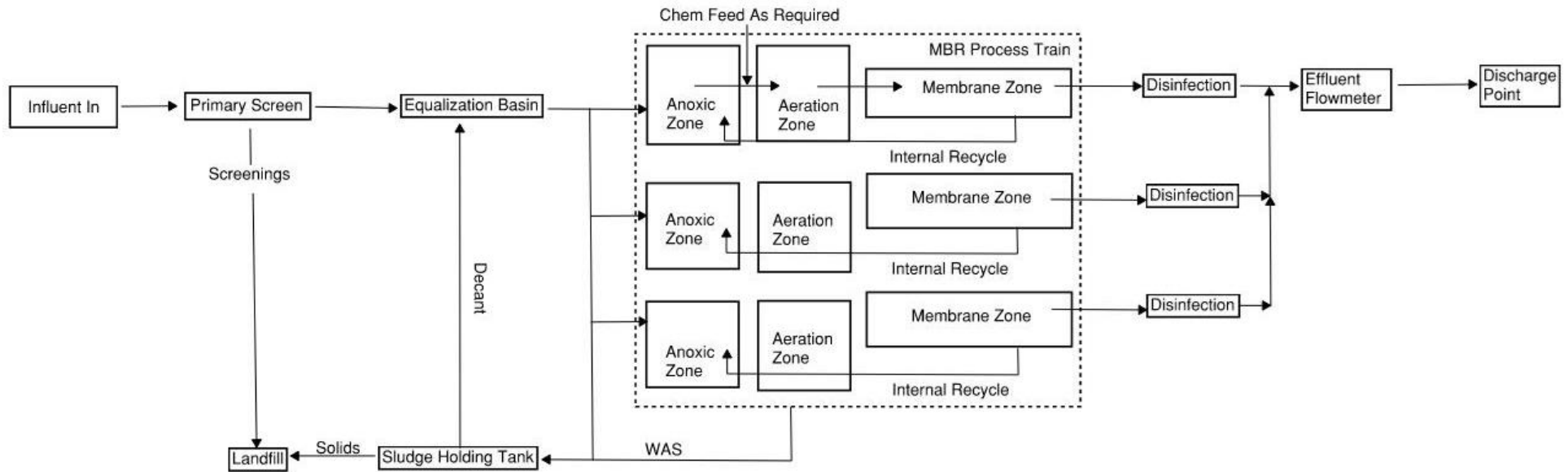
Saldana WWTF - Process Description

Phase 2 – 660,000 gpd



Saldana WWTF - Process Description

Final Phase – 990,000 gpd



Saldana WWTF – Treatment Unit Sizing and Process Description

Treatment Process Description

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

Treatment Unit Sizing

Phase 1 – 330,000 GPD

| | |
|--------------------------|---|
| Headworks with Screening | |
| Equalization Tank | (1) 18' wide x 50' long x 10.5' SWD – 70,686 gals |
| Sludge Holding Tank | (1) 25' dia x 18.5' tall – 67,892 gallons |
| Process Units (MBR) | (3) 38' x 25' x 8.5' SWD – 181,203 gallons |
| Chlorine Contact Chamber | (1) 12' x 25' x 8.5' SWD – 19,074 gallons |

Phase 2 – 660,000 GPD

| | |
|--------------------------|--|
| Headworks with Screening | |
| Equalization Tank | (2) 18' wide x 50' long x 10.5' SWD – 141,372 gals |
| Sludge Holding Tank | (2) 25' dia x 18.5' tall – 135,785 gallons |
| Process Units (MBR) | (6) 38' x 25' x 8.5' SWD – 362,406 gallons |
| Chlorine Contact Chamber | (2) 12' x 25' x 8.5' SWD – 38,148 gallons |

Final Phase – 990,000 GPD

| | |
|--------------------------|--|
| Headworks with Screening | |
| Equalization Tank | (3) 18' wide x 50' long x 10.5' SWD – 212,058 gals |
| Sludge Holding Tank | (3) 25' dia x 18.5' tall – 203,676 gallons |
| Process Units (MBR) | (9) 38' x 25' x 8.5' SWD – 543,609 gallons |
| Chlorine Contact Chamber | (3) 12' x 25' x 8.5' SWD – 57,222 gallons |

Saldana WWTF - Design Calculations

Phase 1

Flow 330,000 gpd
2 hr peak 1,320,000 gpd

Equalization Sizing Minimum
2.5Q for 2 hours 68,750 gal

Chlorine Sizing Minimum
4Q for 20 min 18,333 gal

Using 2% Flow for WAS Rate

WAS Rate 6,600 gpd

Sludge Storage Days 10 days
Sludge Holding Minimum 66,000 gal

Phase 2

Flow 660,000 gpd
2 hr peak 2,640,000 gpd

Equalization Sizing Minimum
2.5Q for 2 hours 137,500 gal

Chlorine Sizing Minimum
4Q for 20 min 36,667 gal

Using 2% Flow for WAS Rate

WAS Rate 13,200 gpd

Sludge Storage Days 10 days
Sludge Holding Minimum 132,000 gal

Final Phase

Flow 990,000 gpd
2 hr peak 3,960,000 gpd

Equalization Sizing Minimum
2.5Q for 2 hours 206,250 gal

Chlorine Sizing Minimum
4Q for 20 min 55,000 gal

Using 2% Flow for WAS Rate

WAS Rate 19,800 gpd

Sludge Storage Days 10 days
Sludge Holding Minimum 198,000 gal

Saldana WWTF - Design Calculations

| Bioreactor Calculation | | | | | | | |
|--|------------------------------|-------------------|--------------------|---------------------|------------------------------------|-------------------|---------|
| 1. Design Calculation | | | | | | | |
| 1.1 Influent (m3/day) | | | | 1.2 Factors | | | |
| Items | unit | m3/day | gal/day | Items | HRT | 19.0 | hr |
| | Average | 3,745 | 990,000 | | SRT | 25.0 | day |
| | | | | | C/N | 4.7 | |
| | Design Flow | 3,745 | 990,000 | | C/P | 29.6 | |
| | | | | | Temp | 20.0 | °C |
| | | | | | Sludge return | 250 | % |
| 1.3 Influent Quality | | | | | | | |
| Items | BOD | COD _{Mn} | SS | T-N | T-P | E.coli. | Remarks |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (Count/mL) | |
| Water quality | 350.0 | 525.0 | 300.0 | 70.0 | 9.0 | 55000 | |
| 1.4 Influent and Effluent Water Quality | | | | | | | |
| Items | BOD | COD _{Mn} | SS | T-N | T-P | E.coli. | |
| | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (mg/L) | (Count/mL) | |
| Influent quality | 350.0 | 525.0 | 300.0 | 70.0 | 9.0 | 55,000 | |
| Effluent quality | 5.0 | 10.0 | 5.0 | 20.0 | 1.0 | 1.26 | |
| 1.5 Bioreactor Volume | | | | | | | |
| Items | Width | Length | Depth | Height | tank | Volume | HRT |
| | (mW) | (mL) | (mHe) | (mH) | (#) | (m ³) | (hr) |
| Anoxic | 2.4 | 12.0 | 2.2 | 2.3 | 2 | 124.1 | 7.9 |
| Oxic | 2.4 | 12.0 | 2.1 | 2.3 | 2 | 118.4 | 7.5 |
| MBR | 2.4 | 12.0 | 2.0 | 2.3 | 1 | 56.4 | 3.6 |
| Total | | | | | | 363.8 | 19.0 |
| Note: If bioreactor volume sizes are above the volume calculated by 30-40%, it will be okay. | | | | | | | |
| 1.6 Sludge Production | | | | 1.7 Air Requirement | | | |
| Items | Sludge (m ³ /day) | | Water contents (%) | Items | Oxic reactor (m ³ /min) | | 3.11 |
| | 6.0 | | 99.2 | | MBR (m ³ /min) | | 12.0 |

Saldana WWTF - Design Calculations

2 MASS BALANCE

(Q = 3,745 m³/day)

990,000 GPD

Temp.: 20 °C
68 F

| Influent | | |
|----------|--------|----------|
| Q | 3,745 | |
| BOD | 350.0 | 132.5 |
| COD | 525.0 | 198.7 |
| SS | 300.0 | 113.6 |
| T-N | 70.0 | 26.5 |
| T-P | 9.0 | 3.4 |
| E.Coli | 55,000 | Count/ml |

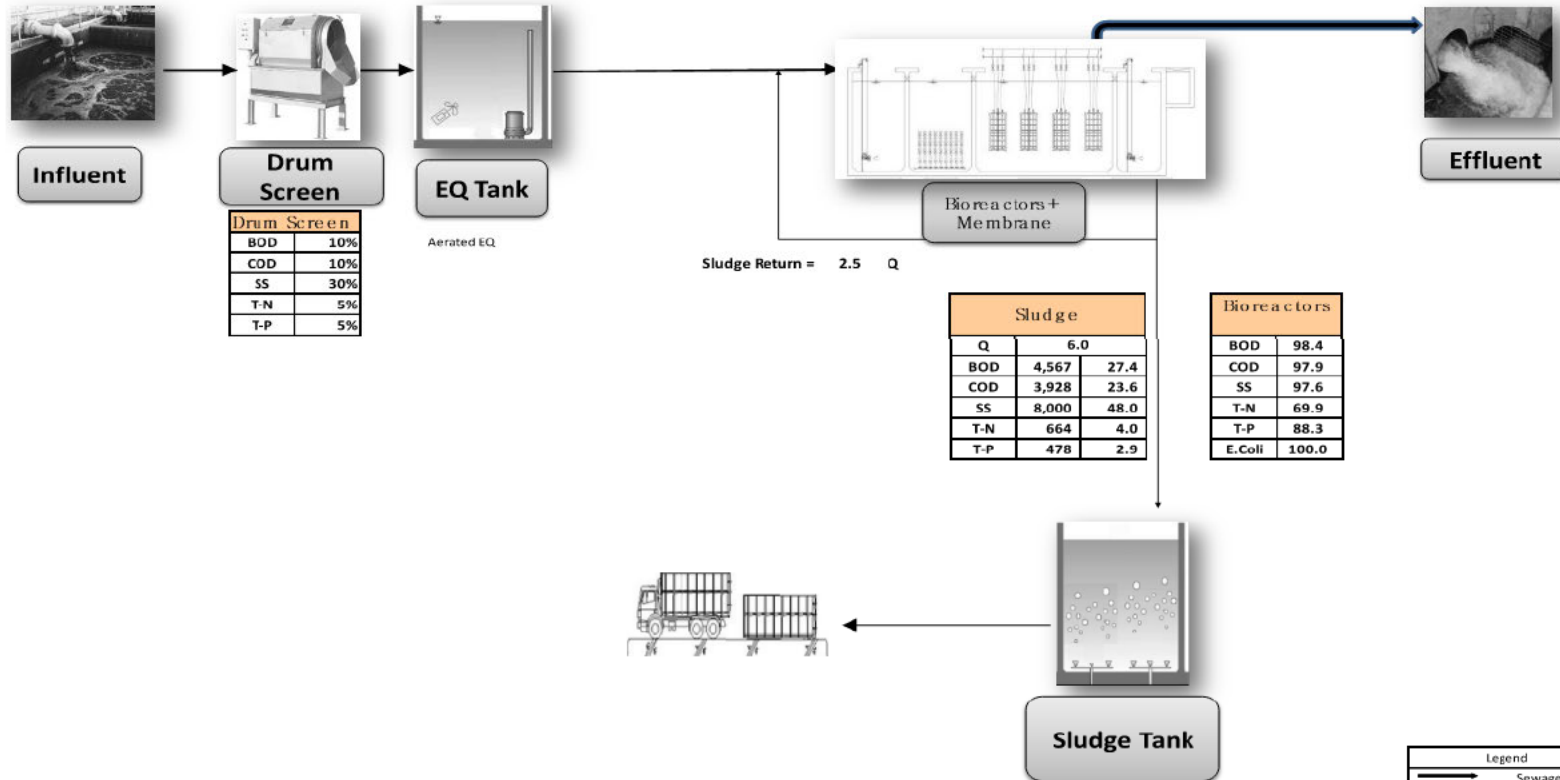
| EQ Tank | | |
|---------|--------|----------|
| Q | 3,745 | |
| BOD | 315.0 | 119.2 |
| COD | 472.5 | 178.8 |
| SS | 210.0 | 79.5 |
| T-N | 66.5 | 25.2 |
| T-P | 8.6 | 3.2 |
| E.Coli | 55,000 | Count/ml |

| Bioreactors | | |
|-------------|--------|----------|
| Q | 3,745 | |
| BOD | 315.0 | 119.2 |
| COD | 472.5 | 178.8 |
| SS | 210.0 | 79.5 |
| T-N | 66.5 | 25.2 |
| T-P | 8.6 | 3.2 |
| E.Coli | 55,000 | Count/ml |

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

| Effluent | | |
|----------|-------|----------|
| Q | 3,745 | |
| BOD | 5.0 | 1.9 |
| COD | 10.0 | 3.7 |
| SS | 5.0 | 1.9 |
| T-N | 20.0 | 7.5 |
| T-P | 1.0 | 0.4 |
| E.Coli | 1 | Count/ml |

| Reuse | | |
|--------|-------|----------|
| Q | 3,745 | |
| BOD | 5.0 | 1.9 |
| COD | 10.0 | 3.7 |
| SS | 5.0 | 1.9 |
| T-N | 20.0 | 7.5 |
| T-P | 1.0 | 0.4 |
| E.Coli | 1 | Count/ml |



Saldana WWTF - Design Calculations

| Items | Ranges | | | Design Values | Unit |
|---|--------|---|--------|---------------|--|
| Anoxic/Oxic MLSS (X_{TSR}) | 4,000 | ~ | 9,500 | 5,800 | mg/L |
| Oxic MLSS (X_{OX}) | 6,000 | ~ | 12,000 | 8,000 | mg/L |
| MLVSS/MLSS(X_V) | MLVSS | / | MLSS | 0.7 | |
| F/M ration | 0.01 | ~ | 0.30 | 0.06 | kgBOD/kgMLVSS-d |
| Sludge return (X_{r1}) | 50 | ~ | 400 | 250 | % |
| Sludge retention time (SRT) | 15 | ~ | 50 | 35.6 | day |
| Bio reactor temperature | 10 | ~ | 30 | 20 | °C |
| Bio reactor pH | 6.8 | ~ | 7.2 | 7.0 | |
| Dissolved Oxygen concentration (DO) | 2.0 | ~ | 5.0 | 2.0 | mg/L |
| Y(net), Sludge yield | 0.30 | ~ | 0.60 | 0.47 | mgVSS/mgBOD _{rem} |
| b, Sludge decay coefficient | 0.05 | ~ | 0.30 | 0.15 | day ⁻¹ |
| μ_{Nmv} , Max nitrifier production | 0.30 | ~ | 0.60 | 0.47 | day ⁻¹ |
| Y _N (net), Nitrifier yield | 0.10 | ~ | 0.30 | 0.20 | mgVSS/mgNH ₄ N _{rem} |
| K _o , O ₂ Half saturation coefficient | 0.40 | ~ | 0.60 | 0.50 | O ₂ mg/L |
| K _N NH ₄ -N Half saturation coefficient | 0.20 | ~ | 5.00 | 0.74 | NH ₄ -N mg/L |
| Membrane Flux | Design | | | 0.40 | m ³ /m ² ·d |
| | | | | 16.7 | LMH |
| | | | | 9.8 | GFD |
| SNR, Specific Nitrification Rate | Oxic | | | 2.70 | mgNH ₄ N/gMLVSS·hr |
| SDNR, Specific denitrification Rate | | | | 2.70 | mgNO ₃ N/gMLVSS·hr |
| SPUR | | | | 1.24 | mg P/gMLSS·hr |
| BOD/P _{rel} | | | | 12.0 | P releasing |
| BOD/No _x -N _{rem} | | | | 2.86 | Denitrification |
| N/VSS, Nitrogen % in Biomass | 5.00 | ~ | 12.0 | 12.0 | % |
| P/VSS, Phosphorus % in Biomass | 1.00 | ~ | 7.50 | 5.8 | P uptaking (%) |

Saldana WWTF – Solids Management Plan

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

- Phase 1 = 0.33 MGD
- Phase 2 = 0.66 MGD
- Final Phase = 0.99 MGD

Estimated solids generation is based on the below listed criteria:

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

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

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

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

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

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

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

Solids Generated at 100, 75, 50, and 25 percent Design Flow:

Phase 1: 0.33 MGD

100% Flow: Solids Generation = $(350 \text{ mg/l})(0.33\text{MGD})(8.34 \text{ lb/mg})(0.98) = 944 \text{ lb/day}$

75% Flow: Solids Generation = $(350 \text{ mg/l})(0.25\text{MGD})(8.34 \text{ lb/mg})(0.98) = 708 \text{ lb/day}$

50% Flow: Solids Generation = $(350 \text{ mg/l})(0.17\text{MGD})(8.34 \text{ lb/mg})(0.98) = 472 \text{ lb/day}$

25% Flow: Solids Generation = $(350 \text{ mg/l})(0.08\text{MGD})(8.34 \text{ lb/mg})(0.98) = 236 \text{ lb/day}$

Phase 2: 0.66 MGD

100% Flow: Solids Generation = $(350 \text{ mg/l})(0.66\text{MGD})(8.34 \text{ lb/mg})(0.98) = 1,888 \text{ lb/day}$

75% Flow: Solids Generation = $(350 \text{ mg/l})(0.50\text{MGD})(8.34 \text{ lb/mg})(0.98) = 1,416 \text{ lb/day}$

50% Flow: Solids Generation = $(350 \text{ mg/l})(0.33\text{MGD})(8.34 \text{ lb/mg})(0.98) = 944 \text{ lb/day}$

25% Flow: Solids Generation = $(350 \text{ mg/l})(0.17\text{MGD})(8.34 \text{ lb/mg})(0.98) = 472 \text{ lb/day}$

Saldana WWTF – Solids Management Plan

Final Phase: 0.99 MGD

100% Flow: Solids Generation = $(350 \text{ mg/l})(0.99\text{MGD})(8.34 \text{ lb/mg})(0.98) = 2,832 \text{ lb/day}$

75% Flow: Solids Generation = $(350 \text{ mg/l})(0.74\text{MGD})(8.34 \text{ lb/mg})(0.98) = 2,124 \text{ lb/day}$

50% Flow: Solids Generation = $(350 \text{ mg/l})(0.50\text{MGD})(8.34 \text{ lb/mg})(0.98) = 1,416 \text{ lb/day}$

25% Flow: Solids Generation = $(350 \text{ mg/l})(0.25\text{MGD})(8.34 \text{ lb/mg})(0.98) = 708 \text{ lb/day}$

Saldana WWTF - Buffer Zone Map



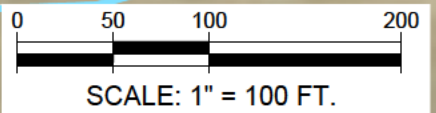
ACCESS ROAD

WWTF BOUNDARY

150' BUFFER ZONE

APPLICANT PROPERTY LINE

DISCHARGE POINT



Saldana WWTF - Site Map



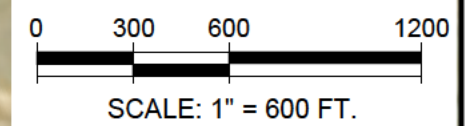
APPLICANT PROPERTY BOUNDARY

100 YEAR FLOODPLAIN

150' BUFFER ZONE

DISCHARGE POINT

WWTF BOUNDARY



Saldana WWTF - Original Photos Map



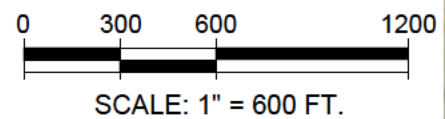
APPLICANT PROPERTY BOUNDARY

100 YEAR FLOODPLAIN

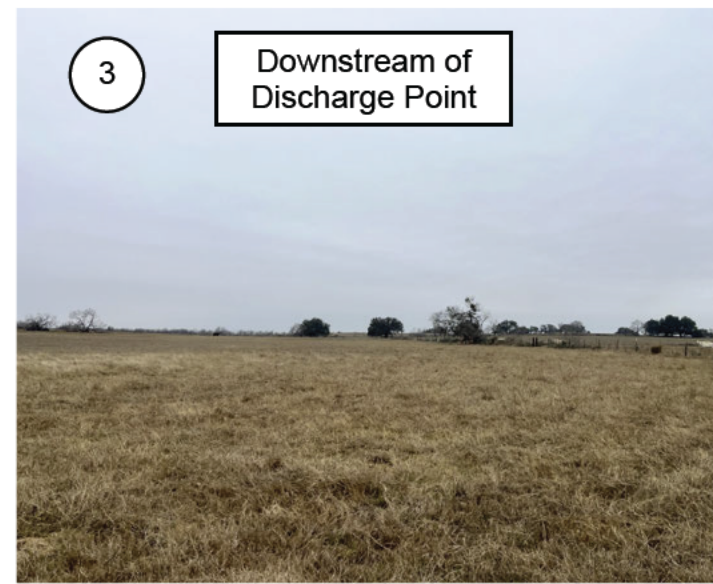
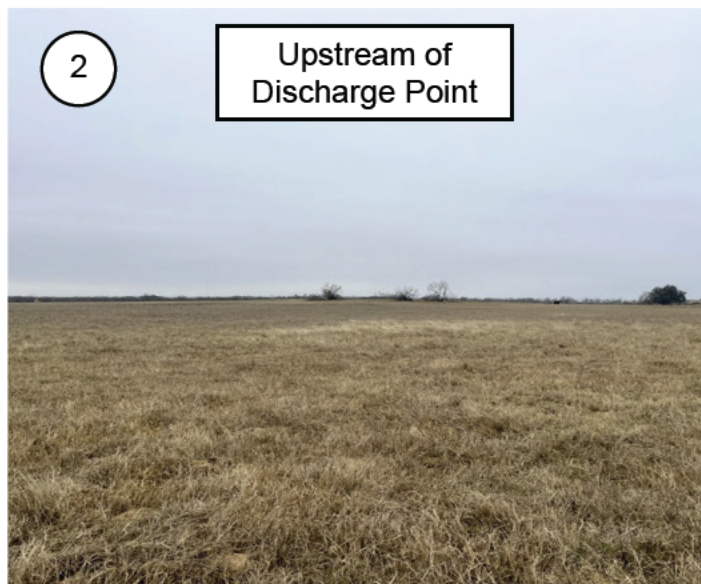
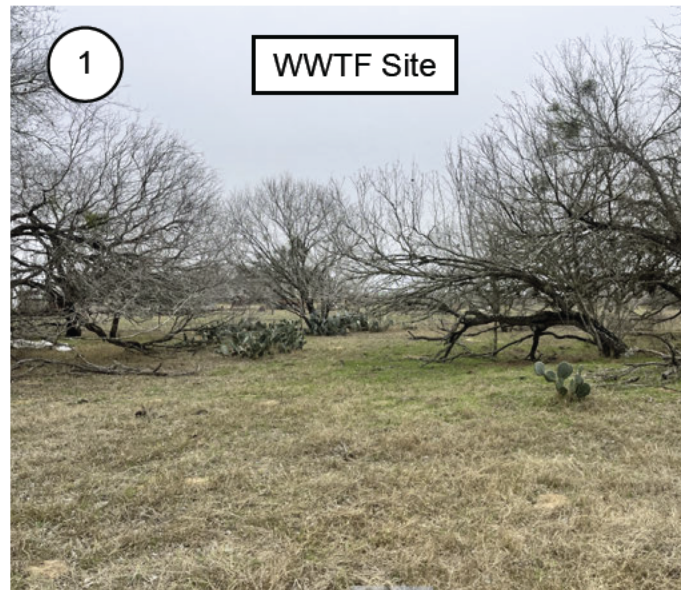
150' BUFFER ZONE

DISCHARGE POINT

WWTF BOUNDARY



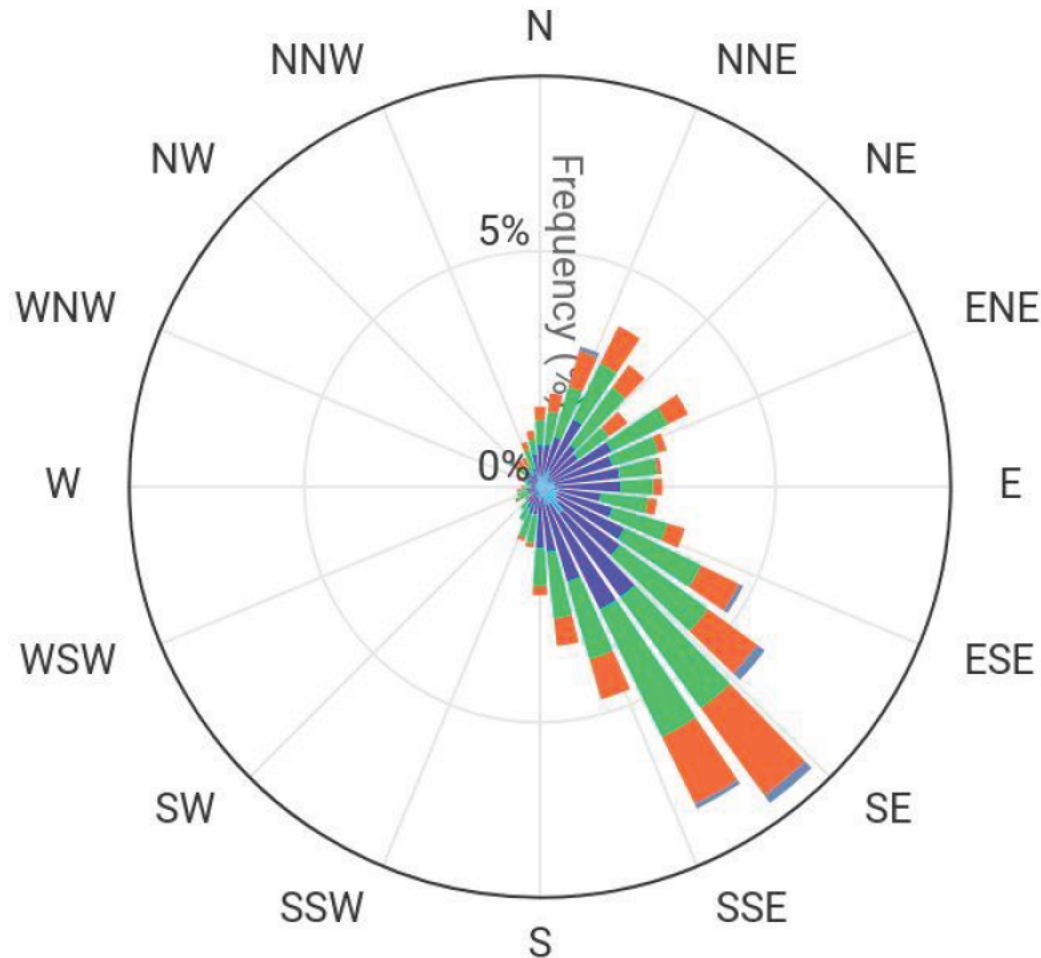
Saldana WWTF - Original Photos



SAN ANTONIO STINSON MUNICIPAL AP (TX) Wind Rose

January 01, 2024 - January 01, 2025

Sub-Interval: January 1 - December 31, 0 - 24



Wind Speed (mph)

