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

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Silver Crossing, LLC (CN606397990) proposes to operate the Silver Crossing Wastewater Treatment Plant (RN), an activated sludge domestic wastewater treatment facility. The facility will be located at approximately 3,300 feet southeast of the San Marcos Highway and Highway 142 intersection, in Martindale, Caldwell County, Texas 78655. This application is for a new authorization to discharge treated domestic wastewater at an average daily flow not to exceed 1,200,000 gallons per day.

Discharges from the facility are expected to contain five-day carbonaceous oxygen demand (CBOD5), Total Suspended Solids (TSS), Ammonia Nitrogen (NH3-N), Phosphorus (P), and Escherichia coli. Domestic Wastewater will be treated by an activated sludge process and the treatment units include a bar screen, influent equalization basins, aeration basins, clarifiers, chlorine contact basins, dechlorination, effluent filters, sludge dewatering, and sludge holding basins.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

Silver Crossing, LLC (CN606397990) propone operar la Planta de Tratamiento de Aguas Residuales de Silver Crossing (RN), una instalación de tratamiento de aguas residuales domésticas de lodos activados. La instalación estará ubicada en approximadamente 3,300 pies al sureste de la intersección de la autopista San Marcos y la autopista 142, en Martindale, Condado de Caldwell, Texas 78655. Esta solicitud es para una nueva autorización para descargar aguas residuales domésticas tratadas en un volumen que no exceda un flujo diario promedio que no exceda los 1,200,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxigeno carbonoso de cinco días ($CBOD_5$), y Solidos total suspendidos (TSS), y Nitrógeneo Amoniaco (NH3-N), Fósforo (P), y Escherichia coli. Las aguas residuales domesticas. estará tratado por una planta de processo de lodos activados, y las unidades de tratamiento incluyen una pantalla de barra, cuenca de ecualizacion de afluentes, y cuencas de aireación, y clarificadores, y cuencas de contacto con cloro, y decloracion, y filtros de efluentes, y deshidratación de lodos, y cuencas de retención de lodos.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PROPOSED PERMIT NO. WQ0016876001

APPLICATION. Silver Crossing, LLC, 8800 North Gainey Center Drive, Suite 345, Scottsdale, Arizona, 85258, has applied to the Texas Commission on Environmental Quality (TCEQ) for proposed Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0016876001 (EPA I.D. No. TX0148440) to authorize the discharge of treated wastewater at a volume not to exceed a daily average flow of 1,200,000 gallons per day. The domestic wastewater treatment facility will be located approximately 3,300 feet southeast of Highway 142, and San Marcos Highway, in the city of Martindale, in Caldwell County, Texas 78655. The discharge route will be from the plant site to Hemphill Creek; thence to Morrison Creek; thence to the Lower San Marcos River. TCEQ received this application on September 5, 2025. The permit application will be available for viewing and copying at Martindale Community Library, 1st Floor, 411 Main Street, Martindale, in Caldwell 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=-97.8312,29.8435&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 Silver Crossing, LLC at the address stated above or by calling Mr. Michael Bevilacqua, P.E., Senior Project Manager/Baxter & Woodman, at 737-358-8103.

Issuance Date: September 25, 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. WQ0016876001

SOLICITUD. Silver Crossing, LLC, 8800 North Gainey Center Drive, Suite 345, Scottsdale, Arizona, 85258, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016876001 (EPA I.D. No. TX 0148440) 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 1,200,000 galones por día. La planta estará ubicada aproximadamente a 3300 pies al sureste de la autopista 142 y la autopista San Marcos en la ciudad de Martindale en el Condado de Caldwell, Texas 78655. La ruta de descarga estará del sitio de la planta a Hemphill Creek; de allí a Morrison Creek; de allí al bajo rio San Marcos. La TCEQ recibió esta solicitud el 5 de septiembre de 2025. La solicitud para el permiso estará disponible para leerla y copiarla en Biblioteca Comunitaria de Martindale, 1.er piso, 411 Main Street, Martindale, Condado de Caldwell, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.
Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.8312,29.8435&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 del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Silver Crossing, LLC a la dirección indicada arriba o llamando a Michael Bevilacqua, P.E., Senior Project Manager/Baxter & Woodman al 737-358-8103.

Fecha de emisión: 25 de septiembre de 2025

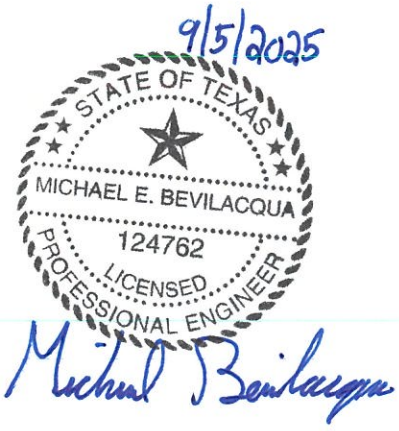
SILVER CROSSING, LLC
TCEQ TPDES PERMIT APPLICATION

SILVER CROSSING
WASTEWATER TREATMENT PLANT

Prepared by:

BAXTER & WOODMAN Consulting Engineers

TX Registered Engineering Firm F-21783
301 Denali Pass, Suite 3
Cedar Park, TX, 78613
(815) 459-1260



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BAXTER & WOODMAN
Consulting Engineers

September 5, 2025

TCEQ
Application Review and Processing Team (MC-158)
PO Box 13087
Austin, TX 78711

Re: New TPDES Permit Application
Silver Crossing, LLC
CN: 606397990
Silver Crossing Wastewater Treatment Plant

To Whom it May Concern,

The attached application is for a new TPDES permit for Silver Crossing LLC's proposed Silver Crossing Wastewater Treatment Plant (WWTP). The proposed WWTP is located in Caldwell County, approximately 3,300 feet southeast of the San Marcos Highway and Highway 142 intersection in Martindale, TX 78655. The proposed permit is for the treatment and discharge of up to 1.2 million gallons per day (MGD) of treated effluent in the final phase. Proposed effluent parameters are provided in the technical report. This new permit application also proposes to replace the nearby existing permit WQ0015918001.

If you have any questions, or need additional information, please do not hesitate to contact us. My email is mbevilacqua@baxterwoodman.com

Sincerely,

Michael Bevilaqua, P.E.
BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS

Texas Registered Engineering Firm F-21783

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: Silver Crossing, LLC

PERMIT NUMBER (If new, leave blank): WQ00Click to enter text.

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

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

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region_____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

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

Section 1. Application Fees (Instructions Page 26)

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

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

Minor Amendment (for any flow) $150.00 ☐

Payment Information:

Mailed — Check/Money Order Number: Click to enter text.

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: 782109 & 782110

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

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

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

d. Check the box next to the appropriate application type

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

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

f. For existing permits:

Permit Number: WQ00 Click to enter text.

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

Expiration Date: Click to enter text.

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

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

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

Silver Crossing, LLC

(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal documents forming the entity.)

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

CN: CN606397990

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: Ybarra, Anthony

Title: Authorized Signatory Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: Mr. Last Name, First Name: Bevilacqua, Michael

Title: Senior Project Manager Credential: P.E.

Organization Name: Baxter & Woodman

Mailing Address: 301 Denali Pass, Suite #3 City, State, Zip Code: Cedar Park, TX, 78613

Phone No.: 737-358-8103 E-mail Address: mbevilacqua@baxterwoodman.com

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: Mr. Last Name, First Name: Hughes, Taylor

Title: Development Associate Credential: Click to enter text.

Organization Name: Stafford Development

Mailing Address: 3736 Bee Caves Rd., Suite #1-122 City, State, Zip Code: West Lake Hills, TX 78746

Phone No.: 760-468-4421 E-mail Address: thughes@staffordcompany.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: Mr. Last Name, First Name: Stafford, Joe

Title: Manager Credential: Click to enter text.

Organization Name: Stafford Development

Mailing Address: 3736 Bee Caves Rd., Suit #1-122 City, State, Zip Code: West Lake Hills, TX,

78746

Phone No.: 512-751-7357 E-mail Address: joe@staffordcompany.com

B. Prefix: Mr. Last Name, First Name: Hughes, Taylor

Title: Development Associate Credential: Click to enter text.

Organization Name: Stafford Development

Mailing Address: 3736 Bee Caves Rd., Suite #1-122 City, State, Zip Code: West Lake Hills, TX 78746

Phone No.: 760-468-4421 E-mail Address: thughes@staffordcompany.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: Stafford, Joe

Title: Manager Credential: Click to enter text.

Organization Name: Stafford Development

Mailing Address: 3736 Bee Caves Rd., Suite #1-122 City, State, Zip Code: West Lake Hills, TX 78746

Phone No.: 512-751-7357 E-mail Address: joe@staffordcompany.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: Stafford, Joe

Title: Manager Credential: Click to enter text.

Organization Name: Stafford Development

Mailing Address: 3736 Bee Caves Rd., Suite #1-122 City, State, Zip Code: West Lake Hills, TX 78746

Phone No.: 512-751-7357 E-mail Address: joe@staffordcompany.com

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Bevilacqua, Michael

Title: Senior Project Manager Credential: P.E.

Organization Name: Baxter & Woodman

Mailing Address: 301 Denali Pass, Suite #3 City, State, Zip Code: Cedar Park, TX 78613

Phone No.: 737-358-8103 E-mail Address: mbevilacqua@baxterwoodman.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: Mr. Last Name, First Name: Bevilacqua, Michael

Title: Senior Project Manager Credential: P.E.

Organization Name: Baxter & Woodman

Mailing Address: 301 Denali Pass, Suite #3 City, State, Zip Code: Cedar Park, TX, 78613

Phone No.: 737-358-8103 E-mail Address: mbevilacqua@baxterwoodman.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: Martindale Community Library

Location within the building: 1st Floor

Physical Address of Building: 411 Main Street

City: Martindale County: Caldwell

Contact (Last Name, First Name): Guerrero, Ashley

Phone No.: 512-357-4492 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☐ No

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

   ☐ Yes ☐ No

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

F. 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: B

G. Public Involvement Plan Form

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

Attachment: C

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** Click to enter text.

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):

Silver Crossing Wastewater Treatment Facility

C. Owner of treatment facility: Silver Crossing, LLC

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

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

Prefix: Mr. Last Name, First Name: Ybarra, Anthony

Title: Authorized Signatory Credential: Click to enter text.

Organization Name: Walton Texas, LP

Mailing Address: 8800 N. Gainey Center Dr, Suite #345 Attn: Walton Global – Anthony Ybarra
City, State, Zip Code: Scottsdale, AZ 85258

Phone No.: 512-751-7357 E-mail Address: aybarra@walton.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: D

E. Owner of effluent disposal site:

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

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

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

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

Organization Name: Click to enter text.

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

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

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

Attachment: Click to enter text.

Section 10. TPDES Discharge Information (Instructions Page 31)

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

☐ Yes ☒ No

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

The wastewater treatment plant is located approximately 3,300 feet southeast of the San Marcos Highway and Highway 142 intersection.

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 route will be from the plant site, thence to Hemphill Creek, thence to Morrison Creek, thence to the Lower San Marcos River (Classified Segment #1808).

City nearest the outfall(s): Martindale

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

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

☐ Yes ☒ No

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

☐ Authorization granted ☐ Authorization pending

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

Attachment: Click to enter text.

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

Section 11. TLAP Disposal Information (Instructions Page 32)

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

☐ Yes ☐ No

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

Click to enter text.

B. City nearest the disposal site: Click to enter text.

C. County in which the disposal site is located: Click to enter text.

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

Click to enter text.

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

Section 12. Miscellaneous Information (Instructions Page 32)

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

☐ Yes ☒ No

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

☐ Yes ☐ No ☒ Not Applicable

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

Click to enter text.

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

☐ Yes ☒ No

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

D. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

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

Account number: Click to enter text.

Amount past due: Click to enter text.

E. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

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

Enforcement order number: Click to enter text.

Amount past due: Click to enter text.

Section 13. Attachments (Instructions Page 33)

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

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

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

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

☐ Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify: See Table of Contents.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: Click to enter text.

Applicant: Silver Crossing, LLC

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Silver Springs LLC, a Texas limited liability company
By: Walton International Group, Inc., a Nevada corporation
Its: Manager

Signatory name (typed or printed): Anothony Ybarra

Signatory title: Authorized Signatory

Signature: _____ Date: July 21, 2025

(Use blue ink)

Subscribed and Sworn to before me by the said Anthony Ybarra

on this 21st day of July, 20 25.

My commission expires on the 9 day of April, 20 25.

M. Desjardins

Notary Public

Notary Public State of Arizona
Maricopa County
Michelle Desjardins
My Commission Expires 4/9/2029
Commission Number 681174

[SEAL]

_____

County, Maricopa

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: Caldwell Country Appraisal

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

☐ Yes ☒ No

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

Click to enter text.

Section 2. Original Photographs (Instructions Page 38)

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

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

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

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

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

Section 3. Buffer Zone Map (Instructions Page 38)

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

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

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

☐ Ownership

☒ Restrictive easement

☐ Nuisance odor control

☐ Variance

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

☒ Yes ☐ No

DOMESTIC WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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

Attachment: F

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

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

Transaction Information

Trace Number:	582EA000683764
Date:	09/04/2025 01:31 PM
Payment Method:	CC - Authorization 0000215157
ePay Actor:	MICHAEL BEVILACQUA
Actor Email:	mbevilacqua@baxterwoodman.com
IP:	71.40.193.118
TCEQ Amount:	$2,050.00
Texas.gov Fee:	$46.38
Texas.gov Price:	$2,096.38*

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

Payment Contact Information

Name:	WILLIAM PENA
Company:	BAXTER AND WOODMAN
Address:	301 DENALI PASS SUITE 3, CEDAR PARK, TX 78613
Phone:	737-358-8101

Cart Items

Click on the voucher number to see the voucher details.

Voucher	Fee Description	AR Number	Amount
782109	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - NEW AND MAJOR AMENDMENTS		$2,000.00
782110	30 TAC 305.53B WQ NOTIFICATION FEE		$50.00
		TCEQ Amount:	$2,050.00

ePay Again | Exit ePay

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

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

Electronic Application Submittal ☒ Yes
(See application submittal requirements on page 23 of the instructions.)

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

Summary of Application (in Plain Language) ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): 0.395

2-Hr Peak Flow (MGD): 1.580

Estimated construction start date: 7/1/2026

Estimated waste disposal start date: 1/1/2027

B. Interim II Phase

Design Flow (MGD): 0.800

2-Hr Peak Flow (MGD): 3.200

Estimated construction start date: 5/1/2031

Estimated waste disposal start date: 12/1/2031

C. Final Phase

Design Flow (MGD): 1.200

2-Hr Peak Flow (MGD): 4.800

Estimated construction start date: 1/1/2034

Estimated waste disposal start date: 6/1/2034

D. Current Operating Phase

Provide the startup date of the facility: N/A – Proposed 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 Attachment K

B. Treatment Units

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

Table 1.0(1) - Treatment Units

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

C. Process Flow Diagram

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

Attachment: L

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

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

- Latitude: 29.8436
- Longitude: -97.8357

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: M

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

The treatment facility will serve the proposed Silver Crossing development and other surrounding areas. The development consists of residential and commercial development.

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

Collection System Information

Collection System Name	Owner Name	Owner Type	Population Served
Silver Crossing WW System	Silver Crossing, LLC	**Privately Owned**	**16,545**
		Choose an item.	
		Choose an item.	
		Choose an item.	

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**.

Click to enter text.

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.

Click to enter text.

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: Click to enter text.

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

Easement – See Attachment D

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☐ Yes ☒ No

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

2. *MSGP coverage*

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

Click to enter text.

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

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

☐ Yes ☒ No

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

Click to enter text.

5. ***Zero stormwater discharge***

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☐ Yes ☒ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l					
Total Suspended Solids, mg/l					
Ammonia Nitrogen, mg/l					
Nitrate Nitrogen, mg/l					
Total Kjeldahl Nitrogen, mg/l					
Sulfate, mg/l					
Chloride, mg/l					
Total Phosphorus, mg/l					
pH, standard units					
Dissolved Oxygen*, mg/l					
Chlorine Residual, mg/l					
E.coli (CFU/100ml) freshwater					
Entercocci (CFU/100ml) saltwater					
Total Dissolved Solids, mg/l					
Electrical Conductivity, µmohs/cm, †					
Oil & Grease, mg/l					
Alkalinity ($CaCO_3$)*, mg/l					

*TPDES permits only
†TLAP permits only

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

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

Section 8. Facility Operator (Instructions Page 49)

Facility Operator Name: N/A – Proposed Plant. Licensed operator will be used

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

Facility Operator's License Number: N/A – Proposed Plant

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

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

Check all that apply. See instructions for guidance

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

B. WWTP's Sewage Sludge or Biosolids Treatment Process

Check all that apply. See instructions for guidance.

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

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
Disposal in Landfill	Off-site Third-Party Handler or Preparer	Bulk		Class B: PSRP Aerobic Digestion	Option 5: Aerobic process for 14 days at >40C
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.
Choose an item.	Choose an item.	Choose an item.		Choose an item.	Choose an item.

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

D. Disposal site

Disposal site name: N/A – Proposed Facility. Permitted site will be used.

TCEQ permit or registration number: Click to enter text.

County where disposal site is located: Click to enter text.

E. Transportation method

Method of transportation (truck, train, pipe, other): N/A – Proposed Plant. Licensed Hauler will be used.

Name of the hauler: Click to enter text.

Hauler registration number: Click to enter text.

Sludge is transported as a:

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

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

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.
- Site map:

  Attachment: Click to enter text.

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

☐ Overlap a designated 100-year frequency flood plain

☐ Soils with flooding classification

☐ Overlap an unstable area

☐ Wetlands

☐ Located less than 60 meters from a fault

☐ None of the above

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

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

☐ Yes ☐ No

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

Click to enter text.

D. Site development plan

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

Click to enter text.

Attach the following documents to the application.

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

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

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

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

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

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

  Attachment: Click to enter text.

E. Groundwater monitoring

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

☐ Yes ☐ No

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

Attachment: Click to enter text.

Section 12. Authorizations/Compliance/Enforcement (Instructions Page 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:

Click to enter text.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☐ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 55)

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

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

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

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

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

Silver Springs LLC, a Texas limited liability company
By: Walton International Group, Inc., a Nevada corporation
Its: Manager

By:
Name: Anthony Ybarra
Title: Authorized Signatory

Date: July 21, 2025

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

The permit and WWTP are needed to serve the proposed development and surrounding areas. There are no other existing operating plants within 3 miles with the capacity to service the proposed development. This new permit will also replace the nearby existing permit WQ0015918001

B. Regionalization of facilities

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

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

1. *Municipally incorporated areas*

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

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

☐ Yes ☒ No ☐ Not Applicable

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

If yes, attach correspondence from the city.

Attachment: Click to enter text.

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

Attachment: Click to enter text.

2. *Utility CCN areas*

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

☐ Yes ☒ No

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

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

Attachment: Click to enter text.

3. Nearby WWTPs or collection systems

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

☒ Yes ☐ No

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

Attachment: O

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: O

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

Attachment: Click to enter text.

Section 2. Proposed Organic Loading (Instructions Page 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): Click to enter text.

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

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

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

Click to enter text.

B. Proposed organic loading

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

Table 1.1(1) – Design Organic Loading

Source	Total Average Flow (MGD)	Influent BOD5 Concentration (mg/l)
Municipality		
Subdivision	1.075	280
Trailer park – transient		
Mobile home park		
School with cafeteria and showers	0.075	500
School with cafeteria, no showers		
Recreational park, overnight use		
Recreational park, day use		
Office building or factory	0.025	280
Motel		
Restaurant	0.025	500
Hospital		
Nursing home		
Other		
TOTAL FLOW from all sources	1.200	
AVERAGE BOD_5 from all sources		298.3

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: 2

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

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: 2

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

C. Final Phase Design Effluent Quality

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

Total Suspended Solids, mg/l: 5

Ammonia Nitrogen, mg/l: 2

Total Phosphorus, mg/l: 0.5

Dissolved Oxygen, mg/l: 4

Other: Click to enter text.

D. Disinfection Method

Identify the proposed method of disinfection.

☒ Chlorine: 1 mg/l after 20 minutes detention time at peak flow

Dechlorination process: Chemical Injection

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

☐ Other: Click to enter text.

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: P

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.

Click to enter text.

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

Fema Firm Map. See Attachment Q.

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

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

B. Wind rose

Attach a wind rose: R

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)**: Click to enter text.

B. Sludge processing authorization

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

☐ Sludge Composting

☐ Marketing and Distribution of sludge

☐ Sludge Surface Disposal or Sludge Monofill

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

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

Attach a solids management plan to the application.

Attachment: S

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 it Section 2. **If yes**, provide the following:

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

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

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

Attachment: Click to enter text.

Section 2. Discharge into Tidally Affected Waters (Instructions Page 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: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 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: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☒ Other, specify: Intermittent Creek

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: Google Maps & Google Earth

C. Downstream perennial confluences

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

The effluent discharges directly into Hemphill Creek. Hemphill Creek joins Morrison Creek approximately 0.67 miles downstream.

D. Downstream characteristics

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

☐ Yes ☒ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

The water body appeared dry.

Date and time of observation: 7/28/2025 @ 9:00 a.m.

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.

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

B. Waterbody uses

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

- ☒ Livestock watering
- ☐ Irrigation withdrawal
- ☐ Fishing
- ☐ Domestic water supply
- ☐ Park activities
- ☐ Contact recreation
- ☐ Non-contact recreation
- ☐ Navigation
- ☐ Industrial water supply
- ☒ Other(s), specify: Rainfall conveyance

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

ATTACHMENT A

CORE DATA FORM

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

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

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

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

☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 606397990		**RN**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	9/5/2025

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
Silver Crossing, LLC	

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0805932243	32099082268		

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

12. Number of Employees	**13. Independently Owned and Operated?**
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher	☐ **Yes** ☒ **No**

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

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

15. Mailing Address:							
8800 N. Gainey Center Drive							
Suite 345, - Attention: Walton Global - Rob Nixon							
City	Scottsdale	**State**	AZ	**ZIP**	85258	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	joe@staffordcompany.com

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(512) 751-7357		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

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

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

Silver Crossing Wastewater Treatment Facility

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City		**State**		**ZIP**		**ZIP + 4**	
24. County	Caldwell							

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

25. Description to Physical Location:	Approximately 3,300 feet southeast of the San Marcos Highway and Highway 142 intersection.		
26. Nearest City		**State**	**Nearest ZIP Code**
Martindale		TX	78655

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

27. Latitude (N) In Decimal:	29.8435		**28. Longitude (W) In Decimal:**	-97.8312	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	50	36.6	-97	49	52.32

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)
4952		221320	

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

Collect, treat, & dispose of wastewater

34. Mailing Address:	**8800 N. Gainey Center Drive**							
	Suite 345, - Attention: Walton Global - Rob Nixon							
	City	**Scottsdale**	**State**	**AZ**	**ZIP**	**85258**	**ZIP + 4**	
35. E-Mail Address:	**joe@staffordcompany.com**							

36. Telephone Number	37. Extension or Code	38. Fax Number *(if applicable)*
(512) 751-7357		( ) -

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

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

SECTION IV: Preparer Information

40. Name:	Michael Bevilacqua	**41. Title:**	Senior Project Manager

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(737) 358-8103		( ) -	mbevilacqua@baxterwoodman.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:	Baxter & Woodman	**Job Title:**	Senior Project Manager	
Name *(In Print):*	Michael Bevilacqua		**Phone:**	(737) 358- **8103**
Signature:	Michael Bevilacqua		**Date:**	9/5/2025

ATTACHMENT B

PLAIN LANGUAGE SUMMARIES

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUMMARY OF APPLICATION IN PLAIN LANGUAGE FOR TPDES OR TLAP PERMIT APPLICATIONS

Summary of Application (in plain language) Template and Instructions for Texas Pollutant Discharge Elimination System (TPDES) and Texas Land Application (TLAP) Permit Applications

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

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

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

ENGLISH TEMPLATE FOR TPDES or TLAP NEW/RENEWAL/AMENDMENT APPLICATIONS
Enter 'INDUSTRIAL' or 'DOMESTIC' here WASTEWATER/STORMWATER
The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 TAC Chapter 39. The information provided in this summary may change during the technical review of the application and is not a federal enforceable representation of the permit application.

Silver Crossing, LLC (CN606397990) proposes to operate the Silver Crossing Wastewater Treatment Plant (RN), an activated sludge domestic wastewater treatment facility. The facility will be located at approximately 3,300 feet southeast of the San Marcos Highway and Highway 142 intersection, in Martindale, Caldwell County, Texas 78655. This application is for a new authorization to discharge treated domestic wastewater at an average daily flow not to exceed 1,200,000 gallons per day.

Discharges from the facility are expected to contain five-day carbonaceous oxygen demand (CBOD5), Total Suspended Solids (TSS), Ammonia Nitrogen (NH3-N), Phosphorus (P), and Escherichia coli. Domestic Wastewater will be treated by an activated sludge process and the treatment units include a bar screen, influent equalization basins, aeration basins, clarifiers, chlorine contact basins, dechlorination, effluent filters, sludge dewatering, and sludge holding basins.

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

AGUAS RESIDUALES DOMÉSTICAS /AGUAS PLUVIALES

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

Silver Crossing, LLC (CN606397990) propone operar la Planta de Tratamiento de Aguas Residuales de Silver Crossing (RN), una instalación de tratamiento de aguas residuales domésticas de lodos activados. La instalación estará ubicada en approximadamente 3,300 pies al sureste de la intersección de la autopista San Marcos y la autopista 142, en Martindale, Condado de Caldwell, Texas 78655. Esta solicitud es para una nueva autorización para descargar aguas residuales domésticas tratadas en un volumen que no exceda un flujo diario promedio que no exceda los 1,200,000 galones por día.

Se espera que las descargas de la instalación contengan demanda bioquímica de oxigeno carbonoso de cinco días ($CBOD_5$), y Solidos total suspendidos (TSS), y Nitrógeneo Amoniaco (NH3-N), Fósforo (P), y Escherichia coli. Las aguas residuales domesticas. estará tratado por una planta de processo de lodos activados, y las unidades de tratamiento incluyen una pantalla de barra, cuenca de ecualizacion de afluentes, y cuencas de aireación, y clarificadores, y cuencas de contacto con cloro, y decloracion, y filtros de efluentes, y deshidratación de lodos, y cuencas de retención de lodos.

INSTRUCTIONS

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

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.

Example 1: Industrial Wastewater TPDES Application (ENGLISH)

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

ABC Corporation (CN600000000) operates the Starr Power Station (RN10000000000), a two-unit gas-fired electric generating facility. Unit 1 has a generating capacity of 393 megawatts (MWs) and Unit 2 has a generating capacity of 528 MWs. The facility is located at 1356 Starr Street, near the City of Austin, Travis County, Texas 78753.

This application is for a renewal to discharge 870,000,000 gallons per day of once through cooling water, auxiliary cooling water, and also authorizes the following waste streams monitored inside the facility (internal outfalls) before it is mixed with the other wastewaters authorized for discharge via main Outfall 001, referred to as "previously monitored effluents" (low-volume wastewater, metal-cleaning waste, and stormwater (from diked oil storage area yards and storm drains)) via Outfall 001. Low-volume waste sources, metal-cleaning waste, and stormwater drains on a continuous and flow-variable basis via internal Outfall 101.

The discharge of once through cooling water via Outfall 001 and low-volume waste and metal-cleaning waste via Outfall 101 from this facility is subject to federal effluent limitation guidelines at 40 CFR Part 423. The pollutants expected from these discharges based on 40 CFR Part 423 are: free available chlorine, total residual chlorine, total suspended solids, oil and grease, total iron, total copper, and pH. Temperature is also expected from these discharges. Additional potential pollutants are included in the Industrial Wastewater Application Technical Report, Worksheet 2.0.

Cooling water and boiler make-up water are supplied by Lake Starr Reservoir. The City of Austin municipal water plant (CN600000000, PWS 00000) supplies the facility's potable water and serves as an alternate source of boiler make-up water. Water from the Lake Starr Reservoir is withdrawn at the intake structure and treated with sodium hypochlorite to prevent biofouling and sodium bromide as a chlorine enhancer to improve efficacy and then passed through condensers and auxiliary equipment on a once-through basis to cool equipment and condense exhaust steam.

Low-volume wastewater from blowdown of boiler Units 1 and 2 and metal-cleaning wastes receive no treatment prior to discharge via Outfall 101. Plant floor and equipment drains and stormwater runoff from diked oil storage areas, yards, and storm drains are routed through an oil and water separator prior to discharge via Outfall 101. Domestic wastewater, blowdown, and backwash water from the service water filter, clarifier, and sand filter are routed to the Starr Creek Domestic Sewage Treatment Plant, TPDES Permit No. WQ0010000001, for treatment and disposal. Metal-cleaning waste from equipment cleaning is generally disposed of off-site.

Example 2: Domestic Wastewater TPDES Renewal application

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

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

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent and Domestic Worksheet 4.0 in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 3: Domestic Wastewater TPDES New Application

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

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

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

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge process plant and the treatment units will include a bar screen, a grit chamber, aeration basins, final clarifiers, sludge digesters, a belt filter press, chlorine contact chambers and a dechlorination chamber.

Example 4: Domestic Wastewater TLAP Renewal application

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

of the permit application.

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

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

Land application of domestic wastewater from the facility are expected to contain five-day biochemical oxygen demand (BOD_5), total suspended solids (TSS), and *Escherichia coli*. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater is treated by an activated sludge process plant and the treatment units include a bar screen, an equalization basin, an aeration basin, a final clarifier, an aerobic sludge digester, tertiary filters, and a chlorine contact chamber. In addition, the facility includes a temporary storage that equals to at least three days of the daily average flow.

ATTACHMENT C

PUBLIC INVOLVEMENT PLAN

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, a Public Involvement Plan is not necessary. Completion of the remaining sections not required.

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 of the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2.

⬓ Public Involvement Plan not applicable to this application. Provide **brief** explanation.
This project does not have significant public interest since it does not contain activities or industries (i.e. industrial, manufacturing, etc.) that would garner such interest and all 3 boxes above are not checked.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste
☐ Radioactive Materials Licensing ☐ Underground Injection Controls

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

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

Water Rights New Permit

- ☐ New Appropriation of Water
- ☐ New or existing reservoir

Amendment to an Existing Water Right

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

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

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

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

_____

(City)

_____

(County)

(Census Tract)

Please indicate which of these three is the level used for gathering the following information.
☐ City
☐ County
☐ Census Tract

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

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

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

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

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

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

☐ Yes ☐ No

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

☐ Yes ☐ No

If Yes, please describe.

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

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

☐ Yes ☐ No

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

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

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

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

☐ Yes ☐ No

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

☐ Yes ☐ No

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

☐ TCEQ Regional Office

☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

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

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

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ATTACHMENT D

WASTEWATER TREATMENT PLANT PROPERTY EASEMENT

2025-006414 AGT Fee: 61.00
08/28/2025 02:24:28 PM Total Pages: 11
Teresa Rodriguez, County Clerk - Caldwell County, TX

WASTEWATER PLANT, UTILITY LINES, ACCESS, DISCHARGE, AND BUFFER ZONE EASEMENT AGREEMENT

Date: August 8, 2025

Grantor: Walton Texas, LP, a Texas limited partnership, acting in its own capacity as an owner of the Servient Easement Property (defined below) and as manager, operator, or agent, as applicable, for and on behalf of various individual owners of undivided interests in certain parcels comprising the Servient Easement Property (along with its successors and assigns, "Grantor")

Grantors' Mailing Address: 8800 N. Gainey Center Dr., Suite 345, Scottsdale, Arizona 85257

Grantee: Silver Crossing, LLC, a Texas limited liability company (along with its successors and assigns, "Grantee")

Grantee's Mailing Address: 8800 N. Gainey Center Dr., Suite 345, Scottsdale, Arizona 85257, with a copy to 3736 Bee Cave Rd., Suite 1-122, West Lake Hills, TX 78746

Servient Estate Easement Property: Subject to the terms and conditions of this Easement Agreement, the wastewater treatment facilities and appurtenant equipment and utility lines (collectively, the "Facilities") easement created herein shall attach to and run with the real property more particularly described by metes and bounds on **Exhibit A** attached hereto (the "Servient Estate Easement Property")

Easement Purpose: To provide Grantee ingress and egress across the Servient Estate Easement Property for the purpose of erecting, constructing, installing, maintaining, replacing, repairing, operating, using, conveying and discharging effluent, inspecting, reconstructing, modifying, removing and maintaining the Facilities located in the Servient Estate Easement Property, provide Grantee the right to maintain a buffer zone and prohibit residential structures within the buffer zone around the treatment plant in accordance with TAC 309, provide the Grantee the right and privilege at any time to cut or trim trees, shrubbery and other landscaping, and remove any and all obstructions located within the Servient Estate Easement Property, as well as to provide Grantee the right to ingress and egress across the Servient Estate Easement Property for the purpose of erecting, constructing, installing, maintaining, replacing, repairing, operating, using, conveying and discharging effluent, inspecting, reconstructing, modifying, removing and maintaining the Facilities in the Servient Estate Easement Property.

Consideration: Ten dollars ($10) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by Grantor.

Reservations from Conveyance: All reservations, including all Terms and Conditions (as hereinafter defined), herein expressly provided in this Wastewater Plant, Utility Lines, Access,

Discharge, and Buffer Zone Easement Agreement (collectively, the "Reservations from Conveyance").

Exceptions to Warranty: All presently recorded and validly existing easements, rights-of-way and other instruments of record that affect the Servient Estate Easement Property (collectively, the "Exceptions to Warranty").

Grant of Easement: Grantor, for the Consideration and subject to the Reservations from Conveyance and Exceptions to Warranty, grants, sells, and conveys to Grantee an easement over, on, and across the Servient Estate Easement Property for the Easement Purpose, together with all and singular the rights and appurtenances in anywise belonging thereto (collectively, the "Wastewater Plant, Utility lines, Access, Discharge, and Buffer Zone Easement"), to have and to hold the Wastewater Plant, Utility Lines, Access, Discharge, and Buffer Zone Easement to Grantee and Grantee's heirs, successors and assigns, forever.

Terms and Conditions: The following terms and conditions apply to the Easement granted by this agreement:

1. *Character of Easement.* The Wastewater Plant, Utility Lines, Access, Discharge, and Buffer Zone Easement is binding on the Servient Estate Easement Property, whether or not the Wastewater Plant, Utility Lines, Access, Discharge, and Buffer Zone Easement is referenced or described in any conveyance of all or such portion of the Servient Estate Easement Property. The Easement is nonexclusive and irrevocable. The Wastewater Plant, Utility Lines, Access, Discharge, and Buffer Zone Easement is for the benefit of Grantee, its successors and assigns (as applicable, the "Holder").

2. *Duration of Easement.* The duration of the Wastewater Plant, Utility Lines, Access, Discharge, and Buffer Zone Easement is perpetual.

3. *Reservation of Rights.* Grantor reserves for Grantor and Grantor's successors and assigns the right to continue to use and enjoy the surface of the Servient Estate Easement Property , but in no event shall Grantor: i) use, or allow any other party to use, the Servient Estate Easement Property, or any portion thereof, in a manner that interferes in any way or is inconsistent with the rights granted to Grantee hereunder; (ii) erect, or permit to be erected, any permanent or temporary building or structure including, without limitation, any habitable structures such as single or multi-family homes or other residential structures, offices, or any drainage filtration or detention ponds, on any portion of the Servient Estate Easement Property; or (iii) without Grantee's prior written consent, make changes to grade, elevation or contour of the land contained with the Servient Estate Easement Property which would, or could, compromise or damage the facilities or impair Grantee's access thereto. Grantor reserves for Grantor and Grantor's heirs, successors, and assigns the right to use all or part of the Servient Estate Easement Property in conjunction with Holder and the right to convey to others the right to use all or part of the Wastewater Plant, Utility Lines, Access, Discharge, and Buffer Zone

Easement in conjunction with Holder, as long as such further conveyance is subject to the terms of this agreement.

4. *Improvement and Maintenance of Servient Estate Easement Property.* All costs for improvement and maintenance of the Servient Estate Easement Property in conjunction with the Easement Purpose shall be borne by Grantee.

5. *Indemnity.* Grantee, on behalf of itself, its successors and assigns, agrees to indemnify, defend, and hold harmless Grantor, now or in the future, from any and all claims, demands, causes of action, obligations, remedies, suits, damages and liabilities arising from use of the Servient Estate Easement Property for Easement Purpose, WHETHER OR NOT CAUSED OR CONTRIBUTED BY THE NEGLIGENCE OF THE SERVIENT ESTATE EASEMENT PROPERTY, unless such claims, demands, causes of action, obligations, remedies, suits, damages and liabilities arise out of the gross negligence or willful misconduct of Grantor.

6. *Attorney's Fees.* If either party retains an attorney to enforce this agreement, the party prevailing in litigation is entitled to recover reasonable attorney's fees and court and other costs.

7. *Binding Effect.* This agreement binds and inures to the benefit of the parties and their respective heirs, successors, and permitted assigns.

8. *Choice of Law.* This agreement will be construed under the laws of the State of Texas, without regard to choice-of-law rules of any jurisdiction. Venue is in the county or counties in which the Servient Estate Easement Property is located.

9. *Counterparts.* This agreement may be executed in any number of counterparts with the same effect as if all signatory parties had signed the same document. All counterparts will be construed together and will constitute one and the same instrument.

10. *Waiver of Default.* It is not a waiver of or consent to default if the non-defaulting party fails to declare immediately a default or delays in taking any action. Pursuit of any remedies set forth in this agreement does not preclude pursuit of other remedies in this agreement or provided by law.

11. *Further Assurances.* Each signatory party agrees to execute and deliver any additional documents and instruments and to perform any additional acts necessary or appropriate to perform the terms, provisions, and conditions of this agreement and all transactions contemplated by this agreement.

12. *Entire Agreement.* This agreement contains the complete agreement of the parties and cannot be varied except by written agreement of the parties. The parties agree that there are no oral agreements, representations, or warranties that are not expressly set forth in this agreement.

13. *Legal Construction.* If any provision in this agreement is for any reason unenforceable, to the extent the unenforceability does not destroy the basis of the bargain among the parties, the unenforceability will not affect any other provision hereof, and this agreement will be construed as if the unenforceable provision had never been a part of the agreement. Whenever context requires, the singular will include the plural and neuter include the masculine or feminine gender, and vice versa. Article and section headings in this agreement are for reference only and are not intended to restrict or define the text of any section. This agreement will not be construed more or less favorably between the parties by reason of authorship or origin of language.

14. *Notices.* Any notice required or permitted under this agreement must be in writing. Any notice required by this agreement will be deemed to be delivered (whether actually received or not) when deposited with the United States Postal Service, postage prepaid, certified mail, return receipt requested, and addressed to the intended recipient at the address shown in this agreement. Notice may also be given by regular mail, personal delivery, courier delivery, facsimile transmission, or other commercially reasonable means and will be effective when actually received. Any address for notice may be changed by written notice delivered as provided herein.

15. *Recitals.* Any recitals in this agreement are represented by the parties to be accurate, and constitute a part of the substantive agreement.

EXECUTED to be effective as of the date first appearing above.

{End of Page - Signature Pages Follow}

GRANTOR:

Walton Texas, LP
(a Texas limited partnership)
In its own capacity as an owner of the Servient Easement Property and as manager, operator, or agent, as applicable, on behalf of all other owners of the Servient Easement Property

By: Walton Texas GP, LLC
(a Texas limited liability company)
Its General Partner

By: Walton International Group, Inc.
(a Nevada corporation)
Its Manager

By:_____
Name: Robert Nixon
Title: Authorized Signatory

STATE OF ARIZONA §
§
COUNTY OF MARICOPA §

Before me, the undersigned authority, on this day personally appeared Robert Nixon, Authorized Signatory of Walton International Group, Inc., a Nevada corporation, the manager of Walton Texas GP, LLC, a Texas limited liability company, the general partner of Walton Texas, LP, a Texas limited partnership, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office on this 8th day of August 2025.

_____
Notary Public - State of Arizona

AMARIS DOUGLAS
Notary Public - State of Arizona
MARICOPA COUNTY
Commission # 652129
Expires August 22, 2027

GRANTEE:

Silver Crossing, LLC,
a Texas limited liability company

By:_____
Name: Robert Nixon
Title: Authorized Signatory

STATE OF ARIZONA §
§
COUNTY OF MARICOPA §

Before me, the undersigned authority, on this day personally appeared Robert Nixon , the Authorized Signatory of Silver Crossing, LLC, a Texas limited liability company, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that [s]he executed the same in the capacity and for the purposes and consideration therein expressed.

Given under my hand and seal of office on this 8th day of August 2025.

_____
Notary Public - State of Arizona

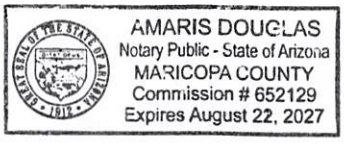


EXHIBIT A

WASTEWATER TREATMENT PLANT EASEMENT DESCRIPTION - 32.39 ACRES

BEING a tract of land situated in the William Pettus Survey, Abstract No. 21, Caldwell County, Texas and being a part of a called 86.45 acre tract (Tract 3) of land conveyed to Walton Texas, LP, recorded in Volume 524, Page 599, Official Public Records, Caldwell County, Texas (O.P.R.C.C.T.) being more particularly described as follows with all bearings being based on the Texas Coordinate System of 1983, South Central Zone (4204), North American Datum of 1983 (NAD83) and grid distances measured in U.S. survey feet:

COMMENCING at a 5/8-inch iron rod found capped (stamped "Carter and Burgess") for the north corner of said 86.45 acre tract, and in the south right-of-way line of State Highway No. 142, a 140 foot right-of-way, according to the TxDOT CSJ Map No. 0384-01-014;

THENCE with the northeast lines of said 86.45 acre tract the following courses:

South 41°49'43" East, 756.57 feet to a 3/8-inch iron rod found;
South 41°56'31" East, 217.24 feet to a 1/2-inch iron rod found capped (stamped "Byrn Survey");
South 41°59'42" East, 216.72 feet to a 3/8-inch iron rod found;
South 41°50'16" East, 216.73 feet to a 3/8-inch iron rod found;
South 41°54'24" East, 216.40 feet to a 3/8-inch iron rod found;
South 41°59'51" East, 278.03 feet to a point for the **BEGINNING** of the herein described tract;

THENCE continuing with the northeast lines of said 86.45 acre tract the following courses:

South 41°59'51" East, 153.88 feet to a 1/2-inch iron rod found;
South 41°58'04" East, 215.46 feet to a 1/2-inch iron rod found;
South 42°02'16" East, 839.55 feet to a 1-inch iron pipe found for the east corner of said 86.45 acre tract;

THENCE South 48°34'12" West, with the southeast line of said 86.45 acre tract, 694.96 feet to a 1/2-inch iron rod found for the south corner of said 86.45 acre tract and in the north right-of-way line of State High 80 (a/k/a San Marcos Highway), a 100 foot right-of-way according to the TxDOT Map Plan No. SAP 849-A;

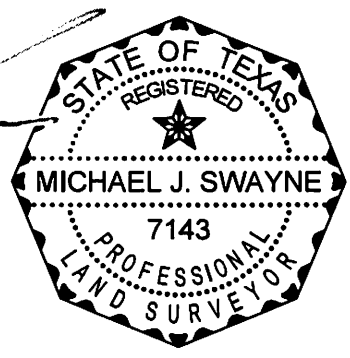
THENCE with the southwest lines of said 86.45 acre tract and said north right-of-way line, the following courses:

North 64°57'27" West, 799.05 feet to a TxDOT Type II monument found;
North 38°26'38" East, 4.35 feet to a TxDOT Type II monument found;
North 64°40'41" West, 201.17 feet to a 5/8-inch iron rod found capped (stamped "Carter and Burgess");
North 24°55'28" East, 29.99 feet to a 5/8-inch iron rod found capped (stamped "Carter and Burgess");
North 64°55'22" West, 299.95 feet to a 5/8-inch iron rod found capped (stamped "Carter and Burgess");
North 25°07'53" East, 65.03 feet to a 5/8-inch iron rod found capped (stamped "Carter and Burgess");
North 64°59'03" West, 299.85 feet to a point;
South 24°59'14" West, 49.22 feet to a 5/8-inch iron rod found capped (stamped "Carter and Burgess");
North 64°56'27" West, 97.30 feet to a point;

THENCE over said 86.45 acre tract the following courses:

North 25°04'22" East, 175.52 feet to a point;
North 69°20'10" East, 1,231.84 feet to the **POINT OF BEGINNING** and containing 1,410,731 square feet or 32.39 acres of land.

08/05/2025

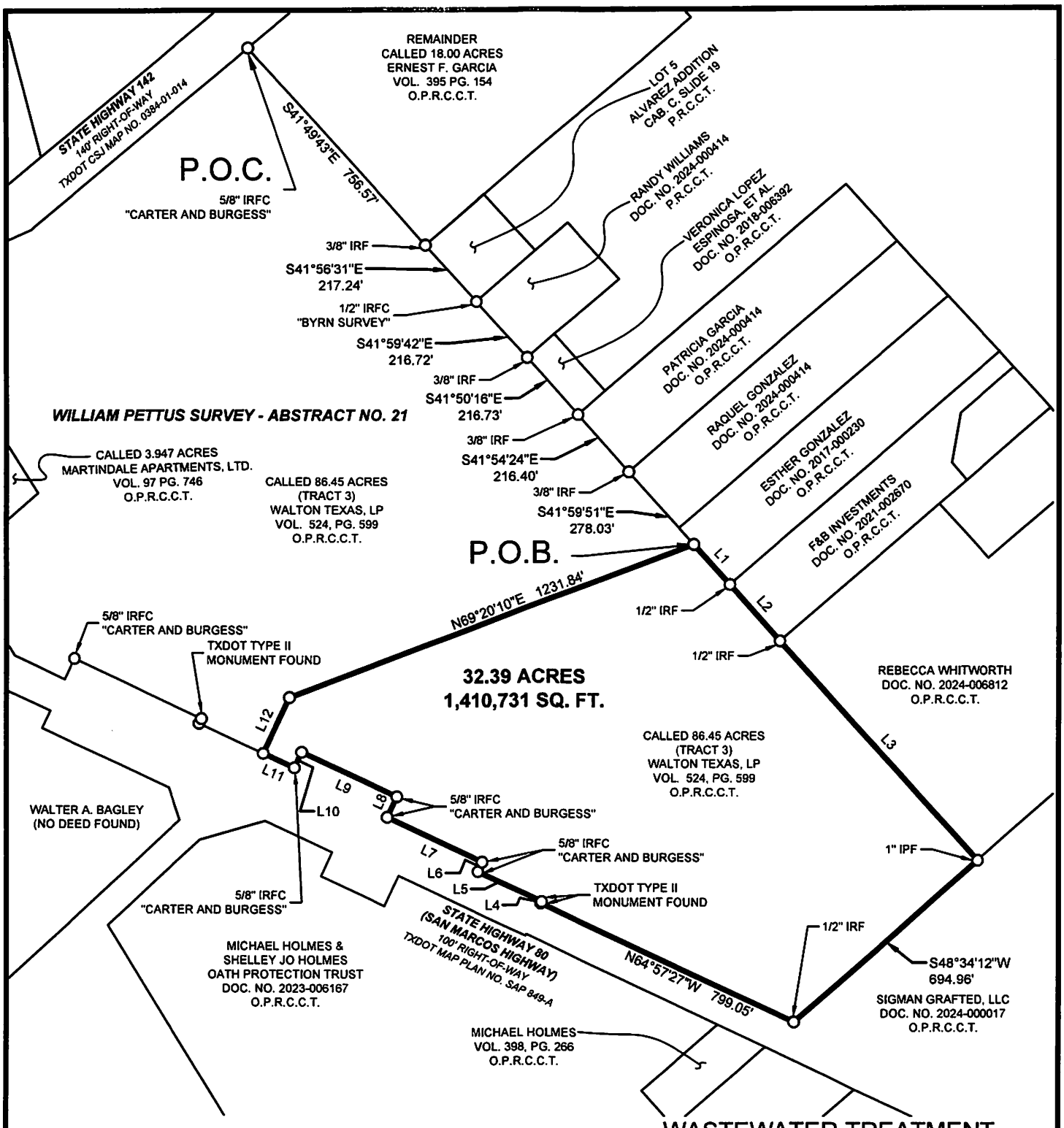


MICHAEL J. SWAYNE
REGISTERED PROFESSIONAL
LAND SURVEYOR NO. 7143
400 N. OKLAHOMA DR., SUITE 105
CELINA, TEXAS 75009
PH. 469-501-2200
michael.swayne@kimley-horn.com

WASTEWATER TREATMENT
PLANT EASEMENT
WILLIAM PETTUS SURVEY
ABSTRACT NO. 21
CALDWELL COUNTY, TEXAS

Kimley»Horn
400 North Oklahoma Dr., Suite 105
Celina, Texas 75009
FIRM # 10194503
Tel. No. (469) 501-2200
www.kimley-horn.com

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
N/A	NSG	MJS	8/5/2025	069254708	1 OF 3



NOTES

Bearing system based on the Texas Coordinate System of 1983, South Central Zone (4204), North American Datum of 1983 (NAD 83), grid distances U.S. survey feet.

LEGEND

Δ = CENTRAL ANGLE
P.O.B. = POINT OF BEGINNING
IRF = IRON ROD FOUND
IRFC = IRON ROD W/CAP FOUND
O.P.R.C.C.T. = OFFICIAL PUBLIC RECORDS, CALDWELL COUNTY, TEXAS

NORTH

0 200 400

GRAPHIC SCALE IN FEET

WASTEWATER TREATMENT PLANT EASEMENT
WILLIAM PETTUS SURVEY
ABSTRACT NO. 21
CALDWELL COUNTY, TEXAS

Kimley»Horn
400 North Oklahoma Dr., Suite 105
Celina, Texas 75009
FIRM # 10194503
Tel. No. (469) 501-2200
www.kimley-horn.com

Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 400'	NSG	MJS	8/5/2025	069254708	2 OF 3

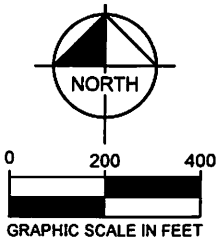
LINE TABLE		
NO.	BEARING	LENGTH
L1	S41°59'51"E	153.88'
L2	S41°58'04"E	215.46'
L3	S42°02'16"E	839.55'
L4	N38°26'38"E	4.35'
L5	N64°40'41"W	201.17'
L6	N24°55'28"E	29.99'
L7	N64°55'22"W	299.95'
L8	N25°07'53"E	65.03'
L9	N64°59'03"W	299.85'
L10	S24°59'14"W	49.22'
L11	N64°56'27"W	97.30'
L12	N25°04'22"E	175.52'

NOTES

Bearing system based on the Texas Coordinate System of 1983, South Central Zone (4204), North American Datum of 1983 (NAD 83), grid distances U.S. survey feet.

LEGEND

Δ = CENTRAL ANGLE
P.O.B. = POINT OF BEGINNING
IRF = IRON ROD FOUND
IRFC = IRON ROD W/CAP FOUND
O.P.R.C.C.T. = OFFICIAL PUBLIC RECORDS, CALDWELL COUNTY, TEXAS



WASTEWATER TREATMENT PLANT EASEMENT
WILLIAM PETTUS SURVEY
ABSTRACT NO. 21
CALDWELL COUNTY, TEXAS

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400 North Oklahoma Dr., Suite 105
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Scale	Drawn by	Checked by	Date	Project No.	Sheet No.
1" = 400'	NSG	MJS	8/5/2025	069254708	3 OF 3

FILED AND RECORDED

Instrument Number: 2025-006414 AGREEMENT

Filing and Recording Date: 08/28/2025 02:24:28 PM Pages: 11 Recording Fee: $61.00

I hereby certify that this instrument was FILED on the date and time stamped hereon and RECORDED in the OFFICIAL PUBLIC RECORDS of Caldwell County, Texas.

Teresa Rodriguez

Teresa Rodriguez, County Clerk
Caldwell County, Texas

ANY PROVISION CONTAINED IN ANY DOCUMENT WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE REAL PROPERTY DESCRIBED THEREIN BECAUSE OF RACE OR COLOR IS INVALID UNDER FEDERAL LAW AND IS UNENFORCEABLE.

DO NOT REMOVE. THIS PAGE IS PART OF THE OFFICIAL PUBLIC RECORD.

ATTACHMENT E

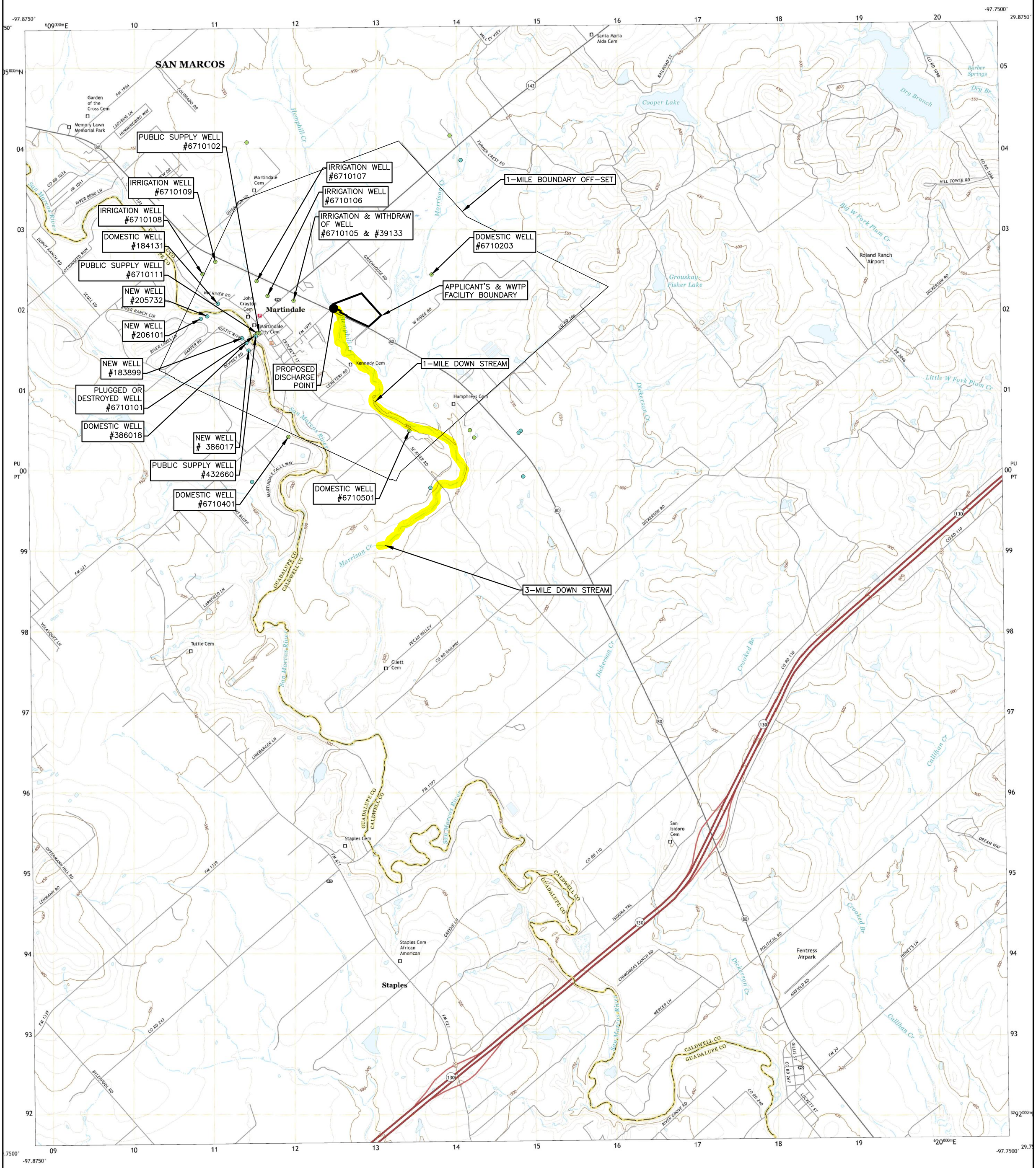
USGS MAPS

USGS science for a changing world

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

The National Map US Topo

MARTINDALE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



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

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 2003 - 2021
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands inventory Not Available

MN
GN
3°46'
67 MILS
0°35'
10 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

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

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 San Marcos North
2 Uhland
3 Lockhart North
4 San Marcos South
5 Lockhart South
6 Geronimo
7 Kingsbury
8 Luling
ADJOINING QUADRANGLES

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

MARTINDALE, TX
2022

BAXTER & WOODMAN Consulting Engineers
301 DENALI PASS DR., SUITE 3
CEDAR PARK, TEXAS 78613
(281)350-7027
TEXAS REGISTERED ENGINEERING FIRM F-21783

SILVER CROSSING. LLC
SILVER CROSSING WWTP

ATTACHMENT E- USGS MAP

ATTACHMENT F

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

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: Silver Crossing, LLC

   Permit No. WQ00 Click here to enter text EPA ID No. TX Click here to enter text

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

   The wastewater treatment plant is located approximately 3,300 feet southeast of the San Marcos Highway and Highway 142 intersection.

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): Mr.

First and Last Name: Michael Bevilacqua

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

Title: Senior Project Manager

Mailing Address: 301 Denali Pass, Suite #3

City, State, Zip Code: Cedar Park, TX, 78613

Phone No.: 737-358-8103 Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: mbevilacqua@baxterwoodman.com

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

N/A – Privately Owned

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 route will be from the plant site, thence to Hemphill Creek, thence to Morrison Creek, thence to the Lower San Marcos River (Classified Segment #1808).

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):

The proposed construction is anticipated to disturb approximately 15 – acres. Existing vegetation will be removed. The depth of excavation is estimated at 25 – ft. Cave and/or Karst features are not known to be present.

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

The property is undeveloped. The vegetation appears to be native grasses. Based on historic photos and Google Streetview, the property appears to be used for cattle grazing.

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:

No existing structures are on the property.

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

The property is undeveloped and appears to have been used for cattle grazing. The architect and/or builder are not known at this time.

ATTACHMENT G

AFFECTED LANDOWNERS MAP

SILVER CROSSING, LLC
SILVER CROSSING WWTP
Attachment G - Affected Landowners List

NUMBER	OWNER NAME	MAILING ADDRESS
1	WALTON TEXAS LP	WALTON INTERNATIONAL GROUP INC 8800 N GAINEY CENTER DR STE 345 SCOTTSDALE AZ 85258
2	SIGMAN GRAFTED LLC	1659 STATE HIGHWAY 46 W SUITE 115 BOX 525 NEW BRAUNFELS TX 78132
3	REBECCA WHITWORTH	PO BOX 474 MARTINDALE TX 78655
4	F AND B INVESTMENTS	PO BOX 290942 KERRVILE TX 78028
5	ESTHER GONZALES	PO BOX 184 MARTINDALE TX 78655
6	WALTON TEXAS LP	WALTON INTERNATIONAL GROUP INC 8800 N GAINEY CENTER DR STE 345 SCOTTSDALE AZ 85258
7	MICHAEL HOLMES AND SHELLEY JO HOLMES OATH PROTECTION TRUST	MICHAEL EVERETT AND SHELLEY JO HOLMES 158 HOLMES LN MARTINDALE TX 78655
8	EVELINE C TIMMS	165 TIMMS TRAIL MARTINDALE TX 78655
9	HERBERT RICHARD CONRADS	PO BOX 628 SAN MARCOS TX 78667
10	KENNEDY CEMETERY	N/A - UNABLE TO FIND MAILING ADDRESS
11	SIGMAN GRAFTED LLC	1659 STATE HIGHWAY 46 W SUITE 115 BOX 525 NEW BRAUNFELS TX 78132
12	ALLEN O AND SANDRA K BERRY	15835 SAN MARCOS HWY MARTINDALE TX 78655
13	MICHAEL HOLMES	158 HOLMES LN MARTINDALE TX 78655
14	WALTER A AND MAEBETH BAGLEY	PO BOX 152 MARTINDALE TX 78655

FILE: ATTACHMENT G – AFFECTED LANDOWNERS MAP.dwg TAB: ATTACHMENT G–11X17–P PLOTTED: 9/5/2025 7:56 AM BY: MIKE BEVILACQUA

APPLICANTS AND WWTP PROPERTY BOUNDARY

150FT BUFFER ZONE

142

LOCKHART RD

DISCHARGE POINT

1979

MAIN ST

80

1-MILE DOWNSTREAM

SE RIVER RD

1

2

3

4

5

6

7

8

9

10

11

12

13

14

150.5'

50'

N

0' 1,000' 2,000'

SCALE: 1"=1,000'

BAXTER & WOODMAN Consulting Engineers

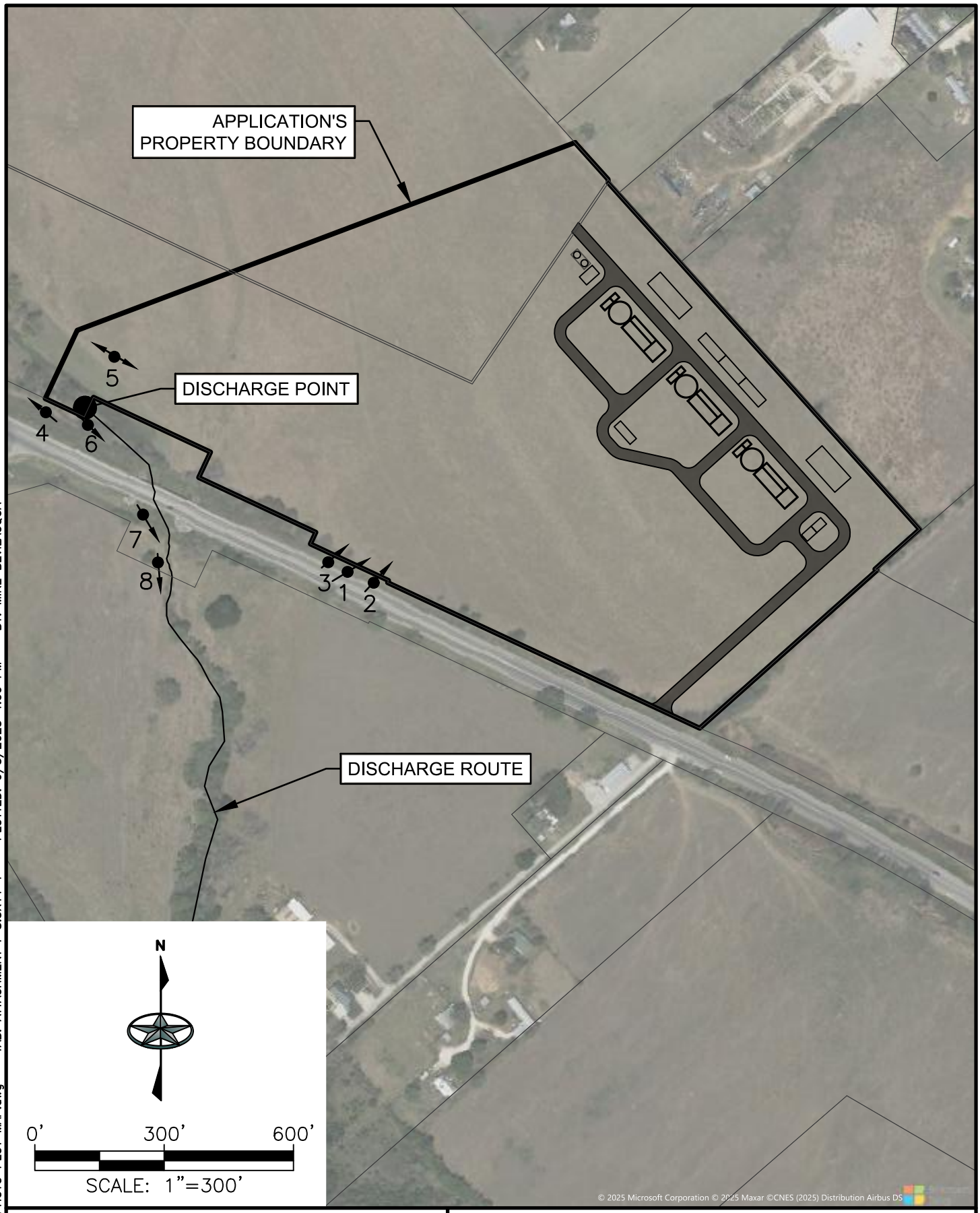
301 DENALI PASS DR., SUITE 3
CEDAR PARK, TEXAS 78613
(281)350–7027
TEXAS REGISTERED ENGINEERING FIRM F–21783

SILVER CROSSING, LLC
SILVER CROSSING WWTP

ATTACHMENT G - AFFECTED LANDOWNERS MAP

ATTACHMENT H

ORIGINAL PHOTOGRAPHS



FILE: ATTACHMENT H – PHOTO PLOT MAP.dwg TAB: ATTACHMENT I–8.5X11–P PLOTTED: 9/3/2025 4:00 PM BY: MIKE BEVILACQUA

BAXTER & WOODMAN Consulting Engineers
301 DENALI PASS DR., SUITE 3
CEDAR PARK, TEXAS 78613
(281)350–7027
TEXAS REGISTERED ENGINEERING FIRM F–21783

SILVER CROSSING , LLC
SILVER CROSSING WWTP

ATTACHMENT H - PHOTO PLOT MAP

Photo #1 – facing Northeast: Treatment Units* for all Phases I thru Final.

* Treatment units include Headworks, Influent Equalization, Aeration Basin, Sludge Holding, Clarifier, Chlorine Contact Chamber, Dechlorination, Effluent Filters, and Sludge Dewatering.

Photo #2 – facing Northwest: Headworks & all Treatment Units* for all Phases I thru Final.

* Treatment units include Headworks, Influent Equalization, Aeration Basin, Sludge Holding, Clarifier, Chlorine Contact Chamber, Dechlorination, Effluent Filters, and Sludge Dewatering.

Photo #3 – facing North: All Treatment Units* for all Phases I thru Final.

* Treatment units include Headworks, Influent Equalization, Aeration Basin, Sludge Holding, Clarifier, Chlorine Contact Chamber, Dechlorination, Effluent Filters, and Sludge Dewatering.

Photo #4 – facing Northwest: Upstream of Discharge.

Photo #5 – facing Northwest: Discharge Point, Facing Upstream.

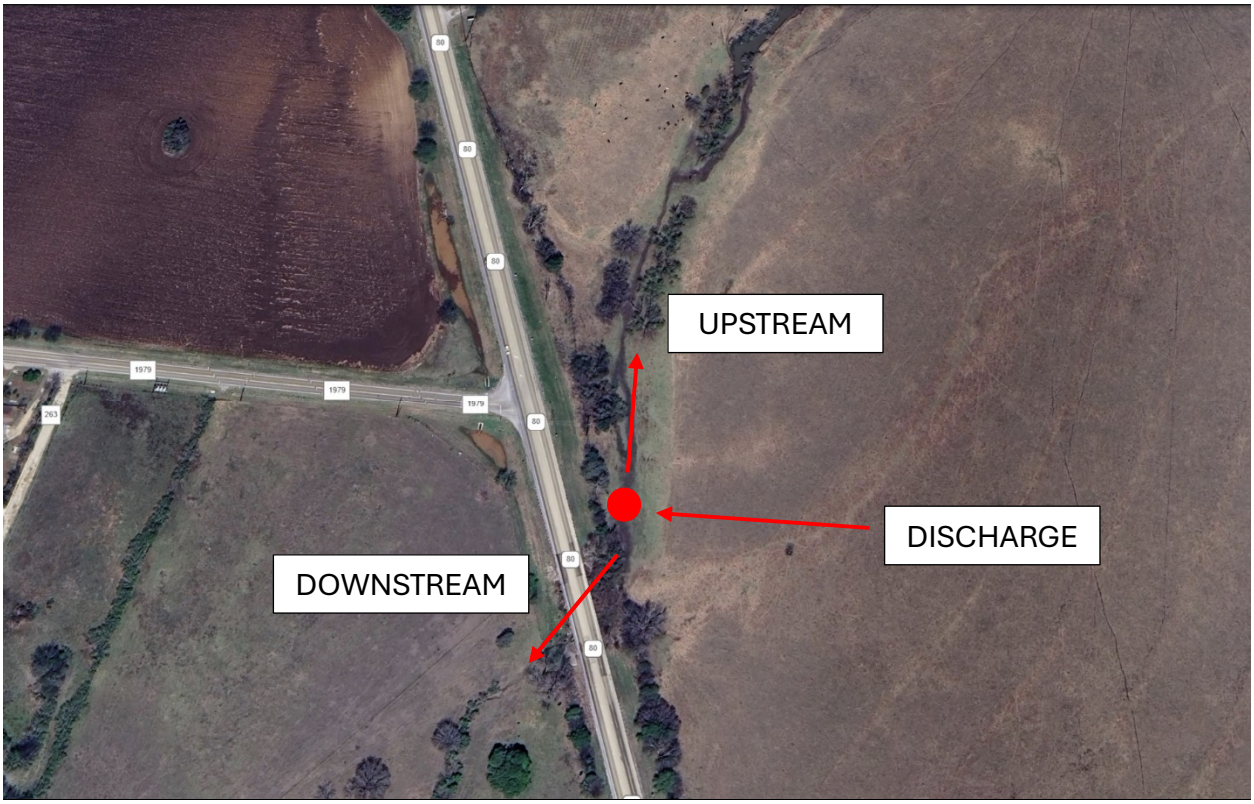
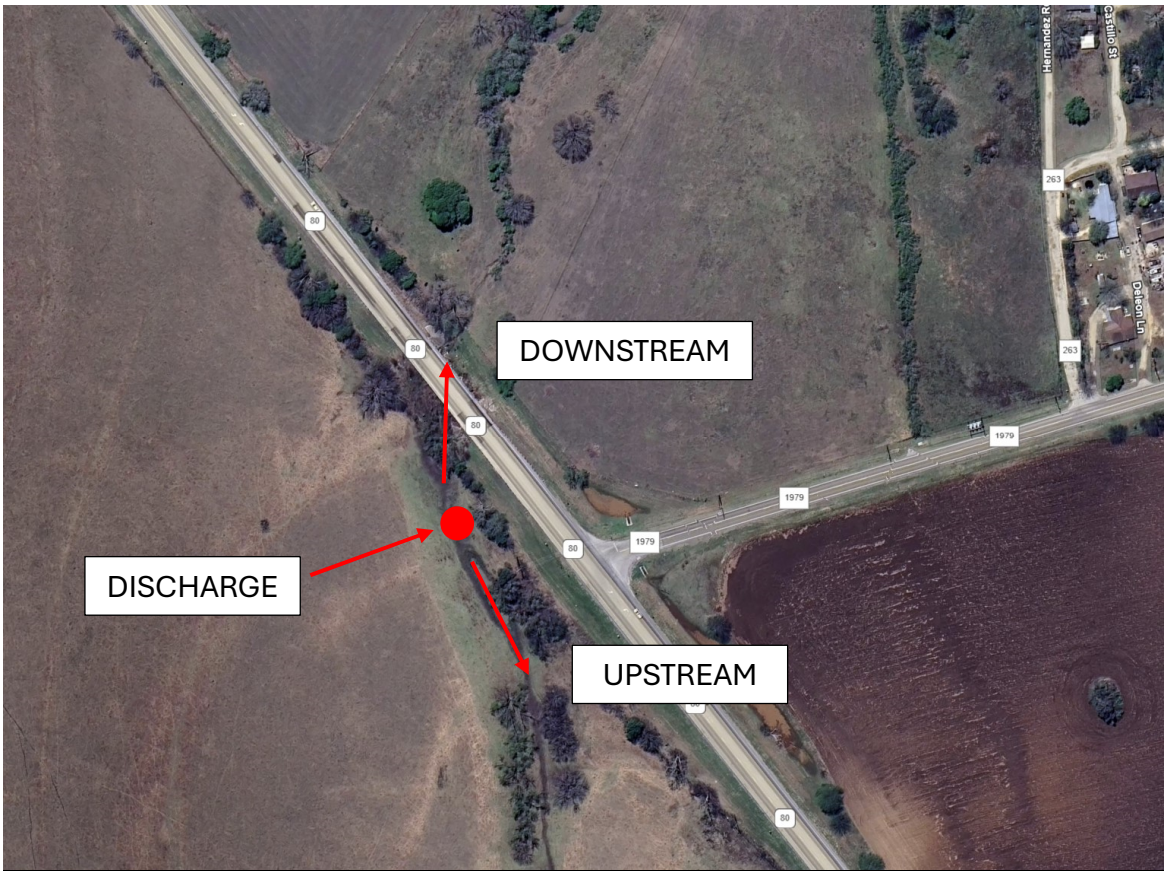


Photo #6 – facing Southeast: Downstream of Discharge.

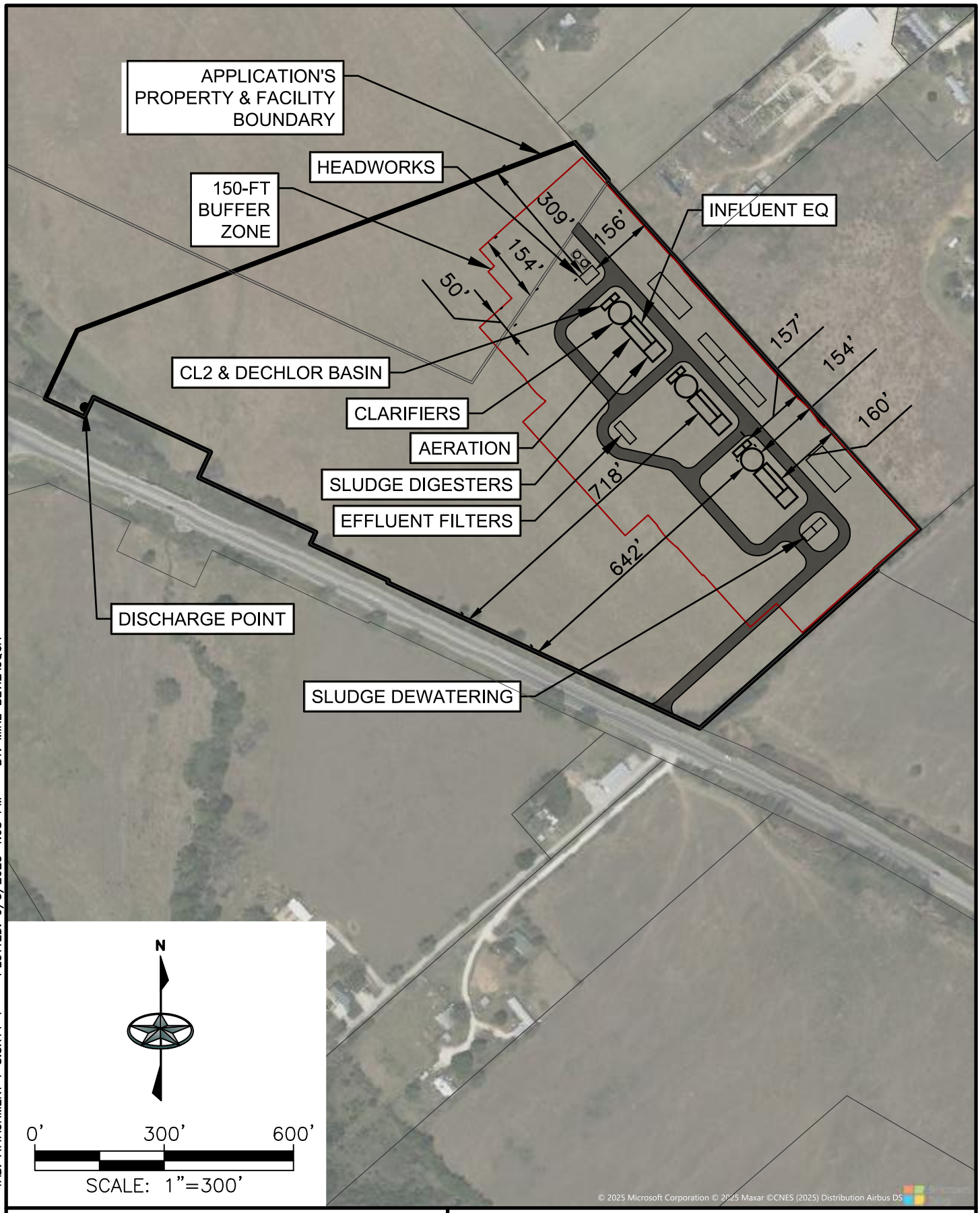
Photo #7 – facing Southeast: Downstream of Discharge.

Photo #8 – facing Southeast: Discharge Point, Facing Downstream.



ATTACHMENT I

BUFFER ZONE MAP



FILE: ATTACHMENT I.dwg TAB: ATTACHMENT I-8.5X11-P PLOTTED: 9/3/2025 4:08 PM BY: MIKE BEVILACQUA

BAXTER & WOODMAN Consulting Engineers
301 DENALI PASS DR., SUITE 3
CEDAR PARK, TEXAS 78613
(281)350-7027
TEXAS REGISTERED ENGINEERING FIRM F-21783

SILVER CROSSING , LLC
SILVER CROSSING WWTP

ATTACHMENT I - BUFFER ZONE MAP

ATTACHMENT J

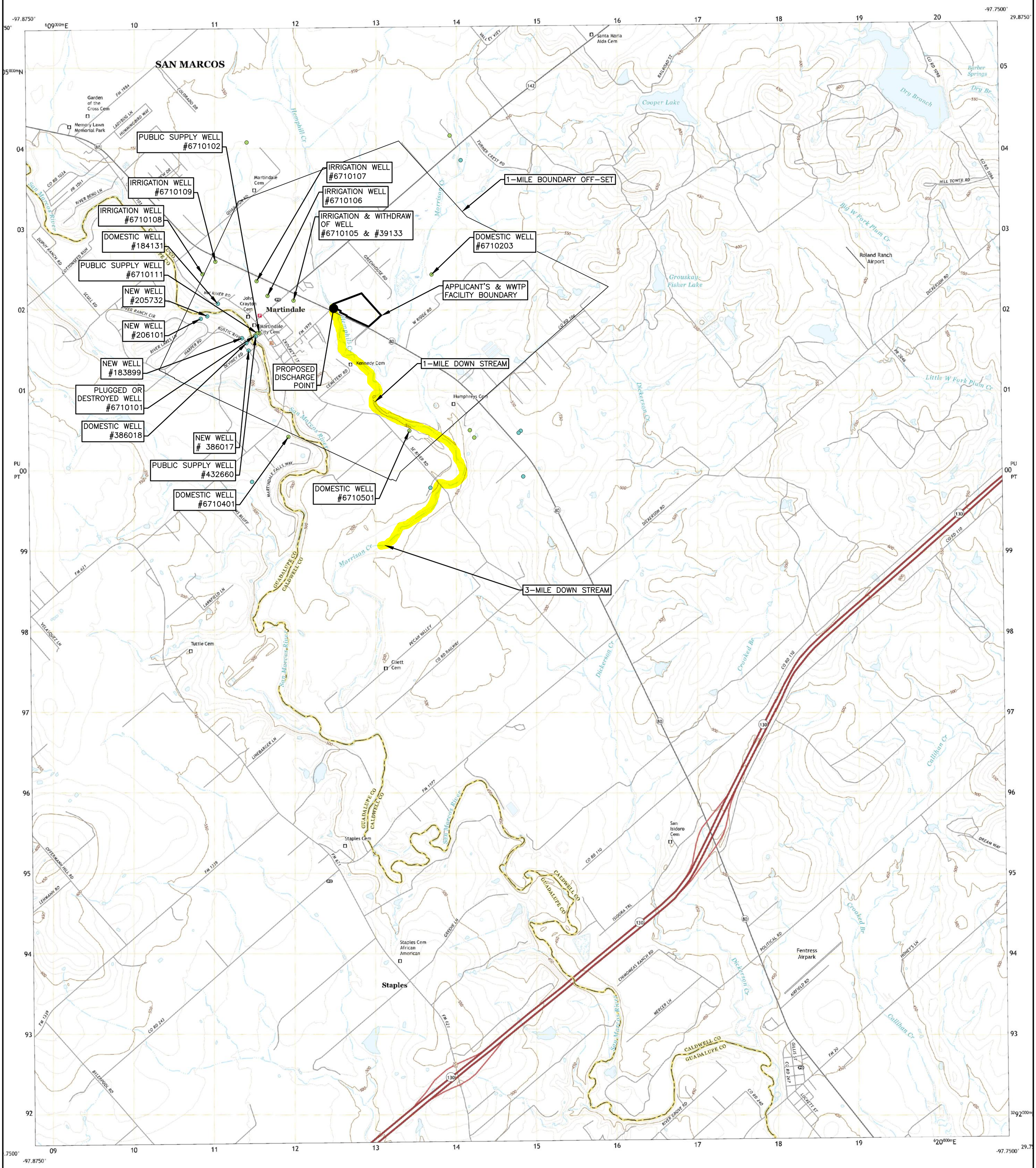
SPIF USGS MAP

USGS science for a changing world

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

The National Map US Topo

MARTINDALE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



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

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Imagery.....NAIP, September 2016 - November 2016
Roads.....U.S. Census Bureau, 2015 - 2019
Names.....GNIS, 2003 - 2021
Hydrography.....National Hydrography Dataset, 2002 - 2018
Contours.....National Elevation Dataset, 2021
Boundaries.....Multiple sources; see metadata file 2019 - 2021

Wetlands.....FWS National Wetlands inventory Not Available

MN
GN
3°46' 67 MILS
0°35' 10 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

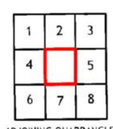
U.S. National Grid
100,000-m Square ID
PU
PT
Grid Zone Designation 14R

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

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.

QUADRANGLE LOCATION



1 San Marcos North
2 Uhland
3 Lockhart North
4 San Marcos South
5 Lockhart South
6 Geronimo
7 Kingsbury
8 Luling
ADJOINING QUADRANGLES

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

MARTINDALE, TX
2022

BAXTER & WOODMAN Consulting Engineers
301 DENALI PASS DR., SUITE 3
CEDAR PARK, TEXAS 78613
(281)350-7027
TEXAS REGISTERED ENGINEERING FIRM F-21783

SILVER CROSSING. LLC
SILVER CROSSING WWTP

ATTACHMENT J- SPIF USGS MAP

ATTACHMENT K

TREATMENT PROCESS DESCRIPTION AND TREATMENT UNIT SIZING

ATTACHMENT K – TREATMENT PROCESS DESCRIPTION & TREATMENT UNIT SIZING

	Interim Phase I	Interim Phase II	Final
Design Flow (MGD)	0.395	0.800	1.200
2-Hr Peak Flow (MGD)	1.580	3.200	4.800
Estimated construction start date	7/1/2026	5/1/2031	1/1/2034
Estimated waste disposal start date	1/1/2027	12/1/2031	6/1/2034
Biochemical Oxygen Demands (5-day), mg/L	5	5	5
Total Suspended Solids, mg/L	5	5	5
Ammonia Nitrogen, mg/L	2	2	2
Total Phosphorus, mg/L	0.5	0.5	0.5
Dissolved Oxygen, mg/L	4	4	4

Treatment Process – Interim I Phase

The wastewater treatment plant for the Interim I phase will be an activated sludge process plant. The treatment process will follow the steps below. The number and size of each treatment unit is provided in the table on Page 2.

Activated Sludge Process: Bar-Screen (Headworks) ➡ Influent Equalization ➡ Aeration Basin ➡ Clarifier ➡ Chlorine Contact ➡ Effluent Filters ➡ Discharge Point

Sludge Process: Clarifier ➡ Sludge Holding Basin (or RAS) ➡ Sludge Dewatering ➡ TCEQ Permitted Land Application Site/Landfill

Treatment Process – Interim II Phase

The wastewater treatment plant for the Interim II phase will be an activated sludge process plant. The treatment process will follow the steps below. The number and size of each treatment unit is provided in the table on Page 2.

Activated Sludge Process: Bar-Screen (Headworks) ➡ Influent Equalization ➡ Aeration Basin ➡ Clarifier ➡ Chlorine Contact ➡ Dechlorination ➡ Effluent Filters ➡ Discharge Point

Sludge Process: Clarifier ➡ Sludge Holding Basin (or RAS) ➡ Sludge Dewatering ➡ TCEQ Permitted Land Application Site/Landfill

Treatment Process – Final Phase

The wastewater treatment plant for the Final phase will be an activated sludge process plant. The treatment process will follow the steps below. The number and size of each treatment unit is provided in the table on Page 2.

Activated Sludge Process: Bar-Screen (Headworks) → Influent Equalization → Aeration Basin → Clarifier → Chlorine Contact → Dechlorination → Effluent Filters → Discharge Point

Sludge Process: Clarifier → Sludge Holding Basin (or RAS) → Sludge Dewatering → TCEQ Permitted Land Application Site/Landfill

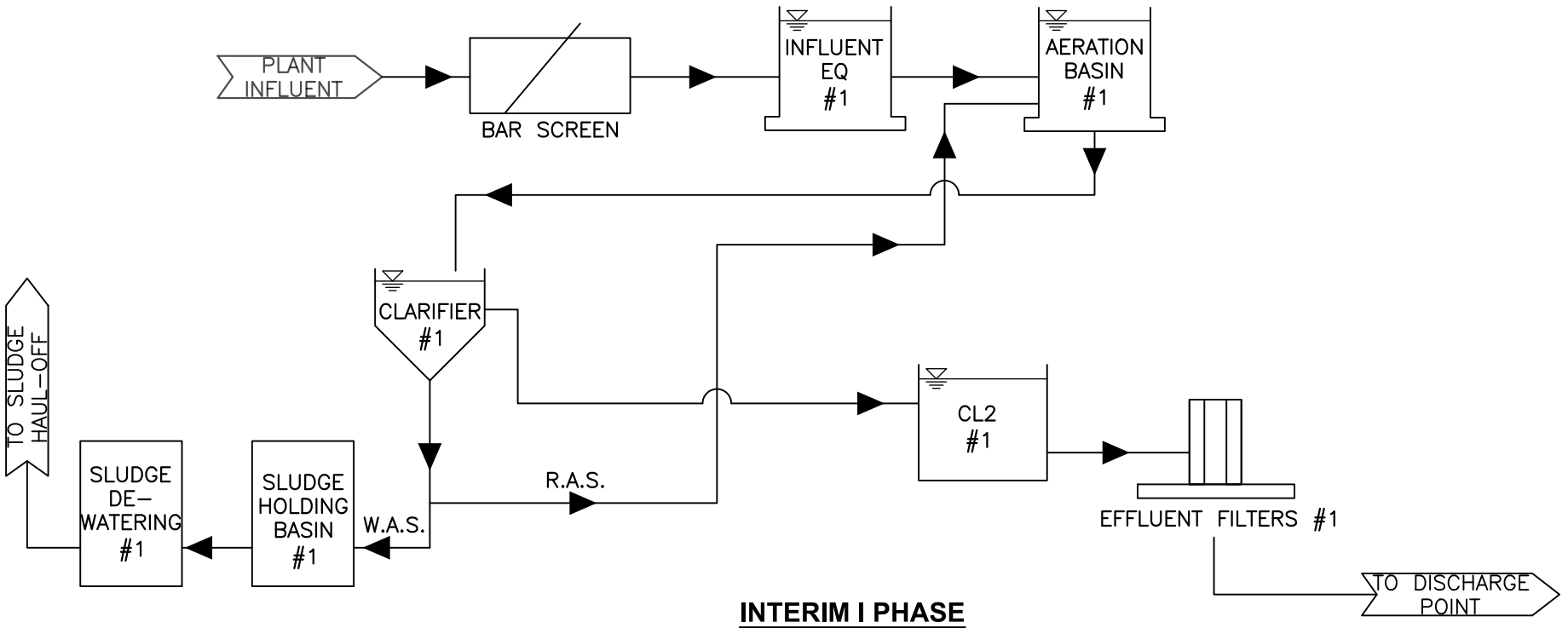
Proposed Treatment Unit Sizing Summary

Treatment Basin	No. of Basins Interim I Phase	No. of Basins Interim II Phase	No. of Basins Final Phase	Dimensions (all phases)	Anticipated SWD (ft)
Headworks	1	1	1	40’ x 25’	5’
Influent Equalization	1	2	3	73’x12’	20’
Aeration	1	2	3	73’x24’	20’
Sludge Holding	1	2	3	30’x38’	18’
Sludge Dewatering	1	1	2	30’x20’	N/A
Clarifier	1	2	3	50’ diameter	17’
Chlorine Contact	1	2	3	26’x12’	15’
Dechlorination	0	2	3	12’x15’	14.5’
Effluent Filter	1	1	1	55’ x 20’	8’

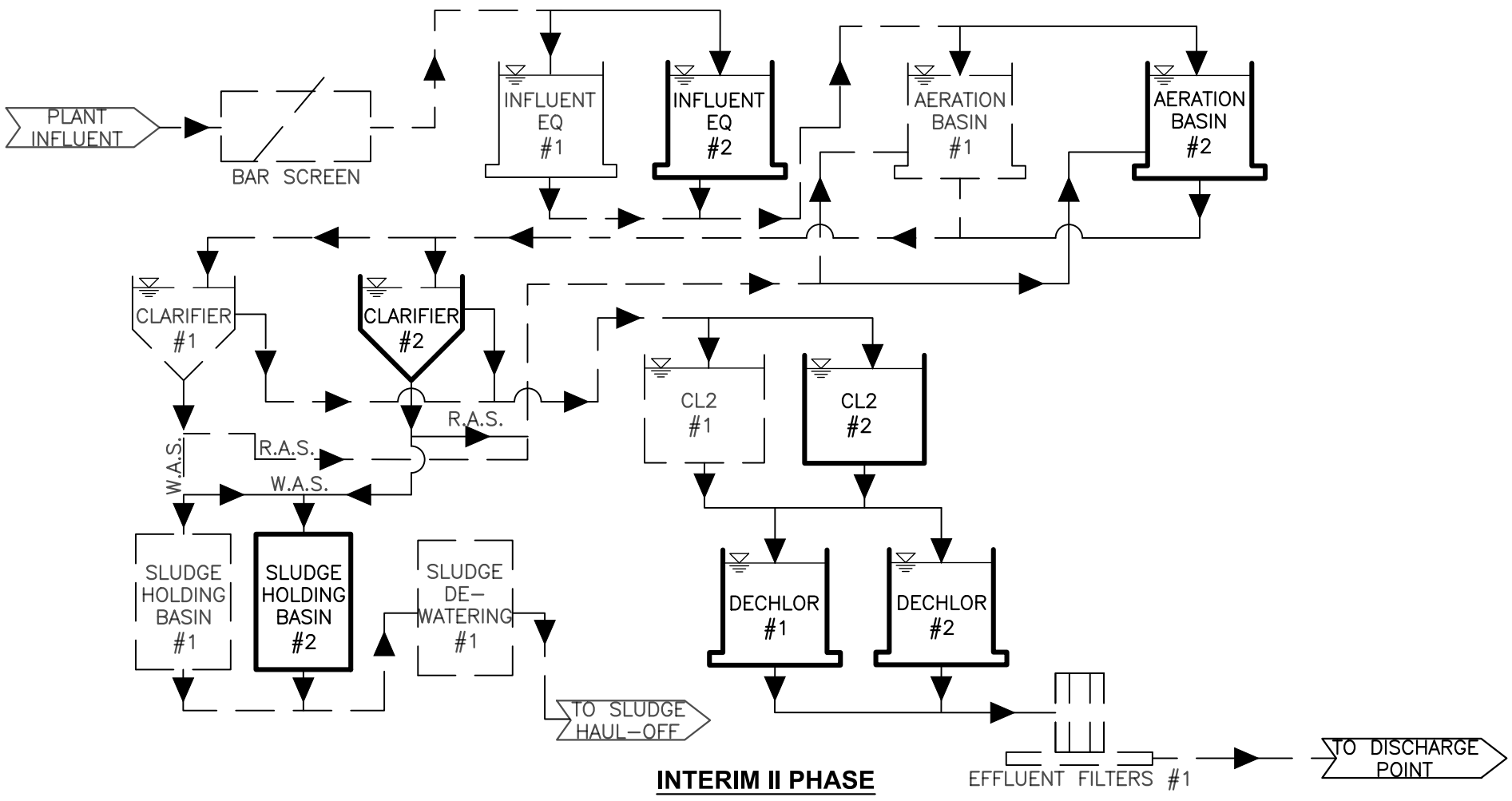
ATTACHMENT L

FLOW DIAGRAM

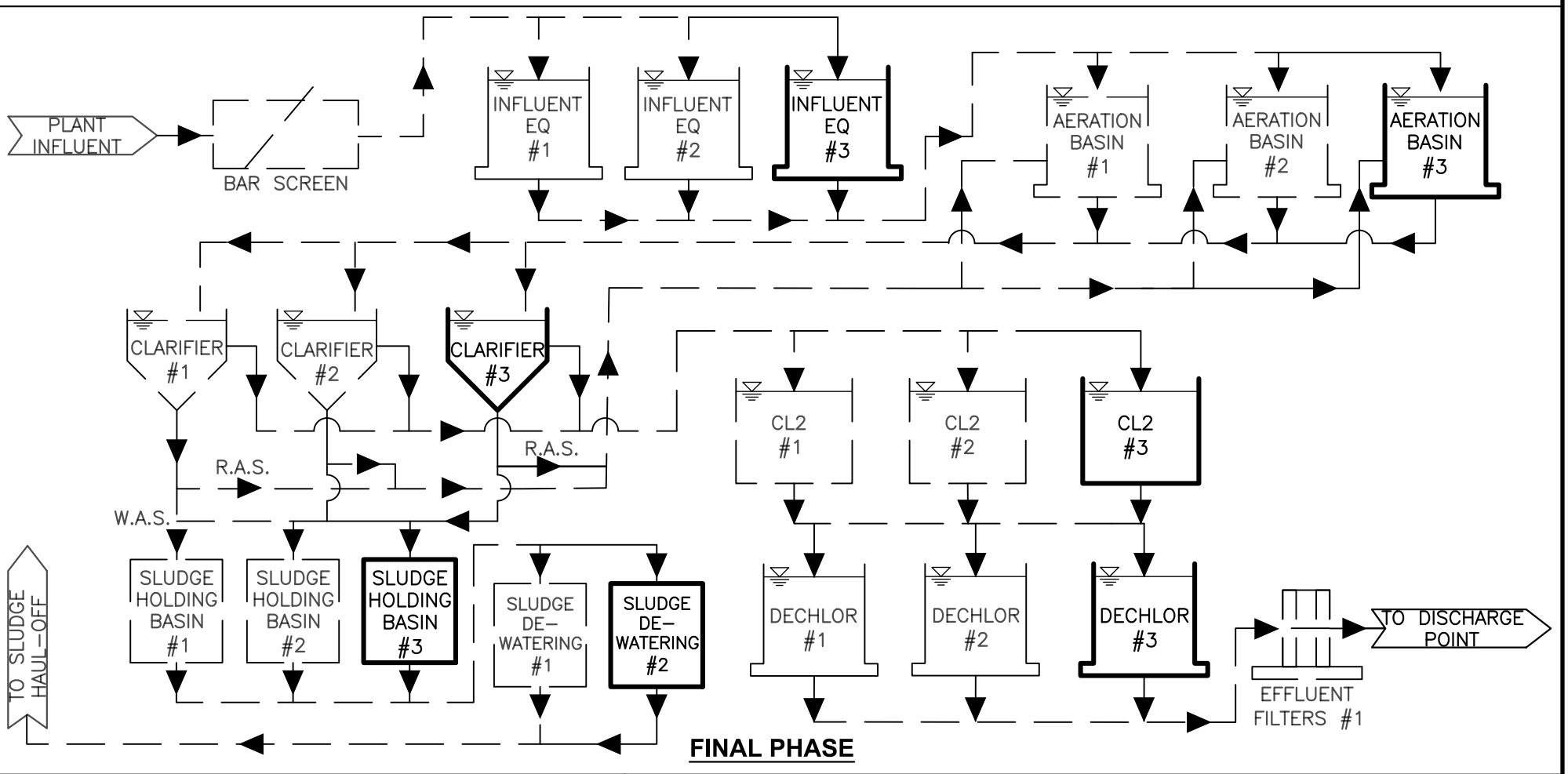
FILE: ATTACHMENT L – FLOW DIAGRAM.dwg TAB: ATTACHMENT I PLOTTED: 9/3/2025 3:29 PM BY: MIKE BEVILACQUA



INTERIM I PHASE



INTERIM II PHASE



FINAL PHASE

BAXTER & WOODMAN Consulting Engineers
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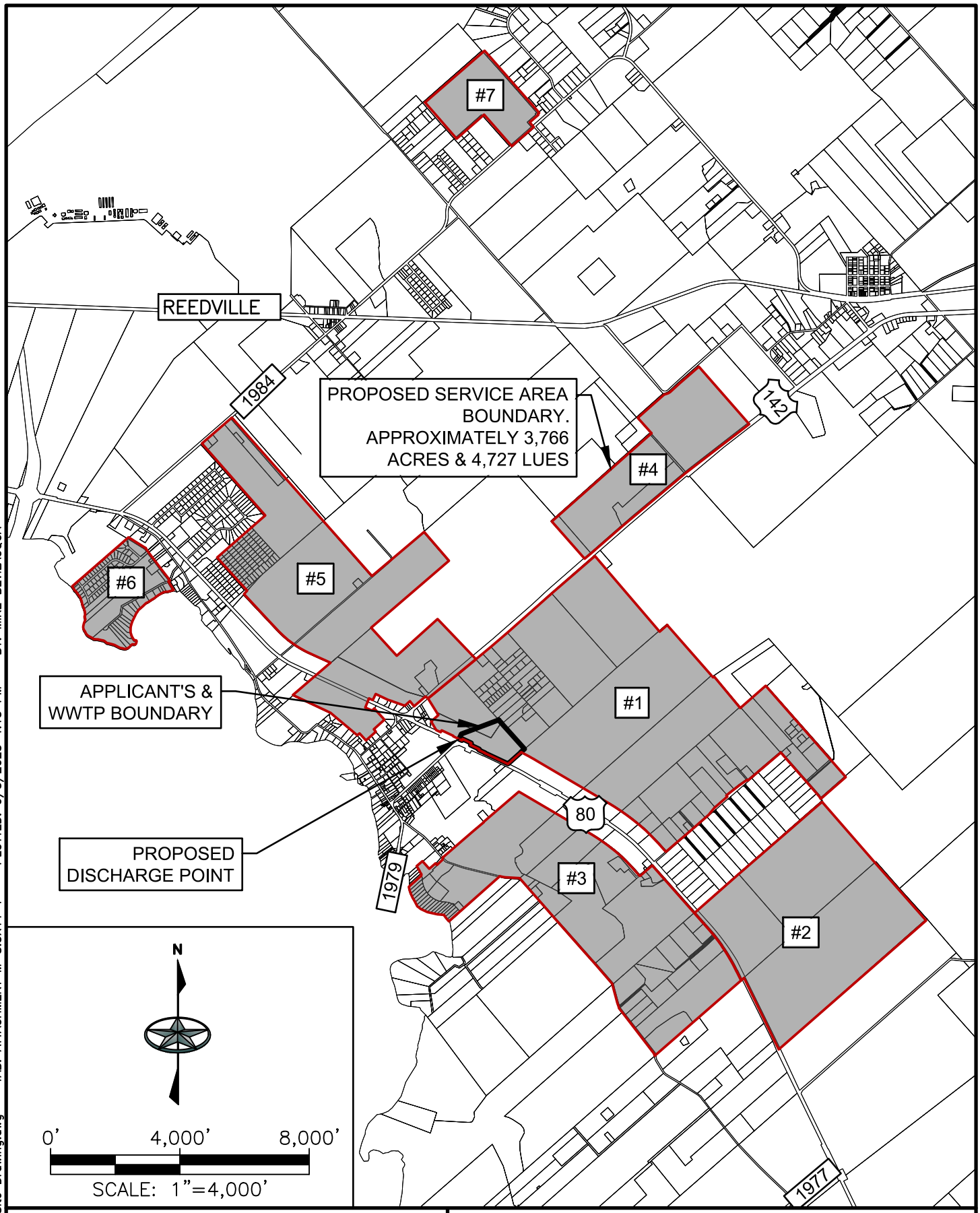
TEXAS REGISTERED ENGINEERING FIRM F–21783

SILVER CROSSING, LLC
SILVER CROSSING WWTP

ATTACHMENT L - FLOW DIAGRAM

ATTACHMENT M

SITE DRAWING



FILE: ATTACHMENT M – Site Drawing.dwg TAB: ATTACHMENT M-8.5X11-P PLOTTED: 9/3/2025 4:15 PM BY: MIKE BEVILACQUA

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CEDAR PARK, TEXAS 78613
(281)350-7027
TEXAS REGISTERED ENGINEERING FIRM F-21783

SILVER CROSSING, LLC
SILVER CROSSING WWTP

ATTACHMENT M - SITE DRAWING

ATTACHMENT N

FLOW PROJECTIONS

SILVER CROSSING, LLC
SILVER CROSSING WWTP
Attachment N - Flow Projections

Silver Crossing WWTP Service Area and Flow Summary

Tract	Area (acres)	Projected LUEs/Acre	Projected LUE's to be Served	Max Flow per LUE (gpd/LUE)	Projected Max Flow (gpd)
1	1193	1	1193	245	292,285
2	619	1	619	245	151,655
3	714	1	714	245	174,930
4	279	1	279	245	68,355
5	707	2	1414	245	346,430
6	133	2	266	245	65,170
7	121	2	242	245	59,290
TOTAL:	***3766***		***4,727***		***1,158,115***

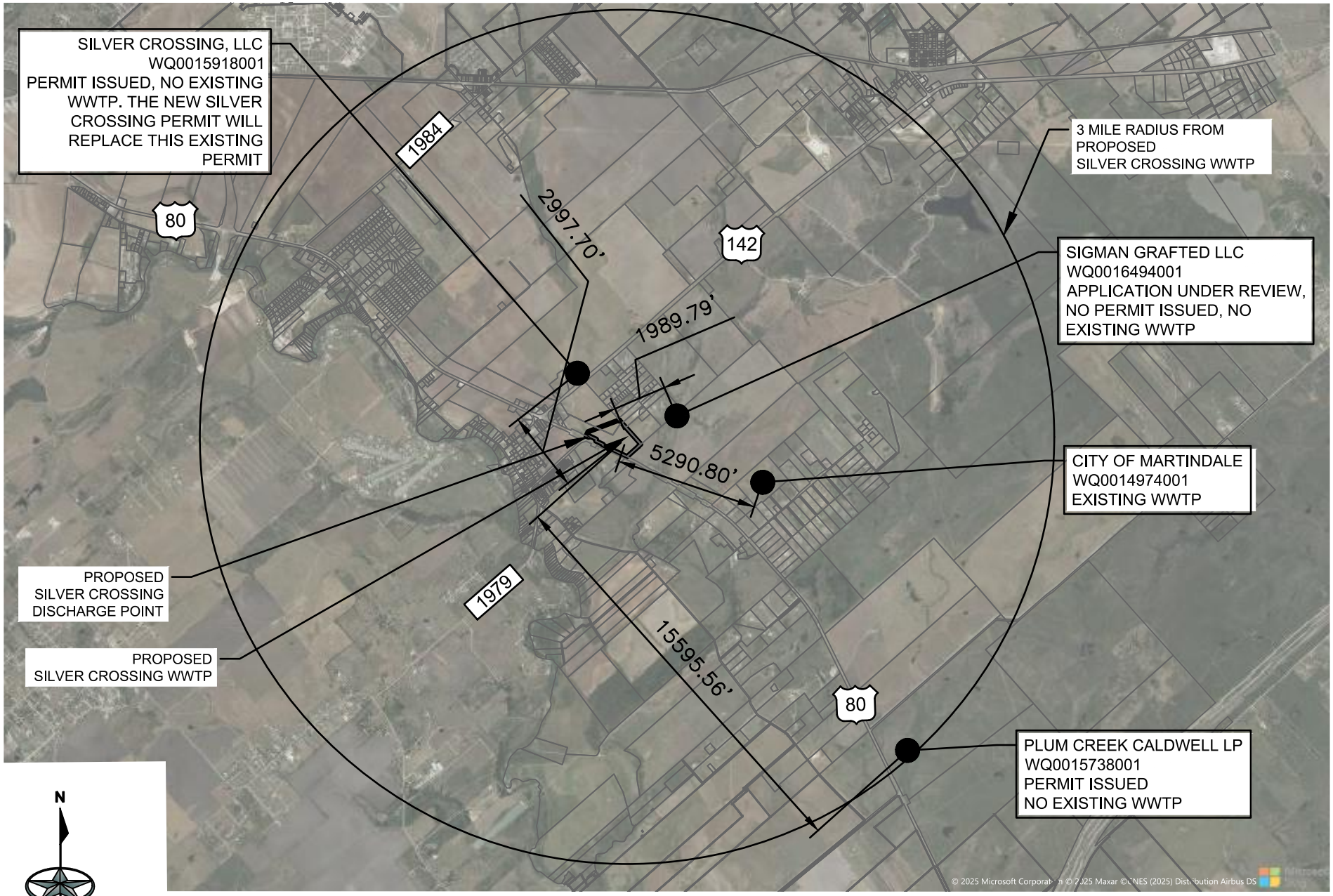
Silver Crossing WWTP Yearly LUE and Flow Projection

Year*	LUEs Connected	Cumulative LUE's Connected	Max Monthly Flow (gpd)	WWTP Phase
2027	50	50	12,250	Interim I
2028	200	250	61,250	Interim I
2029	350	600	147,000	Interim I
2030	450	1050	257,250	Interim I
2031	575	1625	398,125	Interim II
2032	600	2225	545,125	Interim II
2033	575	2800	686,000	Interim II
2034	550	3350	820,750	Final
2035	525	3875	949,375	Final
2036	450	4325	1,059,625	Final
2037	402	4727	1,158,115	Final

*Assumes permit is issued December 2026

ATTACHMENT O

NEARBY WWTPS



N

0' 5,000' 10,000'

SCALE: 1"=5,000'

FILE: ATTACHMENT O – NEARBY WWTPS.dwg TAB: ATTACHMENT O PLOTTED: 9/4/2025 2:27 PM BY: GLENN POPE

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(281)350-7027
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SILVER CROSSING, LLC
SILVER CROSSING WWTP

ATTACHMENT O - NEARBY WWTP EXHIBIT

BAXTER & WOODMAN
Consulting Engineers

September 4, 2025

Diana Guevara Garza – City Clerk
City of Martindale
409 Main Street
Martindale, TX 78655

Re: Wastewater Service and
New TPDES Permit Application for
Silver Crossing, LLC

Ms. Guevara Garza,

We are currently working on an application for a new wastewater treatment facility discharge permit with an ultimate capacity of 1.2 million gallons per day (MGD) in Caldwell County. Our proposed facility will be located approximately 1 mile southwest of your existing WWTP site. TCEQ requires us to contact entities with an existing permitted plant or existing collection system within three (3) miles of our site. Your permit WQ0014974001 with a capacity of 0.057-mgd is within 3 miles of our proposed facility. Please let us know if you are willing to and/or have the extra capacity in your facilities to accommodate this additional flow.

Please respond in writing to Mike Bevilacqua at the address in the footer of this letter or e-mail a copy of your response to mbevilacqua@baxterwoodman.com.Thank you in advance for your prompt attention regarding this matter.

Respectfully submitted,

Michael Bevilaqua, P.E.
BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS

Texas Registered Engineering Firm F-21783

9589 0710 5270 2628 4393 37

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Martindale, TX 78655

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Extra Services & Fees (check box, add fee as appropriate)		
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☐ Adult Signature Required	$	$0.00
☐ Adult Signature Restricted Delivery	$	
Postage	$0.78	
Total Postage and Fees	$10.48	

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12

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CEDAR PARK TX 78613

09/04/2025

Sent To: Diana Guevara Garza City of Martindale

Street and Apt. No., or PO Box No.: 409 Main Street

City, State, ZIP+4®: Martindale, TX 78655

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

ATTACHMENT P

PRELIMINARY DESIGN CALCULATIONS

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
SUMMARY

PARAMETERS

Anticipated Influent Flows:

Average Daily Flow:	245	gpd/connection

Treatment Description:

Conventional activated sludge process mode to treat municipal wastewater.
System to include headworks, influent equalization, aeration, clarifier, chlorine contact, tertiary filtration, and sludge holding.

Design WWTP Influent Flows:

	Phase 1	Phase 2	Phase 3
Average Daily (gpd):	395,000	800,000	1,200,000
Peak Daily (2-Hr Peak) (gpd):	1,580,000	3,200,000	4,800,000

Design Influent Loading:

BOD_5 (mg/l)=	300	300	300
TSS (mg/l)=	300	300	300
NH3N (mg/l)=	35	35	35
Total Nitrogen (mg/l)=	70	70	70
Total Phosphorus (mg/l)=	10	10	10

Design Effluent Water Quality Parameters:

$CBOD_5$ (mg/l)=	5	5	5
TSS (mg/l)=	5	5	5
NH3N (mg/l)=	2	2	2
Chorine Residual (after 20 minutes) (mg/l)=	1	1	1
Dissolved Oxygen (mg/l)	4	4	4
Total Phosphorus (mg/l)	0.5	0.5	0.5
E. coli (mpn/1000mL)	126	126	126
pH minimum (SU)	6	6	6
pH maximum (SU)	9	9	9

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
SUMMARY

PROPOSED FACILITIES

	Phase 1	Phase 2	Phase 3
Process:			
Total Plant BOD5 Loading (lbs/day):	971.8	1968.2	2952.4
TSS Loading (lbs/day):	971.8	1968.2	2952.4
MLSS (mg/l):	3,000	3,000	3,000
Hydraulic Retention Time (days):	0.66	0.66	0.66
Minimum Hydraulic Retention Time Required (Hours):	15.00	15.00	15.00
Hydraulic Retention Time Proposed (Hours):	15.93	15.73	15.73
Aerobic Sludge Residence Time Required (days):	3 to 10	3 to 10	3 to 10
Aerobic Sludge Residence Time Proposed (days):	5.69	5.64	5.21
Food to Mass Ratio:	0.151	0.153	0.153
Sludge Yield (lbs/day):	1,152	2,326	3,776
Sludge Yield (gpd): (1.5%)	9,206	18,596	30,185
Influent Equalization Basin Volume Proposed (% of ADF)	33.18%	32.76%	32.76%
Influent Equalization Basin Volume Required (cf)	15,841	32,083	48,125
Influent Equalization Basin Volume Proposed (cf)	17,520	35,040	52,560
Aeration Basin:			
Max Organic Loading (lbs/day/1,000 cf):	35	35	35
Proposed Organic Loading (lbs/day/1,000 cf):	27.73	28.09	28.09
Minimum Required Volume for BOD (cf):	27,766	56,235	84,353
Minimum Required Volume for Nitrification (cf):	28,074	56,859	85,288
Proposed Volume (cf):	35,040	70,080	105,120

	Phase 1	Phase 2	Phase 3
Clarifier:			
Max Surface Loading at PDF (gpd/sf):	1,200	1,200	1,200
Proposed Surface Loading at PDF (gpd/sf):	863	874	874
Max Surface Loading at ADF (gpd/sf):	600	600	600
Proposed Surface Loading at ADF (gpd/sf):	216	218	218
Min Detention Time at PDF (hrs):	1.8	1.8	1.8
Proposed Detention Time at PDF (hrs):	3.54	3.49	3.49
Minimum Required Surface Area (sf):	1,317	2,667	4,000
Proposed Surface Area (sf):	1,831	3,662	5,492
Minimum Required Volume (cf):	15,841	32,083	48,125
Proposed Volume (cf):	31,123	62,246	93,369
Minimum Required Weir Length (ft):	79	160	160
Proposed Weir Length (ft):	150	300	450
Stilling Well Diameter (ft)	13	13	13
Max Stilling Well Velocity at PDF (ft/s)	0.15	0.15	0.15
Proposed Stilling Well Velocity at PDF (ft/s)	0.018	0.037	0.056

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
SUMMARY

Chlorine Contact Basin:			
Min Detention Time at PDF (min):	20	20	20
Minimum Required Volume (cf):	2,933.6	5,941.4	8,912.1
Proposed Volume (cf):	4,680.0	9,360.0	14,040.0
Flow Area (sqft)	180.0	360.0	540.0
Detention Time at PDF (min):	31.9	31.5	31.5
Sludge Holding Basin:			
Minimum Required Volume (cf): (200lbs/1000-cf, or 15-day minimum detention time)	18,459	37,290	60,527
Proposed Volume (cf):	20,520	41,040	61,560
Proposed Detention Time (days):	17	17	15
Air Supply:			
Min Air Supply - Aeration (scfm):	2,374	4,806	7,210
Min Air Supply - Digester (scfm):	616	1231	1847
Min Air Supply - Air Lift Pumps (scfm):	385	490	735
Min Air Supply - Influent EQ (scfm):	438	876	1,314
Min Total Air Supply (scfm):	3,813	7,404	11,105
Proposed Air Supply (cfm):	4000	8000	12000

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
SIZING

INFLUENT EQUALIZATION

	Phase 1		Phase 2		Phase 3	
Minimum Volume Required:	15,841	cf	32,083	cf	48,125	cf
No. of Basins:	1		2		3	
Proposed SWD:	20	ft	20	ft	20	ft
Length (Ea. Basin):	73	ft	73	ft	73	ft
Width (Ea. Basin):	12	ft	12	ft	12	ft
Proposed Volume:	**17,520**	**cf**	**35,040**	**cf**	**52,560**	**cf**

AERATION BASIN

	Phase 1		Phase 2		Phase 3	
Minimum Volume Required:	28,074	cf	56,859	cf	85,288	cf
No. of Basins:	1		2		3	
Proposed SWD:	20	ft	20	ft	20	ft
Length (Ea. Basin):	73	ft	73	ft	73	ft
Width (Ea. Basin):	24	ft	24	ft	24	ft
Proposed Volume:	**35,040**	**cf**	**70,080**	**cf**	**105,120**	**cf**

SLUDGE HOLDING

	Phase 1		Phase 2		Phase 3	
Minimum Volume Required:	18,459	cf	37,290	cf	60,527	cf
No. of Basins:	1		2		3	
Proposed SWD:	18	ft	18	ft	18	ft
Length (Ea. Basin):	30	ft	30	ft	30	ft
Width (Ea. Basin):	38	ft	38	ft	38	ft
Proposed Volume:	**20,520**	**cf**	**41,040**	**cf**	**61,560**	**cf**

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
SIZING

CLARIFIER

	Phase 1		Phase 2		Phase 3	
Minimum Surface Area Required:	1,317	sf	2,667	sf	4,000	sf
Minimum Volume Required:	15,841	cf	32,083	cf	48,125	cf
Minimum Weir Length Required:	79	ft	160	ft	160	ft
No. of Clarifiers:	1		2		3	
Proposed SWD:	17	ft	17	ft	17	ft
Proposed Diameter:	50		50		50	
Proposed Stilling Well Diameter:	13	ft	13	ft	13	ft
Proposed Weir Length:	150	ft	300	ft	450	ft
Proposed Area:	**1,831**	**sf**	**3,662**	**sf**	**5,492**	**sf**
Proposed Volume:	**31,123**	**cf**	**62,246**	**cf**	**93,369**	**cf**

CHLORINE CONTACT

	Phase 1		Phase 2		Phase 3	
Minimum Volume Required:	2,933.6	cf	5,941.4	cf	8,912.1	cf
No. of Basins	1		2		3	
Proposed SWD:	15	ft	15	ft	15	ft
Width (Ea. Basin):	12	ft	12	ft	12	ft
Length (Ea. Basin):	26	ft	26	ft	26	
Total Volume:	4,680.00	cf	9,360.00	cf	14,040.00	cf
Proposed Usable Volume:	**4,680.00**	**cf**	**9,360.00**	**cf**	**14,040.00**	**cf**
Peak Flow:	2.44	cfs	4.95	cfs	7.43	cfs
Flow Area	180.00	sqft	360.00	sqft	540.00	sqft
Detention Time at Peak Flow:	**31.91**	**min**	**31.51**	**min**	**31.51**	**min**

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
INTERIM PHASE I

PARAMETERS

Influent:			*Effluent:*		
Q =	395,000	GPD	S =	5	mg/l, BOD_{5eff}
Qp_1 =	1,580,000	GPD to Headworks	TSSeff =	5	mg/l
Qp_2 =	1,580,000	GPD downstream of Infl EQ (N/A)	NH_3N =	2	mg/l
So =	300	mg/l, BOD_5infl	Chlorine Residual =	1	mg/l @ 20 min det
TSSinf =	300	mg/l			
Chemical Oxygen Demand (COD) =	545	mg/l .3-.8 (BOD/COD), used 0.55			
TKN =	70	mg/l			
NH_3N =	35	mg/l			
Organic $N_{14^\circ C}$ =	35	mg/l			
Winter Temp. Min. =	15	°C			
Summer Temp. Max. =	29	°C			
MLSS =	3,000	mg/l, conc. Of suspended solids in aeration tank			
MLVSS =	70	% of MLSS			
MLVSS (X) =	2100	mg/l, conc. Of volatile suspended solids in aeration tank			

COEFFICIENTS

θc =	30	days, mean cell residence time
Y =	0.4	maximum yield coefficient, range: 0.3 - 0.5 (Metcalf & Eddy Table 8-10)
Y_n =	0.12	g VSS / g NH4-N, range: 0.1 - 0.15 (Metcalf & Eddy Table 8-11)
K_o =	0.5	g / m^3, range: 0.40 - 0.60 (Metcalf & Eddy Table 8-11)
k_d =	0.12	day^-1, endogenous decay coefficient, range: 0.06 - 0.2 (Metcalf & Eddy Table 8-10)
k_d =	1.04	unitless, range: 1.03 - 1.08 (Metcalf & Eddy Table 8-10)
$k_{d,\ 14^\circ C}$ =	0.099	g/g*d
K_{dn} =	0.080	g VSS / g VSS*d, range: 0.05 - 0.15 (Metcalf & Eddy Table 8-10)
K_{dn} =	1.04	unitless, range: 1.03 - 1.08 (Metcalf & Eddy Table 8-11)
$K_{dn,\ 14^\circ C}$ =	0.066	g/g*d
K_n =	0.740	g NH4-N / m^3, range: 0.5 - 1.0 (Metcalf & Eddy Table 8-11)
K_n =	1.053	unitless, range: 1.03 - 1.123 (Metcalf & Eddy Table 8-11)
$K_{n,\ 14^\circ}C$ =	0.572	g / m^3
μ_{mn} =	0.750	g VSS / g VSS*d, range: 0.20 - 0.90 (Metcalf & Eddy Table 8-11)
μ_n =	1.070	unitless, range: 1.06 - 1.123 (Metcalf & Eddy Table 8-11)
$\mu_{m,\ 14^\circ C}$ =	0.535	g /g*d
f_d =	0.150	unitless, range: 0.08 - 0.2 (Metcalf & Eddy Table 8-10)

DESIGN CALCULATIONS

A. BOD_5 Loading

$$F = \frac{8.34 \times Q \times (S_o - S)}{10^6}$$

F = **971.8** lb BOD_5 /day

B. TSS Loading

$$TSS = \frac{8.34 \times Q \times (TSS_{\text{inf}} - TSS_{eff})}{10^6}$$

TSS = **971.8** lb TSS /day

C. Micro-organism Mass in Aeration Basin

$$M_v = F \times \frac{\theta_c \times Y}{1 + (k_d \times \theta_c)}$$

Mv = **2535** lb

D. Aeration Volume

$$V = \frac{Q \times \theta_c}{X} \times \frac{Y \times (S_o - S)}{1 + (k_d \times \theta_c)}$$

Min Volume (gal): 144,751.55
Min Volume (cf): 19,351

TCEQ Max. Organic Loading: 35 lbs BOD5/day/1000 cf (TCEQ Chap. 217.154: Conventional with Nitrification, Temps > 15°C)

Min Volume (cf): 27,766

Min Volume (cf): 27,766 For BOD Reduction

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
INTERIM PHASE I

E. Nitrification

pH:	7.2		
DO (mg/L):	2.0	Dissolved Oxygen	
Ko:	0.5	Half-Saturation coefficient for DO (Metcalf & Eddy Table 8-11)	
Temp (°C):	15.0		
Effluent NH3 (mg/L):	2.0		
Temperature Term, Tt:	1.00		Tt=e^(0.098*(T-15))
DO Term, DOt:	0.80		DOt=DO/(Ko+DO)
pH Term, pHt:	1.00		pHt=1-0.833*(7.2-pH)
Kn:	0.40	Half-Saturation coefficient for oxidation of ammonia	Kn=10^(0.051*T-1.158)
NH3 Term, NH3t:	0.83		NH3t=NH3/(Kn+NH3)
Nitrifier Growth Rate (days^-1):	0.33		Growth Rate=0.5*Tt*pHt*DOt*NH3t
Aerobic SRT Required (days):	3.01		SRT=1/Nitrifier Growth Rate
Safety Factor:	2.0	Typical Range: 1.5 - 2.5	
Min Required Aerobic SRT (days):	**6.0**		
Minimum Aerobic Volume (cf):	**28,074.1**	**For Nitrification**	

F. Sludge Yield

	0.9	lbs Sludge / lb BOD
Sludge Yield:	875	lbs/day
Additional Sludge from P removal:	277	lbs/day
Total Sludge Yield	1,152	
Assume Percent Solids =	1.5	%
Q_{sludge} =	**9,206**	**gal/day**

G. Clarifier

Max Surface Loading:	1,200	gpd/sf at Peak Flow	(Aqua Texas Design Criteria, stricter than TCEQ of 1,200 maximum)
Max Surface Loading:	600	gpd/sf at Design Flow	
Min Detention Time:	1.8	hrs at Peak Flow	(Aqua Texas Design Criteria, stricter than TCEQ of 1.8)
Max Weir Loading:	20,000	gpd/lf at Peak Flow	
Minimum Surface Area:	**1,317**	**sf**	
Minimum Volume:	**118,500**	**gallons =**	**15841.2 cf**
Minimum Weir Length:	**79**	**lf**	

H. Return Activated Sludge

Minimum Rate:	**50%**	**of Design Flow =**	**137.2**	**gpm**	Per Aqua Texas Design Criteria
Maximum Rate:	**150%**	**of Design Flow =**	**411.5**	**gpm**	Per Aqua Texas Design Criteria

Provide:	**11**	**6" Air Lift Pumps or**	**6**	**8" Air Lift Pumps**	(If Air Lift Pumps Utilized)

I. Sludge Holding Basin

Max Loading:	200	lbs volatile solids per day / 1,000 cf (TCEQ Chap. 217.249.j.5)
Sludge Yield (lbs/day):	1,152	
Volatile Portion:	70%	
Min Basin Volume (cf):	4,031	
Minimum Detention Time:	15	days (TCEQ Chap. 217.249.j.4)
Sludge Yield (gpd):	9,206	
Min Basin Volume (cf):	18,459	
Min Required Basin Volume (cf):	**18,459.5**	

J. Chlorine Contact Basin

Minimum Detention Time:	20	minutes at Peak Flow		
Minimum Volume:	**21,944.44**	**gallons =**	**2,933.6**	**cf**

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ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
INTERIM PHASE I

K. Aeration

1. Aeration Basins

Minimum oxygen requirement = 3,200 scf per lb BOD_5 per day @ 12' submergence and 20 deg C

Diffuser Submergence Depth (ft)	Airflow Correction Factor
8	1.82
10	1.56
12	1.00
15	0.91
18	0.73
20	0.64

38.8857
11.83465

Diffuser Submergence Depth = 20 ft
Correction Factor = 0.91

Minimum oxygen requirement = 2,374 scfm @ 20 deg C

2. Digester

Oxygen Requirement = 30 scfm per 1,000 ft^3

Minimum oxygen requirement = 616 scfm

3. Air Lift Pumps

Minimum air requirement = 385 scfm

4. Other

Initial Mixing (Influent EQ) = 25 scfm per 1,000 ft^3

Minimum air requirement = 438 scfm

5. Total

Total Air Flow Requirement = 3,813 scfm

L. Fine Screen

Bar Spacing: 0.25 in
Average Flow Rate: 0.4 MGD
Approximate Volume of Screenings: 13 cf/MG

Anticipated Volume of Screenings: 5.135 cf per day 1.33 CY Per Week

COARSE SCREEN (BYPASS/OVERFLOW BAR SCREEN)

Influent Flow Rate

Average Influent Flow Rate:	0.40	MGD	=	274	gpm	=	0.611	cfs
Peak Influent Flow Rate:	1.58	MGD	=	1097	gpm	=	2.445	cfs

Channel Geometry

Channel Width: 2.00 ft
Design Channel Flow Depth: 0.5 ft
Max. Channel Depth: 1.0 ft

Bar Rack Geometry

Bar Size: 0.625 in
Clear Space Between Bars: 0.500 in 0.5 to 1 inch per TCEQ
Incline Angle: 45 degrees

No. of Bars in Rack: 22
Clear Space: 0.8541667 sf per ft of channel depth

Headloss thru Bar Screen

Channel Area (Avg): 1.0 sf
Channel Area (Max): 2.0 sf
Approach Velocity (Avg): 0.611 fps (using design channel depth)
Approach Velocity (Peak): 1.222 fps (using max. channel depth)

$$HeadLoss = \frac{V^2 - v^2}{0.7 \times 2 \times g}$$

Bar Screen Area (Avg): 0.43 sf
Bar Screen Area (Max): 0.85 sf
Velocity Through Bars (Avg): ***1.43*** fps (using design channel depth) 1 to 3 ft/s at design flow per TCEQ
Velocity Through Bars (Max): ***2.86*** fps (using max. channel depth)

SILVER CROSSING, LLC
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ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
INTERIM PHASE II

PARAMETERS

Influent:			*Effluent:*		
Q =	800,000	GPD	S =	5	mg/l, BOD_{5eff}
Qp_1 =	3,200,000	GPD to Headworks	TSSeff =	5	mg/l
Qp_2 =	3,200,000	GPD downstream of Infl EQ (N/A)	NH_3N =	2	mg/l
So =	300	mg/l, BOD_5infl	Chlorine Residual =	1	mg/l @ 20 min det
TSSinf =	300	mg/l			
Chemical Oxygen Demand (COD) =	545	mg/l .3-.8 (BOD/COD), used 0.55			
TKN =	70	mg/l			
NH_3N =	35	mg/l			
Organic $N_{14° C}$ =	35	mg/l			
Winter Temp. Min. =	15	°C			
Summer Temp. Max. =	29	°C			
MLSS =	3,000	mg/l, conc. Of suspended solids in aeration tank			
MLVSS =	70	% of MLSS			
MLVSS (X) =	2100	mg/l, conc. Of volatile suspended solids in aeration tank			

COEFFICIENTS

θc =	30	days, mean cell residence time
Y =	0.4	maximum yield coefficient, range: 0.3 - 0.5 (Metcalf & Eddy Table 8-10)
Y_n =	0.12	g VSS / g NH4-N, range: 0.1 - 0.15 (Metcalf & Eddy Table 8-11)
K_o =	0.5	g / m^3, range: 0.40 - 0.60 (Metcalf & Eddy Table 8-11)
k_d =	0.12	day^-1, endogenous decay coefficient, range: 0.06 - 0.2 (Metcalf & Eddy Table 8-10)
k_d =	1.04	unitless, range: 1.03 - 1.08 (Metcalf & Eddy Table 8-10)
$k_{d,\ 14°C}$ =	0.099	g/g*d
K_{dn} =	0.080	g VSS / g VSS*d, range: 0.05 - 0.15 (Metcalf & Eddy Table 8-10)
K_{dn} =	1.04	unitless, range: 1.03 - 1.08 (Metcalf & Eddy Table 8-11)
$K_{dn,\ 14°C}$ =	0.066	g/g*d
K_n =	0.740	g NH4-N / m^3, range: 0.5 - 1.0 (Metcalf & Eddy Table 8-11)
K_n =	1.053	unitless, range: 1.03 - 1.123 (Metcalf & Eddy Table 8-11)
$K_{n,\ 14}$-C =	0.572	g / m^3
μ_{mn} =	0.750	g VSS / g VSS*d, range: 0.20 - 0.90 (Metcalf & Eddy Table 8-11)
μ_n =	1.070	unitless, range: 1.06 - 1.123 (Metcalf & Eddy Table 8-11)
$\mu_{m,\ 14°C}$ =	0.535	g /g*d
f_d =	0.150	unitless, range: 0.08 - 0.2 (Metcalf & Eddy Table 8-10)

DESIGN CALCULATIONS

A. BOD_5 Loading

$$F = \frac{8.34 \times Q \times (S_o - S)}{10^6}$$

F = **1968.2** lb BOD_5 /day

B. TSS Loading

$$TSS = \frac{8.34 \times Q \times (TSS_{\text{inf}} - TSS_{eff})}{10^6}$$

TSS = **1968.2** lb TSS /day

C. Micro-organism Mass in Aeration Basin

$$M_v = F \times \frac{\theta_c \times Y}{1 + (k_d \times \theta_c)}$$

Mv = **5135** lb

D. Aeration Volume

$$V = \frac{Q \times \theta_c}{X} \times \frac{Y \times (S_o - S)}{1 + (k_d \times \theta_c)}$$

Min Volume (gal): 293,167.70
Min Volume (cf): 39,191

TCEQ Max. Organic Loading: 35 lbs BOD5/day/1000 cf (TCEQ Chap. 217.154: Conventional with Nitrification, Temps > 15°C)

Min Volume (cf): 56,235

Min Volume (cf): 56,235 For BOD Reduction

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ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
INTERIM PHASE II

E. Nitrification

pH:	7.2		
DO (mg/L):	2.0	Dissolved Oxygen	
Ko:	0.5	Half-Saturation coefficient for DO (Metcalf & Eddy Table 8-11)	
Temp (°C):	15.0		
Effluent NH3 (mg/L):	2.0		
Temperature Term, Tt:	1.00		Tt=e^(0.098*(T-15))
DO Term, DOt:	0.80		DOt=DO/(Ko+DO)
pH Term, pHt:	1.00		pHt=1-0.833*(7.2-pH)
Kn:	0.40	Half-Saturation coefficient for oxidation of ammonia	Kn=10^(0.051*T-1.158)
NH3 Term, NH3t:	0.83		NH3t=NH3/(Kn+NH3)
Nitrifier Growth Rate (days^-1):	0.33		Growth Rate=0.5*Tt*pHt*DOt*NH3t
Aerobic SRT Required (days):	3.01		SRT=1/Nitrifier Growth Rate
Safety Factor:	2.0	Typical Range: 1.5 - 2.5	
Min Required Aerobic SRT (days):	**6.0**		
Minimum Aerobic Volume (cf):	**56,859.0**	**For Nitrification**	

F. Sludge Yield

	0.9	lbs Sludge / lb BOD
Sludge Yield:	1,771	lbs/day
Additional Sludge from P removal:	555	lbs/day
Total Sludge Yield	2,326	
Assume Percent Solids =	1.5	%
Q_{sludge} =	**18,596**	**gal/day**

G. Clarifier

Max Surface Loading:	1,200	gpd/sf at Peak Flow	(Aqua Texas Design Criteria, stricter than TCEQ of 1,200 maximum)
Max Surface Loading:	600	gpd/sf at Design Flow	
Min Detention Time:	1.8	hrs at Peak Flow	
Max Weir Loading:	20,000	gpd/lf at Peak Flow	
Minimum Surface Area:	**2,667**	**sf**	
Minimum Volume:	**240,000**	**gallons =**	**32083.4 cf**
Minimum Weir Length:	**160**	**lf**	

H. Return Activated Sludge

Minimum Rate:	**50%**	**of Design Flow =**	**277.8**	**gpm**	
Maximum Rate:	**100%**	**of Design Flow =**	**555.6**	**gpm**	
Provide:	**14**	**6" Air Lift Pumps or**	**8**	**8" Air Lift Pumps**	(If Air Lift Pumps Utilized)

I. Sludge Holding Basin

Max Loading:	200	lbs volatile solids per day / 1,000 cf (TCEQ Chap. 217.249.j.5)
Sludge Yield (lbs/day):	2,326	
Volatile Portion:	70%	
Min Basin Volume (cf):	8,142	
Minimum Detention Time:	15	days (TCEQ Chap. 217.249.j.4)
Sludge Yield (gpd):	18,596	
Min Basin Volume (cf):	37,290	
Min Required Basin Volume (cf):	**37,289.9**	

J. Chlorine Contact Basin

Minimum Detention Time:	20	minutes at Peak Flow		
Minimum Volume:	**44,444.44**	**gallons =**	**5,941.4**	**cf**

SILVER CROSSING, LLC
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ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
INTERIM PHASE II

K. Aeration

1. Aeration Basins

Minimum oxygen requirement = 3,200 scf per lb BOD_5 per day @ 12' submergence and 20 deg C

Diffuser Submergence Depth (ft)	Airflow Correction Factor
8	1.82
10	1.56
12	1.00
15	0.91
18	0.73
20	0.64

Diffuser Submergence Depth = 20 ft
Correction Factor = 0.91

Minimum oxygen requirement = 4,806 scfm @ 20 deg C

2. Digester

Oxygen Requirement = 30 scfm per 1,000 ft^3

Minimum oxygen requirement = 1231 scfm

3. Air Lift Pumps

Minimum air requirement = 490 scfm

4. Other

Initial Mixing (Influent EQ) = 25 scfm per 1,000 ft^3

Minimum air requirement = 876 scfm

5. Total

Total Air Flow Requirement = 7,404 scfm

L. Fine Screen

Bar Spacing: 0.25 in
Average Flow Rate: 0.8 MGD
Approximate Volume of Screenings: 13 cf/MG

Anticipated Volume of Screenings: 10.4 cf per day 2.70 CY Per Week

COARSE SCREEN (BYPASS/OVERFLOW BAR SCREEN)

Influent Flow Rate

Average Influent Flow Rate:	0.80	MGD	=	556	gpm	=	1.238	cfs
Peak Influent Flow Rate:	3.20	MGD	=	2222	gpm	=	4.951	cfs

Channel Geometry

Channel Width: 2.00 ft
Design Channel Flow Depth: 1.0 ft
Max. Channel Depth: 2.0 ft

Bar Rack Geometry

Bar Size: 0.625 in
Clear Space Between Bars: 0.500 in
Incline Angle: 45 degrees

No. of Bars in Rack: 22
Clear Space: 0.8541667 sf per ft of channel depth

Headloss thru Bar Screen

Channel Area (Avg): 2.0 sf
Channel Area (Max): 4.0 sf
Approach Velocity (Avg): 0.619 fps (using design channel depth)
Approach Velocity (Peak): 1.238 fps (using max. channel depth)

$$HeadLoss = \frac{V^2 - v^2}{0.7 \times 2 \times g}$$

Bar Screen Area (Avg): 0.85 sf
Bar Screen Area (Max): 1.71 sf
Velocity Through Bars (Avg): ***1.45*** fps (using design channel depth) 1 to 3 ft/s at design flow per TCEQ
Velocity Through Bars (Max): ***2.90*** fps (using max. channel depth)

SILVER CROSSING, LLC
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ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
FINAL PHASE

PARAMETERS

Influent:			*Effluent:*		
Q =	1,200,000	GPD	S =	5	mg/l, BOD_{5eff}
Qp_1 =	4,800,000	GPD to Headworks	TSSeff =	5	mg/l
Qp_2 =	4,800,000	GPD downstream of Infl EQ (N/A)	NH_3N =	2	mg/l
So =	300	mg/l, BOD_5infl	Chlorine Residual =	1	mg/l @ 20 min det
TSSinf =	300	mg/l			
Chemical Oxygen Demand (COD) =	545	mg/l	.3-.8 (BOD/COD), used 0.55		
TKN =	70	mg/l			
NH_3N =	35	mg/l			
Organic $N_{14° C}$ =	35	mg/l			
Winter Temp. Min. =	15	°C			
Summer Temp. Max. =	29	°C			
MLSS =	3,000	mg/l, conc. Of suspended solids in aeration tank			
MLVSS =	70	% of MLSS			
MLVSS (X) =	2100	mg/l, conc. Of volatile suspended solids in aeration tank			

COEFFICIENTS

θc =	30	days, mean cell residence time
Y =	0.4	maximum yield coefficient, range: 0.3 - 0.5 (Metcalf & Eddy Table 8-10)
Y_n =	0.12	g VSS / g NH4-N, range: 0.1 - 0.15 (Metcalf & Eddy Table 8-11)
K_o =	0.5	g / m^3, range: 0.40 - 0.60 (Metcalf & Eddy Table 8-11)
k_d =	0.12	day^-1, endogenous decay coefficient, range: 0.06 - 0.2 (Metcalf & Eddy Table 8-10)
k_d =	1.04	unitless, range: 1.03 - 1.08 (Metcalf & Eddy Table 8-10)
$k_{d,\ 14°C}$ =	0.099	g/g*d
K_{dn} =	0.080	g VSS / g VSS*d, range: 0.05 - 0.15 (Metcalf & Eddy Table 8-10)
K_{dn} =	1.04	unitless, range: 1.03 - 1.08 (Metcalf & Eddy Table 8-11)
$K_{dn,\ 14°C}$ =	0.066	g/g*d
K_n =	0.740	g NH4-N / m^3, range: 0.5 - 1.0 (Metcalf & Eddy Table 8-11)
K_n =	1.053	unitless, range: 1.03 - 1.123 (Metcalf & Eddy Table 8-11)
$K_{n,\ 14°}C$ =	0.572	g / m^3
μ_{mn} =	0.750	g VSS / g VSS*d, range: 0.20 - 0.90 (Metcalf & Eddy Table 8-11)
μ_n =	1.070	unitless, range: 1.06 - 1.123 (Metcalf & Eddy Table 8-11)
$\mu_{m,\ 14°C}$ =	0.535	g /g*d
f_d =	0.150	unitless, range: 0.08 - 0.2 (Metcalf & Eddy Table 8-10)

DESIGN CALCULATIONS

A. BOD_5 Loading

$$F = \frac{8.34 \times Q \times (S_o - S)}{10^6}$$

F = **2952.4** lb BOD_5 /day

B. TSS Loading

$$TSS = \frac{8.34 \times Q \times (TSS_{\text{inf}} - TSS_{eff})}{10^6}$$

TSS = **2952.4** lb TSS /day

C. Micro-organism Mass in Aeration Basin

$$M_v = F \times \frac{\theta_c \times Y}{1 + (k_d \times \theta_c)}$$

Mv = **7702** lb

D. Aeration Volume

$$V = \frac{Q \times \theta_c}{X} \times \frac{Y \times (S_o - S)}{1 + (k_d \times \theta_c)}$$

Min Volume (gal): 439,751.55
Min Volume (cf): 58,786

TCEQ Max. Organic Loading: 35 lbs BOD5/day/1000 cf (TCEQ Chap. 217.154: Conventional with Nitrification, Temps > 15°C)

Min Volume (cf): 84,353

Min Volume (cf): 84,353 For BOD Reduction

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ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
FINAL PHASE

E. Nitrification

pH:	7.2		
DO (mg/L):	2.0	Dissolved Oxygen	
Ko:	0.5	Half-Saturation coefficient for DO (Metcalf & Eddy Table 8-11)	
Temp (°C):	15.0		
Effluent NH3 (mg/L):	2.0		
Temperature Term, Tt:	1.00		Tt=e^(0.098*(T-15))
DO Term, DOt:	0.80		DOt=DO/(Ko+DO)
pH Term, pHt:	1.00		pHt=1-0.833*(7.2-pH)
Kn:	0.40	Half-Saturation coefficient for oxidation of ammonia	Kn=10^(0.051*T-1.158)
NH3 Term, NH3t:	0.83		NH3t=NH3/(Kn+NH3)
Nitrifier Growth Rate (days^-1):	0.33		Growth Rate=0.5*Tt*pHt*DOt*NH3t
Aerobic SRT Required (days):	3.01		SRT=1/Nitrifier Growth Rate
Safety Factor:	2.0	Typical Range: 1.5 - 2.5	
Min Required Aerobic SRT (days):	**6.0**		
Minimum Aerobic Volume (cf):	**85,288.5**	**For Nitrification**	

F. Sludge Yield

	0.9	lbs Sludge / lb BOD
Sludge Yield:	2,657	lbs/day
Additional Sludge from P removal:	1,119	lbs/day
Total Sludge Yield	3,776	lbs/day
Assume Percent Solids =	1.5	%
Q_{sludge} =	**30,185**	**gal/day**

G. Clarifier

Max Surface Loading:	1,200	gpd/sf at Peak Flow	(Aqua Texas Design Criteria, stricter than TCEQ of 1,200 maximum)
Max Surface Loading:	600	gpd/sf at Design Flow	
Min Detention Time:	1.8	hrs at Peak Flow	
Max Weir Loading:	30,000	gpd/lf at Peak Flow	
Minimum Surface Area:	**4,000**	**sf**	
Minimum Volume:	**360,000**	**gallons =**	**48125.1 cf**
Minimum Weir Length:	**160**	**lf**	

H. Return Activated Sludge

Minimum Rate:	**50%**	**of Design Flow =**	**416.7**	**gpm**	
Maximum Rate:	**100%**	**of Design Flow =**	**833.3**	**gpm**	
Provide:	**21**	**6" Air Lift Pumps or**	**12**	**8" Air Lift Pumps**	(If Air Lift Pumps Utilized)

I. Sludge Holding Basin

Max Loading:	200	lbs volatile solids per day / 1,000 cf (TCEQ Chap. 217.249.j.5)
Sludge Yield (lbs/day):	3,776	
Volatile Portion:	70%	
Min Basin Volume (cf):	13,216	
Minimum Detention Time:	15	days (TCEQ Chap. 217.249.j.4)
Sludge Yield (gpd):	30,185	
Min Basin Volume (cf):	60,527	
Min Required Basin Volume (cf):	**60,527.1**	

J. Chlorine Contact Basin

Minimum Detention Time:	20	minutes at Peak Flow		
Minimum Volume:	**66,666.67**	**gallons =**	**8,912.1**	**cf**

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT P - PRELIMINARY DESIGN CALCULATIONS
FINAL PHASE

K. Aeration

1. Aeration Basins

Minimum oxygen requirement = 3,200 scf per lb BOD_5 per day @ 12' submergence and 20 deg C

Diffuser Submergence Depth (ft)	Airflow Correction Factor
8	1.82
10	1.56
12	1.00
15	0.91
18	0.73
20	0.64

Diffuser Submergence Depth = 20 ft
Correction Factor = 0.91

Minimum oxygen requirement = 7,210 scfm @ 20 deg C

2. Digester

Oxygen Requirement = 30 scfm per 1,000 ft^3

Minimum oxygen requirement = 1847 scfm

3. Air Lift Pumps

Minimum air requirement = 735 scfm

4. Other

Initial Mixing (Influent EQ) = 25 scfm per 1,000 ft^3

Minimum air requirement = 1,314 scfm

5. Total

Total Air Flow Requirement = 11,105 scfm

L. Fine Screen

Bar Spacing: 0.25 in
Average Flow Rate: 1.2 MGD
Approximate Volume of Screenings: 13 cf/MG

Anticipated Volume of Screenings: 15.6 cf per day 4.04 CY Per Week

COARSE SCREEN (BYPASS/OVERFLOW BAR SCREEN)

Influent Flow Rate

Average Influent Flow Rate:	1.20	MGD	=	833	gpm	=	1.857	cfs
Peak Influent Flow Rate:	4.80	MGD	=	3333	gpm	=	7.427	cfs

Channel Geometry

Channel Width: 2.00 ft
Design Channel Flow Depth: 1.5 ft
Max. Channel Depth: 3.0 ft

Bar Rack Geometry

Bar Size: 0.625 in
Clear Space Between Bars: 0.500 in
Incline Angle: 45 degrees

No. of Bars in Rack: 22
Clear Space: 0.8541667 sf per ft of channel depth

Headloss thru Bar Screen

Channel Area (Avg): 3.0 sf
Channel Area (Max): 6.0 sf
Approach Velocity (Avg): 0.619 fps (using design channel depth)
Approach Velocity (Peak): 1.238 fps (using max. channel depth)

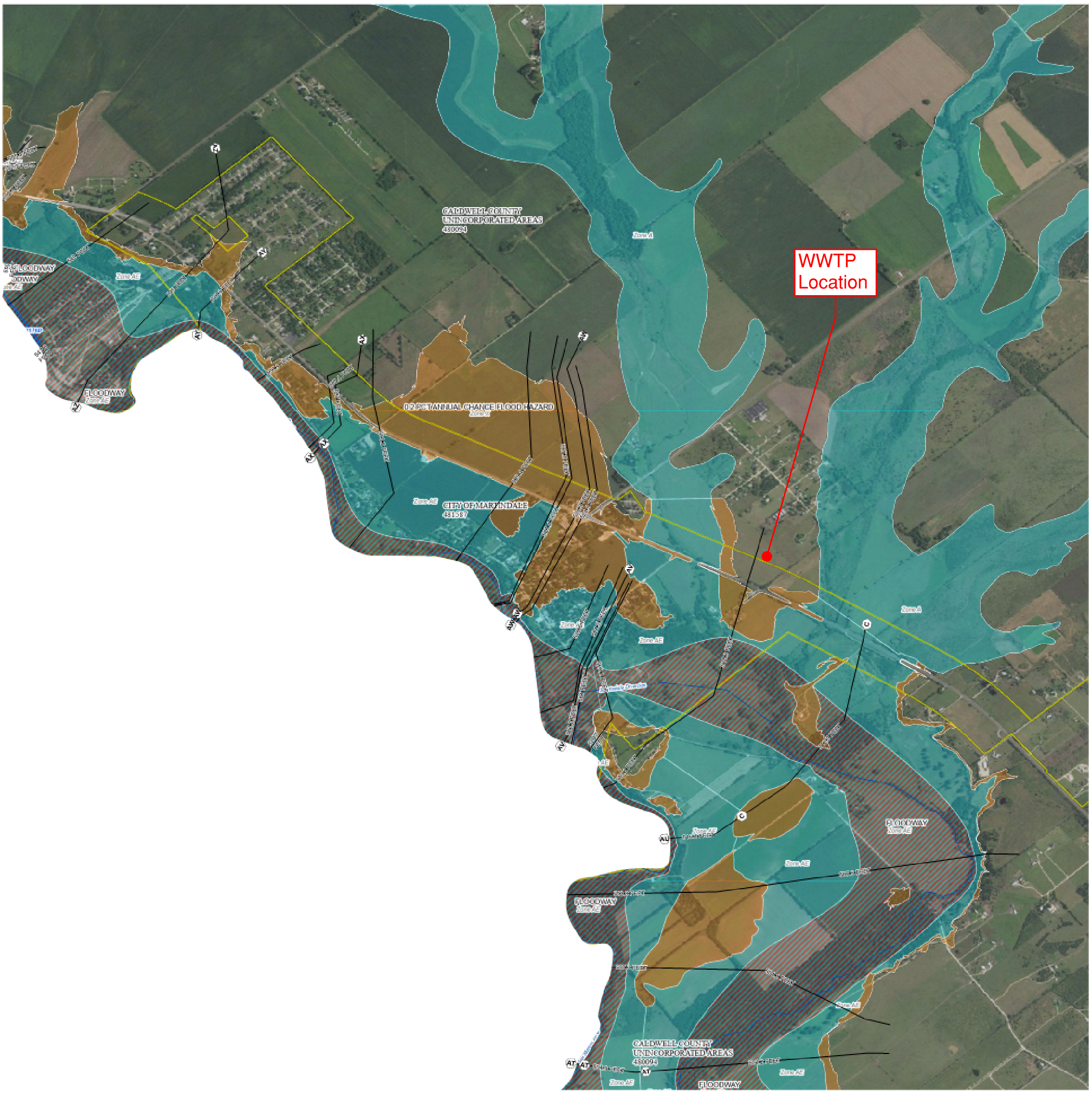
$$HeadLoss = \frac{V^2 - v^2}{0.7 \times 2 \times g}$$

Bar Screen Area (Avg): 1.28 sf
Bar Screen Area (Max): 2.56 sf
Velocity Through Bars (Avg): ***1.45*** fps (using design channel depth) 1 to 3 ft/s at design flow per TCEQ
Velocity Through Bars (Max): ***2.90*** fps (using max. channel depth)

ATTACHMENT Q

FEMA FIRM MAP

97°52'30.88"W 29°52'43.2"N



97°48'44.17"W 29°48'31.84"N

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR DRAFT FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates, refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Basemap information shown on this FIRM was provided in digital format by USDA, Farm Service Agency (FSA). This information was derived from NAIP, dated April 11, 2018.

This map was exported from FEMA's National Flood Hazard Layer (NFHL) on 07/7/2025 6:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. For additional information, please see the Flood Hazard Mapping Updates Overview Fact Sheet at https://www.fema.gov/media-library/assets/documents/118418

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date.

SCALE

Map Projection:
GCS, Geodetic Reference System 1980;
Vertical Datum: NAVD88
For information about the specific vertical datum for elevation features, datum conversions, or vertical monuments used to create this map, please see the Flood Insurance Study (FIS) Report for your community at https://msc.fema.gov

1 inch = 1,000 feet 1:12,000

0 500 1,000 2,000 3,000 4,000 Feet

N

0 105 210 420 630 840 Meters

FEMA National Flood Insurance Program

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

PANEL 205 OF 425

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFF
CITY OF SAN MARCOS	485605	0205	
CITY OF SAN MARCOS	485605	0205	
GUADALUPE COUNTY	480394	0205	
CITY OF MARTINDALE	481587	0205	
CALDWELL COUNTY	480321	0205	
HAYS COUNTY			

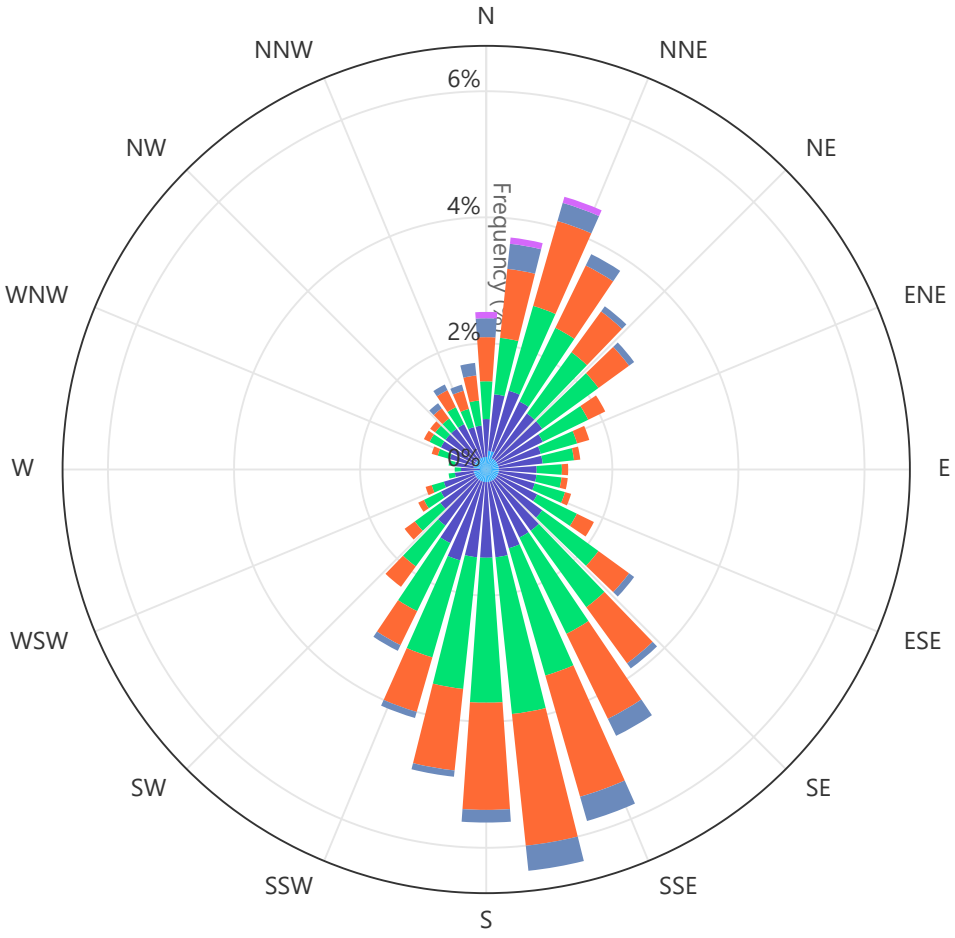
MAP NUMBER
48055C0205F
EFFECTIVE DATE
December 30, 2020

ATTACHMENT R

WIND ROSE

NEW BRAUNFELS MUNICIPAL AP (TX) Wind Rose

July 01, 1996 - June 17, 2025
Sub-Interval: January 1 - December 31, 0 - 24



Wind Speed (mph)

- 1.3 - 4
- 4 - 8
- 8 - 13
- 13 - 19
- 19 - 25
- 25 - 32
- 32 - 39
- 39 - 47
- 47 -

Click and drag to zoom

ATTACHMENT S

SEWAGE SLUDGE MANAGEMENT PLAN

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT S - SLUDGE MANAGEMENT PLAN
SUMMARY

SOLIDS GENERATED & REMOVAL SUMMARY TABLE

	Phase 1 - 0.395 MGD				Phase 2 - 0.8 MGD				Phase 3 - 1.2 MGD			
Percent of Phase Flow:	100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Dry Sludge (lbs/Day)	664	498	332	166	1,329	996	664	332	1,993	1,495	996	498
Wet Sludge (lbs/Day)*	44,285	33,214	22,143	11,071	88,571	66,428	44,285	22,143	132,856	99,642	66,428	33,214
Wet Sludge generated and to be removed (gal/Day)*	5,310	3,983	2,655	1,328	10,620	7,965	5,310	2,655	15,930	11,948	7,965	3,983

* Assumes 1.5% Solids

Sludge Management Summary

MLSS Operating Range
(design and actual flow): 3000 to 2100 mg/l

Solids Removal Procedure:

- Solids will be removed by wasting from the clarifier to the sludge holding basin.

- After minimum SRT is reached and sludge provisions in the permit are met, sludge will be dewatered and/or hauled from the plant by a license hauler to a permitted facility.

- All removal shall be in accordance with the approved permit and TAC 312.

Solids Removal Schedule:

Removal schedule is highly variable based on operations of the plant but will generally be removed as needed after minimum sludge retention time is reached, sludge provisions in the permit are met, and to maintain an appropriate solids inventory. Typical removal schedule is 17 to 25 days.

Disposal Site Information:

Hauler: Licensed Hauler will be used.

Site: Permitted site will be used.

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT S - SLUDGE MANAGEMENT PLAN
SUMMARY

Dimensions and Capacities of Sludge Holding

Average Anticipated Sludge Yield: 9,206 gal/day

TCEQ Minimum Sludge Retention Time: 15 days
SRT from Treatment Basins: 5.69 days
Minimum SRT needed in Sludge Holding: 9.305356 days

Prop Sludge Holdign Basins: 153,500 gal = 20,520 cubic feet

Proposed Sludge Holding SRT: 16.67 days
Total Proposed Sludge Retention Time: 22.37 days

Solids Generated

BOD_5 Removal
Influent concentration = 300 mg/l
Effluent concentration = 5 mg/l
Net removal = 295 mg/l

MLSS Operating Range = 3,000 mg/l

BOD_5 removed 972 lbs/day
Dry Sludge Produced 1,152 lbs/day
Wet Sludge Produced* 76,776 lbs/day
Wet Sludge Produced* 9,206 gal/day

*Assuming Percent Solids in Sludge: 1.5 % Solids

Length of Sustainded Peak (days)	Peaking Factor	Waste Sludge Mass Loading (lbs/day)	Total Sustained Loading (lb)
1	2.4	2,764	2,764
2	2.1	2,418	4,837
3	1.9	2,188	6,564
4	1.8	2,073	8,292
5	1.7	1,958	9,789
7	1.65	1,900	13,301
14	1.32	1,520	21,282
15	1.3	1,497	22,457
365	1	1,152	420,347

Process:
Conventional activated sludge process will be utilized. Sludge will be wasted from the clarifiers to the sludge holding basin. Sludge will be dewatered and/or hauled by a licensed hauler to a TCEQ registered disposal site.

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT S - SLUDGE MANAGEMENT PLAN
SUMMARY

Dimensions and Capacities of Sludge Holding

Average Anticipated Sludge Yield: 18,596 gal/day

TCEQ Minimum Sludge Retention Time: 15 days
SRT from Treatment Basins: 5.64 days
Minimum SRT needed in Sludge Holding: 9.362005 days

Prop Sludge Holding Basins: 307,000 gal = 41,040 cubic feet

Proposed Sludge Holding SRT: 16.51 days
Total Proposed Sludge Retention Time: 22.15 days

Solids Generated

BOD_5 Removal
Influent concentration = 300 mg/l
Effluent concentration = 5 mg/l
Net removal = 295 mg/l

MLSS Operating Range = 3,000 mg/l

BOD_5 removed	1,968	lbs/day
Dry Sludge Produced	2,326	lbs/day
Wet Sludge Produced*	155,094	lbs/day
Wet Sludge Produced*	18,596	gal/day

*Assuming Percent Solids in Sludge: 1.5 % Solids

Length of Sustainded Peak (days)	Peaking Factor	Waste Sludge Mass Loading (lbs/day)	Total Sustained Loading (lb)
1	2.4	5,583	5,583
2	2.1	4,885	9,771
3	1.9	4,420	13,261
4	1.8	4,188	16,750
5	1.7	3,955	19,775
7	1.65	3,839	26,870
14	1.32	3,071	42,992
15	1.3	3,024	45,365
365	1	2,326	849,142

Process:
Conventional activated sludge process will be utilized. Sludge will be wasted from the clarifiers to the sludge holding basin. Sludge will be dewatered and/or hauled by a licensed hauler to a TCEQ registered disposal site.

SILVER CROSSING, LLC
SILVER CROSSING WWTP
ATTACHMENT S - SLUDGE MANAGEMENT PLAN
SUMMARY

Dimensions and Capacities of Sludge Holding

Average Anticipated Sludge Yield: 30,185 gal/day

TCEQ Minimum Sludge Retention Time: 15 days
SRT from Treatment Basins: 5.21 days
Minimum SRT needed in Sludge Holding: 9.79 days

Prop Sludge Holding Basins: 460,500 gal = 61,560 cubic feet

Proposed Sludge Holding SRT: 15.26 days
Total Proposed Sludge Retention Time: 20.47 days

Solids Generated

BOD_5 Removal
Influent concentration = 300 mg/l
Effluent concentration = 5 mg/l
Net removal = 295 mg/l

MLSS Operating Range = 3,000 mg/l

BOD_5 removed	2,952	lbs/day
Dry Sludge Produced	3,776	lbs/day
Wet Sludge Produced*	251,742	lbs/day
Wet Sludge Produced*	30,185	gal/day

*Assuming Percent Solids in Sludge: 1.50 % Solids

Length of Sustainded Peak (days)	Peaking Factor	Waste Sludge Mass Loading (lbs/day)	Total Sustained Loading (lb)
1	2.4	9,063	9,063
2	2.1	7,930	15,860
3	1.9	7,175	21,524
4	1.8	6,797	27,188
5	1.7	6,419	32,097
7	1.65	6,231	43,614
14	1.32	4,984	69,783
15	1.3	4,909	73,634
365	1	3,776	1,378,285

Process:
Conventional activated sludge process will be utilized. Sludge will be wasted from the clarifiers to the sludge holding basin. Sludge will be dewatered and/or hauled by a licensed hauler to a TCEQ registered disposal site.

BAXTER & WOODMAN Consulting Engineers

September 18, 2025

Ms. Francesca Findlay
Applications Review and Processing Team (MC148)
Water Quality Division
Texas Commission of Environmental Quality
P.O. Box 13087
Austin, Texas 78711

Subject: Application for Proposed Permit No.: WQ0016876001
Applicant Name: Silver Crossing, LLC (CN606397990)
Site Name: Silver Crossing WWTP (RN112279310)
Response to Admin Review Comments #1

Dear Ms. Findlay:

We have received your administrative review comments dated 9/10/2025 for the above referenced application. A summary of the comments is provided below with our response in italics.

1. If you want to cancel permit WQ0015918001, please ensure to submit TCEQ from 20029.
   - *To clarify, we **do not** want to cancel permit WQ0015918001 at this time. The wording in the summary letter was to summarize our intent to meet regionalization as best as possible. The current permit will remain in place, however, if this permit is granted, and only after it is granted, the permit WQ0015918001 is intended to be canceled once service from this new permit WQ0016876001 is available and any service agreements are executed.*

2. Please review the NORI and provide comments if necessary.
   - *We have reviewed the NORI provided and take no exceptions.*

3. Provide a translated Spanish NORI using the attached template.
   - *A translated Spanish NORI has been e-mailed.*
   - *Please note on the template provided, I am unable to add the permit number in the heading and delete the non-italicized sentence regarding the Coastal Management Program boundary.*

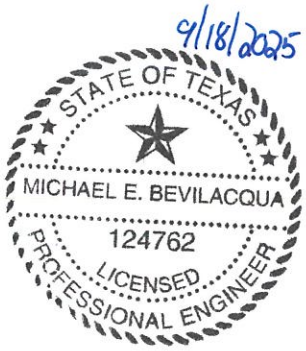
Also attached to this letter is updated page 19 of the technical report 1.1. The City of Martindale City Limit map and Zoning map available online appear to have conflicting city limit lines. According to the Caldwell County Appraisal District's website, this tract is being taxed by City of Martindale, therefore we now believe a portion of the service area is within the City limits of Martindale. A service availability letter was already sent to the City and was included in Attachment O of the application. As of the date of this letter we have not received a response.

In addition to the above comments, please note the facility name should be "Silver Crossing Wastewater Treatment Facility" as noted in Section 22 of Attachment A – Core Data Form. The initial administrative response letter states the site name as "Silver Crossing, LLC" which is the Owner's name.

If you have any questions, or need additional information, please do not hesitate to contact me. My address and phone number are listed above, and my email is mbevilacqua@baxterwoodman.com.

Sincerely,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS



Michael E. Bevilacqua, P.E.
Senior Project Manager

Texas Registered Engineering Firm F-21783

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.1

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

Section 1. Justification for Permit (Instructions Page 56)

A. Justification of permit need

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

The permit and WWTP are needed to serve the proposed development and surrounding areas. There are no other existing operating plants within 3 miles with the capacity to service the proposed development. This new permit will also replace the nearby existing permit WQ0015918001

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: Martindale

If yes, attach correspondence from the city.

Attachment: O

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

Attachment: Click to enter text.

2. *Utility CCN areas*

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

☐ Yes ☒ No

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

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO PROPUESTO NO. WQ00

SOLICITUD. *Silver Crossing, LLC, 8800 North Gainey Center Drive, Suite 345, Scottsdale, Arizona, 85258*, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para el propuesto Permiso No. WQ0016876001 (EPA I.D. No. TX 0148440) 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 *1,200,000* galones por día. La planta estará ubicada *aproximadamente a 3300 pies al sureste de la autopista 142 y la autopista San Marcos en la ciudad de Martindale* en el Condado de *Caldwell*, Texas *78655*. La ruta de descarga estará del sitio de la planta a *Hemphill Creek; de allí a Morrison Creek; de allí al bajo rio San Marcos*. La TCEQ recibió esta solicitud el *5 de septiembre de 2025.* La solicitud para el permiso estará disponible para leerla y copiarla en *Biblioteca Comunitaria de Martindale, 1.er piso, 411 Main Street, Martindale, Condado de Caldwell, Texas* antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.
Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.8312,29.8435&level=18.

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

AVISO DE IDIOMA ALTERNATIVO. El aviso de idioma alternativo en español está disponible en https://www.tceq.texas.gov/permitting/wastewater/pending-permits/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 del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del *Silver Crossing, LLC* a la dirección indicada arriba o llamando a *Michael Bevilacqua, P.E., Senior Project Manager/Baxter & Woodman* al *737-358-8103*.

Fecha de emisión: *[Date notice issued]*

Francesca Findlay

From: Mike Bevilacqua <mbevilacqua@baxterwoodman.com>
Sent: Thursday, September 18, 2025 8:34 AM
To: Francesca Findlay
Cc: thughes@staffordcompany.com
Subject: RE: WQ0016876001: Silver Crossing, LLC
Attachments: 2025.09.18.Response to Admin Comments #1.pdf; Spanish NORI_WQ0016876001.docx

Francesca,

Attached is our response to comments. Also attached is the translated Spanish NORI. The original hard copy of our response is being mailed per the instructions. Let me know if you have any questions or need anything else.

Thanks

Michael E. Bevilacqua, P.E.
Senior Project Manager

Baxter & Woodman
Direct: 737-358-8103
Cell: 512-568-9974
301 Denali Pass, Suite #3
Cedar Park, TX 78613
TBPELS Registration No. F-21783

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Wednesday, September 10, 2025 12:09 PM
To: Mike Bevilacqua <mbevilacqua@baxterwoodman.com>
Cc: thughes@staffordcompany.com
Subject: FW: WQ0016876001: Silver Crossing, LLC

Dear Mr. Bevilacqua:

The attached Notice of Deficiency letter sent on September 10, 2025, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention September 24, 2025.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

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

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

WALTON TEXAS LP
ATTN WALTON INTERNATIONAL GROUP INC
8800 N GAINEY CENTER DR STE 345
SCOTTSDALE AZ 85258

SIGMAN GRAFTED LLC
1659 STATE HIGHWAY 46 W
SUITE 115 BOX 525
NEW BRAUNFELS TX 78132

REBECCA WHITWORTH
PO BOX 474
MARTINDALE TX 78655

F AND B INVESTMENTS
PO BOX 290942
KERRVILE TX 78028

ESTHER GONZALES
PO BOX 184
MARTINDALE TX 78655

MICHAEL HOLMES AND SHELLEY JO HOLMES OATH PROTECTION TRUST
ATTN MICHAEL EVERETT AND SHELLEY JO HOLMES
158 HOLMES LN
MARTINDALE TX 78655

EVELINE C TIMMS
165 TIMMS TRAIL
MARTINDALE TX 78655

HERBERT RICHARD CONRADS
PO BOX 628
SAN MARCOS TX 78667

ALLEN O AND SANDRA K BERRY
15835 SAN MARCOS HWY
MARTINDALE TX 78655

MICHAEL HOLMES
158 HOLMES LN
MARTINDALE TX 78655

WALTER A AND MAEBETH BAGLEY
PO BOX 152
MARTINDALE TX 78655

Francesca Findlay

From: Mike Bevilacqua <mbevilacqua@baxterwoodman.com>
Sent: Tuesday, September 23, 2025 4:03 PM
To: Francesca Findlay
Cc: thughes@staffordcompany.com
Subject: RE: WQ0016876001: Silver Crossing, LLC
Attachments: Silver Crossing WQ0016876001_Affected Landowners Mailing Labels.docx

Follow Up Flag: Follow up
Flag Status: Flagged

There was a USB submitted with the original but probably got lost somewhere. The mailing labels are attached. Let me know if you need anything else.

Michael E. Bevilacqua, P.E.
Senior Project Manager

Baxter & Woodman
Direct: 737-358-8103
Cell: 512-568-9974
301 Denali Pass, Suite #3
Cedar Park, TX 78613
TBPELS Registration No. F-21783

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Tuesday, September 23, 2025 3:13 PM
To: Mike Bevilacqua <mbevilacqua@baxterwoodman.com>
Cc: thughes@staffordcompany.com
Subject: RE: WQ0016876001: Silver Crossing, LLC

Good afternoon,

I am looking at your documents and I noticed that I am missing the Landowner's mailing Labels (Avery 5160) in a word document. Please provide the documents as soon as possible. Please let me know if you have any questions.

Thank you,

Francesca Findlay
License & Permit Specialist

ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

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

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

From: Mike Bevilacqua <mbevilacqua@baxterwoodman.com>
Sent: Thursday, September 18, 2025 8:34 AM
To: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Cc: thughes@staffordcompany.com
Subject: RE: WQ0016876001: Silver Crossing, LLC

Francesca,

Attached is our response to comments. Also attached is the translated Spanish NORI. The original hard copy of our response is being mailed per the instructions. Let me know if you have any questions or need anything else.

Thanks

Michael E. Bevilacqua, P.E.
Senior Project Manager

Baxter & Woodman
Direct: 737-358-8103
Cell: 512-568-9974
301 Denali Pass, Suite #3
Cedar Park, TX 78613
TBPELS Registration No. F-21783

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Wednesday, September 10, 2025 12:09 PM
To: Mike Bevilacqua <mbevilacqua@baxterwoodman.com>
Cc: thughes@staffordcompany.com
Subject: FW: WQ0016876001: Silver Crossing, LLC

Dear Mr. Bevilacqua:

The attached Notice of Deficiency letter sent on September 10, 2025, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention September 24, 2025.

Thank you,

Francesca Findlay
License & Permit Specialist
ARP Team | Water Quality Division
512-239-2441
Texas Commission on Environmental Quality

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