Technical Package Cover Page

This file contains the following documents:

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

Portada de Paquete Técnico

Este archivo contiene los siguientes documentos:

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

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

City of Seguin (CN600342257) operates Walnut Branch Wastewater Treatment Plant (RN101610699), a conventional activated sludge plant with complete mix. The facility is located at 101 East Klein Street, in the City of Seguin, Guadalupe County, Texas 78155. This application is for a renewal to discharge 4.9 MGD into the Guadalupe River.

Discharges from the facility are expected to contain carbon monoxide, total suspended solids, sulfate, chloride, total phosphorus, dissolved oxygen, total residual chlorine, total dissolved solids, alkalinity, and pH. The plant effluent discharges to the Guadalupe River below the Comal River (Segment No. 1804 of the Guadalupe River Basin) is treated by raw domestic wastewater entering the plant via a 30" pipe at the lift station and is pumped through an 18" forced main to the plant head works. Another 30" pipe gravity fed, enters the plant at the headworks where all raw water is treated first with preliminary treatment and then primary treatment. Water flows to the primary clarifiers, to the aeration basins, final clarifiers and then to the chlorine contact chamber to the chlorine disinfection/detention basins and then dechlorinated just before it flows to the outfall pipe, and then to the Guadalupe River. Sludge is drawn off the bottom of the clarifiers for recirculation (aeration) or sludge digestion (digesters to dying beds).

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.

Ciudad de Seguin (CN600342257) opera planta de tratamiento de aguas residuales de Walnut Branch (RN101610699), una planta convencional de lodos activados con mezcla completa. La instalación está ubicada en 101 East Klein Street, en la ciudad de Seguin, Condado de Guadalupe, Texas 78155. Esta solicitud es para una renovación para descargar 4.9 MGD en el río Guadalupe.

Se espera que las descargas de la instalación contengan monóxido de carbono, sólidos suspendidos totales, sulfato, cloruro, fósforo total, oxígeno disuelto, cloro residual total, sólidos disueltos totales, alcalinidad y pH. El efluente de la planta se descarga al río Guadalupe por debajo del río Comal (Segmento No. 1804 de la cuenca del río Guadalupe). está tratado por las aguas residuales domésticas sin tratar ingresan a la planta a través de una tubería de 30" en la estación de bombeo y se bombean a través de una tubería principal forzada de 18" a la planta principal. Otra tubería de 30", alimentada por gravedad, ingresa a la planta en la cabecera, donde toda el agua cruda se trata primero con un tratamiento preliminar y luego con un tratamiento primario. El agua fluye a los clarificadores primarios, a las cuencas de aireación, a los clarificadores finales y luego a la cámara de contacto de cloro a las cuencas de desinfección/detención de cloro y luego se declora justo antes de fluir a la tubería de desagüe, y luego al río Guadalupe. Los lodos se extraen del fondo de los clarificadores para su recirculación (aireación) o digestión de lodos (digestores a lechos de teñido).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0010277001

APPLICATION. City of Seguin, 205 North River Street, Seguin, Texas 78155, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010277001 (EPA I.D. No. TX0022365) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 4,900,0000 gallons per day. The domestic wastewater treatment facility is located at 101 East Klein Street, in the city of Seguin, in Guadalupe County, Texas 78155. The discharge route is from the plant site directly to the Guadalupe River Below Comal River. TCEQ received this application on August 29, 2024. The permit application will be available for viewing and copying at Seguin City Hall, 205 North River Street, Seguin, in Guadalupe 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=-97.964166,29.561388&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.**

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

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

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. 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 City of Seguin at the address stated above or by calling Mr. Tim Howe, Director of Water/Wastewater, at 830-386-2222.

Issuance Date: September 27, 2024

Comisión de Calidad Ambiental del Estado de Texas

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

PERMISO NO. WQ0010277001

SOLICITUD. Ciudad de Seguin, 205 North River Street, Seguin, Texas 78155 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0010277001 (EPA I.D. No. TX 0022365) 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 4,900,000 galones por día. La planta está ubicada 101 East Klein Street, en la Ciudad de Seguin, en el Condado de Guadalupe, Texas. La ruta de descarga es del sitio de la planta a el río Guadalupe del río Comal. La TCEQ recibió esta solicitud el 29 de Agosto de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en ayuntamiento de Seguin, 205 North River Street, Seguin, en el Condado de Guadalupe, Texas antes de la fecha de publicación de este aviso en el periódico. La aplicación incluidas las actualizaciones y los avisos asociados están disponibles electrónicamente en la siguiente pagina 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=-97.964166,29.561388&level=18

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

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

OPORTUNIDAD DE UNA AUDIENCIA ADMINISTRATIVA DE LO CONTENCIOSO. Después del plazo para presentar comentarios públicos, el Director Ejecutivo considerará todos

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

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

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

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. Ademas, puede pedir que la TCEQ ponga su nombre en una or mas de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos de el solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envia por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

También se puede obtener información adicional del Ciudad de Seguin a la dirección indicada arriba o llamando a Sr. Tim Howe, Director de Agua/Aguas Residuales al 830-386-2222.

Fecha de emission: 27 de septiembre de 2024

Texas Commission on Environmental Quality

NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR MUNICIPAL WASTEWATER

RENEWAL

AND

NOTICE OF A PRETREATMENT PROGRAM SUBSTANTIAL MODIFICATION

PERMIT NO. WQ0010277001

APPLICATION AND PRELIMINARY DECISION. City of Seguin, 205 North River Street, Seguin, Texas 78155, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010277001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 4,900,000 gallons per day. TCEQ received this application on August 29, 2024.

The facility is located at 101 East Klein Street, in the City of Seguin, Guadalupe County, Texas 78155. The treated effluent is discharged directly to the Guadalupe River below Comal River in Segment No. 1804 of the Guadalupe River Basin. The designated uses for Segment No. 1804 are primary contact recreation, public water supply, aquifer protection, and high aquatic life use. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.
https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.964166,29.561388&level=18

The applicant has applied to the TCEQ for approval of a substantial modification to its approved pretreatment program under the TPDES program. The request for approval complies with both federal and state requirements. The substantial modification will be approved without change if no substantive comments are received within 30 days of notice publication.

Approval of the request for modification to the approved pretreatment program will allow the applicant to revise their technically based local limits (TBLLs), and ordinance which incorporates such revisions. The following treatment works facilities will be subject to the requirements of the pretreatment program: TPDES Permit Nos. WQ0010277001 and WQ0010277003.

The TCEQ Executive Director has completed the technical review of the application, the pretreatment program substantial modification, and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The Executive Director has also made a preliminary decision that the requested substantial modification to the approved pretreatment program, if approved, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, draft permit, and pretreatment program substantial modification are available for viewing and copying at Seguin City Hall, 205 North River Street, Seguin, Guadalupe County, Texas. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

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

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the Executive Director's decision. There is no opportunity to request a contested case hearing on the application for substantial modification of the pretreatment program.** A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

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

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

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

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

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

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

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

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www.tceq.texas.gov/goto/comment, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC 105, P.O. Box 13087, Austin, Texas 78711-3087. Any personal information you submit to the TCEQ will become part of the agency's record; this includes email addresses. For more information about this permit application, the application for substantial modification of the pretreatment program, 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 City of Seguin at the address stated above or by calling Mr. Tim Howe, Drector of Water/Wastewater, at 830-386-2222.

Issuance Date: March 26, 2025

Comisión De Calidad Ambiental Del Estado De Texas

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

RENOVACIÓN

Y AVISO DE MODIFICACIONES SIGNIFICATIVOS AL PROGRAMA DE PRETRATAMIENTO

PERMISO NO. WQ0010277001

SOLICITUD Y DECISIÓN PRELIMINAR. La Ciudad de Seguin, 205 North River Street, Seguin, Texas 78155 ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar el permiso No. WQ0010277001 del sistema de eliminación de descargas de contaminantes de Texas (TPDES), este autoriza la descarga de aguas residuales domésticas tratadas con un promedio de flujo anual que no exceda 4,900,000 galones por día. La TCEQ recibió esta solicitud el 29 de Agosto, 2024.

La planta está ubicada en 101 East Klein Street, Seguin en el Condado de Guadalupe, Texas. El efluente tratado es descargado al Rio Guadalupe en el Segmento No. 1804 de la Cuenca del Río Guadalupe. Los usos designados para el Segmento No. 1804 son recreación con contacto, suministro de agua pública, protección de acuíferos, y uso alto de vida acuática. 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=-97.964166,29.561388&level=18

El solicitante también ha solicitado a la TCEQ la aprobación de modificaciones significativos al programa de pretratamiento bajo el programa TPDES. El pedido de aprobación cumple con los requisitos estatales y federales. La modificación principal será aprobada sin cambio si no se reciben comentarios significativos dentro de treinta (30) días del aviso de publicación o al fin del periodo para comentarios del público si una reunión pública es realizada.

La aprobación al pedido de modificación al programa de pretratamiento permitirá al solicitante revisar los límites locales técnicamente basados y continuar la regulación de las descargas de contaminantes por usuarios industriales en las plantas de tratamiento, para realizar inspecciones, vigilancias y monitorea para determinar el cumplimiento con las normas y los requisitos pertinentes de pretratamiento y para aplicar la ley a las medidas contra los usuarios industriales incumplidores. Las siguientes instalaciones de tratamiento estarán sujetas a los requisitos del programa de pretratamiento: TPDES Permiso Nos. WQ0010277001 and WQ0010277003.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud, las modificaciones significativos al programa de pretratamiento y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. El Director Ejecutivo también ha tomado una decisión preliminar que que la modificación significativa solicitada al aprobado programa de pretratamiento, si es aprobado, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo, el borrador del permiso, y las modificaciones significativos al programa de pretratamiento están disponibles para leer y copiar en la Alcaldía de Seguin, 205 North River Street, Seguin, Condado Guadalupe, Texas. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications.

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud o sobre la solicitud de modificaciones significativos al programa de pretratamiento. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud o acerca de la solicitud de modificaciones significativos al programa de pretratamiento. La TCEQ realiza una reunión pública si el Director Ejecutivo determina que hay un grado de interés público suficiente en la solicitud o en la solicitud de modificaciones significativos al programa de pretratamiento 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. No hay oportunidad para solicitar una audiencia administrativa de lo contencioso sobre la solicitud de modificaciones significativos al programa de pretratamiento.** Una audiencia administrativa de lo contencioso es un procedimiento legal similar a un procedimiento legal civil en un tribunal de distrito del estado.

PARA SOLICITAR UNA AUDIENCIA DE CASO IMPUGNADO, USTED DEBE INCLUIR EN SU SOLICITUD LOS SIGUIENTES DATOS: su nombre, dirección, y número de teléfono; el nombre del solicitante y número del permiso; la ubicación y distancia de su propiedad/actividad con respecto a la instalación; una descripción específica de la forma cómo usted sería afectado adversamente por el sitio de una manera no común al público en general; una lista de todas las cuestiones de hecho en disputa que usted presente durante el período de comentarios; y la declaración "[Yo/nosotros] solicito/solicitamos una audiencia de caso impugnado". Si presenta la petición para una audiencia de caso impugnado

de parte de un grupo o asociación, debe identificar una persona que representa al grupo para recibir correspondencia en el futuro; identificar el nombre y la dirección de un miembro del grupo que sería afectado adversamente por la planta o la actividad propuesta; proveer la información indicada anteriormente con respecto a la ubicación del miembro afectado y su distancia de la planta o actividad propuesta; explicar cómo y porqué el miembro sería afectado; y explicar cómo los intereses que el grupo desea proteger son pertinentes al propósito del grupo.

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

La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. **Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. Si ciertos criterios se cumplen, la TCEQ puede actuar sobre una solicitud para renovar un permiso para descargar aguas residuales sin proveer una oportunidad de una audiencia administrativa de lo contencioso.**

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

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

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

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

También se puede obtener información adicional de la Ciudad de Seguin en la dirección indicada arriba o llamando a Sr. Tim Howe, Director de Agua/Agua Residuales, al 830-386-2222.

Fecha de emisión: 26 de marzo de 2025

TPDES PERMIT NO.
WQ0010277001
[For TCEQ office use only - EPA I.D. No. TX0022365]

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

This is a renewal that replaces TPDES Permit No. WQ0010277001 issued on March 11, 2020.

PERMIT TO DISCHARGE WASTES
under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

City of Seguin

whose mailing address is

205 North River Street
Seguin, Texas 78155

is authorized to treat and discharge wastes from the Walnut Branch Wastewater Treatment Facility, SIC Code 4952

located at 101 East Klein Street, in the City of Seguin, Guadalupe County, Texas 78155

directly to the Guadalupe River below Comal River in Segment No. 1804 of the Guadalupe River Basin

only according to effluent limitations, monitoring requirements, and other conditions set forth in this permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ), the laws of the State of Texas, and other orders of the TCEQ. The issuance of this permit does not grant to the permittee the right to use private or public property for conveyance of wastewater along the discharge route described in this permit. This includes, but is not limited to, property belonging to any individual, partnership, corporation, or other entity. Neither does this permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This permit shall expire at midnight, **five years from the date of issuance**.

ISSUED DATE:

For the Commission

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the date of expiration, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 4.9 million gallons per day (MGD), nor shall the average discharge during any two-hour period (2-hour peak) exceed 8,333 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg	7-day Avg	Daily Max	Single Grab	Report Daily Avg. & Daily Max.	
	mg/l (lbs/day)	mg/l	mg/l	mg/l	Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (409)	15	25	35	Two/week	Composite
Total Suspended Solids	15 (613)	25	40	60	Two/week	Composite
Ammonia Nitrogen	3 (123)	6	10	15	Two/week	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	One/week	Grab

2. The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample.
4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.
5. Effluent monitoring samples shall be taken at the following location(s): Following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored twice per week by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

DEFINITIONS AND STANDARD PERMIT CONDITIONS

As required by Title 30 Texas Administrative Code (TAC) Chapter 305, certain regulations appear as standard conditions in waste discharge permits. 30 TAC § 305.121 - 305.129 (relating to Permit Characteristics and Conditions) as promulgated under the Texas Water Code (TWC) §§ 5.103 and 5.105, and the Texas Health and Safety Code (THSC) §§ 361.017 and 361.024(a), establish the characteristics and standards for waste discharge permits, including sewage sludge, and those sections of 40 Code of Federal Regulations (CFR) Part 122 adopted by reference by the Commission. The following text includes these conditions and incorporates them into this permit. All definitions in TWC § 26.001 and 30 TAC Chapter 305 shall apply to this permit and are incorporated by reference. Some specific definitions of words or phrases used in this permit are as follows:

1. Flow Measurements

    a. Annual average flow - the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months. The annual average flow determination shall consist of daily flow volume determinations made by a totalizing meter, charted on a chart recorder and limited to major domestic wastewater discharge facilities with one million gallons per day or greater permitted flow.

    b. Daily average flow - the arithmetic average of all determinations of the daily flow within a period of one calendar month. The daily average flow determination shall consist of determinations made on at least four separate days. If instantaneous measurements are used to determine the daily flow, the determination shall be the arithmetic average of all instantaneous measurements taken during that month. Daily average flow determination for intermittent discharges shall consist of a minimum of three flow determinations on days of discharge.

    c. Daily maximum flow - the highest total flow for any 24-hour period in a calendar month.

    d. Instantaneous flow - the measured flow during the minimum time required to interpret the flow measuring device.

    e. 2-hour peak flow (domestic wastewater treatment plants) - the maximum flow sustained for a two-hour period during the period of daily discharge. The average of multiple measurements of instantaneous maximum flow within a two-hour period may be used to calculate the 2-hour peak flow.

    f. Maximum 2-hour peak flow (domestic wastewater treatment plants) - the highest 2-hour peak flow for any 24-hour period in a calendar month.

2. Concentration Measurements

    a. Daily average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar month, consisting of at least four separate representative measurements.

        i. For domestic wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values in the previous four consecutive month period consisting of at least four measurements shall be utilized as the daily average concentration.

ii. For all other wastewater treatment plants - When four samples are not available in a calendar month, the arithmetic average (weighted by flow) of all values taken during the month shall be utilized as the daily average concentration.

b. 7-day average concentration - the arithmetic average of all effluent samples, composite or grab as required by this permit, within a period of one calendar week, Sunday through Saturday.

c. Daily maximum concentration - the maximum concentration measured on a single day, by the sample type specified in the permit, within a period of one calendar month.

d. Daily discharge - the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in terms of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the sampling day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the sampling day.

The daily discharge determination of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily discharge determination of concentration shall be the arithmetic average (weighted by flow value) of all samples collected during that day.

e. Bacteria concentration (*E. coli* or Enterococci) - Colony Forming Units (CFU) or Most Probable Number (MPN) of bacteria per 100 milliliters effluent. The daily average bacteria concentration is a geometric mean of the values for the effluent samples collected in a calendar month. The geometric mean shall be determined by calculating the nth root of the product of all measurements made in a calendar month, where n equals the number of measurements made; or, computed as the antilogarithm of the arithmetic mean of the logarithms of all measurements made in a calendar month. For any measurement of bacteria equaling zero, a substituted value of one shall be made for input into either computation method. If specified, the 7-day average for bacteria is the geometric mean of the values for all effluent samples collected during a calendar week.

f. Daily average loading (lbs/day) - the arithmetic average of all daily discharge loading calculations during a period of one calendar month. These calculations must be made for each day of the month that a parameter is analyzed. The daily discharge, in terms of mass (lbs/day), is calculated as (Flow, MGD x Concentration, mg/l x 8.34).

g. Daily maximum loading (lbs/day) - the highest daily discharge, in terms of mass (lbs/day), within a period of one calendar month.

3. Sample Type

a. Composite sample - For domestic wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (a). For industrial wastewater, a composite sample is a sample made up of a minimum of three effluent portions collected in a continuous 24-hour period or during the period of daily discharge if less than 24 hours, and combined in volumes proportional to flow, and collected at the intervals required by 30 TAC § 319.9 (b).

b. Grab sample - an individual sample collected in less than 15 minutes.

4. Treatment Facility (facility) - wastewater facilities used in the conveyance, storage, treatment, recycling, reclamation and/or disposal of domestic sewage, industrial wastes, agricultural wastes, recreational wastes, or other wastes including sludge handling or disposal facilities under the jurisdiction of the Commission.

5. The term "sewage sludge" is defined as solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in 30 TAC Chapter 312. This includes the solids that have not been classified as hazardous waste separated from wastewater by unit processes.

6. The term "biosolids" is defined as sewage sludge that has been tested or processed to meet Class A, Class AB, or Class B pathogen standards in 30 TAC Chapter 312 for beneficial use.

7. Bypass - the intentional diversion of a waste stream from any portion of a treatment facility.

MONITORING AND REPORTING REQUIREMENTS

1. Self-Reporting

Monitoring results shall be provided at the intervals specified in the permit. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall conduct effluent sampling and reporting in accordance with 30 TAC §§ 319.4 - 319.12. Unless otherwise specified, effluent monitoring data shall be submitted each month, to the Enforcement Division (MC 224), by the 20th day of the following month for each discharge which is described by this permit whether or not a discharge is made for that month. Monitoring results must be submitted online using the NetDMR reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. Monitoring results must be signed and certified as required by Monitoring and Reporting Requirements No. 10.

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

2. Test Procedures

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

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

3. Records of Results

a. Monitoring samples and measurements shall be taken at times and in a manner so as to be representative of the monitored activity.

b. Except for records of monitoring information required by this permit related to the permittee's sewage sludge or biosolids use and disposal activities, which shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503), monitoring and reporting records, including strip charts and records of calibration and maintenance, copies of all records required by this permit, records of all data used to complete the application for this permit, and the certification required by 40 CFR § 264.73(b)(9) shall be retained at the facility site, or shall be readily available for review by a TCEQ representative for a period of three years from the date of the record or sample, measurement, report, application or certification. This period shall be extended at the request of the Executive Director.

c. Records of monitoring activities shall include the following:

   i. date, time and place of sample or measurement;

   ii. identity of individual who collected the sample or made the measurement.

   iii. date and time of analysis;

   iv. identity of the individual and laboratory who performed the analysis;

   v. the technique or method of analysis; and

   vi. the results of the analysis or measurement and quality assurance/quality control records.

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

4. Additional Monitoring by Permittee

   If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit using approved analytical methods as specified above, all results of such monitoring shall be included in the calculation and reporting of the values submitted on the approved self-report form. Increased frequency of sampling shall be indicated on the self-report form.

5. Calibration of Instruments

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

6. Compliance Schedule Reports

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

Division (MC 224).

7. Noncompliance Notification

   a. In accordance with 30 TAC § 305.125(9) any noncompliance which may endanger human health or safety, or the environment shall be reported by the permittee to the TCEQ. Except as allowed by 30 TAC § 305.132, report of such information shall be provided orally or by facsimile transmission (FAX) to the Regional Office within 24 hours of becoming aware of the noncompliance. A written submission of such information shall also be provided by the permittee to the Regional Office and the Enforcement Division (MC 224) within five working days of becoming aware of the noncompliance. For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. The written submission shall contain a description of the noncompliance and its cause; the potential danger to human health or safety, or the environment; the period of noncompliance, including exact dates and times; if the noncompliance has not been corrected, the time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance, and to mitigate its adverse effects.

   b. The following violations shall be reported under Monitoring and Reporting Requirement 7.a.:

      i. Unauthorized discharges as defined in Permit Condition 2(g).

      ii. Any unanticipated bypass that exceeds any effluent limitation in the permit.

      iii. Violation of a permitted maximum daily discharge limitation for pollutants listed specifically in the Other Requirements section of an Industrial TPDES permit.

   c. In addition to the above, any effluent violation which deviates from the permitted effluent limitation by more than 40% shall be reported by the permittee in writing to the Regional Office and the Enforcement Division (MC 224) within 5 working days of becoming aware of the noncompliance.

   d. Any noncompliance other than that specified in this section, or any required information not submitted or submitted incorrectly, shall be reported to the Enforcement Division (MC 224) as promptly as possible. For effluent limitation violations, noncompliances shall be reported on the approved self-report form.

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

9. Changes in Discharges of Toxic Substances

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

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

   i. One hundred micrograms per liter (100 μg/L);

   ii. Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;

   iii. Five (5) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

b. That any activity has occurred or will occur which would result in any discharge, on a nonroutine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

   i. Five hundred micrograms per liter (500 μg/L);

   ii. One milligram per liter (1 mg/L) for antimony;

   iii. Ten (10) times the maximum concentration value reported for that pollutant in the permit application; or

   iv. The level established by the TCEQ.

10. Signatories to Reports

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

11. All POTWs must provide adequate notice to the Executive Director of the following:

    a. Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to CWA § 301 or § 306 if it were directly discharging those pollutants;

    b. Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit; and

    c. For the purpose of this paragraph, adequate notice shall include information on:

       i. The quality and quantity of effluent introduced into the POTW; and

       ii. Any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

PERMIT CONDITIONS

1. General

    a. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in an application or in any report to the Executive Director, it shall promptly submit such facts or information.

    b. This permit is granted on the basis of the information supplied and representations made by the permittee during action on an application, and relying upon the accuracy and completeness of that information and those representations. After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked, in whole or in part, in accordance with 30 TAC Chapter 305, Subchapter D, during its term for good cause including, but not limited to, the following:

        i. Violation of any terms or conditions of this permit;

        ii. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or

        iii. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

    c. The permittee shall furnish to the Executive Director, upon request and within a reasonable time, any information to determine whether cause exists for amending, revoking, suspending or terminating the permit. The permittee shall also furnish to the Executive Director, upon request, copies of records required to be kept by the permit.

2. Compliance

    a. Acceptance of the permit by the person to whom it is issued constitutes acknowledgment and agreement that such person will comply with all the terms and conditions embodied in the permit, and the rules and other orders of the Commission.

    b. The permittee has a duty to comply with all conditions of the permit. Failure to comply with any permit condition constitutes a violation of the permit and the Texas Water Code or the Texas Health and Safety Code, and is grounds for enforcement action, for permit amendment, revocation, or suspension, or for denial of a permit renewal application or an application for a permit for another facility.

    c. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

    d. The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal or other permit violation that has a reasonable likelihood of adversely affecting human health or the environment.

    e. Authorization from the Commission is required before beginning any change in the permitted facility or activity that may result in noncompliance with any permit requirements.

    f. A permit may be amended, suspended and reissued, or revoked for cause in accordance

with 30 TAC §§ 305.62 and 305.66 and TWC§ 7.302. The filing of a request by the permittee for a permit amendment, suspension and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

g. There shall be no unauthorized discharge of wastewater or any other waste. For the purpose of this permit, an unauthorized discharge is considered to be any discharge of wastewater into or adjacent to water in the state at any location not permitted as an outfall or otherwise defined in the Other Requirements section of this permit.

h. In accordance with 30 TAC § 305.535(a), the permittee may allow any bypass to occur from a TPDES permitted facility which does not cause permitted effluent limitations to be exceeded or an unauthorized discharge to occur, but only if the bypass is also for essential maintenance to assure efficient operation.

i. The permittee is subject to administrative, civil, and criminal penalties, as applicable, under TWC §§ 7.051 - 7.075 (relating to Administrative Penalties), 7.101 - 7.111 (relating to Civil Penalties), and 7.141 - 7.202 (relating to Criminal Offenses and Penalties) for violations including, but not limited to, negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under the CWA § 402, or any requirement imposed in a pretreatment program approved under the CWA §§ 402 (a)(3) or 402 (b)(8).

3. Inspections and Entry

a. Inspection and entry shall be allowed as prescribed in the TWC Chapters 26, 27, and 28, and THSC § 361.

b. The members of the Commission and employees and agents of the Commission are entitled to enter any public or private property at any reasonable time for the purpose of inspecting and investigating conditions relating to the quality of water in the state or the compliance with any rule, regulation, permit or other order of the Commission. Members, employees, or agents of the Commission and Commission contractors are entitled to enter public or private property at any reasonable time to investigate or monitor or, if the responsible party is not responsive or there is an immediate danger to public health or the environment, to remove or remediate a condition related to the quality of water in the state. Members, employees, Commission contractors, or agents acting under this authority who enter private property shall observe the establishment's rules and regulations concerning safety, internal security, and fire protection, and if the property has management in residence, shall notify management or the person then in charge of his presence and shall exhibit proper credentials. If any member, employee, Commission contractor, or agent is refused the right to enter in or on public or private property under this authority, the Executive Director may invoke the remedies authorized in TWC § 7.002. The statement above, that Commission entry shall occur in accordance with an establishment's rules and regulations concerning safety, internal security, and fire protection, is not grounds for denial or restriction of entry to any part of the facility, but merely describes the Commission's duty to observe appropriate rules and regulations during an inspection.

4. Permit Amendment and/or Renewal

   a. The permittee shall give notice to the Executive Director as soon as possible of any planned physical alterations or additions to the permitted facility if such alterations or additions would require a permit amendment or result in a violation of permit requirements. Notice shall also be required under this paragraph when:

      i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in accordance with 30 TAC § 305.534 (relating to New Sources and New Dischargers); or

      ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are subject neither to effluent limitations in the permit, nor to notification requirements in Monitoring and Reporting Requirements No. 9; or

      iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

   b. Prior to any facility modifications, additions, or expansions that will increase the plant capacity beyond the permitted flow, the permittee must apply for and obtain proper authorization from the Commission before commencing construction.

   c. The permittee must apply for an amendment or renewal at least 180 days prior to expiration of the existing permit in order to continue a permitted activity after the expiration date of the permit. If an application is submitted prior to the expiration date of the permit, the existing permit shall remain in effect until the application is approved, denied, or returned. If the application is returned or denied, authorization to continue such activity shall terminate upon the effective date of the action. If an application is not submitted prior to the expiration date of the permit, the permit shall expire and authorization to continue such activity shall terminate.

   d. Prior to accepting or generating wastes which are not described in the permit application or which would result in a significant change in the quantity or quality of the existing discharge, the permittee must report the proposed changes to the Commission. The permittee must apply for a permit amendment reflecting any necessary changes in permit conditions, including effluent limitations for pollutants not identified and limited by this permit.

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

   f. If any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under CWA § 307(a) for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitation on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standard or

prohibition. The permittee shall comply with effluent standards or prohibitions established under CWA § 307(a) for toxic pollutants within the time provided in the regulations that established those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Permit Transfer

   a. Prior to any transfer of this permit, Commission approval must be obtained. The Commission shall be notified in writing of any change in control or ownership of facilities authorized by this permit. Such notification should be sent to the Applications Review and Processing Team (MC 148) of the Water Quality Division.

   b. A permit may be transferred only according to the provisions of 30 TAC § 305.64 (relating to Transfer of Permits) and 30 TAC § 50.133 (relating to Executive Director Action on Application or WQMP update).

6. Relationship to Hazardous Waste Activities

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

7. Relationship to Water Rights

   Disposal of treated effluent by any means other than discharge directly to water in the state must be specifically authorized in this permit and may require a permit pursuant to TWC Chapter 11.

8. Property Rights

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

9. Permit Enforceability

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

10. Relationship to Permit Application

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

11. Notice of Bankruptcy

    a. Each permittee shall notify the Executive Director, in writing, immediately following the filing of a voluntary or involuntary petition for bankruptcy under any chapter of Title 11 (Bankruptcy) of the United States Code (11 USC) by or against:

       i. the permittee;

       ii. an entity (as that term is defined in 11 USC, § 101(14)) controlling the permittee or listing the permit or permittee as property of the estate; or

iii. an affiliate (as that term is defined in 11 USC, § 101(2)) of the permittee.

b. This notification must indicate:

i. the name of the permittee;

ii. the permit number(s);

iii. the bankruptcy court in which the petition for bankruptcy was filed; and

iv. the date of filing of the petition.

OPERATIONAL REQUIREMENTS

1. The permittee shall at all times ensure that the facility and all of its systems of collection, treatment, and disposal are properly operated and maintained. This includes, but is not limited to, the regular, periodic examination of wastewater solids within the treatment plant by the operator in order to maintain an appropriate quantity and quality of solids inventory as described in the various operator training manuals and according to accepted industry standards for process control. Process control, maintenance, and operations records shall be retained at the facility site, or shall be readily available for review by a TCEQ representative, for a period of three years.

2. Upon request by the Executive Director, the permittee shall take appropriate samples and provide proper analysis in order to demonstrate compliance with Commission rules. Unless otherwise specified in this permit or otherwise ordered by the Commission, the permittee shall comply with all applicable provisions of 30 TAC Chapter 312 concerning sewage sludge or biosolids use and disposal and 30 TAC §§ 319.21 - 319.29 concerning the discharge of certain hazardous metals.

3. Domestic wastewater treatment facilities shall comply with the following provisions:

   a. The permittee shall notify the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, in writing, of any facility expansion at least 90 days prior to conducting such activity.

   b. The permittee shall submit a closure plan for review and approval to the Municipal Permits Team, Wastewater Permitting Section (MC 148) of the Water Quality Division, for any closure activity at least 90 days prior to conducting such activity. Closure is the act of permanently taking a waste management unit or treatment facility out of service and includes the permanent removal from service of any pit, tank, pond, lagoon, surface impoundment and/or other treatment unit regulated by this permit.

4. The permittee is responsible for installing prior to plant start-up, and subsequently maintaining, adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failures by means of alternate power sources, standby generators, and/or retention of inadequately treated wastewater.

5. Unless otherwise specified, the permittee shall provide a readily accessible sampling point and, where applicable, an effluent flow measuring device or other acceptable means by which effluent flow may be determined.

6. The permittee shall remit an annual water quality fee to the Commission as required by 30 TAC Chapter 21. Failure to pay the fee may result in revocation of this permit under TWC § 7.302(b)(6).

7. Documentation

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

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

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

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

   b. The plans and specifications for domestic sewage collection and treatment works associated with any domestic permit must be approved by the Commission and failure to secure approval before commencing construction of such works or making a discharge is a violation of this permit and each day is an additional violation until approval has been

secured.

c. Permits for domestic wastewater treatment plants are granted subject to the policy of the Commission to encourage the development of area-wide waste collection, treatment, and disposal systems. The Commission reserves the right to amend any domestic wastewater permit in accordance with applicable procedural requirements to require the system covered by this permit to be integrated into an area-wide system, should such be developed; to require the delivery of the wastes authorized to be collected in, treated by or discharged from said system, to such area-wide system; or to amend this permit in any other particular to effectuate the Commission's policy. Such amendments may be made when the changes required are advisable for water quality control purposes and are feasible on the basis of waste treatment technology, engineering, financial, and related considerations existing at the time the changes are required, exclusive of the loss of investment in or revenues from any then existing or proposed waste collection, treatment or disposal system.

9. Domestic wastewater treatment plants shall be operated and maintained by sewage plant operators holding a valid certificate of competency at the required level as defined in 30 TAC Chapter 30.

10. For Publicly Owned Treatment Works (POTWs), the 30-day average (or monthly average) percent removal for BOD and TSS shall not be less than 85%, unless otherwise authorized by this permit.

11. Facilities that generate industrial solid waste as defined in 30 TAC § 335.1 shall comply with these provisions:

a. Any solid waste, as defined in 30 TAC § 335.1 (including but not limited to such wastes as garbage, refuse, sludge from a waste treatment, water supply treatment plant or air pollution control facility, discarded materials, discarded materials to be recycled, whether the waste is solid, liquid, or semisolid), generated by the permittee during the management and treatment of wastewater, must be managed in accordance with all applicable provisions of 30 TAC Chapter 335, relating to Industrial Solid Waste Management.

b. Industrial wastewater that is being collected, accumulated, stored, or processed before discharge through any final discharge outfall, specified by this permit, is considered to be industrial solid waste until the wastewater passes through the actual point source discharge and must be managed in accordance with all applicable provisions of 30 TAC Chapter 335.

c. The permittee shall provide written notification, pursuant to the requirements of 30 TAC § 335.8(b)(1), to the Corrective Action Section (MC 127) of the Remediation Division informing the Commission of any closure activity involving an Industrial Solid Waste Management Unit, at least 90 days prior to conducting such an activity.

d. Construction of any industrial solid waste management unit requires the prior written notification of the proposed activity to the Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division. No person shall dispose of industrial solid waste, including sludge or other solids from wastewater treatment processes, prior to fulfilling the deed recordation requirements of 30 TAC § 335.5.

e. The term "industrial solid waste management unit" means a landfill, surface impoundment, waste-pile, industrial furnace, incinerator, cement kiln, injection well, container, drum, salt dome waste containment cavern, or any other structure vessel, appurtenance, or other improvement on land used to manage industrial solid waste.

f. The permittee shall keep management records for all sludge (or other waste) removed from any wastewater treatment process. These records shall fulfill all applicable requirements of 30 TAC § 335 and must include the following, as it pertains to wastewater treatment and discharge:

i. Volume of waste and date(s) generated from treatment process;
ii. Volume of waste disposed of on-site or shipped off-site;
iii. Date(s) of disposal;
iv. Identity of hauler or transporter;
v. Location of disposal site; and
vi. Method of final disposal.

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

12. For industrial facilities to which the requirements of 30 TAC § 335 do not apply, sludge and solid wastes, including tank cleaning and contaminated solids for disposal, shall be disposed of in accordance with THSC § 361.

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SLUDGE PROVISIONS

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

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

A. General Requirements

1. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 312 and all other applicable state and federal regulations in a manner that protects public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present in the sludge or biosolids.

2. In all cases, if the person (permit holder) who prepares the sewage sludge supplies the sewage sludge to another person for land application use or to the owner or lease holder of the land, the permit holder shall provide necessary information to the parties who receive the sludge to assure compliance with these regulations.

3. The land application of processed or unprocessed chemical toilet waste, grease trap waste, grit trap waste, milk solids, or similar non-hazardous municipal or industrial solid wastes, or any of the wastes listed in this provision combined with biosolids, WTP residuals or domestic septage is prohibited unless the grease trap waste is added at a fats, oil and grease (FOG) receiving facility as part of an anaerobic digestion process.

B. Testing Requirements

1. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I [Toxicity Characteristic Leaching Procedure (TCLP)] or other method that receives the prior approval of the TCEQ for the contaminants listed in 40 CFR Part 261.24, Table 1. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal. Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 13) within seven (7) days after failing the TCLP Test.

The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P.O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

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

TABLE 1

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

* Dry weight basis

3. Pathogen Control

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

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

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

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

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

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

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

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

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

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

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

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

d. Three alternatives are available to demonstrate compliance with Class B biosolids criteria.

Alternative 1

i. A minimum of seven random samples of the sewage sludge shall be collected within 48 hours of the time the sewage sludge is used or disposed of during each monitoring episode for the sewage sludge.

ii. The geometric mean of the density of fecal coliform in the samples collected shall be less than either 2,000,000 MPN per gram of total solids (dry weight basis) or 2,000,000 Colony Forming Units per gram of total solids (dry weight basis).

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

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

ii. An independent Texas Licensed Professional Engineer must make a certification to the generator of a sewage sludge that the wastewater treatment facility generating the sewage sludge is designed to achieve one of the PSRP at the permitted design loading of the facility. The certification need only be repeated if the design loading of the facility is increased. The certification shall include a statement indicating the design meets all the applicable standards specified in Appendix B of 40 CFR Part 503;

iii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iv. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review; and

v. If the sewage sludge is generated from a mixture of sources, resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the PSRP, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

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

ii. Prior to any off-site transportation or on-site use or disposal of any sewage sludge generated at a wastewater treatment facility, the chief certified operator of the wastewater treatment facility or other responsible official who manages the processes to significantly reduce pathogens at the wastewater treatment facility for the permittee, shall certify that the sewage sludge underwent at least the minimum operational requirements necessary in order to meet one of the PSRP. The acceptable processes and the minimum operational and record keeping requirements shall be in accordance with established U.S. Environmental Protection Agency final guidance;

iii. All certification records and operational records describing how the requirements of this paragraph were met shall be kept by the generator for a minimum of three years and be available for inspection by commission staff for review;

iv. The Executive Director will accept from the U.S. Environmental Protection Agency a finding of equivalency to the defined PSRP; and

v. If the sewage sludge is generated from a mixture of sources resulting from a person who prepares sewage sludge from more than one wastewater treatment facility, the resulting derived product shall meet one of the Processes to Significantly Reduce Pathogens, and shall meet the certification, operation, and record keeping requirements of this paragraph.

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

i. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.

ii. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for 4 months or longer prior to incorporation into the soil.

iii. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than 4 months prior to incorporation into the soil.

iv. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.

v. Domestic livestock shall not be allowed to graze on the land for 30 days after application of biosolids.

vi. Turf grown on land where biosolids are applied shall not be harvested for 1 year after application of the biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn.

vii. Public access to land with a high potential for public exposure shall be restricted for 1 year after application of biosolids.

viii. Public access to land with a low potential for public exposure shall be restricted for 30 days after application of biosolids.

ix. Land application of biosolids shall be in accordance with the buffer zone requirements found in 30 TAC § 312.44.

4. Vector Attraction Reduction Requirements

All bulk sewage sludge that is applied to agricultural land, forest, a public contact site, or a reclamation site shall be treated by one of the following Alternatives 1 through 10 for vector attraction reduction.

Alternative 1 - The mass of volatile solids in the sewage sludge shall be reduced by a minimum of 38%.

Alternative 2 - If Alternative 1 cannot be met for an anaerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge anaerobically in the laboratory in a bench-scale unit for 40 additional days at a temperature between 30° and 37° Celsius. Volatile solids must be reduced by less than 17% to demonstrate compliance.

Alternative 3 - If Alternative 1 cannot be met for an aerobically digested sludge, demonstration can be made by digesting a portion of the previously digested sludge with percent solids of two percent or less aerobically in the laboratory in a bench-scale unit for 30 additional days at 20° Celsius. Volatile solids must be reduced by less than 15% to demonstrate compliance.

Alternative 4 - The specific oxygen uptake rate (SOUR) for sewage sludge treated in an aerobic process shall be equal to or less than 1.5 milligrams of oxygen per hour per gram of total solids (dry weight basis) at a temperature of 20° Celsius.

Alternative 5 - Sewage sludge shall be treated in an aerobic process for 14 days or longer. During that time, the temperature of the sewage sludge shall be higher than 40° Celsius and the average temperature of the sewage sludge shall be higher than 45° Celsius.

Alternative 6 - The pH of sewage sludge shall be raised to 12 or higher by alkali addition and, without the addition of more alkali shall remain at 12 or higher for two hours and then remain at a pH of 11.5 or higher for an additional 22 hours at the time the sewage sludge is prepared for sale or given away in a bag or other container.

Alternative 7 - The percent solids of sewage sludge that does not contain unstabilized solids generated in a primary wastewater treatment process shall be equal to or greater than 75% based on the moisture content and total solids prior to mixing with other materials. Unstabilized solids are defined as organic materials in sewage sludge that have not been treated in either an aerobic or anaerobic treatment process.

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

Alternative 9 -

i. Biosolids shall be injected below the surface of the land.

ii. No significant amount of the biosolids shall be present on the land surface within one hour after the biosolids are injected.

iii. When sewage sludge that is injected below the surface of the land is Class A or Class AB with respect to pathogens, the biosolids shall be injected below the land surface within eight hours after being discharged from the pathogen treatment process.

Alternative 10-

i. Biosolids applied to the land surface or placed on a surface disposal site shall be incorporated into the soil within six hours after application to or placement on the land.

ii. When biosolids that are incorporated into the soil is Class A or Class AB with respect to pathogens, the biosolids shall be applied to or placed on the land within eight hours after being discharged from the pathogen treatment process.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	- annually
PCBs	- annually

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

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

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

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

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

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

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

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

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

A. Pollutant Limits

Table 2

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

Table 3

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

*Dry weight basis

B. Pathogen Control

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

C. Management Practices

1. Bulk biosolids shall not be applied to agricultural land, forest, a public contact site, or a reclamation site that is flooded, frozen, or snow-covered so that the bulk sewage sludge enters a wetland or other waters in the State.

2. Bulk biosolids not meeting Class A requirements shall be land applied in a manner which complies with Applicability in accordance with 30 TAC §312.41 and the Management Requirements in accordance with 30 TAC § 312.44.

3. Bulk biosolids shall be applied at or below the agronomic rate of the cover crop.

4. An information sheet shall be provided to the person who receives bulk Class A or AB biosolids sold or given away. The information sheet shall contain the following information:

    a. The name and address of the person who prepared the Class A or AB biosolids that are sold or given away in a bag or other container for application to the land.

    b. A statement that application of the biosolids to the land is prohibited except in accordance with the instruction on the label or information sheet.

    c. The annual whole sludge application rate for the biosolids application rate for the biosolids that does not cause any of the cumulative pollutant loading rates in Table 2 above to be exceeded, unless the pollutant concentrations in Table 3 found in Section II above are met.

D. Notification Requirements

1. If bulk biosolids are applied to land in a State other than Texas, written notice shall be provided prior to the initial land application to the permitting authority for the State in which the bulk biosolids are proposed to be applied. The notice shall include:

    a. The location, by street address, and specific latitude and longitude, of each land application site.

    b. The approximate time period bulk biosolids will be applied to the site.

    c. The name, address, telephone number, and National Pollutant Discharge Elimination System permit number (if appropriate) for the person who will apply the bulk biosolids.

2. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the biosolids disposal practice.

E. Record Keeping Requirements

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

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

1. The concentration (mg/kg) in the sludge of each pollutant listed in Table 3 above and the applicable pollutant concentration criteria (mg/kg), or the applicable cumulative pollutant loading rate and the applicable cumulative pollutant loading rate limit (lbs/ac) listed in Table 2 above.

2. A description of how the pathogen reduction requirements are met (including site restrictions for Class AB and Class B biosolids, if applicable).

3. A description of how the vector attraction reduction requirements are met.

4. A description of how the management practices listed above in Section II.C are being met.

5. The following certification statement:

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

6. The recommended agronomic loading rate from the references listed in Section II.C.3. above, as well as the actual agronomic loading rate shall be retained. The person who applies bulk biosolids shall develop the following information and shall retain the information at the facility site and/or shall be readily available for review by a TCEQ representative indefinitely. If the permittee supplies the sludge to another person who land applies the sludge, the permittee shall notify the land applier of the requirements for record keeping found in 30 TAC § 312.47 for persons who land apply:

   a. A certification statement that all applicable requirements (specifically listed) have been met, and that the permittee understands that there are significant penalties for false certification including fine and imprisonment. See 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii), as applicable, and to the permittee's specific sludge treatment activities.

   b. The location, by street address, and specific latitude and longitude, of each site on which biosolids are applied.

   c. The number of acres in each site on which bulk biosolids are applied.

   d. The date and time biosolids are applied to each site.

   e. The cumulative amount of each pollutant in pounds/acre listed in Table 2 applied to each site.

   f. The total amount of biosolids applied to each site in dry tons.

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

F. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

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

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

3. Results of tests performed for pollutants found in either Table 2 or 3 as appropriate for the permittee's land application practices.

4. The frequency of monitoring listed in Section I.C. that applies to the permittee.

5. Toxicity Characteristic Leaching Procedure (TCLP) results.

6. PCB concentration in sludge or biosolids in mg/kg.

7. Identity of hauler(s) and TCEQ transporter number.

8. Date(s) of transport.

9. Texas Commission on Environmental Quality registration number, if applicable.

10. Amount of sludge or biosolids disposal dry weight (lbs/acre) at each disposal site.

11. The concentration (mg/kg) in the sludge of each pollutant listed in Table 1 (defined as a monthly average) as well as the applicable pollutant concentration criteria (mg/kg) listed in Table 3 above, or the applicable pollutant loading rate limit (lbs/acre) listed in Table 2 above if it exceeds 90% of the limit.

12. Level of pathogen reduction achieved (Class A, Class AB or Class B).

13. Alternative used as listed in Section I.B.3.(a. or b.). Alternatives describe how the pathogen reduction requirements are met. If Class B biosolids, include information on how site restrictions were met.

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

15. Vector attraction reduction alternative used as listed in Section I.B.4.

16. Amount of sludge or biosolids transported in dry tons/year.

17. The certification statement listed in either 30 TAC § 312.47(a)(4)(A)(ii) or 30 TAC § 312.47(a)(5)(A)(ii) as applicable to the permittee's sludge or biosolids treatment activities, shall be attached to the annual reporting form.

18. When the amount of any pollutant applied to the land exceeds 90% of the cumulative pollutant loading rate for that pollutant, as described in Table 2, the permittee shall report the following information as an attachment to the annual reporting form.

    a. The location, by street address, and specific latitude and longitude.

    b. The number of acres in each site on which bulk biosolids are applied.

    c. The date and time bulk biosolids are applied to each site.

    d. The cumulative amount of each pollutant (i.e., pounds/acre) listed in Table 2 in the bulk biosolids applied to each site.

    e. The amount of biosolids (i.e., dry tons) applied to each site.

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

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

A. The permittee shall handle and dispose of sewage sludge or biosolids in accordance with 30 TAC § 330 and all other applicable state and federal regulations to protect public health and the environment from any reasonably anticipated adverse effects due to any toxic pollutants that may be present. The permittee shall ensure that the sewage sludge meets the requirements in 30 TAC § 330 concerning the quality of the sludge or biosolids disposed in a municipal solid waste landfill.

B. If the permittee generates sewage sludge and supplies that sewage sludge or biosolids to the owner or operator of a municipal solid waste landfill (MSWLF) for disposal, the permittee shall provide to the owner or operator of the MSWLF appropriate information needed to be in compliance with the provisions of this permit.

C. The permittee shall give 180 days prior notice to the Executive Director in care of the Wastewater Permitting Section (MC 148) of the Water Quality Division of any change planned in the sewage sludge or biosolids disposal practice.

D. Sewage sludge or biosolids shall be tested annually in accordance with the method specified in both 40 CFR Part 261, Appendix II and 40 CFR Part 268, Appendix I (Toxicity Characteristic Leaching Procedure) or other method, which receives the prior approval of the TCEQ for contaminants listed in Table 1 of 40 CFR § 261.24. Sewage sludge or biosolids failing this test shall be managed according to RCRA standards for generators of hazardous waste, and the waste's disposition must be in accordance with all applicable requirements for hazardous waste processing, storage, or disposal.

   Following failure of any TCLP test, the management or disposal of sewage sludge or biosolids at a facility other than an authorized hazardous waste processing, storage, or disposal facility shall be prohibited until such time as the permittee can demonstrate the sewage sludge or biosolids no longer exhibits the hazardous waste toxicity characteristics (as demonstrated by the results of the TCLP tests). A written report shall be provided to both the TCEQ Registration and Reporting Section (MC 129) of the Permitting and Registration Support Division and the Regional Director (MC Region 13) of the appropriate TCEQ field office within 7 days after failing the TCLP Test.

   The report shall contain test results, certification that unauthorized waste management has stopped, and a summary of alternative disposal plans that comply with RCRA standards for the management of hazardous waste. The report shall be addressed to: Director, Permitting and Registration Support Division (MC 129), Texas Commission on Environmental Quality, P. O. Box 13087, Austin, Texas 78711-3087. In addition, the permittee shall prepare an annual report on the results of all sludge toxicity testing. This annual report shall be submitted to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224), by September 30 of each year.

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

F. Record Keeping Requirements

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

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

2. The description (including procedures followed and results) of all TCLP tests performed.

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

G. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

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

2. Toxicity Characteristic Leaching Procedure (TCLP) results.

3. Annual sludge or biosolids production in dry tons/year.

4. Amount of sludge or biosolids disposed in a municipal solid waste landfill in dry tons/year.

5. Amount of sludge or biosolids transported interstate in dry tons/year.

6. A certification that the sewage sludge or biosolids meets the requirements of 30 TAC § 330 concerning the quality of the sludge disposed in a municipal solid waste landfill.

7. Identity of hauler(s) and transporter registration number.

8. Owner of disposal site(s).

9. Location of disposal site(s).

10. Date(s) of disposal.

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

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

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

A. General Requirements

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

2. Sludge or biosolids may only be transported using a registered transporter or using an approved pipeline.

B. Record Keeping Requirements

1. For sludge transported by an approved pipeline, the permittee must maintain records of the following:

   a. the amount of sludge or biosolids transported;

   b. the date of transport;

   c. the name and TCEQ permit number of the receiving facility or facilities;

   d. the location of the receiving facility or facilities;

   e. the name and TCEQ permit number of the facility that generated the waste; and

   f. copy of the written agreement between the permittee and the receiving facility to accept sludge or biosolids.

2. For sludge or biosolids transported by a registered transporter, the permittee must maintain records of the completed trip tickets in accordance with 30 TAC § 312.145(a)(1)-(7) and amount of sludge or biosolids transported.

3. The above records shall be maintained on-site on a monthly basis and shall be made available to the TCEQ upon request. These records shall be retained for at least five years.

C. Reporting Requirements

The permittee shall submit the following information in an annual report to the TCEQ by September 30th of each year. The permittee must submit this annual report using the online electronic reporting system available through TCEQ's website. If the permittee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 13) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

6. the date(s) of disposal at each receiving facility.

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OTHER REQUIREMENTS

1. The permittee shall employ or contract with one or more licensed wastewater treatment facility operators or wastewater system operations companies holding a valid license or registration according to the requirements of 30 TAC Chapter 30, Occupational Licenses and Registrations, and in particular 30 TAC Chapter 30, Subchapter J, Wastewater Operators and Operations Companies.

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

2. The facility is not located in the Coastal Management Program boundary.

3. Chronic toxic criteria apply at the edge of the mixing zone. The mixing zone is defined as 300 feet downstream and 100 feet upstream from the point of discharge.

4. The permit issued on December 15, 1995, includes a variance to the buffer zone requirements in accordance with 30 TAC Section 309.13(e)(2). The permittee shall comply with the requirements of 30 TAC Section 309.13(a) through (d). (See Attachment A).

5. The permittee shall provide facilities for the protection of its wastewater treatment facility from a 100-year flood.

6. In accordance with 30 TAC § 319.9, a permittee that has at least twelve months of uninterrupted compliance with its bacteria limit may notify the commission in writing of its compliance and request a less frequent measurement schedule. To request a less frequent schedule, the permittee shall submit a written request to the TCEQ Wastewater Permitting Section (MC 148) for each phase that includes a different monitoring frequency. The request must contain all of the reported bacteria values (Daily Avg. and Daily Max/Single Grab) for the twelve consecutive months immediately prior to the request. If the Executive Director finds that a less frequent measurement schedule is protective of human health and the environment, the permittee may be given a less frequent measurement schedule. For this permit, One/week may be reduced to Two/month. **A violation of any bacteria limit by a facility that has been granted a less frequent measurement schedule will require the permittee to return to the standard frequency schedule and submit written notice to the TCEQ Wastewater Permitting Section (MC 148).** The permittee may not apply for another reduction in measurement frequency for at least 24 months from the date of the last violation. The Executive Director may establish a more frequent measurement schedule if necessary to protect human health or the environment.

CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

1. The permittee shall operate an industrial pretreatment program in accordance with Sections 402(b)(8) and (9) of the Clean Water Act, the General Pretreatment Regulations (40 CFR Part 403), and the approved **City of Seguin** publicly owned treatment works (POTW) pretreatment program submitted by the permittee. The pretreatment program was approved on **May 21, 2002, and** modified on **April 29, 2010**, on **March 28, 2011** (nonsubstantial Streamlining Rule), **and on the date of issuance of this permit action** (TBLLs)**.**

   The POTW pretreatment program is hereby incorporated by reference and shall be implemented in a manner consistent with the following requirements:

   a. Industrial user (IU) information shall be kept current according to 40 CFR §§403.8(f)(2)(i) and (ii) and updated at a frequency set forth in the approved pretreatment program to reflect the accurate characterization of all IUs.

   b. The frequency and nature of IU compliance monitoring activities by the permittee shall be consistent with the approved POTW pretreatment program and commensurate with the character, consistency, and volume of waste. The permittee is required to inspect and sample the effluent from each significant industrial user (SIU) at least once per year, except as specified in 40 CFR §403.8(f)(2)(v). This is in addition to any industrial self-monitoring activities.

   c. The permittee shall enforce and obtain remedies for IU noncompliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program.

   d. The permittee shall control through permit, order, or similar means, the contribution to the POTW by each IU to ensure compliance with applicable pretreatment standards and requirements and the approved POTW pretreatment program. In the case of SIUs (identified as significant under 40 CFR §403.3(v)), this control shall be achieved through individual permits or general control mechanisms, in accordance with 40 CFR §403.8(f)(1)(iii).

      Both individual and general control mechanisms must be enforceable and contain, at a minimum, the following conditions:

      (1) Statement of duration (in no case more than five years);
      (2) Statement of non-transferability without, at a minimum, prior notification to the POTW and provision of a copy of the existing control mechanism to the new owner or operator;
      (3) Effluent limits, which may include enforceable best management practices (BMPs), based on applicable general pretreatment standards, categorical pretreatment standards, local limits, and State and local law;
      (4) Self-monitoring, sampling, reporting, notification and record keeping requirements, identification of the pollutants to be monitored (including, if applicable, the process for seeking a waiver for a pollutant neither present nor expected to be present in the IU's discharge in accordance with 40 CFR §403.12(e)(2), or a specific waived pollutant in the case of an individual control mechanism), sampling location, sampling frequency, and sample type, based on the applicable general pretreatment standards in 40 CFR Part 403, categorical pretreatment standards, local limits, and State and local law;

(5) Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond federal deadlines; and

(6) Requirements to control slug discharges, if determined by the POTW to be necessary.

e. For those IUs who are covered by a general control mechanism, in order to implement 40 CFR §403.8(f)(1)(iii)(A)(2), a monitoring waiver for a pollutant neither present nor expected to be present in the IU's discharge is not effective in the general control mechanism until after the POTW has provided written notice to the SIU that such a waiver request has been granted in accordance with 40 CFR §403.12(e)(2).

f. The permittee shall evaluate whether each SIU needs a plan or other action to control slug discharges, in accordance with 40 CFR §403.8(f)(2)(vi). If the POTW decides that a slug control plan is needed, the plan shall contain at least the minimum elements required in 40 CFR §403.8(f)(2)(vi).

g. The permittee shall provide adequate staff, equipment, and support capabilities to carry out all elements of the pretreatment program.

h. The approved program shall not be modified by the permittee without the prior approval of the Executive Director, according to 40 CFR §403.18.

2. The permittee is under a continuing duty to establish and enforce specific local limits to implement the provisions of 40 CFR §403.5, develop and enforce local limits as necessary, and modify the approved pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee may develop BMPs to implement 40 CFR §403.5(c)(1) and (2). Such BMPs shall be considered local limits and pretreatment standards. The permittee is required to effectively enforce such limits and to modify its pretreatment program, including the Legal Authority, Enforcement Response Plan, and Standard Operating Procedures (including forms), if required by the Executive Director to reflect changing conditions at the POTW. Substantial modifications will be approved in accordance with 40 CFR §403.18, and modifications will become effective upon approval by the Executive Director in accordance with 40 CFR §403.18.

3. The permittee shall analyze the treatment facility influent and effluent for the presence of the toxic pollutants listed in the Texas Surface Water Quality Standards [30 TAC Chapter 307], and 40 CFR Part 122, Appendix D, Table II at least **once per twelve months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per six months**. If, based upon information available to the permittee, there is reason to suspect the presence of any toxic or hazardous pollutant listed in 40 CFR Part 122, Appendix D, Table V, or any other pollutant, known or suspected to adversely affect treatment plant operation, receiving water quality, or solids disposal procedures, analysis for those pollutants shall be performed at least **once per six months** on both the influent and the effluent.

   The influent and effluent samples collected shall be composite samples consisting of at least 12 aliquots collected at approximately equal intervals over a representative 24-hour period and composited according to flow. Sampling and analytical procedures shall be in accordance with guidelines established in 40 CFR Part 136, as amended; as approved by the

EPA through the application for alternate test procedures; or as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards* (RG-194), June 2010, as amended and adopted by the TCEQ. The effluent samples shall be analyzed to the minimum analytical level (MAL), if necessary, to determine compliance with the daily average water quality based effluent concentration from the TCEQ's Texas Toxicity Modeling Program (TEXTOX) and other applicable water quality discharge standards. Where composite samples are inappropriate due to sampling, holding time, or analytical constraints, at least four (4) grab samples shall be taken at equal intervals over a representative 24-hour period.

4. The permittee shall prepare annually a list of IUs, which during the preceding twelve (12) months were in significant noncompliance (SNC) with applicable pretreatment requirements. For the purposes of this section of the permit, "CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS," SNC shall be determined based upon the more stringent of either criteria established at 40 CFR §403.8(f)(2)(viii) *[rev. 10/14/05]* or criteria established in the approved POTW pretreatment program. This list is to be published annually during the month of **May** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

   In addition, each **May** the permittee shall submit an updated pretreatment program annual status report, in accordance with 40 CFR §§403.12(i) [*rev. 10/22/15*] and (m), to the TCEQ Pretreatment Team (MC148) of the Water Quality Division. The report summary shall be submitted on the Pretreatment Performance Summary (PPS) form [TCEQ-20218]. The report shall contain the following information as well as the information on the tables in this section:

   a. An updated list of all regulated IUs as indicated in this section. For each listed IU, the following information shall be included:

      (1) Standard Industrial Classification (SIC) or North American Industry Classification System (NAICS) code *and* categorical determination.

      (2) If the pretreatment program has been modified and approved to incorporate reduced monitoring for any of the categorical IUs as provided by 40 CFR Part 403 [*rev. 10/14/05*], then the list must also identify:

         - categorical IUs subject to the conditions for reduced monitoring and reporting requirements under 40 CFR § 403.12(e)(1) [*rev. 10/22/15*] and (3);

         - those IUs that are non-significant categorical industrial users (NSCIUs) under 40 CFR §403.3(v)(2); and

         - those IUs that are middle tier categorical industrial users (MTCIUs) under 40 CFR §403.12(e)(3).

      (3) Control mechanism status.

         - Indicate whether the IU has an effective individual or general control mechanism, and the date such control mechanism was last issued, reissued, or modified;

- Indicate which IUs were added to the system, or newly identified, during the pretreatment year reporting period;
- Include the type of general control mechanisms; and
- Report all NSCIU annual evaluations performed, as applicable.

(4) A summary of all compliance monitoring activities performed by the POTW during the pretreatment year reporting period. The following information shall be reported:

- Total number of inspections performed; and
- Total number of sampling events conducted.

(5) Status of IU compliance with effluent limitations, reporting, and narrative standard (which may include enforceable BMPs, narrative limits, and/or operational standards) requirements. Compliance status shall be defined as follows:

- Compliant (C) - no violations during the pretreatment year reporting period;
- Non-compliant (NC) - one or more violations during the pretreatment year reporting period but does not meet the criteria for SNC; and
- Significant Noncompliance (SNC) - in accordance with requirements described above in this section.

(6) For noncompliant IUs, indicate the nature of the violations, the type and number of actions taken (notice of violation, administrative order, criminal or civil suit, fines or penalties collected, etc.), and the current compliance status. If any IU was on a schedule to attain compliance with effluent limits or narrative standards, indicate the date the schedule was issued and the date compliance is to be attained.

b. A list of each IU whose authorization to discharge was terminated or revoked during the pretreatment year reporting period and the reason for termination.

c. A report on any interference, pass through, Act of God, or POTW permit violations known or suspected to be caused by IUs and response actions taken by the permittee.

d. The results of all influent and effluent analyses performed pursuant to Item 3 of this section.

e. An original newspaper public notice, or copy of the newspaper publication with official affidavit, of the list of IUs that meet the criteria of SNC, giving the name of the newspaper and date the list was published.

f. The daily average water quality based effluent concentrations (from the TCEQ's Texas Toxicity Modeling Program (TexTox)) necessary to attain the Texas Surface Water Quality Standards, 30 TAC Chapter 307, in water in the state.

g. The maximum allowable headworks loading (MAHL) in pounds per day (lb/day) of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. In addition, the influent loading as a percent of the MAHL, using the annual average flow of the wastewater treatment plant in million gallons per day (MGD) during the pretreatment year reporting period, for each pollutant that has an adopted TBLL or for each POC for which the permittee has calculated a MAHL. (*See Endnotes No. 2 at the end of this section for the influent loading as a percent of the MAHL equation*.)

h. The permittee may submit the updated pretreatment program annual status report information in tabular form using the example table format provided. Please attach, on a separate sheet, explanations to document the various pretreatment activities, including IU permits that have expired, BMP violations, and any sampling events that were not conducted by the permittee as required.

i. A summary of changes to the POTW's approved pretreatment program that have not been previously reported to the Approval Authority.

Effective December 21, 2025, the permittee must submit the updated pretreatment program annual status report required by this section electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. *[rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].*

5. The permittee shall provide adequate written notification to the Executive Director, care of the Wastewater Permitting Section (MC 148) of the Water Quality Division, within 30 days of the permittee's knowledge of the following:

a. Any new introduction of pollutants into the treatment works from an indirect discharger that would be subject to Sections 301 and 306 of the Clean Water Act, if the indirect discharger was directly discharging those pollutants; and

b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of the permit.

Adequate notice shall include information on the quality and quantity of effluent to be introduced into the treatment works and any anticipated impact of the change on the quality or quantity of effluent to be discharged from the POTW.

Revised March 2022

BIOMONITORING REQUIREMENTS

48-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

   a. The permittee shall test the effluent for toxicity in accordance with the provisions below. Such testing will determine if an appropriately dilute effluent sample adversely affects the survival of the test organisms.

   b. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this part of this permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update

      1) Acute static renewal 48-hour definitive toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia)*. A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

      2) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and in each dilution. This test shall be conducted once per quarter.

      The permittee must perform and submit a valid test for each test species during the required reporting period for that species. A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution. A repeat test shall include the control and all effluent dilutions and use the appropriate number of organisms and replicates, as specified above. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

   c. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 15%, 20%, 27%, 36%, and 48% effluent. The critical dilution, defined as 36% effluent, is the effluent concentration representative of the proportion of effluent in the receiving water during critical low flow or critical mixing conditions.

   d. This permit may be amended to require a WET limit, a chemical-specific limit, a best management practice, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

   e. Testing Frequency Reduction

      1) If none of the first four consecutive quarterly tests demonstrates

significant lethal effects, the permittee may submit this information in writing and, upon approval, reduce the testing frequency to once per six months for the invertebrate test species and once per year for the vertebrate test species.

2) If one or more of the first four consecutive quarterly tests demonstrates significant lethal effects, the permittee shall continue quarterly testing for that species until this permit is reissued. If a testing frequency reduction had been previously granted and a subsequent test demonstrates significant lethal effects, the permittee shall resume a quarterly testing frequency for that species until this permit is reissued.

2. Required Toxicity Testing Conditions

a. Test Acceptance - The permittee shall repeat any toxicity test, including the control and all effluent dilutions, which fails to meet any of the following criteria:

1) a control mean survival of 90% or greater; and

2) a coefficient of variation percent (CV%) of 40 or less for both the control and critical dilution. However, if significant lethality is demonstrated, a CV% greater than 40 shall not invalidate the test. The CV% requirement does not apply when significant lethality occurs.

b. Statistical Interpretation

1) For the water flea and fathead minnow tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the manual referenced in Part 1.b.

2) The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The document entitled “Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)” (EPA 821-B-00-004) provides guidance on determining the validity of test results.

3) If significant lethality is demonstrated (that is, there is a statistically significant difference in survival at the critical dilution when compared to the survival in the control), the conditions of test acceptability are met, and the survival of the test organisms are equal to or greater than 90% in the critical dilution and all dilutions below that, then the permittee shall report a survival No Observed Effect Concentration (NOEC) of not less than the critical dilution for the reporting requirements.

4) The NOEC is defined as the greatest effluent dilution at which no significant lethality is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which significant lethality is demonstrated. Significant lethality is defined as a statistically significant difference between the survival of the test

organism in a specified effluent dilution when compared to the survival of the test organism in the control.

5) The use of NOECs and LOECs assumes either a monotonic (continuous) concentration-response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced in Item 2.

6) Pursuant to the responsibility assigned to the permittee in Part 2.b.2), test results that demonstrate a non-monotonic (non-continuous) concentration-response relationship may be submitted, prior to the due date, for technical review. The guidance manual referenced in Item 2 will be used when making a determination of test acceptability.

7) TCEQ staff will review test results for consistency with rules, procedures, and permit requirements.

c. Dilution Water

1) Dilution water used in the toxicity tests must be the receiving water collected at a point upstream of the discharge point as close as possible to the discharge point but unaffected by the discharge. Where the toxicity tests are conducted on effluent discharges to receiving waters that are classified as intermittent streams, or where the toxicity tests are conducted on effluent discharges where no receiving water is available due to zero flow conditions, the permittee shall:

a) substitute a synthetic dilution water that has a pH, hardness, and alkalinity similar to that of the closest downstream perennial water unaffected by the discharge; or

b) use the closest downstream perennial water unaffected by the discharge.

2) Where the receiving water proves unsatisfactory as a result of preexisting instream toxicity (i.e. fails to fulfill the test acceptance criteria of Part 2.a.), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

a) a synthetic lab water control was performed (in addition to the receiving water control) which fulfilled the test acceptance requirements of Part 2.a;

b) the test indicating receiving water toxicity was carried out to completion; and

c) the permittee submitted all test results indicating receiving water toxicity with the reports and information required in Part 3.

3) The synthetic dilution water shall consist of standard, moderately hard, reconstituted water. Upon approval, the permittee may substitute other appropriate dilution water with chemical and physical characteristics similar to that of the receiving water.

d. Samples and Composites

1) The permittee shall collect a minimum of two composite samples from Outfall 001. The second composite sample will be used for the renewal of the dilution concentrations for each toxicity test.

2) The permittee shall collect the composite samples such that the samples are representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged on an intermittent basis.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the first composite sample. The holding time for the subsequent composite sample shall not exceed 72 hours. Samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions, and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume sufficient to complete the required toxicity tests with renewal of the effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report.

5) The effluent samples shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated whether carried to completion or not.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 1 forms provided with this permit.

1) Annual biomonitoring test results are due on or before January 20th for biomonitoring conducted during the previous 12-month period.

2) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

3) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

4) Monthly biomonitoring test results are due on or before the 20th day of the month following sampling.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TEM3D, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For the water flea, Parameter TOM3D, report the NOEC for survival.

3) For the water flea, Parameter TXM3D, report the LOEC for survival.

4) For the fathead minnow, Parameter TEM6C, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0.

5) For the fathead minnow, Parameter TOM6C, report the NOEC for survival.

6) For the fathead minnow, Parameter TXM6C, report the LOEC for survival.

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

2) For retest number 2, Parameter 22416, enter a "1" if the NOEC for survival is less than the critical dilution; otherwise, enter a "0."

4. Persistent Toxicity

The requirements of this part apply only when a toxicity test demonstrates significant lethality. Significant lethality was defined in Part 2.b.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates significant lethality. The two retests shall be conducted monthly during the next two consecutive months. The permittee shall not substitute either of the two retests in lieu of routine toxicity testing. All reports shall be submitted within 20 days of test completion. Test completion is defined as the last day of the test.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant

lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

c. The provisions of Part 4.a. are suspended upon completion of the two retests and submittal of the TRE action plan and schedule defined in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analyses to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall describe an approach for the reduction or elimination of lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, project manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation which identifies the pollutant(s) and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality. i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive months with at least monthly testing. At the end of the 12 months, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply

as a result of corrective actions taken by the permittee. Corrective actions are herein defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 28 months from the last test day of the retest that confirmed significant lethal effects at the critical dilution. The permittee may petition the Executive Director (in writing) for an extension of the 28-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond their control stalled the toxicity identification evaluation/TRE. The report shall provide information pertaining to the specific control mechanism selected that will, when implemented, result in the reduction of effluent toxicity to no significant lethality at the critical dilution. The report shall also provide a specific corrective action schedule for implementing the selected control mechanism.

h. Based on the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements, where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

i. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 1 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

Dates and Times Composites Collected — Date Time / Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent (%)					
		0%	15%	20%	27%	36%	48%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

*Coefficient of Variation = Standard Deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (36%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

TABLE 1 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

Dates and Times Composites Collected — Date Time / Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

PERCENT SURVIVAL

Time	Rep	Percent effluent (%)					
		0%	15%	20%	27%	36%	48%
24h	A						
	B						
	C						
	D						
	E						
48h	A						
	B						
	C						
	D						
	E						
Mean at test end							
CV%*							

* Coefficient of Variation = standard deviation x 100/mean

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate:

Is the mean survival at 48 hours significantly less than the control survival?

CRITICAL DILUTION (36%): _____ YES _____ NO

Enter percent effluent corresponding to the NOEC below:

1) NOEC survival = _____% effluent

2) LOEC survival = _____% effluent

24-HOUR ACUTE BIOMONITORING REQUIREMENTS: FRESHWATER

The provisions of this section apply to Outfall 001 for whole effluent toxicity (WET) testing.

1. Scope, Frequency, and Methodology

a. The permittee shall test the effluent for lethality in accordance with the provisions in this section. Such testing will determine compliance with Texas Surface Water Quality Standard 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival of the appropriate test organisms in 100% effluent for a 24-hour period.

b. The toxicity tests specified shall be conducted once per six months. The permittee shall conduct the following toxicity tests using the test organisms, procedures, and quality assurance requirements specified in this section of the permit and in accordance with "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," fifth edition (EPA-821-R-02-012) or its most recent update:

1) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

2) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*). A minimum of five replicates with eight organisms per replicate shall be used in the control and each dilution.

The permittee must perform and report a valid test for each test species during the prescribed reporting period. An invalid test must be repeated during the same reporting period. An invalid test is defined as any test failing to satisfy the test acceptability criteria, procedures, and quality assurance requirements specified in the test methods and permit.

c. In addition to an appropriate control, a 100% effluent concentration shall be used in the toxicity tests. The control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

d. This permit may be amended to require a WET limit, a best management practice, a chemical-specific limit, or other appropriate actions to address toxicity. The permittee may be required to conduct a toxicity reduction evaluation (TRE) after multiple toxic events.

2. Required Toxicity Testing Conditions

a. Test Acceptance – The permittee shall repeat any toxicity test, including the control, if the control fails to meet a mean survival equal to or greater than 90%.

b. Dilution Water - In accordance with Part 1.c., the control and dilution water shall consist of standard, synthetic, moderately hard, reconstituted water.

c. Samples and Composites

1) The permittee shall collect one composite sample from Outfall 001.

2) The permittee shall collect the composite samples such that the sample is representative of any periodic episode of chlorination, biocide usage, or other potentially toxic substance being discharged.

3) The permittee shall initiate the toxicity tests within 36 hours after collection of the last portion of the composite sample. The samples shall be maintained at a temperature of 0-6 degrees Centigrade during collection, shipping, and storage.

4) If Outfall 001 ceases discharging during the collection of the effluent composite sample, the requirements for the minimum number of effluent portions are waived. However, the permittee must have collected a composite sample volume sufficient for completion of the required test. The abbreviated sample collection, duration, and methodology must be documented in the full report.

5) The effluent sample shall not be dechlorinated after sample collection.

3. Reporting

All reports, tables, plans, summaries, and related correspondence required in this section shall be submitted to the attention of the Standards Implementation Team (MC 150) of the Water Quality Division.

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this permit in accordance with the manual referenced in Part 1.b. for every valid and invalid toxicity test initiated.

b. The permittee shall routinely report the results of each biomonitoring test on the Table 2 forms provided with this permit.

1) Semiannual biomonitoring test results are due on or before July 20th and January 20th for biomonitoring conducted during the previous 6-month period.

2) Quarterly biomonitoring test results are due on or before April 20th, July 20th, October 20th, and January 20th for biomonitoring conducted during the previous calendar quarter.

c. Enter the following codes for the appropriate parameters for valid tests only:

1) For the water flea, Parameter TIE3D, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

2) For the fathead minnow, Parameter TIE6C, enter a “0” if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter “1.”

d. Enter the following codes for retests only:

1) For retest number 1, Parameter 22415, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

2) For retest number 2, Parameter 22416, enter a "0" if the mean survival at 24 hours is greater than 50% in the 100% effluent dilution; if the mean survival is less than or equal to 50%, enter "1."

4. Persistent Mortality

The requirements of this part apply when a toxicity test demonstrates significant lethality, which is defined as a mean mortality of 50% or greater of organisms exposed to the 100% effluent concentration for 24 hours.

a. The permittee shall conduct 2 additional tests (retests) for each species that demonstrates significant lethality. The two retests shall be conducted once per week for 2 weeks. Five effluent dilution concentrations in addition to an appropriate control shall be used in the retests. These effluent concentrations are 6%, 13%, 25%, 50% and 100% effluent. The first retest shall be conducted within 15 days of the laboratory determination of significant lethality. All test results shall be submitted within 20 days of test completion of the second retest. Test completion is defined as the 24th hour.

b. If one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall initiate the TRE requirements as specified in Part 5.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, the permittee shall submit a general outline for initiating a TRE. The outline shall include, but not be limited to, a description of project personnel, a schedule for obtaining consultants (if needed), a discussion of influent and effluent data available for review, a sampling and analytical schedule, and a proposed TRE initiation date.

b. Within 90 days of the retest that demonstrates significant lethality, the permittee shall submit a TRE action plan and schedule for conducting a TRE. The plan shall specify the approach and methodology to be used in performing the TRE. A TRE is a step-wise investigation combining toxicity testing with physical and chemical analysis to determine actions necessary to eliminate or reduce effluent toxicity to a level not effecting significant lethality at the critical dilution. The TRE action plan shall lead to the successful elimination of significant lethality for both test species defined in Part 1.b. At a minimum, the TRE action plan shall include the following:

1) Specific Activities - The TRE action plan shall specify the approach the permittee intends to utilize in conducting the TRE, including toxicity characterizations, identifications, confirmations, source evaluations, treatability studies, and alternative approaches. When conducting

characterization analyses, the permittee shall perform multiple characterizations and follow the procedures specified in the document entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA/600/6-91/003) or alternate procedures. The permittee shall perform multiple identifications and follow the methods specified in the documents entitled "Methods for Aquatic Toxicity Identification Evaluations: Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations: Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081). All characterization, identification, and confirmation tests shall be conducted in an orderly and logical progression;

2) Sampling Plan - The TRE action plan should describe sampling locations, methods, holding times, chain of custody, and preservation techniques. The effluent sample volume collected for all tests shall be adequate to perform the toxicity characterization/identification/confirmation procedures, and chemical-specific analyses when the toxicity tests show significant lethality. Where the permittee has identified or suspects a specific pollutant and source of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical-specific analyses for the identified and suspected pollutant and source of effluent toxicity;

3) Quality Assurance Plan - The TRE action plan should address record keeping and data evaluation, calibration and standardization, baseline tests, system blanks, controls, duplicates, spikes, toxicity persistence in the samples, randomization, reference toxicant control charts, and mechanisms to detect artifactual toxicity; and

4) Project Organization - The TRE action plan should describe the project staff, manager, consulting engineering services (where applicable), consulting analytical and toxicological services, etc.

c. Within 30 days of submittal of the TRE action plan and schedule, the permittee shall implement the TRE.

d. The permittee shall submit quarterly TRE activities reports concerning the progress of the TRE. The quarterly TRE activities reports are due on or before April 20th, July 20th, October 20th, and January 20th. The report shall detail information regarding the TRE activities including:

1) results and interpretation of any chemical-specific analyses for the identified and suspected pollutant performed during the quarter;

2) results and interpretation of any characterization, identification, and confirmation tests performed during the quarter;

3) any data and substantiating documentation that identifies the pollutant and source of effluent toxicity;

4) results of any studies/evaluations concerning the treatability of the facility's effluent toxicity;

5) any data that identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to eliminate significant lethality; and

6) any changes to the initial TRE plan and schedule that are believed necessary as a result of the TRE findings.

e. During the TRE, the permittee shall perform, at a minimum, quarterly testing using the more sensitive species. Testing for the less sensitive species shall continue at the frequency specified in Part 1.b.

f. If the effluent ceases to effect significant lethality, i.e., there is a cessation of lethality, the permittee may end the TRE. A cessation of lethality is defined as no significant lethality for a period of 12 consecutive weeks with at least weekly testing. At the end of the 12 weeks, the permittee shall submit a statement of intent to cease the TRE and may then resume the testing frequency specified in Part 1.b.

This provision accommodates situations where operational errors and upsets, spills, or sampling errors triggered the TRE, in contrast to a situation where a single toxicant or group of toxicants cause lethality. This provision does not apply as a result of corrective actions taken by the permittee. Corrective actions are defined as proactive efforts that eliminate or reduce effluent toxicity. These include, but are not limited to, source reduction or elimination, improved housekeeping, changes in chemical usage, and modifications of influent streams and effluent treatment.

The permittee may only apply this cessation of lethality provision once. If the effluent again demonstrates significant lethality to the same species, the permit will be amended to add a WET limit with a compliance period, if appropriate. However, prior to the effective date of the WET limit, the permittee may apply for a permit amendment removing and replacing the WET limit with an alternate toxicity control measure by identifying and confirming the toxicant and an appropriate control measure.

g. The permittee shall complete the TRE and submit a final report on the TRE activities no later than 18 months from the last test day of the retest that demonstrates significant lethality. The permittee may petition the Executive Director (in writing) for an extension of the 18-month limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE. The report shall specify the control mechanism that will, when implemented, reduce effluent toxicity as specified in item 5.h. The report will also specify a corrective action schedule for implementing the selected control mechanism.

h. Within 3 years of the last day of the test confirming toxicity, the permittee shall comply with 30 TAC § 307.6(e)(2)(B), which requires greater than 50% survival

of the test organism in 100% effluent at the end of 24-hours. The permittee may petition the Executive Director (in writing) for an extension of the 3-year limit. However, to warrant an extension the permittee must have demonstrated due diligence in its pursuit of the toxicity identification evaluation/TRE and must prove that circumstances beyond its control stalled the toxicity identification evaluation/TRE.

The permittee may be exempted from complying with 30 TAC § 307.6(e)(2)(B) upon proving that toxicity is caused by an excess, imbalance, or deficiency of dissolved salts. This exemption excludes instances where individually toxic components (e.g., metals) form a salt compound. Following the exemption, this permit may be amended to include an ion-adjustment protocol, alternate species testing, or single species testing.

i. Based upon the results of the TRE and proposed corrective actions, this permit may be amended to modify the biomonitoring requirements where necessary, require a compliance schedule for implementation of corrective actions, specify a WET limit, specify a best management practice, and specify a chemical-specific limit.

j. Copies of any and all required TRE plans and reports shall also be submitted to the U.S. EPA Region 6 office, 6WQ-PO.

TABLE 2 (SHEET 1 OF 2)

WATER FLEA SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN*						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

TABLE 2 (SHEET 2 OF 2)

FATHEAD MINNOW SURVIVAL

GENERAL INFORMATION

	Time	Date
Composite Sample Collected		
Test Initiated		

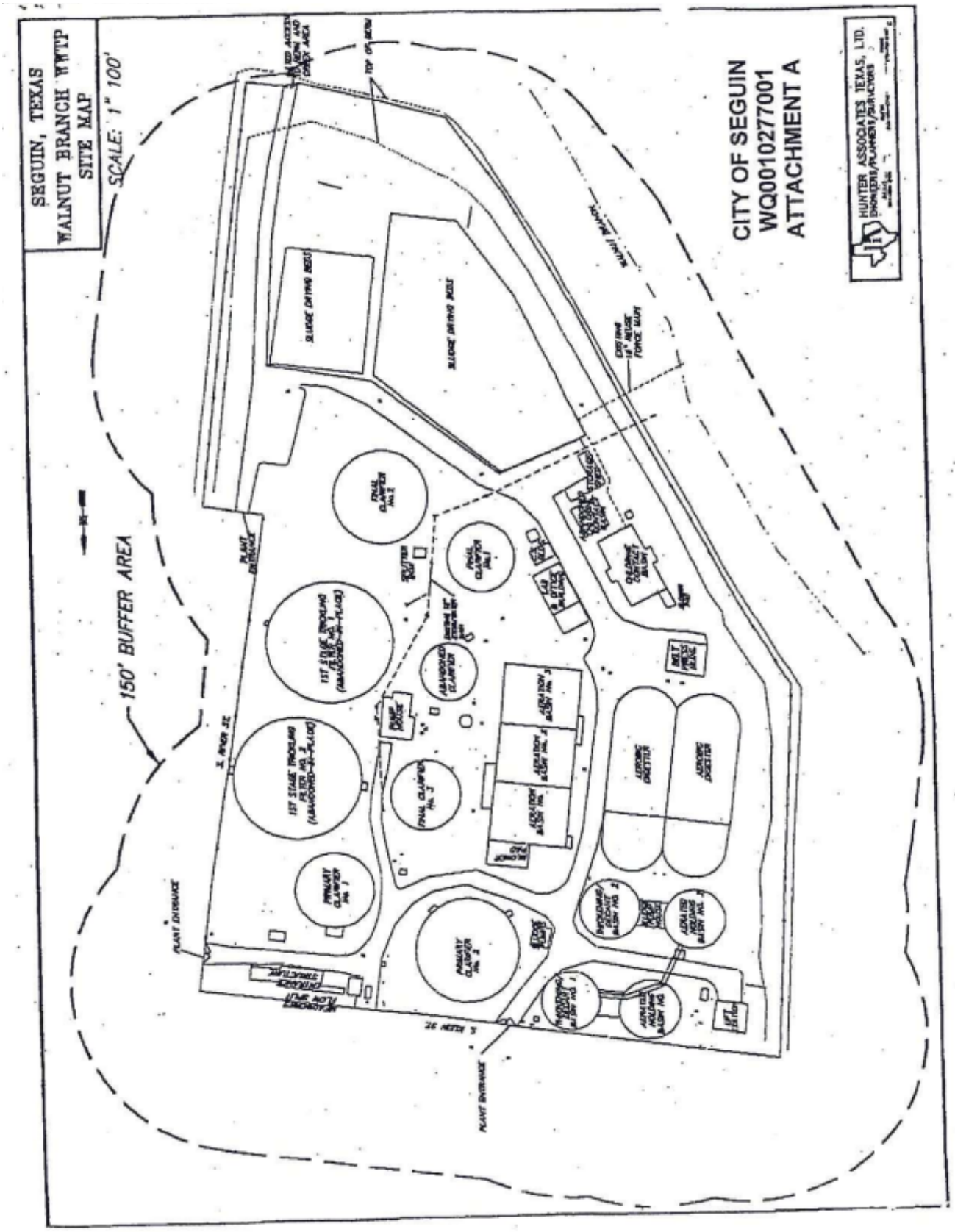
PERCENT SURVIVAL

Time	Rep	Percent effluent					
		0%	6%	13%	25%	50%	100%
24h	A						
	B						
	C						
	D						
	E						
	MEAN						

Enter percent effluent corresponding to the LC50 below:

24 hour LC50 = _____% effluent

ATTACHMENT A – Buffer Zone Map
TPDES Permit No. WQ0010277001
City of Seguin



FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0010277001, EPA I.D. No. TX0022365, to discharge to water in the state.

Issuing Office:	Texas Commission on Environmental Quality P.O. Box 13087 Austin, Texas 78711-3087
Applicant:	City of Seguin 205 North River Street Seguin, Texas 78155
Prepared By:	Shaun M. Speck Municipal Permits Team Wastewater Permitting Section (MC 148) Water Quality Division (512) 239-4549
Date:	February 14, 2025
Permit Action:	Renewal with Pretreatment Program Substantial Modification

1. EXECUTIVE DIRECTOR RECOMMENDATION

The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit includes an expiration date of **five years from the date of issuance**.

The Executive Director has also made a preliminary decision that the requested substantial modification to the approved pretreatment program, if approved, meets all statutory and regulatory requirements.

2. APPLICANT ACTIVITY

The applicant has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of the existing permit that authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 4.9 million gallons per day (MGD). The existing wastewater treatment facility (WWTF) serves the City of Seguin.

The applicant has also applied to the TCEQ for approval of a substantial modification to its pretreatment program under the TPDES program.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 101 East Klein Street, in the City of Seguin, Guadalupe County, Texas 78155.

Outfall Location:

Outfall Number	Latitude	Longitude

001	29.559251 N	97.960839 W

The treated effluent is discharged directly to the Guadalupe River below Comal River in Segment No. 1804 of the Guadalupe River Basin. The designated uses for Segment No. 1804 are primary contact recreation, public water supply, aquifer protection, and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Walnut Branch WWTF is an activated sludge process plant operated in the complete mix mode. Treatment units include two bar screens, a flow splitter, two primary clarifiers, a junction box, three aeration basins, two flow splitters, three final clarifiers, an aerobic sludge digester, sludge drying beds, a belt filter press, a chlorine mix box, three chlorine contact basins, and a dechlorination box. The facility is in operation.

Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Mesquite Creek Landfill, MSW Permit No. 66C, in Comal County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

5. INDUSTRIAL WASTE CONTRIBUTION

The Walnut Creek Branch WWTP receives significant industrial wastewater contributions.

6. SUMMARY OF SELF-REPORTED EFFLUENT ANALYSES

The following is a summary of the applicant's effluent monitoring data for the period August 2022 through August 2024. The average of Daily Average value is computed by the averaging of all 30-day average values for the reporting period for each parameter: flow, five-day carbonaceous biochemical oxygen demand ($CBOD_5$), total suspended solids (TSS), ammonia nitrogen (NH_3-N). The average of Daily Average value for *Escherichia coli* (*E. coli*) in colony-forming units (CFU) or most probable number (MPN) per 100 ml is calculated via geometric mean.

Parameter	Average of Daily Avg
Flow, MGD	2.5
$CBOD_5$, mg/l	2.1
TSS, mg/l	5.8
NH_3-N, mg/l	0.15
E. coli, CFU or MPN per 100 ml	9

7. DRAFT PERMIT CONDITIONS AND MONITORING REQUIREMENTS

The effluent limitations and monitoring requirements for those parameters that are limited in the draft permit are as follows:

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 4.9 MGD, nor shall the

average discharge during any two-hour period (2-hour peak) exceed 8,333 gallons per minute (gpm).

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	409	15	25
TSS	15	613	25	40
NH_3-N	3	123	6	10
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN per 100 ml	126	N/A	N/A	399

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per week by grab sample. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of visible oil.

The effluent shall contain a total chlorine residual of at least 1.0 mg/l after a detention time of at least 20 minutes (based on peak flow) and shall be monitored daily by grab sample at each chlorine contact chamber. The permittee shall dechlorinate the chlorinated effluent to less than 0.1 mg/l total chlorine residual and shall monitor total chlorine residual daily by grab sample after the dechlorination process. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	Two/week
TSS	Two/week
NH_3-N	Two/week
DO	Two/week
E. coli	One/week

B. SEWAGE SLUDGE REQUIREMENTS

The draft permit includes Sludge Provisions according to the requirements of 30 TAC Chapter 312, Sludge Use, Disposal, and Transportation. Sludge generated from the treatment facility is hauled by a registered transporter and disposed of at a TCEQ-permitted landfill, Mesquite Creek Landfill, MSW Permit No. 66C, in Comal County. The draft permit also authorizes the disposal of sludge at a TCEQ-authorized land application site, co-disposal landfill, wastewater treatment facility, or facility that further processes sludge.

C. PRETREATMENT REQUIREMENTS

Permit requirements for pretreatment are based on TPDES regulations contained in 30 TAC Chapter 305, which references 40 Code of Federal Regulations (CFR) Part 403, "General Pretreatment Regulations for Existing and New Sources of Pollution" *[rev. Federal Register/ Vol. 70/ No. 198/ Friday, October 14, 2005/ Rules and Regulations, pages 60134-60798].* The permit includes specific

requirements that establish responsibilities of local government, industry, and the public to implement the standards to control pollutants which pass through or interfere with treatment processes in publicly owned treatment works or which may contaminate the sewage sludge. This permit has appropriate pretreatment language for a facility of this size and complexity.

The permittee has a pretreatment program which was approved by the U.S. EPA on May 21, 2002, and modified on April 29, 2010, March 28, 2011, (nonsubstantial Streamlining), and on the date of issuance of this permit action (TBLLs). The permittee is required, under the conditions of the approved pretreatment program, to prepare annually a list of industrial users which during the preceding twelve months were in significant noncompliance with applicable pretreatment requirements for those facilities covered under the program. This list is to be published annually during the month of May in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

Effective December 21, 2025, the permittee must submit the pretreatment program annual status report electronically using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver. [rev. Federal Register/ Vol. 80/ No. 204/ Friday, October 22, 2015/ Rules and Regulations, pages 64064-64158].

The permittee is under a continuing duty to: establish and enforce specific local limits to implement the provisions of 40 CFR § 403.5, to develop and enforce local limits as necessary, and to modify the approved POTW pretreatment program as necessary to comply with federal, state, and local law, as amended. The permittee is required to effectively enforce such limits and to modify their pretreatment program, including the Legal Authority, Enforcement Response Plan, and/or Standard Operating Procedures, if required by the Executive Director to reflect changing conditions at the POTW.

This permittee has submitted a substantial modification package revising the existing technically based local limits (TBLLs), the Legal Authority, which incorporates such revisions, and any additional modifications to the pretreatment program including an Enforcement Response Plan and Standard Operating Procedures (including forms). This substantial modification documentation submitted by the permittee has been reviewed by the TCEQ staff and determined to be technically complete on March 4, 2016. This permit action incorporates the pretreatment program substantial modification request by the permittee on DATE. This substantial modification meets all of the requirements of 40 CFR §§ 403.8(f) and 403.9(b) and the permittee's existing TPDES permit.

Substantial modifications will be approved in accordance with 40 CFR § 403.18, and the modification will become effective upon approval by the Executive Director in accordance with 40 CFR § 403.18.

D. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes 48-hour acute freshwater biomonitoring requirements as follows. The permit requires five dilutions in addition to

the control (0% effluent) to be used in the toxicity tests. These additional effluent concentrations shall be 15%, 20%, 27%, 36%, and 48%. The low-flow effluent concentration (critical dilution) is defined as 36% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Acute static renewal 48-hour definitive toxicity tests using the water flea (*Daphnia pulex*) or (*Ceriodaphnia dubia*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(b) Acute static renewal 48-hour definitive toxicity test using the fathead minnow (*Pimephales promelas*). The frequency of the testing is once per quarter for at least the first year of testing, after which the permittee may apply for a testing frequency reduction.

(2) The draft permit includes the following minimum 24-hour acute freshwater biomonitoring requirements at a frequency of once per six months.

(a) Acute 24-hour static toxicity test using the water flea (*Daphnia pulex* or *Ceriodaphnia dubia*).

(b) Acute 24-hour static toxicity test using the fathead minnow (*Pimephales promelas*).

E. SUMMARY OF CHANGES FROM APPLICATION

None.

F. SUMMARY OF CHANGES FROM EXISTING PERMIT

The applicant has requested that a pretreatment program substantial modification be processed in conjunction with this permit action. The date that the pretreatment program substantial modification is approved will be incorporated into the issued permit. The Contributing Industries and Pretreatment Requirements section of the draft permit has been updated, and the pretreatment program requirements will continue until permit expiration. Please see specific details in the Pretreatment Requirements Section of the fact sheet.

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

The Standard Permit Conditions, Sludge Provisions, Other Requirements, and Biomonitoring sections of the draft permit have been updated. Pretreatment requirements in the existing permit have been revised in the draft permit.

For Publicly Owned Treatment Works (POTWs), effective December 21, 2025, the permittee must submit the written report for unauthorized discharges and

unanticipated bypasses that exceed any effluent limit in the permit using the online electronic reporting system available through the TCEQ website unless the permittee requests and obtains an electronic reporting waiver.

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

The applicant has requested that a pretreatment program substantial modification be processed in conjunction with this permit and approved with the issuance of this TPDES permit. The following treatment work facilities will be subject to the requirements of the pretreatment program: TPDES Permit Nos. WQ0010277001 and WQ0010277003. The Contributing Industries and Pretreatment Requirement section of the draft permit has been updated, and the pretreatment program requirements will continue until permit expiration. Please see specific details in the Pretreatment Requirements Section of the fact sheet.

8. DRAFT PERMIT RATIONALE

A. TECHNOLOGY-BASED EFFLUENT LIMITATIONS/CONDITIONS

Regulations promulgated in Title 40 of the CFR require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines.

Effluent limitations for maximum and minimum pH are in accordance with 40 CFR § 133.102(c) and 30 TAC § 309.1(b).

Texas Surface Water Quality Standards (TSWQS) at 30 TAC Chapter 307 allow for consideration of the mixing of effluent and receiving water when evaluating discharge compliance with water quality criteria for pH. The discharge authorized by this permit shall meet the TSWQS pH criterion for Segment No. 1804 of 6.5 to 9.0 standard units at the edge of the chronic mixing zone.

A mixing zone evaluation for pH is included within Attachment 1 of this Fact Sheet. The evaluation has demonstrated that the technology-based pH limitations of 6.0 to 9.0 standard units will ensure compliance with the TSWQS pH criterion at the edge of the chronic mixing zone. See Attachment A of this Fact Sheet.

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is discharged directly to the Guadalupe River below Comal River in Segment No. 1804 of the Guadalupe River Basin. The designated uses for Segment No. 1804 are primary contact recreation, public water supply, aquifer protection, and high aquatic life use. The effluent limitations in the draft permit will maintain and protect the

existing instream uses. All determinations are preliminary and subject to additional review and/or revisions.

The discharge from this permit action is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998, update). To make this determination for TPDES permits, TCEQ and EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1804 is not currently listed on the state's inventory of impaired and threatened waters (the 2022 CWA § 303(d) list).

The pollutant analysis of treated effluent provided by the permittee in the application indicated 702 mg/l total dissolved solids (TDS), 80.6 mg/l sulfate, and 176 mg/l chloride present in the effluent. The segment criteria for Segment No. 1804 are 400 mg/l for TDS, 50 mg/l for sulfate, and 100 mg/l for chlorides. Based on dissolved solids screening, no additional limits or monitoring requirements are needed for total dissolved solids, chloride, or sulfate See Attachment B of this Fact Sheet.

The effluent limitations and conditions in the draft permit comply with EPA-approved portions of the 2018 Texas Surface Water Quality Standards (TSWQS), 30 TAC §§ 307.1 - 307.10, effective March 1, 2018; 2014 TSWQS, effective March 6, 2014; 2010 TSWQS, effective July 22, 2010; and 2000 TSWQS, effective July 26, 2000.

(2) CONVENTIONAL PARAMETERS

Effluent limitations for the conventional effluent parameters (i.e., Five-Day Biochemical Oxygen Demand or Five-Day Carbonaceous Biochemical Oxygen Demand, Ammonia Nitrogen, etc.) are based on stream standards and waste load allocations for water quality-limited streams as established in the TSWQS and the State of Texas Water Quality Management Plan (WQMP).

The effluent limitations in the draft permit have been reviewed for consistency with the WQMP. The proposed effluent limitations are consistent with the approved WQMP.

The effluent limitations in the draft permit meet the requirements for secondary treatment and the requirements for disinfection according to 30 TAC Chapter 309, Subchapter A: Effluent Limitations.

(3) COASTAL MANAGEMENT PLAN

The facility is not located in the Coastal Management Program boundary.

C. WATER QUALITY-BASED EFFLUENT LIMITATIONS/CONDITIONS

(1) GENERAL COMMENTS

The Texas Surface Water Quality Standards (30 TAC Chapter 307) state that surface waters will not be toxic to man, or to terrestrial or aquatic life. The methodology outlined in the "Procedures to Implement the Texas Surface Water Quality Standards, June 2010" is designed to ensure compliance with 30 TAC Chapter 307. Specifically, the methodology is designed to ensure that no source will be allowed to discharge any wastewater that: (1) results in instream aquatic toxicity; (2) causes a violation of an applicable narrative or numerical state water quality standard; (3) results in the endangerment of a drinking water supply; or (4) results in aquatic bioaccumulation that threatens human health.

(2) AQUATIC LIFE CRITERIA

(a) SCREENING

Water quality-based effluent limitations are calculated from freshwater aquatic life criteria found in Table 1 of the Texas Surface Water Quality Standards (30 TAC Chapter 307).

Acute freshwater criteria are applied at the edge of the zone of initial dilution (ZID), and chronic freshwater criteria are applied at the edge of the aquatic life mixing zone. The ZID for this discharge is defined as 20 feet upstream and 60 feet downstream from the point where the discharge enters the Guadalupe River. The aquatic life mixing zone for this discharge is defined as 100 feet upstream and 300 feet downstream from the point where the discharge enters the Guadalupe River.

TCEQ uses the mass balance equation to estimate dilutions at the edges of the ZID and aquatic life mixing zone during critical conditions. The estimated dilution at the edge of the aquatic life mixing zone is calculated using the permitted flow of 4.9 MGD and the 7-day, 2-year (7Q2) flow of 204.15 cfs for the Guadalupe River. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 4.9 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %: 12.93% Chronic Effluent %: 3.58%

Waste load allocations (WLAs) are calculated using the above estimated effluent percentages, criteria outlined in the Texas Surface Water Quality Standards, and partitioning coefficients for metals (when appropriate and designated in the implementation procedures). The WLA is the end-of-pipe effluent concentration that can be discharged when, after mixing in the receiving stream, instream numerical criteria will not be exceeded.

From the WLA, a long-term average (LTA) is calculated using a log normal probability distribution, a given coefficient of variation (0.6), and a 90th percentile confidence level. The LTA is the long-term average effluent concentration for which the WLA will never be exceeded using a selected percentile confidence level. The lower of the two LTAs (acute and chronic) is used to calculate a daily average and daily maximum effluent limitation for the protection of aquatic life using the same statistical considerations with the 99th percentile confidence level and a standard number of monthly effluent samples collected (12). Assumptions used in deriving the effluent limitations include segment values for hardness, chlorides, pH, and total suspended solids (TSS) according to the segment-specific values contained in the TCEQ guidance document "*Procedures to Implement the Texas Surface Water Quality Standards*, June 2010." The segment values are 216 mg/l for hardness (as calcium carbonate), 19 mg/l chlorides, 7.7 standard units for pH, and 4.7 mg/l for TSS. For additional details on the calculation of water quality-based effluent limitations, refer to the TCEQ guidance document.

TCEQ practice for determining significant potential is to compare the reported analytical data against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85% of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70% of the calculated daily average water quality-based effluent limitation. See Attachment C of this Fact Sheet.

(b) PERMIT ACTION

Analytical data reported in the application was screened against calculated water quality-based effluent limitations for the protection of aquatic life. Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitations for aquatic life protection.

(3) AQUATIC ORGANISM BIOACCUMULATION CRITERIA

(a) SCREENING

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue and drinking water found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation and drinking water criteria are applied at the edge of the human health mixing zone. The human health mixing zone for this discharge is identical to the aquatic life mixing zone. TCEQ uses the mass balance equation to estimate dilution at the edge of the human health mixing zone during average flow conditions. The estimated dilution at the edge of the human health mixing zone is calculated using the permitted flow of 4.9 MGD and the harmonic mean flow of 311.57 cfs for the Guadalupe River. The following critical effluent percentage is being used:

Human Health Effluent %: 2.38%

Water quality-based effluent limitations for human health protection against the consumption of fish tissue are calculated using the same procedure as outlined for calculation of water quality-based effluent limitations for aquatic life protection. A 99th percentile confidence level in the long-term average calculation is used with only one long-term average value being calculated.

Significant potential is again determined by comparing reported analytical data against 70% and 85% of the calculated daily average water quality-based effluent limitation. See Attachment C of this Fact Sheet.

(b) PERMIT ACTION

Reported analytical data does not exceed 70% of the calculated daily average water quality-based effluent limitation for human health protection.

(4) DRINKING WATER SUPPLY PROTECTION

(a) SCREENING

Water Quality Segment No. 1804, which receives the discharge from this facility, is designated as a public water supply. The screening procedure used to calculate water quality-based effluent limitations and determine the need for effluent limitations or monitoring requirements is identical to the procedure outlined in the aquatic organism bioaccumulation section of this fact sheet. Criteria used in the calculation of water quality-based effluent limitations for the protection of a drinking water supply are outlined in Table 2 (Water and Fish) of the Texas Surface Water Quality Standards (30 TAC Chapter 307). These criteria are developed from either drinking water maximum contaminant level (MCL) criteria outlined in 30 TAC Chapter 290 or from the combined human health effects of exposure to consumption of fish tissue and ingestion of drinking water.

(b) PERMIT ACTION

Criteria in the "Water and Fish" section of Table 2 do not distinguish if the criteria is based on a drinking water standard or the combined effects of ingestion of drinking water and fish tissue. Effluent limitations or monitoring requirements to protect the drinking water supply (and other human health effects) were previously calculated and outlined in the aquatic organism bioaccumulation criteria section of this fact sheet.

(5) WHOLE EFFLUENT TOXICITY (BIOMONITORING) CRITERIA

(a) SCREENING

TCEQ has determined that there may be pollutants present in the effluent

that may have the potential to cause toxic conditions in the receiving stream. Whole effluent biomonitoring is the most direct measure of potential toxicity that incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity.

The existing permit includes 48-hour acute freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee performed twenty-four 48-hour acute tests, with zero demonstrations of significant toxicity (i.e., zero failures).

A reasonable potential (RP) determination was performed in accordance with 40 CFR § 122.44(d)(1)(ii) to determine whether the discharge will reasonably be expected to cause or contribute to an exceedance of a state water quality standard or criterion within that standard. Each test species is evaluated separately. The RP determination is based on representative data from the previous three years of chronic WET testing. This determination was performed in accordance with the methodology outlined in the TCEQ letter to the EPA dated December 28, 2015, and approved by the EPA in a letter dated December 28, 2015. With zero failures, a determination of no RP was made. WET limits are not required and both test species may be eligible for the frequency reduction after one year of quarterly testing.

(b) PERMIT ACTION

The test species are appropriate to measure the toxicity of the effluent consistent with the requirements of the State water quality standards. The biomonitoring frequency has been established to reflect the likelihood of ambient toxicity and to provide data representative of the toxic potential of the facility's discharge. This permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body.

(6) WHOLE EFFLUENT TOXICITY CRITERIA (24-HOUR ACUTE)

(a) SCREENING

The existing permit includes 24-hour acute freshwater biomonitoring language. A summary of the biomonitoring testing for the facility indicates that in the past three years, the permittee has performed twelve 24-hour acute tests, with zero demonstrations of significant mortality (i.e., zero failures).

(b) PERMIT ACTION

The draft permit includes 24-hour 100% acute biomonitoring tests for the

life of the permit.

9. WATER QUALITY VARIANCE REQUESTS

No variance requests have been received.

10. PROCEDURES FOR FINAL DECISION

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

Once a draft permit is completed, it is sent, along with the Executive Director's preliminary decision, as contained in the technical summary or fact sheet, to the Chief Clerk. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the Executive Director's preliminary decision, draft permit, and approved pretreatment program substantial modification in the public place with the application.

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

After the public comment deadline, the Executive Director prepares a response to all significant public comments on the application, draft permit, or pretreatment program substantial modification raised during the public comment period. The Chief Clerk then mails the Executive Director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the Executive Director's response and decision, they can request a contested case hearing or file a request to reconsider the Executive Director's decision within 30 days after the notice is mailed. There is no opportunity to request a contested case hearing on the application for substantial modification of the pretreatment program.

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

If the Executive Director calls a public meeting or the Commission grants a contested

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

For additional information about this application, contact Shaun M. Speck at (512) 239-4549.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0010277001 issued on March 11, 2020.

B. APPLICATION

Application received on August 29, 2024 and additonal information received on September 18, 2024.

A Pretreatment Program substantial modification formal request by the permittee was submitted on February 19, 2025, to revise the applicant's technically based local limits (TBLLs) and ordinance which incorporates such revisions.

C. MEMORANDA

Interoffice Memoranda from the Water Quality Assessment Section of the TCEQ Water Quality Division. Interoffice Memorandum from the Pretreatment Team of the TCEQ Water Quality Division.

D. MISCELLANEOUS

Federal Clean Water Act § 402; Texas Water Code § 26.027; 30 TAC Chapters 30, 305, 309, 312, and 319; Commission policies; and U.S. Environmental Protection Agency guidelines.

Texas Surface Water Quality Standards, 30 TAC §§ 307.1 - 307.10.

Procedures to Implement the Texas Surface Water Quality Standards (IP), Texas Commission on Environmental Quality, June 2010, as approved by the U.S. Environmental Protection Agency, and the IP, January 2003, for portions of the 2010 IP not approved by the U.S. Environmental Protection Agency.

Texas 2022 Clean Water Act Section 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the U.S. Environmental Protection Agency on July 7, 2022.

Texas Natural Resource Conservation Commission, Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits, Document No. 98-001.000-OWR-WQ, May 1998.

Attachment A: pH Screening

Calculation of pH of a mixture of two flows. Based on the procedure in EPA's DESCON program (EPA, 1988. Technical Guidance on Supplementary Stream Design Conditions for Steady State Modeling. USEPA Office of Water, Washington D.C.)

City of Seguin

10277-001

Seg. 1804

INPUT				Source Data:
1. DILUTION FACTOR AT MIXING ZONE BOUNDARY	25.54		25.54	effluent % at edge of chronic mixing zone: **3.92** MGD in cfs: **7.58** 7Q2 flow (2019 CC memo): **186**
RECEIVING WATER CHARACTERISTICS				
2. Temperature (deg C):	20.00		29.00	Various temperatures tested, with no change to pH
3. pH:	7.700		7.700	Seg 1804 pH (IPs): **7.7**
4. Alkalinity (mg CaCO3/L):	75.00		100	Various alkalinities used, with minimal change in pH
EFFLUENT CHARACTERISTICS				
5. Temperature (deg C):	30.0		33.0	Various temperatures tested, with no change to pH
6. pH:	6.00		9.00	
7. Alkalinity (mg CaCO3/L):	20.0	*	200.0	Various alkalinities used, with minimal change in pH

OUTPUT

1. IONIZATION CONSTANTS					
Upstream/Background pKa:	6.38	6.33			
Effluent pKa:	6.32	6.31			
2. IONIZATION FRACTIONS					
Upstream/Background Ionization Fraction:	0.95	0.96			
Effluent Ionization Fraction:	0.32	1.00			
3. TOTAL INORGANIC CARBON					
Upstream/Background Total Inorganic Carbon (mg CaCO3/L):	78.61	104.25			
Effluent Total Inorganic Carbon (mg CaCO3/L):	62.17	200.41			
4. CONDITIONS AT MIXING ZONE BOUNDARY					
Temperature (deg C):	20.39	29.16			
Alkalinity (mg CaCO3/L):	72.85	103.92			
Total Inorganic Carbon (mg CaCO3/L):	77.96	108.02			
pKa:	6.38	6.33			
pH at Mixing Zone Boundary:	**7.53**	**7.73**	Segment 1804 pH criteria:	**6.5 to 9.0**	**Screening passed**

* Assume minimal total alkalinity at low effluent pH based on carbonate equilibrium chemistry of natural and treated waters

Attachment B: Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Screening Calculations for Total Dissolved Solids, Chloride, and Sulfate

Menu 3 - Discharge to a Perennial Stream or River

Applicant Name:	**City of Seguin**
Permit Number, Outfall:	**10277-001**
Segment Number:	**1804- Guadalupe River Below Comal River**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**4.9**	MGD	Permitted flow
QS - Perennial stream harmonic mean flow	**330.00**	cfs	Critical cond memo (2019)
QE - Average effluent flow	**7.5814**	cfs	Calculated
CA - TDS - ambient segment concentration	**297**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**18**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**24**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**400**	mg/L	2010 TSWQS, Appendix A
CC - chloride - segment criterion	**100**	mg/L	2010 TSWQS, Appendix A
CC - sulfate - segment criterion	**50**	mg/L	2010 TSWQS, Appendix A
CE - TDS - average effluent concentration	**702**	mg/L	Permit application
CE - chloride - average effluent concentration	**176**	mg/L	Permit application
CE - sulfate - average effluent concentration	**80.6**	mg/L	Permit application

Screening Equation

$$CC \geq [(QS)(CA) + (QE)(CE)]/[QE + QS]$$

Permit Limit Calculations

TDS

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	4883.32
Calculate the LTA	LTA = WLA * 0.93	4541.49
Calculate the daily average	Daily Avg. = LTA * 1.47	**6675.99**
		14124.0
Calculate the daily maximum	Daily Max. = LTA * 3.11	**4**
Calculate 70% of the daily average	70% of Daily Avg. =	4673.20
Calculate 85% of the daily average	85% of Daily Avg. =	5674.59

No permit limitations needed if:	**702**	**≤**	**4673.20**		
Reporting needed if:	**702**	**>**	**4673.20**	**but ≤**	**5674.59**
Permit limits may be needed if:	**702**	**>**	**5674.59**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	3669.25
Calculate the LTA	LTA = WLA * 0.93	3412.40
Calculate the daily average	Daily Avg. = LTA * 1.47	**5016.23**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**10612.57**
Calculate 70% of the daily average	70% of Daily Avg. =	3511.36
Calculate 85% of the daily average	85% of Daily Avg. =	4263.80

No permit limitations needed if:	**176**	**≤**	**3511.36**		
Reporting needed if:	**176**	**>**	**3511.36**	**but ≤**	**4263.80**
Permit limits may be needed if:	**176**	**>**	**4263.80**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE	1181.71
Calculate the LTA	LTA = WLA * 0.93	1098.99
Calculate the daily average	Daily Avg. = LTA * 1.47	**1615.52**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**3417.87**
Calculate 70% of the daily average	70% of Daily Avg. =	1130.86
Calculate 85% of the daily average	85% of Daily Avg. =	1373.19

No permit limitations needed if:	**80.6**	**≤**	**1130.86**		
Reporting needed if:	**80.6**	**>**	**1130.86**	**but ≤**	**1373.19**
Permit limits may be needed if:	**80.6**	**>**	**1373.19**		

No permit limitations needed for sulfate

Attachment C: Calculated Water Quality Based Effluent Limitations

TEXTOX MENU #3 - PERENNIAL STREAM OR RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	City of Seguin
TPDES Permit No.:	10277001
Outfall No.:	001
Prepared by:	Shaun Speck
Date:	02/13/2025

DISCHARGE INFORMATION

Receiving Waterbody:	Guadalupe River
Segment No.:	1804
TSS (mg/L):	4.7
pH (Standard Units):	7.7
Hardness (mg/L as $CaCO_3$):	216
Chloride (mg/L):	19
Effluent Flow for Aquatic Life (MGD):	4.9
Critical Low Flow [7Q2] (cfs):	204.15
% Effluent for Chronic Aquatic Life (Mixing Zone):	3.58
% Effluent for Acute Aquatic Life (ZID):	12.93
Effluent Flow for Human Health (MGD):	4.9
Harmonic Mean Flow (cfs):	311.57
% Effluent for Human Health:	2.38
Human Health Criterion (select: PWS, FISH, or INC)	**PWS**

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	*Intercept (b)*	*Slope (m)*	*Partition Coefficient (Kp)*	*Dissolved Fraction (Cd/Ct)*	*Source*	*Water Effect Ratio (WER)*	*Source*
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	154656.64	0.579		1.00	Assumed
Cadmium	6.60	-1.13	692674.85	0.235		1.00	Assumed
Chromium (total)	6.52	-0.93	785143.41	0.213		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	785143.41	0.213		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	333155.96	0.390		1.00	Assumed
Lead	6.45	-0.80	817187.50	0.207		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	202723.56	0.512		1.00	Assumed

Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	487235.82	0.304		1.00	Assumed
Zinc	6.10	-0.70	426119.59	0.333		1.00	Assumed

AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*FW Acute Criterion (µg/L)*	*FW Chronic Criterion (µg/L)*	*WLAa (µg/L)*	*WLAc (µg/L)*	*LTAa (µg/L)*	*LTAc (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Aldrin	3.0	N/A	23.2	N/A	13.3	N/A	19.5	41.3
Aluminum	991	N/A	7662	N/A	4391	N/A	6454	13654
Arsenic	340	150	4540	7234	2601	5570	3823	8089
Cadmium	18.1	0.420	597	49.9	342	38.4	56.4	119
Carbaryl	2.0	N/A	15.5	N/A	8.86	N/A	13.0	27.5
Chlordane	2.4	0.004	18.6	0.112	10.6	0.0860	0.126	0.267
Chlorpyrifos	0.083	0.041	0.642	1.15	0.368	0.882	0.540	1.14
Chromium (trivalent)	1071	139	38823	18241	22246	14046	20646	43681
Chromium (hexavalent)	15.7	10.6	121	296	69.6	228	102	216
Copper	29.3	18.3	582	1310	334	1009	490	1037
Cyanide (free)	45.8	10.7	354	299	203	230	298	631
4,4'-DDT	1.1	0.001	8.51	0.0279	4.87	0.0215	0.0316	0.0668
Demeton	N/A	0.1	N/A	2.79	N/A	2.15	3.16	6.68
Diazinon	0.17	0.17	1.31	4.75	0.753	3.66	1.10	2.34
Dicofol [Kelthane]	59.3	19.8	459	553	263	426	386	817
Dieldrin	0.24	0.002	1.86	0.0559	1.06	0.0430	0.0632	0.133
Diuron	210	70	1624	1955	930	1505	1367	2893
Endosulfan I (*alpha*)	0.22	0.056	1.70	1.56	0.975	1.20	1.43	3.03
Endosulfan II (*beta*)	0.22	0.056	1.70	1.56	0.975	1.20	1.43	3.03
Endosulfan sulfate	0.22	0.056	1.70	1.56	0.975	1.20	1.43	3.03
Endrin	0.086	0.002	0.665	0.0559	0.381	0.0430	0.0632	0.133
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.279	N/A	0.215	0.316	0.668
Heptachlor	0.52	0.004	4.02	0.112	2.30	0.0860	0.126	0.267
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	8.71	2.23	4.99	1.72	2.52	5.35
Lead	148	5.76	5529	778	3168	599	880	1863
Malathion	N/A	0.01	N/A	0.279	N/A	0.215	0.316	0.668
Mercury	2.4	1.3	18.6	36.3	10.6	28.0	15.6	33.0
Methoxychlor	N/A	0.03	N/A	0.838	N/A	0.645	0.948	2.00
Mirex	N/A	0.001	N/A	0.0279	N/A	0.0215	0.0316	0.0668
Nickel	898	99.8	13563	5441	7772	4190	6158	13030
Nonylphenol	28	6.6	216	184	124	142	182	385
Parathion (ethyl)	0.065	0.013	0.503	0.363	0.288	0.280	0.410	0.869
Pentachlorophenol	17.6	13.5	136	378	78.1	291	114	242
Phenanthrene	30	30	232	838	133	645	195	413
Polychlorinated Biphenyls [PCBs]	2.0	0.014	15.5	0.391	8.86	0.301	0.442	0.936
Selenium	20	5	155	140	88.6	108	130	275
Silver	0.8	N/A	42.6	N/A	24.4	N/A	35.8	75.9
Toxaphene	0.78	0.0002	6.03	0.00559	3.46	0.00430	0.00632	0.0133
Tributyltin [TBT]	0.13	0.024	1.01	0.670	0.576	0.516	0.758	1.60

2,4,5 Trichlorophenol	136	64	1052	1787	603	1376	885	1873
Zinc	225	227	5225	19025	2994	14650	4400	9310

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*Incidental Fish Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	1150	42.1	39.1	57.5	121
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.000482	0.000449	0.000659	0.00139
Anthracene	1109	1317	13170	46685	43417	63823	135027
Antimony	6	1071	10710	253	235	345	730
Arsenic	10	N/A	N/A	727	676	993	2102
Barium	2000	N/A	N/A	84193	78300	115100	243512
Benzene	5	581	5810	210	196	287	608
Benzidine	0.0015	0.107	1.07	0.0631	0.0587	0.0863	0.182
Benzo(*a*)anthracene	0.024	0.025	0.25	1.01	0.940	1.38	2.92
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.105	0.0979	0.143	0.304
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.101	0.0940	0.138	0.292
Bis(2-chloroethyl)ether	0.60	42.83	428.3	25.3	23.5	34.5	73.0
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	253	235	345	730
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	429	399	587	1241
Bromoform [Tribromomethane]	66.9	1060	10600	2816	2619	3850	8145
Cadmium	5	N/A	N/A	896	833	1224	2590
Carbon Tetrachloride	4.5	46	460	189	176	258	547
Chlordane	0.0025	0.0025	0.025	0.105	0.0979	0.143	0.304
Chlorobenzene	100	2737	27370	4210	3915	5755	12175
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	316	294	431	913
Chloroform [Trichloromethane]	70	7697	76970	2947	2740	4028	8522
Chromium (hexavalent)	62	502	5020	2610	2427	3568	7548
Chrysene	2.45	2.52	25.2	103	95.9	140	298
Cresols [Methylphenols]	1041	9301	93010	43823	40755	59909	126748
Cyanide (free)	200	N/A	N/A	8419	7830	11510	24351
4,4'-DDD	0.002	0.002	0.02	0.0842	0.0783	0.115	0.243
4,4'-DDE	0.00013	0.00013	0.0013	0.00547	0.00509	0.00748	0.0158
4,4'-DDT	0.0004	0.0004	0.004	0.0168	0.0157	0.0230	0.0487
2,4'-D	70	N/A	N/A	2947	2740	4028	8522
Danitol [Fenpropathrin]	262	473	4730	11029	10257	15078	31900
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	7.16	6.66	9.78	20.6
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	13555	12606	18531	39205
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	25258	23490	34530	73053
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	3157	2936	4316	9131
3,3'-Dichlorobenzidine	0.79	2.24	22.4	33.3	30.9	45.4	96.1
1,2-Dichloroethane	5	364	3640	210	196	287	608
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	295	274	402	852
Dichloromethane [Methylene Chloride]	5	13333	133330	210	196	287	608
1,2-Dichloropropane	5	259	2590	210	196	287	608
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	118	110	161	340
Dicofol [Kelthane]	0.30	0.30	3	12.6	11.7	17.2	36.5
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000842	0.000783	0.00115	0.00243

2,4-Dimethylphenol	444	8436	84360	18691	17383	25552	54059
Di-*n*-Butyl Phthalate	88.9	92.4	924	3742	3480	5116	10824
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000033	0.0000031	0.0000045	0.0000095
Endrin	0.02	0.02	0.2	0.842	0.783	1.15	2.43
Epichlorohydrin	53.5	2013	20130	2252	2095	3078	6513
Ethylbenzene	700	1867	18670	29468	27405	40285	85229
Ethylene Glycol	46744	1.68E+07	1.68E+08	1967769	1830025	2690137	5691378
Fluoride	4000	N/A	N/A	168387	156600	230201	487025
Heptachlor	8.0E-05	0.0001	0.001	0.00337	0.00313	0.00460	0.00974
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0122	0.0114	0.0166	0.0353
Hexachlorobenzene	0.00068	0.00068	0.0068	0.0286	0.0266	0.0391	0.0827
Hexachlorobutadiene	0.21	0.22	2.2	8.84	8.22	12.0	25.5
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.328	0.305	0.448	0.949
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	6.31	5.87	8.63	18.2
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	8.42	7.83	11.5	24.3
Hexachlorocyclopentadiene	10.7	11.6	116	450	419	615	1302
Hexachloroethane	1.84	2.33	23.3	77.5	72.0	105	224
Hexachlorophene	2.05	2.90	29	86.3	80.3	117	249
4,4'-Isopropylidenediphenol	1092	15982	159820	45970	42752	62845	132957
Lead	1.15	3.83	38.3	234	218	320	677
Mercury	0.0122	0.0122	0.122	0.514	0.478	0.702	1.48
Methoxychlor	2.92	3.0	30	123	114	168	355
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	583671	542814	797936	1688151
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	631	587	863	1826
Nickel	332	1140	11400	27293	25382	37311	78938
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	420967	391499	575504	1217563
Nitrobenzene	45.7	1873	18730	1924	1789	2630	5564
N-Nitrosodiethylamine	0.0037	2.1	21	0.156	0.145	0.212	0.450
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	5.01	4.66	6.84	14.4
Pentachlorobenzene	0.348	0.355	3.55	14.6	13.6	20.0	42.3
Pentachlorophenol	0.22	0.29	2.9	9.26	8.61	12.6	26.7
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.0269	0.0251	0.0368	0.0779
Pyridine	23	947	9470	968	900	1323	2800
Selenium	50	N/A	N/A	2105	1957	2877	6087
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	9.68	9.00	13.2	28.0
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	69.0	64.2	94.3	199
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	210	196	287	608
Thallium	0.12	0.23	2.3	5.05	4.70	6.90	14.6
Toluene	1000	N/A	N/A	42097	39150	57550	121756
Toxaphene	0.011	0.011	0.11	0.463	0.431	0.633	1.33
2,4,5-TP [Silvex]	50	369	3690	2105	1957	2877	6087
1,1,1-Trichloroethane	200	784354	7843540	8419	7830	11510	24351
1,1,2-Trichloroethane	5	166	1660	210	196	287	608
Trichloroethylene [Trichloroethene]	5	71.9	719	210	196	287	608
2,4,5-Trichlorophenol	1039	1867	18670	43738	40677	59794	126504
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	3368	3132	4604	9740
Vinyl Chloride	0.23	16.5	165	9.68	9.00	13.2	28.0

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

Aquatic Life	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Aldrin	13.6	16.6
Aluminum	4517	5485
Arsenic	2676	3250
Cadmium	39.5	48.0
Carbaryl	9.11	11.0
Chlordane	0.0885	0.107
Chlorpyrifos	0.378	0.459
Chromium (trivalent)	14452	17549
Chromium (hexavalent)	71.5	86.9
Copper	343	416
Cyanide (free)	208	253
4,4'-DDT	0.0221	0.0268
Demeton	2.21	2.68
Diazinon	0.775	0.941
Dicofol [Kelthane]	270	328
Dieldrin	0.0442	0.0537
Diuron	957	1162
Endosulfan I (*alpha*)	1.00	1.21
Endosulfan II (*beta*)	1.00	1.21
Endosulfan sulfate	1.00	1.21
Endrin	0.0442	0.0537
Guthion [Azinphos Methyl]	0.221	0.268
Heptachlor	0.0885	0.107
Hexachlorocyclohexane (*gamma*) [Lindane]	1.77	2.14
Lead	616	748
Malathion	0.221	0.268
Mercury	10.9	13.2
Methoxychlor	0.663	0.806
Mirex	0.0221	0.0268
Nickel	4311	5235
Nonylphenol	127	155
Parathion (ethyl)	0.287	0.349
Pentachlorophenol	80.3	97.5
Phenanthrene	136	166
Polychlorinated Biphenyls [PCBs]	0.309	0.376
Selenium	91.1	110
Silver	25.1	30.5
Toxaphene	0.00442	0.00537
Tributyltin [TBT]	0.531	0.644
2,4,5 Trichlorophenol	620	752
Zinc	3080	3740

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	40.2	48.9
Aldrin	0.000461	0.000560
Anthracene	44676	54249
Antimony	241	293
Arsenic	695	844

Barium	80570	97835
Benzene	201	244
Benzidine	0.0604	0.0733
Benzo(*a*)anthracene	0.966	1.17
Benzo(*a*)pyrene	0.100	0.122
Bis(chloromethyl)ether	0.0966	0.117
Bis(2-chloroethyl)ether	24.1	29.3
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	241	293
Bromodichloromethane [Dichlorobromomethane]	410	498
Bromoform [Tribromomethane]	2695	3272
Cadmium	857	1040
Carbon Tetrachloride	181	220
Chlordane	0.100	0.122
Chlorobenzene	4028	4891
Chlorodibromomethane [Dibromochloromethane]	302	366
Chloroform [Trichloromethane]	2819	3424
Chromium (hexavalent)	2497	3032
Chrysene	98.6	119
Cresols [Methylphenols]	41936	50923
Cyanide (free)	8057	9783
4,4'-DDD	0.0805	0.0978
4,4'-DDE	0.00523	0.00635
4,4'-DDT	0.0161	0.0195
2,4'-D	2819	3424
Danitol [Fenpropathrin]	10554	12816
1,2-Dibromoethane [Ethylene Dibromide]	6.84	8.31
m-Dichlorobenzene [1,3-Dichlorobenzene]	12971	15751
o-Dichlorobenzene [1,2-Dichlorobenzene]	24171	29350
p-Dichlorobenzene [1,4-Dichlorobenzene]	3021	3668
3,3'-Dichlorobenzidine	31.8	38.6
1,2-Dichloroethane	201	244
1,1-Dichloroethylene [1,1-Dichloroethene]	281	342
Dichloromethane [Methylene Chloride]	201	244
1,2-Dichloropropane	201	244
1,3-Dichloropropene [1,3-Dichloropropylene]	112	136
Dicofol [Kelthane]	12.0	14.6
Dieldrin	0.000805	0.000978
2,4-Dimethylphenol	17886	21719
Di-*n*-Butyl Phthalate	3581	4348
Dioxins/Furans [TCDD Equivalents]	0.0000031	0.0000038
Endrin	0.805	0.978
Epichlorohydrin	2155	2617
Ethylbenzene	28199	34242
Ethylene Glycol	1883095	2286616
Fluoride	161141	195671
Heptachlor	0.00322	0.00391
Heptachlor Epoxide	0.0116	0.0141
Hexachlorobenzene	0.0273	0.0332
Hexachlorobutadiene	8.45	10.2
Hexachlorocyclohexane (*alpha*)	0.314	0.381
Hexachlorocyclohexane (*beta*)	6.04	7.33

Hexachlorocyclohexane (*gamma*) [Lindane]	8.05	9.78
Hexachlorocyclopentadiene	431	523
Hexachloroethane	74.1	90.0
Hexachlorophene	82.5	100
4,4'-Isopropylidenediphenol	43991	53418
Lead	224	272
Mercury	0.491	0.596
Methoxychlor	117	142
Methyl Ethyl Ketone	558555	678246
Methyl *tert*-butyl ether [MTBE]	604	733
Nickel	26118	31714
Nitrate-Nitrogen (as Total Nitrogen)	402852	489178
Nitrobenzene	1841	2235
N-Nitrosodiethylamine	0.149	0.180
N-Nitroso-di-*n*-Butylamine	4.79	5.82
Pentachlorobenzene	14.0	17.0
Pentachlorophenol	8.86	10.7
Polychlorinated Biphenyls [PCBs]	0.0257	0.0313
Pyridine	926	1125
Selenium	2014	2445
1,2,4,5-Tetrachlorobenzene	9.26	11.2
1,1,2,2-Tetrachloroethane	66.0	80.2
Tetrachloroethylene [Tetrachloroethylene]	201	244
Thallium	4.83	5.87
Toluene	40285	48917
Toxaphene	0.443	0.538
2,4,5-TP [Silvex]	2014	2445
1,1,1-Trichloroethane	8057	9783
1,1,2-Trichloroethane	201	244
Trichloroethylene [Trichloroethene]	201	244
2,4,5-Trichlorophenol	41856	50825
TTHM [Sum of Total Trihalomethanes]	3222	3913
Vinyl Chloride	9.26	11.2

SEGUIN TEXAS

It's real.

CITY OF SEGUIN
WALNUT BRANCH
WASTEWATER TREATMENT PLANT

TCEQ DOMESTIC WASTEWATER PERMIT APPLICATION

(RENEWAL)

TPDES Permit No. WQ0010277001

August 2024

Prepared by:

TRC Engineers, Inc.
505 E. Huntland Drive, Suite 250
Austin, Texas 78752
512-454-8716

TBPE Firm Registration #F-8632

CITY OF SEGUIN
TCEQ DOMESTIC WASTEWATER PERMIT RENEWAL APPLICATION
WALNUT BRANCH WWTP
TPDES PERMIT NO. WQ0010277001

Table of Contents

APPLICATION DOCUMENTS

ATTACHMENTS

Description

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: City of Seguin

PERMIT NUMBER (If new, leave blank): WQ00 10277001

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

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Original USGS Map	☒	☐
Administrative Report 1.1	☐	☒	Affected Landowners Map	☐	☒
SPIF	☒	☐	Landowner Disk or Labels	☐	☒
Core Data Form	☒	☐	Buffer Zone Map	☐	☒
Public Involvement Plan Form	☒	☐	Flow Diagram	☒	☐
Technical Report 1.0	☒	☐	Site Drawing	☒	☐
Technical Report 1.1	☐	☒	Original Photographs	☐	☒
Worksheet 2.0	☒	☐	Design Calculations	☐	☒
Worksheet 2.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 3.0	☐	☒	Water Balance	☐	☒
Worksheet 3.1	☐	☒			
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: 157347

Check/Money Order Amount: $2,015.00

Name Printed on Check: City of Seguin

EPAY — Voucher Number: Click to enter text.

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 Wastewater Treatment

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

☒ Active ☐ Inactive

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

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

d. Check the box next to the appropriate application type

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

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

f. **For existing permits**:

Permit Number: WQ00 10277001

EPA I.D. (TPDES only): TX 0022365

Expiration Date: March 11, 2025

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?

City of Seguin

(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: 600342257

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: Mrs. Last Name, First Name: Dodgen, Donna

Title: Mayor Credential: Click to enter text.

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

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

Click to enter text.

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

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

CN: Click to enter text.

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

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

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

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

C. Core Data Form

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

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: Howe, Tim

Title: Director of Water/Wastewater Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2222 E-mail Address: thowe@seguintexas.gov

Check one or both: ☒ Administrative Contact ☐ Technical Contact

B. Prefix: Mr. Last Name, First Name: Bell, Craig

Title: Austin Engineering Director Credential: P.E.

Organization Name: TRC Engineers, Inc.

Mailing Address: 505 East Huntland Drive, Suite 250 City, State, Zip Code: Austin, TX, 78752

Phone No.: (512) 924-4999 E-mail Address: cbell@trccompanies.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: Parker, Steve

Title: City Manager Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 401-2300 E-mail Address: sparker@seguintexas.gov

B. Prefix: Mr. Last Name, First Name: Cortes, Rick

Title: Deputy City Manager Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2513 E-mail Address: rcortes@seguintexas.gov

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: Ms. Last Name, First Name: Caddell, Susan

Title: Director of Finance Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 401-2455 E-mail Address: scaddell@seguintexas.gov

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: Howe, Tim

Title: Director of Water/Wastewater Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2222 E-mail Address: thowe@seguintexas.gov

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: Mr. Last Name, First Name: Howe, Tim

Title: Director of Water/Wastewater Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2222 E-mail Address: thowe@seguintexas.gov

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: Howe, Tim

Title: Director of Water/Wastewater Credential: Click to enter text.

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2222 E-mail Address: thowe@seguintexas.gov

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: City Hall

Location within the building: City Secretary Office

Physical Address of Building: 205 North River Street

City: Seguin County: Guadalupe

Contact (Last Name, First Name): Mueller, Kristin

Phone No.: (830) 401-2468 Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: Attachment 2

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: Click to enter text.

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** 101610699

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):

Walnut Branch Wastewater Treatment Plant

C. Owner of treatment facility: City of Seguin

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

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

Prefix: Click to enter text. Last Name, First Name: City of Seguin

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

Organization Name: City of Seguin

Mailing Address: 205 North River Street City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2513 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.

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:

Click to enter text.

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

☒ Yes ☐ No

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

Click to enter text.

City nearest the outfall(s): Seguin

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

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 3

☐ Attachment 1 for Individuals as co-applicants

☐ Other Attachments. Please specify: Click to enter text.

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: WQ0010277001

Applicant: City of Seguin

Certification:

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

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

Signatory name (typed or printed): Donna Dodgen

Signatory title: Mayor

Signature: Donna Dodgen Date: 8-22-24

(Use blue ink)

Subscribed and Sworn to before me by the said Donna Dodgen

on this 22nd day of August, 20 24.

My commission expires on the 7th day of December, 20 25.

Kimberly Allison

Notary Public

KIMBERLY ALLISON
NOTARY PUBLIC
STATE OF TEXAS
MY COMM. EXP. 12/07/25
NOTARY ID 13349397-7

Guadalupe

County, Texas

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: Attachment 4

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

B. Interim II Phase

Design Flow (MGD): Click to enter text.

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

Estimated construction start date: Click to enter text.

Estimated waste disposal start date: Click to enter text.

C. Final Phase

Design Flow (MGD): 4.9

2-Hr Peak Flow (MGD): 11.99

Estimated construction start date: January, 1998

Estimated waste disposal start date: June, 1999

D. Current Operating Phase

Provide the startup date of the facility: June, 1999

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

Conventional activated sludge Plant with complete mix. Raw domestic wastewater enters the plant via 30" pipe at the lift station and is pumped through a 18" forced main to the plant head works. Another 30" pipe gravity fed, enters the Plant at the headworks where all raw water is treated first with preliminary treatment and then primary treatment. Water flows to the Primary clarifiers, to the aeration basins, final clarifiers and then to the chlorine contact chamber to the chlorine disinfection/detention basins and then dechlorinated just before it flows to the outfall pipe, and then to the Guadalupe River. Sludge is drawn off the bottom of the clarifiers for recirculation (aeration) or sludge digestion (digesters to dying beds).

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)
Primary Clarifiers	2	60'dx9.5'swd, 90'dx10.5'swd
Aeration Basins	3	195'x150'x20'deep
Final Clarifiers	3	60'dx13'swd, 90'dx10.5'swd, 60'dx10.5'swd
Chlorine Basin	3	27'x25'x9.5'deep, 63'x32'x13'deep
Drying Beds	7	See Attachment 6

C. Process Flow Diagram

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

Attachment: Attachment 7

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

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

- Latitude: N 29.559166666666666
- Longitude: W -97.96138888888889

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: Attachment 8

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

City of Seguin Walnut Branch Watershed

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

Collection System Information

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

Section 4. Unbuilt Phases (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 5. Closure Plans (Instructions Page 45)

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

Click to enter text.

Section 6. Permit Specific Requirements (Instructions Page 45)

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

A. Summary transmittal

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

☒ Yes ☐ No

If yes, provide the date(s) of approval for each phase: 1997 (Current Phase)

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

N/A

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.

N/A

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 A048 or TXRNE Click to enter text.

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

☐ Yes ☐ No

3. Conditional exclusion

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

☐ Yes ☐ No

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

Click to enter text.

4. Existing coverage in individual permit

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

☐ Yes ☐ No

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

Click to enter text.

5. Zero stormwater discharge

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

☐ Yes ☐ No

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

Click to enter text.

Note: If there is a potential to discharge any stormwater to surface water in the state as the result of any storm event, then permit coverage is required under the MSGP or an individual discharge permit. This requirement applies to all areas of facilities with treatment plants or systems that treat, store, recycle, or reclaim domestic sewage, wastewater or sewage sludge (including dedicated lands for sewage sludge disposal

located within the onsite property boundaries) that meet the applicability criteria of above. You have the option of obtaining coverage under the MSGP for direct discharges, (recommended), or obtaining coverage under this individual permit.

6. Request for coverage in individual permit

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

☐ Yes ☐ No

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

In addition, provide the date the plant started or is anticipated to start accepting sludge, an estimate of monthly sludge acceptance (gallons or millions of gallons), an estimate of the BOD_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 50)

Is the facility in operation?

☒ Yes ☐ No

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

If yes, provide effluent analysis data for the listed pollutants. ***Wastewater treatment facilities*** complete Table 1.0(2). 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.

Attachment 9

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	2	2	1	Composite	9am 5/14/2024-8am 5/15/2024
Total Suspended Solids, mg/l	4.0	4.0	2	Composite	9am 5/14/2024-8am 5/15/2024
Ammonia Nitrogen, mg/l	<0.10	<0.10	1	Composite	9am 5/14/2024-8am 5/15/2024
Nitrate Nitrogen, mg/l	9,990.0 (ug/l)	9,990.0 (ug/l)	1	Composite	9am 2/13/2024-8am 2/14/2024
Total Kjeldahl Nitrogen, mg/l	<0.20	<0/20	1	Composite	9am 6/10/2024-8am 6/11/2024
Sulfate, mg/l	80.6	80.6	1	Composite	9am 6/10/2024-8am 6/11/2024
Chloride, mg/l	176	176	1	Composite	9am 6/10/2024-8am 6/11/2024
Total Phosphorus, mg/l	5.60	5.60	1	Composite	9am 5/14/2024-8am 5/15/2024
pH, standard units	7.43	7.43	1	Grab	6/4/2024
Dissolved Oxygen*, mg/l	6.81	6.81	1	Grab	6/4/2024
Chlorine Residual, mg/l	2.3	2.3	1	Grab	6/4/2024
E.coli (CFU/100ml) freshwater	15 (MPN/ 100ml)	15	2	Grab	5/21/2024 7:40am 7:41am
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	702	702	1	Composite	9am 6/10/2024-8am 6/11/2024
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<5.0	<5.0	1	Grab	8:05am 6/11/2024
Alkalinity ($CaCO_3$)*, mg/l	166	166	1	Composite	9am 6/10/2024-8am 6/11/2024

*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					

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

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: Brandon McBride

Facility Operator's License Classification and Level: Class A Wastewater Treatment

Facility Operator's License Number: WW0059303

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

A. WWTP's Biosolids Management Facility Type

Check all that apply. See instructions for guidance

- ☒ Design flow>= 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 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. Biosolids Management

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

Biosolids Management

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

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

D. Disposal site

Disposal site name: Mesquite Creek Landfill

TCEQ permit or registration number: 66A

County where disposal site is located: Comal

E. Transportation method

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

Name of the hauler: Waste Connections

Hauler registration number: 22591

Sludge is transported as a:

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

Section 10. Permit Authorization for Sewage Sludge Disposal

(Instructions Page 53)

A. Beneficial use authorization

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

☐ Yes ☒ No

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

☐ Yes ☐ No

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

☐ Yes ☐ No

B. Sludge processing authorization

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

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

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

☐ Yes ☐ No

Section 11. Sewage Sludge Lagoons (Instructions Page 53)

Does this facility include sewage sludge lagoons?

☐ Yes ☒ No

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

A. Location information

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

- Original General Highway (County) Map:

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

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

  Attachment: Click to enter text.

- Site map:

  Attachment: Click to enter text.

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

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

Attachment: Click to enter text.

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

Click to enter text.

B. Temporary storage information

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

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

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

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

Phosphorus, mg/kg: Click to enter text.

Potassium, mg/kg: Click to enter text.

pH, standard units: Click to enter text.

Ammonia Nitrogen mg/kg: Click to enter text.

Arsenic: Click to enter text.

Cadmium: Click to enter text.

Chromium: Click to enter text.

Copper: Click to enter text.

Lead: Click to enter text.

Mercury: Click to enter text.

Molybdenum: Click to enter text.

Nickel: Click to enter text.

Selenium: Click to enter text.

Zinc: Click to enter text.

Total PCBs: Click to enter text.

Provide the following information:

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

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

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

C. Liner information

Does the active/proposed sludge lagoon(s) have a liner with a maximum hydraulic conductivity of $1x10^{-7}$ 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 55)

A. Additional authorizations

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

☒ Yes ☐ No

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

R 10277-001 Treated effluent water is pumped to the CPS Energy Rio Nogales Power Plant for cooling tower makeup water.

B. Permittee enforcement status

Is the permittee currently under enforcement for this facility?

☐ Yes ☒ No

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

☐ Yes ☒ No

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

Click to enter text.

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

A. RCRA hazardous wastes

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

☐ Yes ☒ No

B. Remediation activity wastewater

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

☐ Yes ☒ No

C. Details about wastes received

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

Attachment: Click to enter text.

Section 14. Laboratory Accreditation (Instructions Page 56)

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

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

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

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

CERTIFICATION:

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

Printed Name: Donna Dodgen

Title: Mayor

Signature: Donna Dodgen

Date: 8-22-24

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: RECEIVING WATERS

The following information is required for all TPDES permit applications.

Section 1. Domestic Drinking Water Supply (Instructions Page 64)

Is there a surface water intake for domestic drinking water supply located within 5 miles downstream from the point or proposed point of discharge?

☐ Yes ☒ No

If **no**, proceed 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 64)

Does the facility discharge into tidally affected waters?

☐ Yes ☒ No

If **no**, proceed to Section 3. **If yes**, complete the remainder of this section. If no, proceed to Section 3.

A. Receiving water outfall

Width of the receiving water at the outfall, in feet: Click to enter text.

B. Oyster waters

Are there oyster waters in the vicinity of the discharge?

☐ Yes ☐ No

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

Click to enter text.

C. Sea grasses

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

☐ Yes ☐ No

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

Click to enter text.

Section 3. Classified Segments (Instructions Page 64)

Is the discharge directly into (or within 300 feet of) a classified segment?

☒ Yes ☐ No

If yes, this Worksheet is complete.

If no, complete Sections 4 and 5 of this Worksheet.

Section 4. Description of Immediate Receiving Waters (Instructions Page 65)

Name of the immediate receiving waters: Click to enter text.

A. Receiving water type

Identify the appropriate description of the receiving waters.

☐ Stream

☐ Freshwater Swamp or Marsh

☐ Lake or Pond

Surface area, in acres: Click to enter text.

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

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

☐ Man-made Channel or Ditch

☐ Open Bay

☐ Tidal Stream, Bayou, or Marsh

☐ Other, specify: Click to enter text.

B. Flow characteristics

If a stream, man-made channel or ditch was checked above, provide the following. For existing discharges, check one of the following that best characterizes the area *upstream* of the discharge. For new discharges, characterize the area *downstream* of the discharge (check one).

☐ Intermittent - dry for at least one week during most years

☐ Intermittent with Perennial Pools - enduring pools with sufficient habitat to maintain significant aquatic life uses

☐ Perennial - normally flowing

Check the method used to characterize the area upstream (or downstream for new dischargers).

☐ USGS flow records

☐ Historical observation by adjacent landowners

☐ Personal observation

☐ Other, specify: Click to enter text.

C. Downstream perennial confluences

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

Click to enter text.

D. Downstream characteristics

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

☐ Yes ☐ No

If yes, discuss how.

Click to enter text.

E. Normal dry weather characteristics

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

Click to enter text.

Date and time of observation: Click to enter text.

Was the water body influenced by stormwater runoff during observations?

☐ Yes ☐ No

Section 5. General Characteristics of the Waterbody (Instructions Page 66)

A. Upstream influences

Is the immediate receiving water upstream of the discharge or proposed discharge site influenced by any of the following? Check all that apply.

☐ Oil field activities
☐ 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: Click to enter text.

C. Waterbody aesthetics

Check one of the following that best describes the aesthetics of the receiving water and the surrounding area.

- ☐ Wilderness: outstanding natural beauty; usually wooded or unpastured area; water clarity exceptional
- ☐ Natural Area: trees and/or native vegetation; some development evident (from fields, pastures, dwellings); water clarity discolored
- ☐ Common Setting: not offensive; developed but uncluttered; water may be colored or turbid
- ☐ Offensive: stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: POLLUTANT ANALYSIS REQUIREMENTS

The following **is required** for facilities with a permitted or proposed flow of **1.0 MGD or greater**, facilities with an approved **pretreatment** program, or facilities classified as a **major** facility. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Toxic Pollutants (Instructions Page 78)

For pollutants identified in Table 4.0(1), indicate the type of sample.

Grab ☒ Composite ☒ Attachment 9

Date and time sample(s) collected: 02/13/2024 @ 8:00 am

Table 4.0(1) – Toxics Analysis

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrylonitrile	<50.0	<50.0	Grab	50
Aldrin	<0.01	<0.01	Composite	0.01
Aluminum	45.3	45.3	Composite	2.5
Anthracene	<10.0	<10.0	Composite	10
Antimony	<5.0	<5.0	Composite	5
Arsenic	<5.0	<5.0	Composite	0.5
Barium	76.3	76.3	Composite	3
Benzene	<10.0	<10.0	Grab	10
Benzidine	<50.0	<50.0	Composite	50
Benzo(a)anthracene	<5.0	<5.0	Composite	5
Benzo(a)pyrene	<5.0	<5.0	Composite	5
Bis(2-chloroethyl)ether	<10.0	<10.0	Composite	10
Bis(2-ethylhexyl)phthalate	<10.0	<10.0	Composite	10
Bromodichloromethane	<10.0	<10.0	Grab	10
Bromoform	<10.0	<10.0	Grab	10
Cadmium	<1.0	<1.0	Composite	1
Carbon Tetrachloride	<2.0	<2.0	Grab	2
Carbaryl	<5.0	<5.0	Composite	5
Chlordane*	<0.15	<0.15	Composite	0.2
Chlorobenzene	<10.0	<10.0	Grab	10
Chlorodibromomethane	<10.0	<10.0	Grab	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	<10.0	<10.0	Grab	10
Chlorpyrifos	<0.05	<0.05	Composite	0.05
Chromium (Total)	<3.0	<3.0	Composite	3
Chromium (Tri) **(*1)**	<3.0	<3.0	Composite	N/A
Chromium (Hex)	<3.0	<3.0	Composite	3
Copper	2.8	2.8	Composite	2
Chrysene	<5.0	<5.0	Composite	5
p-Chloro-m-Cresol	<10.0	<10.0	Composite	10
4,6-Dinitro-o-Cresol	<50.0	<50.0	Composite	50
p-Cresol	<10.0	<10.0	Composite	10
Cyanide **(*2)**	<10.0	<10.0	Grab	10
4,4'- DDD	<0.1	<0.1	Composite	0.1
4,4'- DDE	<0.1	<0.1	Composite	0.1
4,4'- DDT	<0.02	<0.02	Composite	0.02
2,4-D	<0.7	<0.7	Composite	0.7
Demeton (O and S)	<0.2	<0.2	Composite	0.20
Diazinon	<0.5	<0.5	Composite	0.5/0.1
1,2-Dibromoethane	<2.0	<2.0	Grab	10
m-Dichlorobenzene	<10.0	<10.0	Grab	10
o-Dichlorobenzene	<10.0	<10.0	Grab	10
p-Dichlorobenzene	<10.0	<10.0	Grab	10
3,3'-Dichlorobenzidine	<5.0	<5.0	Composite	5
1,2-Dichloroethane	<10.0	<10.0	Grab	10
1,1-Dichloroethylene	<10.0	<10.0	Grab	10
Dichloromethane	<20.0	<20.0	Grab	20
1,2-Dichloropropane	<10.0	<10.0	Grab	10
1,3-Dichloropropene	<10.0	<10.0	Grab	10
Dicofol	<1.0	<1.0	Composite	1
Dieldrin	<0.02	<0.02	Composite	0.02
2,4-Dimethylphenol	<10.0	<10.0	Composite	10
Di-n-Butyl Phthalate	<10.0	<10.0	Composite	10
Diuron	<0.09	<0.09	Composite	0.09
Endosulfan I (alpha)	<0.01	<0.01	Composite	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	<0.02	<0.02	Composite	0.02
Endosulfan Sulfate	<0.1	<0.1	Composite	0.1
Endrin	<0.02	<0.02	Composite	0.02
Ethylbenzene	<10.0	<10.0	Grab	10
Fluoride	700	700	Composite	500
Guthion	<0.1	<0.1	Composite	0.1
Heptachlor	<0.01	<0.01	Composite	0.01
Heptachlor Epoxide	<0.01	<0.01	Composite	0.01
Hexachlorobenzene	<5.0	<5.0	Composite	5
Hexachlorobutadiene	<10.0	<10.0	Composite	10
Hexachlorocyclohexane (alpha)	<0.05	<0.05	Composite	0.05
Hexachlorocyclohexane (beta)	<0.05	<0.05	Composite	0.05
gamma-Hexachlorocyclohexane (Lindane)	<0.05	<0.05	Composite	0.05
Hexachlorocyclopentadiene	<10.0	<10.0	Composite	10
Hexachloroethane	<20.0	<20.0	Composite	20
Hexachlorophene	<10.0	<10.0	Composite	10
Lead	<0.5	<0.5	Composite	0.5
Malathion	<0.1	<0.1	Composite	0.1
Mercury	<0.005	<0.005	Grab	0.005
Methoxychlor	<0.2	<0.2	Composite	2
Methyl Ethyl Ketone	<50.0	<50.0	Grab	50
Mirex	<0.02	<0.02	Composite	0.02
Nickel	3.2	3.2	Composite	2
Nitrate-Nitrogen	9,990	9,990	Composite	100
Nitrobenzene	<10.0	<10.0	Composite	10
N-Nitrosodiethylamine	<20.0	<20.0	Composite	20
N-Nitroso-di-n-Butylamine	<20.0	<20.0	Composite	20
Nonylphenol	<5.0	<5.0	Composite	333
Parathion (ethyl)	<0.1	<0.1	Composite	0.1
Pentachlorobenzene	<20.0	<20.0	Composite	20
Pentachlorophenol	<5.0	<5.0	Composite	5
Phenanthrene	<10.0	<10.0	Composite	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) **(*3)**	<0.2	<0.2	Composite	0.2
Pyridine	<20.0	<20.0	Composite	20
Selenium	<5.0	<5.0	Composite	5
Silver	<0.5	<0.5	Composite	0.5
1,2,4,5-Tetrachlorobenzene	<20.0	<20.0	Composite	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	Grab	10
Tetrachloroethylene	<10.0	<10.0	Grab	10
Thallium	<0.5	<0.5	Composite	0.5
Toluene	<10.0	<10.0	Grab	10
Toxaphene	<0.3	<0.3	Composite	0.3
2,4,5-TP (Silvex)	<0.3	<0.3	Composite	0.3
Tributyltin (see instructions for explanation)	-	-	-	0.01
1,1,1-Trichloroethane	<10.0	<10.0	Grab	10
1,1,2-Trichloroethane	<10.0	<10.0	Grab	10
Trichloroethylene	<10.0	<10.0	Grab	10
2,4,5-Trichlorophenol	<50.0	<50.0	Composite	50
TTHM (Total Trihalomethanes)	<10.0	<10.0	Grab	10
Vinyl Chloride	<10.0	<10.0	Grab	10
Zinc	39.2	39.2	Composite	5

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable.

(*3) The sum of seven PCB congeners 1242, 1254, 1221, 1232, 1248, 1260, and 1016.

Section 2. Priority Pollutants

For pollutants identified in Tables 4.0(2)A-E, indicate type of sample.

Grab ☒ Composite ☒

Date and time sample(s) collected: 02/13/2024 @ 8:00 am

Table 4.0(2)A – Metals, Cyanide, and Phenols

Pollutant	**AVG Effluent Conc. (µg/l)**	**MAX Effluent Conc. (µg/l)**	**Number of Samples**	**MAL (µg/l)**
Antimony	<5.0	<5.0	Composite	5
Arsenic	<0.5	<0.5	Composite	0.5
Beryllium	<0.5	<0.5	Composite	0.5
Cadmium	<1.0	<1.0	Composite	1
Chromium (Total)	<3.0	<3.0	Composite	3
Chromium (Hex)	<3.0	<3.0	Composite	3
Chromium (Tri) **(*1)**	<3.0	<3.0	Composite	N/A
Copper	2.8	2.8	Composite	2
Lead	<0.5	<0.5	Composite	0.5
Mercury	<0.005	<0.005	Grab	0.005
Nickel	3.2	3.2	Composite	2
Selenium	<5.0	<5.0	Composite	5
Silver	<0.5	<0.5	Composite	0.5
Thallium	<0.5	<0.5	Composite	0.5
Zinc	39.2	39.2	Composite	5
Cyanide **(*2)**	<10.0	<10.0	Grab	10
Phenols, Total	<10.0	<10.0	Grab	10

(*1) Determined by subtracting hexavalent Cr from total Cr.

(*2) Cyanide, amenable to chlorination or weak-acid dissociable

Table 4.0(2)B – Volatile Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acrolein	<50.0	<50.0	Grab	50
Acrylonitrile	<50.0	<50.0	Grab	50
Benzene	<10.0	<10.0	Grab	10
Bromoform	<10.0	<10.0	Grab	10
Carbon Tetrachloride	<2.0	<2.0	Grab	2
Chlorobenzene	<10.0	<10.0	Grab	10
Chlorodibromomethane	<10.0	<10.0	Grab	10
Chloroethane	<50.0	<50.0	Grab	50
2-Chloroethylvinyl Ether	<10.0	<10.0	Grab	10
Chloroform	<10.0	<10.0	Grab	10
Dichlorobromomethane [Bromodichloromethane]	<10.0	<10.0	Grab	10
1,1-Dichloroethane	<10.0	<10.0	Grab	10
1,2-Dichloroethane	<10.0	<10.0	Grab	10
1,1-Dichloroethylene	<10.0	<10.0	Grab	10
1,2-Dichloropropane	<10.0	<10.0	Grab	10
1,3-Dichloropropylene [1,3-Dichloropropene]	<10.0	<10.0	Grab	10
1,2-Trans-Dichloroethylene	<10.0	<10.0	Grab	10
Ethylbenzene	<10.0	<10.0	Grab	10
Methyl Bromide	<10.0	<10.0	Grab	50
Methyl Chloride	<10.0	<10.0	Grab	50
Methylene Chloride	<20.0	<20.0	Grab	20
1,1,2,2-Tetrachloroethane	<10.0	<10.0	Grab	10
Tetrachloroethylene	<10.0	<10.0	Grab	10
Toluene	<10.0	<10.0	Grab	10
1,1,1-Trichloroethane	<10.0	<10.0	Grab	10
1,1,2-Trichloroethane	<10.0	<10.0	Grab	10
Trichloroethylene	<10.0	<10.0	Grab	10
Vinyl Chloride	<10.0	<10.0	Grab	10

Table 4.0(2)C – Acid Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
2-Chlorophenol	<10.0	<10.0	Composite	10
2,4-Dichlorophenol	<10.0	<10.0	Composite	10
2,4-Dimethylphenol	<10.0	<10.0	Composite	10
4,6-Dinitro-o-Cresol	<50.0	<50.0	Composite	50
2,4-Dinitrophenol	<50.0	<50.0	Composite	50
2-Nitrophenol	<20.0	<20.0	Composite	20
4-Nitrophenol	<50.0	<50.0	Composite	50
P-Chloro-m-Cresol	<10.0	<10.0	Composite	10
Pentalchlorophenol	<5.0	<5.0	Composite	5
Phenol	16.0	16.0	Composite	10
2,4,6-Trichlorophenol	<10.0	<10.0	Composite	10

Table 4.0(2)D – Base/Neutral Compounds

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Acenaphthene	<10.0	<10.0	Composite	10
Acenaphthylene	<10.0	<10.0	Composite	10
Anthracene	<10.0	<10.0	Composite	10
Benzidine	<50.0	<50.0	Composite	50
Benzo(a)Anthracene	<5.0	<5.0	Composite	5
Benzo(a)Pyrene	<5.0	<5.0	Composite	5
3,4-Benzofluoranthene	<10.0	<10.0	Composite	10
Benzo(ghi)Perylene	<20.0	<20.0	Composite	20
Benzo(k)Fluoranthene	<5.0	<5.0	Composite	5
Bis(2-Chloroethoxy)Methane	<10.0	<10.0	Composite	10
Bis(2-Chloroethyl)Ether	<10.0	<10.0	Composite	10
Bis(2-Chloroisopropyl)Ether	<10.0	<10.0	Composite	10
Bis(2-Ethylhexyl)Phthalate	<10.0	<10.0	Composite	10
4-Bromophenyl Phenyl Ether	<10.0	<10.0	Composite	10
Butyl benzyl Phthalate	<10.0	<10.0	Composite	10
2-Chloronaphthalene	<10.0	<10.0	Composite	10
4-Chlorophenyl phenyl ether	<10.0	<10.0	Composite	10
Chrysene	<5.0	<5.0	Composite	5
Dibenzo(a,h)Anthracene	<5.0	<5.0	Composite	5
1,2-(o)Dichlorobenzene	<10.0	<10.0	Composite	10
1,3-(m)Dichlorobenzene	<10.0	<10.0	Composite	10
1,4-(p)Dichlorobenzene	<10.0	<10.0	Composite	10
3,3-Dichlorobenzidine	<5.0	<5.0	Composite	5
Diethyl Phthalate	<10.0	<10.0	Composite	10
Dimethyl Phthalate	<10.0	<10.0	Composite	10
Di-n-Butyl Phthalate	<10.0	<10.0	Composite	10
2,4-Dinitrotoluene	<10.0	<10.0	Composite	10
2,6-Dinitrotoluene	<10.0	<10.0	Composite	10
Di-n-Octyl Phthalate	<10.0	<10.0	Composite	10
1,2-Diphenylhydrazine (as Azo-benzene)	<20.0	<20.0	Composite	20
Fluoranthene	<10.0	<10.0	Composite	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	<10.0	<10.0	Composite	10
Hexachlorobenzene	<5.0	<5.0	Composite	5
Hexachlorobutadiene	<10.0	<10.0	Composite	10
Hexachlorocyclo-pentadiene	<10.0	<10.0	Composite	10
Hexachloroethane	<20.0	<20.0	Composite	20
Indeno(1,2,3-cd)pyrene	<5.0	<5.0	Composite	5
Isophorone	<10.0	<10.0	Composite	10
Naphthalene	<10.0	<10.0	Composite	10
Nitrobenzene	<10.0	<10.0	Composite	10
N-Nitrosodimethylamine	<50.0	<50.0	Composite	50
N-Nitrosodi-n-Propylamine	<20.0	<20.0	Composite	20
N-Nitrosodiphenylamine	<20.0	<20.0	Composite	20
Phenanthrene	<10.0	<10.0	Composite	10
Pyrene	<10.0	<10.0	Composite	10
1,2,4-Trichlorobenzene	<10.0	<10.0	Composite	10

Table 4.0(2)E - Pesticides

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Aldrin	<0.01	<0.01	Composite	0.01
alpha-BHC (Hexachlorocyclohexane)	<0.05	<0.05	Composite	0.05
beta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	Composite	0.05
gamma-BHC (Hexachlorocyclohexane)	<0.05	<0.05	Composite	0.05
delta-BHC (Hexachlorocyclohexane)	<0.05	<0.05	Composite	0.05
Chlordane	<0.15	<0.15	Composite	0.2
4,4-DDT	<0.02	<0.02	Composite	0.02
4,4-DDE	<0.1	<0.1	Composite	0.1
4,4,-DDD	<0.1	<0.1	Composite	0.1
Dieldrin	<0.02	<0.02	Composite	0.02
Endosulfan I (alpha)	<0.01	<0.01	Composite	0.01
Endosulfan II (beta)	<0.02	<0.02	Composite	0.02
Endosulfan Sulfate	<0.1	<0.1	Composite	0.1
Endrin	<0.02	<0.02	Composite	0.02
Endrin Aldehyde	<0.1	<0.1	Composite	0.1
Heptachlor	<0.01	<0.01	Composite	0.01
Heptachlor Epoxide	<0.01	<0.01	Composite	0.01
PCB-1242	<0.2	<0.2	Composite	0.2
PCB-1254	<0.2	<0.2	Composite	0.2
PCB-1221	<0.2	<0.2	Composite	0.2
PCB-1232	<0.2	<0.2	Composite	0.2
PCB-1248	<0.2	<0.2	Composite	0.2
PCB-1260	<0.2	<0.2	Composite	0.2
PCB-1016	<0.2	<0.2	Composite	0.2
Toxaphene	<0.3	<0.3	Composite	0.3

* For PCBS, if all are non-detects, enter the highest non-detect preceded by a "<".

Section 3. Dioxin/Furan Compounds

A. Indicate which of the following compounds from may be present in the influent from a contributing industrial user or significant industrial user. Check all that apply.

☐ 2,4,5-trichlorophenoxy acetic acid

Common Name 2,4,5-T, CASRN 93-76-5

☐ 2-(2,4,5-trichlorophenoxy) propanoic acid

Common Name Silvex or 2,4,5-TP, CASRN 93-72-1

☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate

Common Name Erbon, CASRN 136-25-4

☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate

Common Name Ronnel, CASRN 299-84-3

☐ 2,4,5-trichlorophenol

Common Name TCP, CASRN 95-95-4

☐ hexachlorophene

Common Name HCP, CASRN 70-30-4

For each compound identified, provide a brief description of the conditions of its/their presence at the facility.

Click to enter text.

B. Do you know or have any reason to believe that 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or any congeners of TCDD may be present in your effluent?

☐ Yes ☒ No

If **yes**, provide a brief description of the conditions for its presence.

Click to enter text.

C. If any of the compounds in Subsection A **or** B are present, complete Table 4.0(2)F.

For pollutants identified in Table 4.0(2)F, indicate the type of sample.

Grab ☐ Composite ☐

Date and time sample(s) collected: Click to enter text.

Table 4.0(2)F – Dioxin/Furan Compounds

Compound	Toxic Equivalency Factors	Wastewater Concentration (ppq)	Wastewater Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Equivalents (ppt)	MAL (ppq)
2,3,7,8 TCDD	1					10
1,2,3,7,8 PeCDD	0.5					50
2,3,7,8 HxCDDs	0.1					50
1,2,3,4,6,7,8 HpCDD	0.01					50
2,3,7,8 TCDF	0.1					10
1,2,3,7,8 PeCDF	0.05					50
2,3,4,7,8 PeCDF	0.5					50
2,3,7,8 HxCDFs	0.1					50
2,3,4,7,8 HpCDFs	0.01					50
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					0.5
PCB 81	0.0003					0.5
PCB 126	0.1					0.5
PCB 169	0.03					0.5
Total						

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: TOXICITY TESTING REQUIREMENTS

The following **is required** for facilities with a current operating design flow of**1.0 MGD or greater**, with an EPA-approved **pretreatment** program (or those required to have one under 40 CFR Part 403), or are required to perform Whole Effluent Toxicity testing. See instructions for further details.

This worksheet is not required minor amendments without renewal.

Section 1. Required Tests (Instructions Page 88)

Indicate the number of 7-day chronic or 48-hour acute Whole Effluent Toxicity (WET) tests performed in the four and one-half years prior to submission of the application.

7-day Chronic: 0

48-hour Acute: 16

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☒ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
11/15/2023	Daphnia pulex	52%	N/A
(85794) 48Hr.	Pimephales promelas	52%	N/A
07/19/2023	Daphnia pulex	52%	N/A
(85793) 48Hr.	Pimephales promelas	52%	N/A
05/31/2023	Daphnia pulex	52%	N/A
(85790) 48Hr.	Pimephales promelas	52%	N/A
02/22/2023	Daphnia pulex	52%	N/A
(85791) 48Hr.	Pimephales promelas	52%	N/A
11/16/2022	Daphnia pulex	52%	N/A
(82767) 48Hr.	Pimephales promelas	52%	N/A
08/24/2022	Daphnia pulex	52%	N/A
(82766) 48Hr.	Pimephales promelas	52%	N/A
05/18/2022	Daphnia pulex	52%	N/A
(82763) 48Hr.	Pimephales promelas	52%	N/A
02/23/2022	Daphnia pulex	52%	N/A
(82764) 48Hr.	Pimephales promelas	52%	N/A
10/27/2021	Daphnia pulex	52%	N/A
(77342) 48Hr.	Pimephales promelas	52%	N/A
08/11/2021	Daphnia pulex	52%	N/A
(77341) 48Hr.	Pimephales promelas	52%	N/A
05/12/2021	Daphnia pulex	52%	N/A
(77337) 48Hr.	Pimephales promelas	52%	N/A
03/10/2021	Daphnia pulex	52%	N/A
(77339) 48Hr.	Pimephales promelas	52%	N/A
10/28/2020	Daphnia pulex	52%	N/A
(75795) 48Hr.	Pimephales promelas	52%	N/A
09/02/2020	Daphnia pulex	52%	N/A
(75794) 48Hr.	Pimephales promelas	52%	N/A
06/03/2020	Daphnia pulex	52%	N/A

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
(75767) 48Hr.	Pimephales promelas	52%	N/A
03/18/2020	Daphnia pulex	52%	N/A
(75769) 48Hr.	Pimephales promelas	52%	N/A

DOMESTIC WASTEWATER PERMIT APPLICATION WORKSHEET 6.0: INDUSTRIAL WASTE CONTRIBUTION

The following **is required** for **all publicly owned treatment works**.

Section 1. All POTWs (Instructions Page 89)

A. Industrial users (IUs)

Provide the number of each of the following types of industrial users (IUs) that discharge to your POTW and the daily flows from each user. See the Instructions for definitions of Categorical IUs, Significant IUs – non-categorical, and Other IUs.

If there are no users, enter 0 (zero).

Categorical IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

Significant IUs – non-categorical:

Number of IUs: 3

Average Daily Flows, in MGD: 1.89

Other IUs:

Number of IUs: 0

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

Click to enter text.

C. Treatment plant pass through

In the past three years, has your POTW experienced pass through (see instructions)?

☐ Yes ☒ No

If yes, identify the dates, duration, a description of the pollutants passing through the treatment plant, and probable cause(s) and possible source(s) of each pass through event. Include the names of the IUs that may have caused pass through.

Click to enter text.

D. Pretreatment program

Does your POTW have an approved pretreatment program?

☒ Yes ☐ No

If yes, complete Section 2 only of this Worksheet.

Is your POTW required to develop an approved pretreatment program?

☒ Yes ☐ No

If yes, complete Section 2.c. and 2.d. only, and skip Section 3.

If no to either question above, skip Section 2 and complete Section 3 for each significant industrial user and categorical industrial user.

E. Service Area Map

Attach a map indicating the service area of the POTW. The map should include the applicant's service area boundaries and the location of any known industrial users discharging to the POTW. Please see the instructions for guidance.

Attachment: Click to enter text.

Section 2. POTWs with Approved Programs or Those Required to Develop a Program (Instructions Page 90)

A. Substantial modifications

Have there been any **substantial modifications** to the approved pretreatment program that have not been submitted to the TCEQ for approval according to *40 CFR §403.18*?

☐ Yes ☒ No

If yes, identify the modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

B. Non-substantial modifications

Have there been any **non-substantial modifications** to the approved pretreatment program that have not been submitted to TCEQ for review and acceptance?

☐ Yes ☒ No

If yes, identify all non-substantial modifications that have not been submitted to TCEQ, including the purpose of the modification.

Click to enter text.

C. Effluent parameters above the MAL

In Table 6.0(1), list all parameters measured above the MAL in the POTW's effluent monitoring during the last three years. Submit an attachment if necessary.

Table 6.0(1) – Parameters Above the MAL

Pollutant	Concentration	MAL	Units	Date
Aluminum	45.3	2.5	(ug/l)	02/13/2024
Barium	76.3	3.0	(ug/l)	02/13/2024
Copper	2.8	2.0	(ug/l)	02/13/2024
Fluoride	700	500	(ug/l)	02/13/2024
Nickel	3.2	2.0	(ug/l)	02/13/2024
Nitrate-N	9,990	100	(ug/l)	02/13/2024
Phenol	16.0	10	(ug/l)	02/13/2024
Zinc	39.2	5.0	(ug/l)	02/13/2024
Aluminum	31.6	2.0	(ug/l)	07/11/2023
Antimony	1.5	0.5	(ug/l)	07/11/2023
Arsenic	0.5	0.5	(ug/l)	07/11/2023

Pollutant	Concentration	MAL	Units	Date
Barium	72.5	2.0	(ug/l)	07/11/2023
Copper	1.8	0.5	(ug/l)	07/11/2023
Fluoride	1.05	0.1	(ug/l)	07/11/2023
Nickel	3.5	0.5	(ug/l)	07/11/2023
Zinc	14.7	2.0	(ug/l)	07/11/2023
Aluminum	133.0	2.5	(ug/l)	02/24/2023
Barium	29.5	3.0	(ug/l)	02/24/2023
Copper	11.5	2.0	(ug/l)	02/24/2023
Nickel	3.4	2.0	(ug/l)	02/24/2023
Nitrate-N	24,800	100	(ug/l)	02/24/2023
Phenol	16.0	10	(ug/l)	02/24/2023
Zinc	18.4	5.0	(ug/l)	02/24/2023

D. Industrial user interruptions

Has any SIU, CIU, or other IU caused or contributed to any problems (excluding interferences or pass throughs) at your POTW in the past three years?

☐ Yes ☒ No

If yes, identify the industry, describe each episode, including dates, duration, description of the problems, and probable pollutants.

Click to enter text.

Section 3. Significant Industrial User (SIU) Information and Categorical Industrial User (CIU) (Instructions Page 90)

A. General information

Company Name: Click to enter text.

SIC Code: Click to enter text.

Contact name: Click to enter text.

Address: Click to enter text.

City, State, and Zip Code: Click to enter text.

Telephone number: Click to enter text.

Email address: Click to enter text.

B. Process information

Describe the industrial processes or other activities that affect or contribute to the SIU(s) or CIU(s) discharge (i.e., process and non-process wastewater).

Click to enter text.

C. Product and service information

Provide a description of the principal product(s) or services performed.

Click to enter text.

D. Flow rate information

See the Instructions for definitions of "process" and "non-process wastewater."

Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

Non-Process Wastewater:

Discharge, in gallons/day: Click to enter text.

Discharge Type: ☐ Continuous ☐ Batch ☐ Intermittent

E. Pretreatment standards

Is the SIU or CIU subject to technically based local limits as defined in the *i*nstructions?

☐ Yes ☐ No

Is the SIU or CIU subject to categorical pretreatment standards found in *40 CFR Parts 405-471*?

☐ Yes ☐ No

If subject to categorical pretreatment standards, indicate the applicable category and subcategory for each categorical process.

Category: Subcategories: Click to enter text.

Click or tap here to enter text. Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

Category: Click to enter text.

Subcategories: Click to enter text.

F. Industrial user interruptions

Has the SIU or CIU caused or contributed to any problems (e.g., interferences, pass through, odors, corrosion, blockages) at your POTW in the past three years?

☐ Yes ☐ No

If yes, identify the SIU, describe each episode, including dates, duration, description of problems, and probable pollutants.

Click to enter text.

ATTACHMENT 1

Core Data Form

(Ref. Section 3 of Administrative Report 1.0)

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 600342257		**RN 101610699**

SECTION II: Customer Information

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

☐ 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:*

City of Seguin

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits) 74-600-2279	**10. DUNS Number** *(if applicable)*

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

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☒ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **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: 205 North River Street

City	Seguin	**State**	TX	**ZIP**	78155	**ZIP + 4**	

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

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(830) 379-3212		( ) -

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.)*

Walnut Branch Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	101 East Klein Street							
	City	Seguin	**State**	TX	**ZIP**	78155	**ZIP + 4**	
24. County	Guadalupe							

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

25. Description to Physical Location:	East Klein Street, Seguin, Texas, Guadalupe County. Approximately 2,650 feet south of the intersection of 123 and 90.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Seguin			TX	78155	

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:	29.56139		**28. Longitude (W) In Decimal:**	97.96417	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	33	41	97	57	51

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		22132	

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

Treat wastewater

34. Mailing Address:	**205 North River Street**							
	City	**Seguin**	**State**	**TX**	**ZIP**	**78155**	**ZIP + 4**	
35. E-Mail Address:								

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 379-3212		( ) -

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:
	WQ0010277001			

SECTION IV: Preparer Information

40. Name:	Craig Bell, P.E.	41. Title:	Austin Engineering Director

42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 924-4999		(512) 454-2433	CBell@trccompanies.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:	City of Seguin	Job Title:	Mayor	
Name *(In Print)*:	Donna Dodgen		Phone:	(830) 401- 2307
Signature:	Donna Dodgen		Date:	8-22-24

ATTACHMENT 2

Plain Language Summary

(Ref. Section 8 of Administrative Report 1.0)

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

PLAIN LANGUAGE SUMMARY FOR TPDES OR TLAP PERMIT APPLICATIONS

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

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

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

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

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

1. Enter applicant's name here (2. Enter Customer Number here (i.e., CN6########)) 3. Choose from the drop-down menu 4. Enter name of facility here (5. Enter Regulated Entity Number here (i.e., RN1########)), 6. Choose from the drop-down menu 7. Enter facility description here. The facility 8. Choose from the drop-down menu located at 9. Enter location here, in 10. Enter city name here, 11. Enter county name here County, Texas 12. Enter zip code here. 13. Enter summary of application request here. *<<For TLAP applications include the following sentence, otherwise delete:>>* This permit will not authorize a discharge of pollutants into water in the state.

Discharges from the facility are expected to contain 14. List all expected pollutants here. 15. Enter types of wastewater discharged here 16. Choose from the drop-down menu treated by 17. Enter a description of wastewater treatment used at the facility here.

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

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

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

1. Introduzca el nombre del solicitante aquí (2. Introduzca el número de cliente aquí (es decir, CN6########).) 3. Elija del menú desplegable 4. Introduzca el nombre de la instalación aquí 5. Introduzca el número de entidad regulada aquí (es decir, RN1########), 6. Elija del menú desplegable 7. Introduzca la descripción de la instalación aquí. La instalación 8. Elija del menú desplegable. ubicada en 9. Introduzca la ubicación aquí, en 10. Introduzca el nombre de la ciudad aquí, Condado de 11. Introduzca el nombre del condado aquí, Texas 12. Introduzca el código postal aquí. 13. Introduzca el resumen de la petición de solicitud aquí. *<<Para las solicitudes de TLAP incluya la siguiente oración, de lo contrario, elimine:>>* Este permiso no autorizará una descarga de contaminantes en el agua en el estado.

Se espera que las descargas de la instalación contengan 14. Liste todos los contaminantes esperados aquí. 15. Introduzca los tipos de aguas residuales descargadas aquí. 16. Elija del menú desplegable tratado por 17. Introduzca una descripción del tratamiento de aguas residuales utilizado en la instalación aquí.

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

Individual Industrial Wastewater 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 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.

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

City of Seguin (CN600342257) operates Walnut Branch Wastewater Treatment Plant (RN101610699), a conventional activated sludge plant with complete mix. The facility is located at 101 East Klein Street, in the City of Seguin, Guadalupe County, Texas 78155. This application is for a renewal to discharge 4.9 MGD into the Guadalupe River.

Discharges from the facility are expected to contain carbon monoxide, total suspended solids, sulfate, chloride, total phosphorus, dissolved oxygen, total residual chlorine, total dissolved solids, alkalinity, and pH. The plant effluent discharges to the Guadalupe River below the Comal River (Segment No. 1804 of the Guadalupe River Basin) is treated by raw domestic wastewater entering the plant via a 30" pipe at the lift station and is pumped through an 18" forced main to the plant head works. Another 30" pipe gravity fed, enters the plant at the headworks where all raw water is treated first with preliminary treatment and then primary treatment. Water flows to the primary clarifiers, to the aeration basins, final clarifiers and then to the chlorine contact chamber to the chlorine disinfection/detention basins and then dechlorinated just before it flows to the outfall pipe, and then to the Guadalupe River. Sludge is drawn off the bottom of the clarifiers for recirculation (aeration) or sludge digestion (digesters to dying beds).

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.

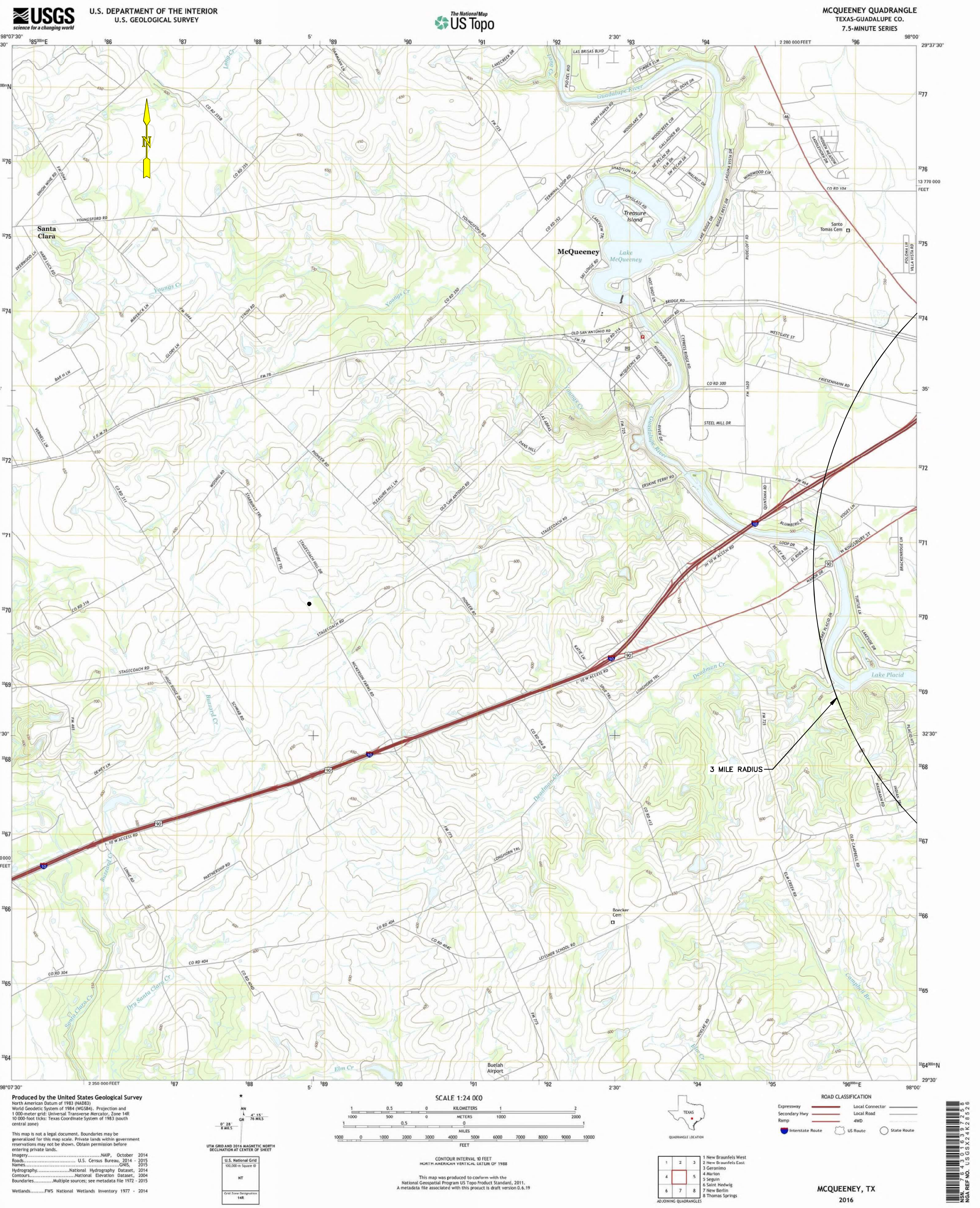
Ciudad de Seguin (CN600342257) opera planta de tratamiento de aguas residuales de Walnut Branch (RN101610699), una planta convencional de lodos activados con mezcla completa. La instalación está ubicada en 101 East Klein Street, en la ciudad de Seguin, Condado de Guadalupe, Texas 78155. Esta solicitud es para una renovación para descargar 4.9 MGD en el río Guadalupe.

Se espera que las descargas de la instalación contengan monóxido de carbono, sólidos suspendidos totales, sulfato, cloruro, fósforo total, oxígeno disuelto, cloro residual total, sólidos disueltos totales, alcalinidad y pH. El efluente de la planta se descarga al río Guadalupe por debajo del río Comal (Segmento No. 1804 de la cuenca del río Guadalupe). está tratado por las aguas residuales domésticas sin tratar ingresan a la planta a través de una tubería de 30" en la estación de bombeo y se bombean a través de una tubería principal forzada de 18" a la planta principal. Otra tubería de 30", alimentada por gravedad, ingresa a la planta en la cabecera, donde toda el agua cruda se trata primero con un tratamiento preliminar y luego con un tratamiento primario. El agua fluye a los clarificadores primarios, a las cuencas de aireación, a los clarificadores finales y luego a la cámara de contacto de cloro a las cuencas de desinfección/detención de cloro y luego se declora justo antes de fluir a la tubería de desagüe, y luego al río Guadalupe. Los lodos se extraen del fondo de los clarificadores para su recirculación (aireación) o digestión de lodos (digestores a lechos de teñido).

ATTACHMENT 3

Original Full Size USGS Map

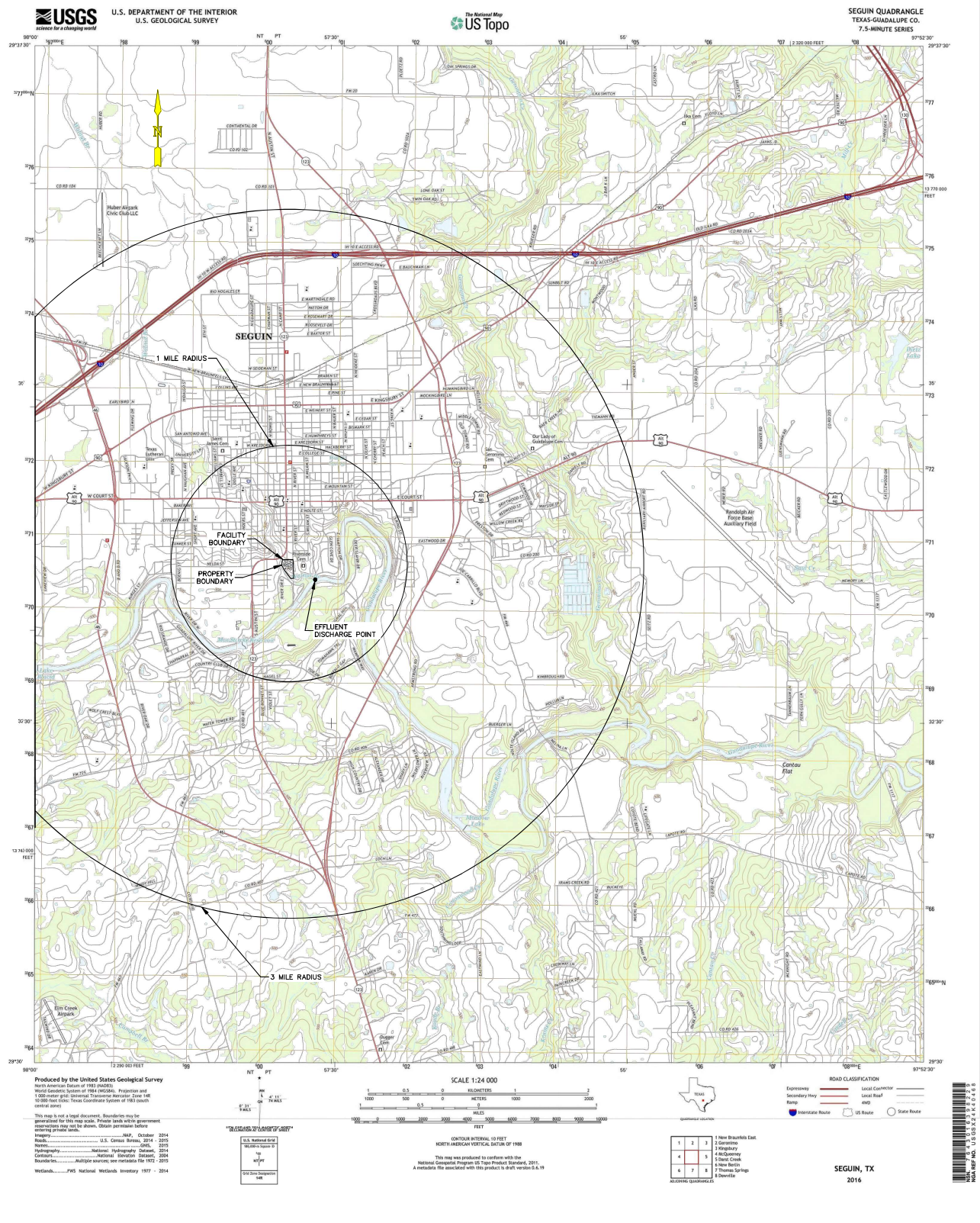
(Ref. Section 13 of Administrative Report 1.0)



TRC

TRC ENGINEERS, INC.
505 E. HUNTLAND DRIVE, STE. 250 AUSTIN, TX 78752
T.B.P.E. FIRM REGISTRATION # F-8632
(512) 454 – 8716

CITY OF SEGUIN, TEXAS
WALNUT BRANCH WWTP
USGS MAP



TRC ENGINEERS, INC.
505 E. HUNTLAND DRIVE, STE. 250 AUSTIN, TX 78752
T.B.P.E. FIRM REGISTRATION # F-8632
(512) 454 – 8716

CITY OF SEGUIN, TEXAS
WALNUT BRANCH WWTP
USGS MAP

ATTACHMENT 4

SPIF Form

(Ref. Page 14 of the Administrative Report)

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: City of Seguin

   Permit No. WQ00 10277001 EPA ID No. TX 0022365

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

   101 East Klein Street, Seguin, Texas, 78155

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: Tim Howe

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text

Title: Director of Water/Wastewater

Mailing Address: 205 North River Street

City, State, Zip Code: Seguin, TX, 78155

Phone No.: (830) 386-2222 Ext.: Click here to enter text Fax No.: Click here to enter text

E-mail Address: thowe@seguintexas.gov

2. List the county in which the facility is located: Guadalupe
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

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.

From the plant effluent discharge beginning at the chlorine detention basin through the serpentine baffled walls to the de-chlorination chamber then into a 30 inch discharge outfall pipe to the Guadalupe River below the Comal River in Segment No. 1804 of the Guadalupe River Basin.

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). Attachment 5

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):

N/A

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

N/A

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

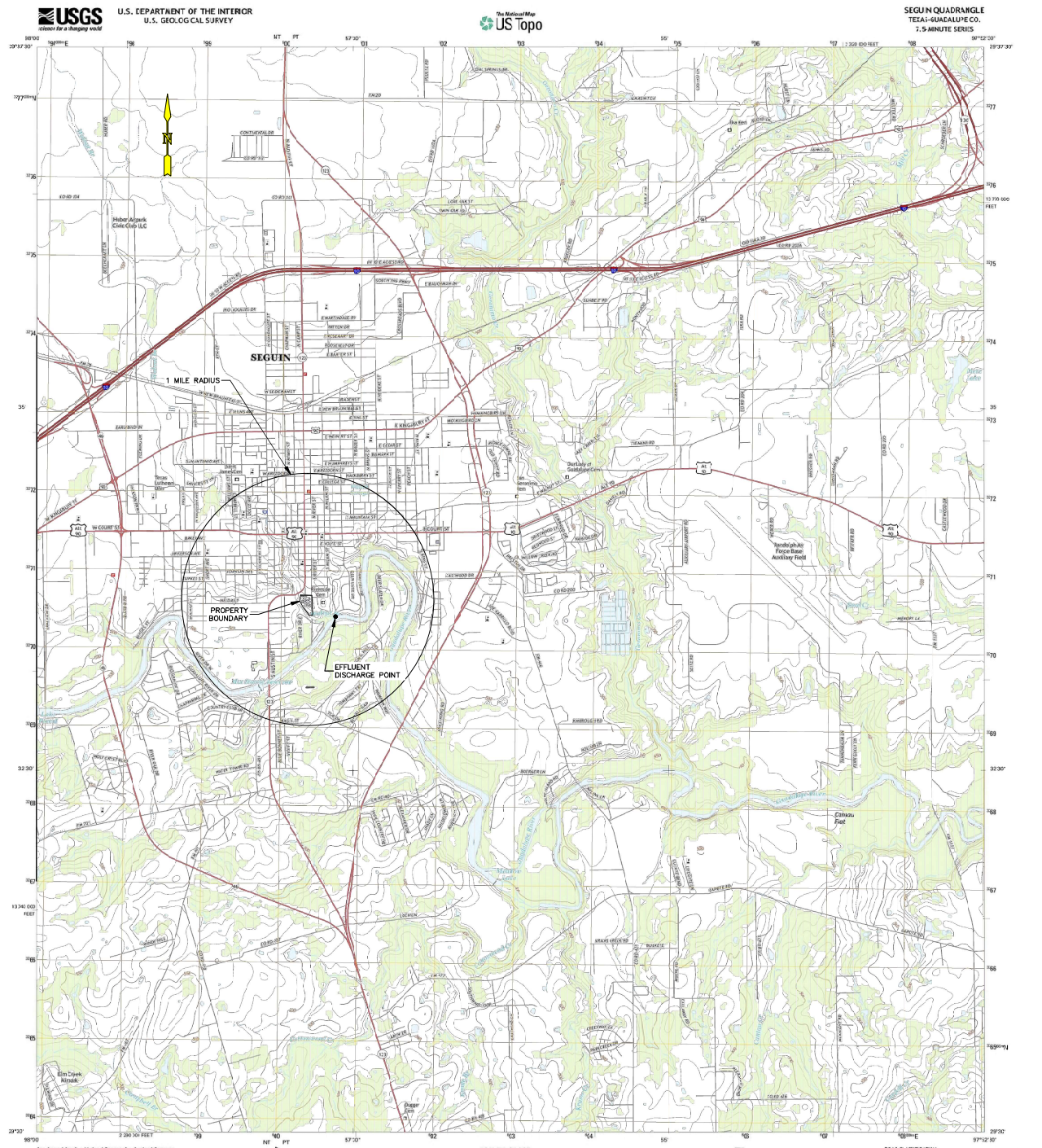
3. List construction dates of all buildings and structures on the property:

N/A

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

N/A

ATTACHMENT 5
SPIF USGS Map
(Ref. Item 5 of Supplemental Permit Information Form, SPIF)



TRC ENGINEERS, INC.
505 E. HUNTLAND DRIVE, STE. 250 AUSTIN, TX 78752
T.B.P.E. FIRM REGISTRATION # F-4947
(512) 454 – 8716

CITY OF SEGUIN, TEXAS
WALNUT BRANCH WWTP
USGS MAP

F:\WORK IN PROGRESS\SEGUIN\338701 TCEQ PERMIT RENEWAL\400 TECHNICAL\409 TCEQ FORMS\WALNUT BRANCH\ATTACHMENTS\CAD DRAWINGS\ATTACHMENT 4 – DFW 1 MILE RADIUS MAPPING – 7/9/19

ATTACHMENT 6

Drying Bed Volumes

(Ref. Section 2 of Domestic Technical Report 1.0)

CITY OF SEGUIN
WALNUT BRANCH WWTP
Drying Bed Volumes

Seguin Walnut Brunch WWTP Drying Bed Volumes

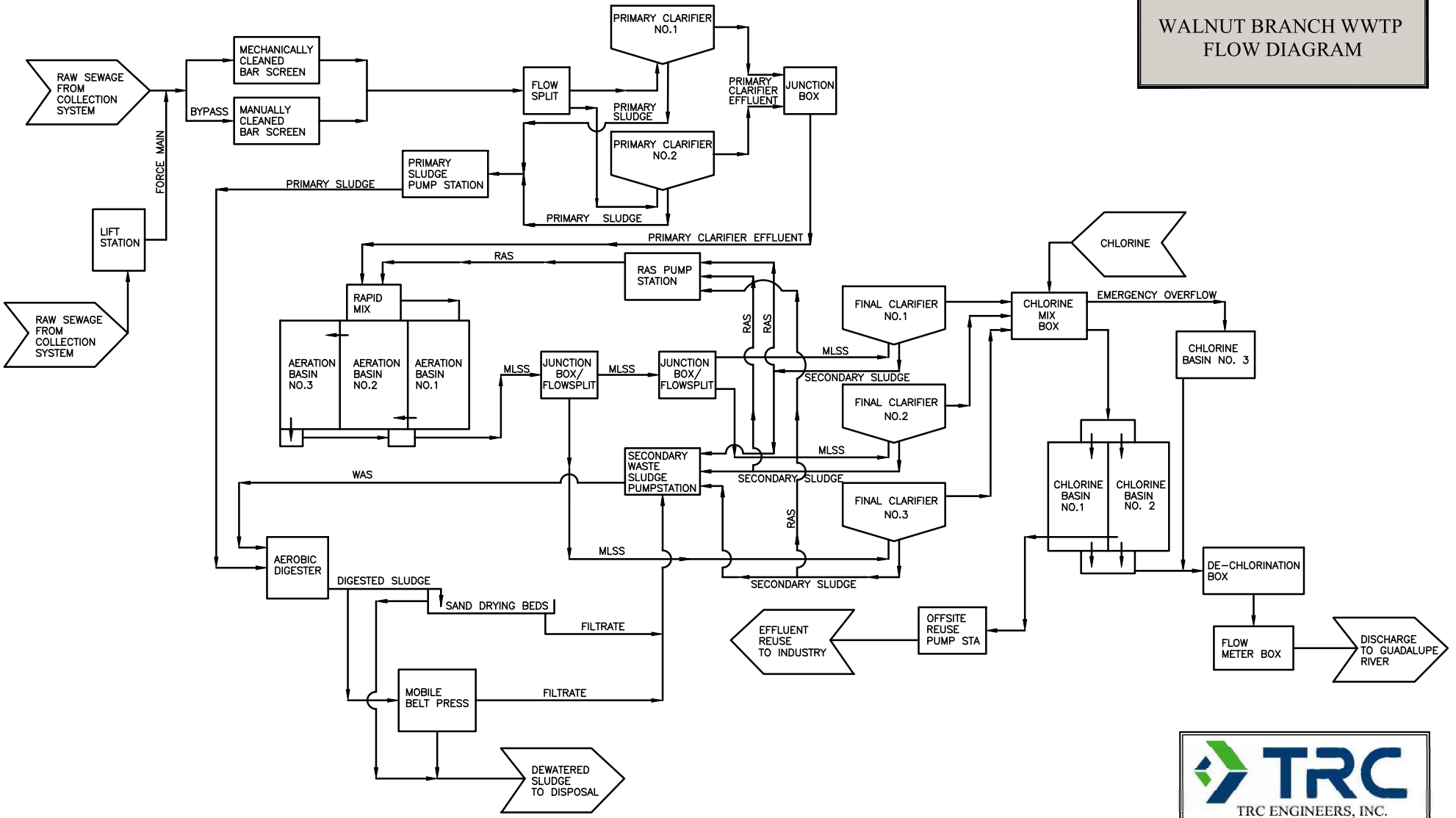
Bed #	12” Depth (Gallons)	18” Depth (Gallons)	Area (Square Feet)
1	23,984.42	35,976.62	3,206.25
2	26,482.39	39,723.58	3,540.18
3	28,721.38	43,082.07	3,839.49
4	27,368.83	41,053.24	3,658.68
5	24,690.88	37,036.31	3,300.69
6	21,690.22	32,535.32	2,899.56
7	18,618.79	27,928.18	2,488.97

ATTACHMENT 7

Process Flow Diagram

(Ref. Section 2 of Domestic Technical Report 1.0)

WALNUT BRANCH WWTP FLOW DIAGRAM



TRC ENGINEERS, INC.
505 E. HUNTLAND DRIVE, STE. 250 AUSTIN, TX 78752
TRPF FIRM REGISTRATION # F-9512
(512) 454 - 8716

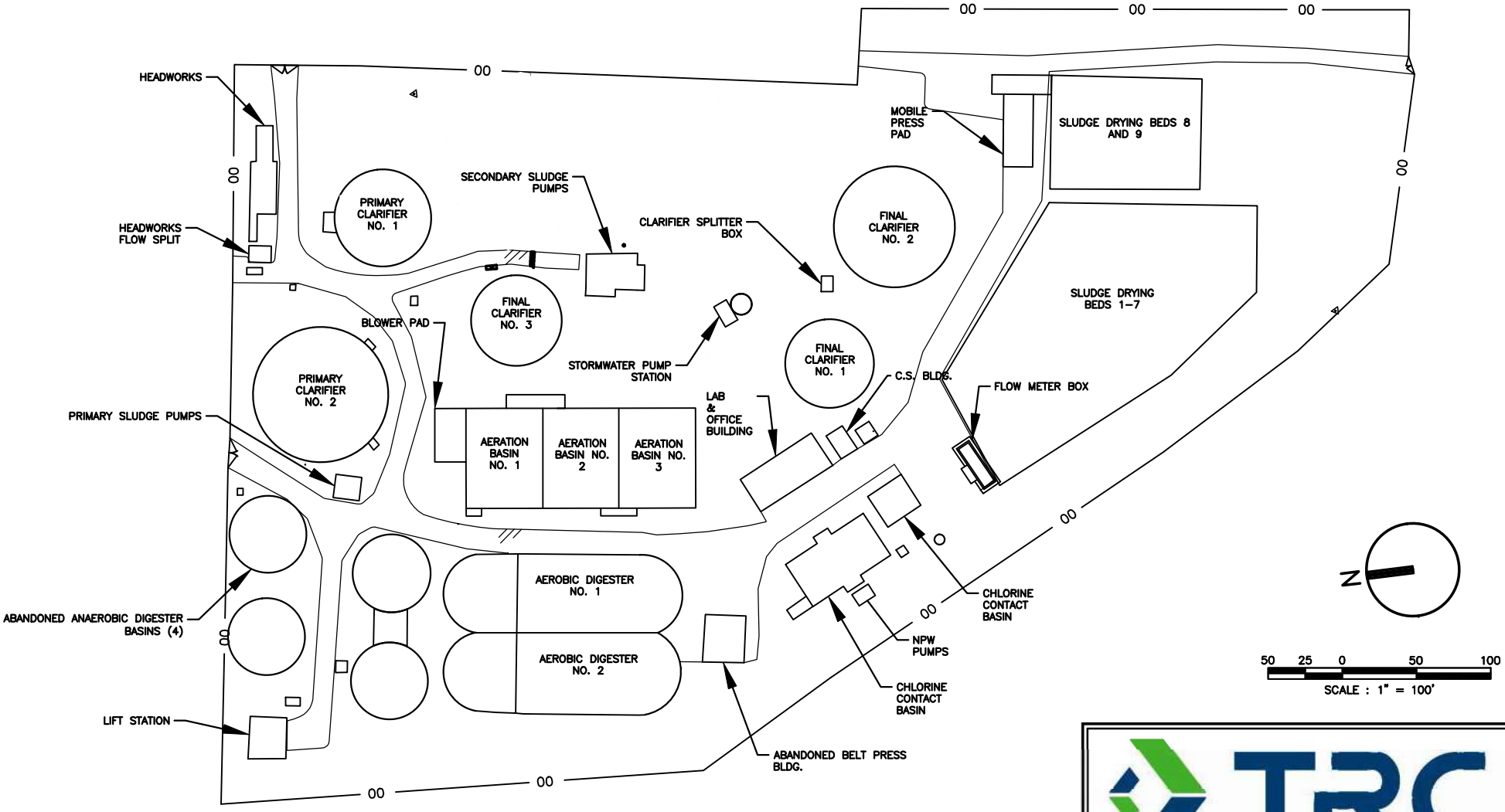
F:\WORK IN PROGRESS\SEGUIN\328761 TCEQ PERMIT RENEWAL\400 TECHNICAL\2019 TCEQ FORMS\WALNUT BRANCH\ATTACHEMENTS\CAD DRAWINGS\FIG 2 FLOW DIAGRAM.DWG - 7/10/19

ATTACHMENT 8

Site Drawing

(Ref. Section 3 of Domestic Technical Report 1.0)

WALNUT BRANCH WWTP
EXISTING SITE PLAN



TRC ENGINEERS, INC.
505 E. HUNTLAND DRIVE, STE. 250 AUSTIN, TX 78752
T.B.P.E. FIRM REGISTRATION # F-8632
(512) 454 - 8716

ATTACHMENT 9

Pollutant Analysis of Treated Effluent Lab Results

(Ref. Section 7 of Domestic Technical Report 1.0)

Publish Date/Time: 5/28/2024 10:35 AM

Guadalupe-Blanco River Authority

Report of Analysis

For: 421711 - City of Seguin-Walnut Branch WWTP

PO Box 591

Seguin, TX 78156

Released By: Kylie Gudgell

Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

Lab Sample ID: 240521.11-01 **Collection Date/Time:** 5/21/2024 07:40 AM **Sample Matrix:** Waste Water

Site: Effluent **Receive Date/Time:** 5/21/2024 01:20 PM **Sample Type:** Grab

	Analyte	Method	Sample Result	DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1	Fecal coliform by Quanti-Tray	IDEXX Colilert 18 hr	15 MPN/100mL	2	2		5/21/2024 01:50 PM	LC	5/22/2024 08:06 AM	LC

Lab Sample ID: 240521.11-02 **Collection Date/Time:** 5/21/2024 07:41 AM **Sample Matrix:** Waste Water

Site: Effluent **Receive Date/Time:** 5/21/2024 01:20 PM **Sample Type:** Grab

Analyte	Method	Sample Result	DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
E. coli by Quanti-Tray	IDEXX Colilert 18 hr	15 MPN/100mL	2	2		5/21/2024 01:48 PM	LC	5/22/2024 08:04 AM	LC

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA

2 Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240521.11

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition

%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Order Comments

240521.11	N/A

QC Results

QCBatch ID	QC ID	Parameter	% Recovery / RPD	Control Limits
QC240522.002	240521.11-02: Duplicate 1	E. coli by Quanti-Tray	0.07	
	MBLK 1	E. coli by Quanti-Tray	0.0	
QC240522.003	240521.11-01: Duplicate 1	Fecal coliform by Quanti-Tray	0.08	
	MBLK 1	Fecal coliform by Quanti-Tray	0.0	

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

933 E. Court Street, Seguin, TX 78155
Phone: (830) 379-5822 Fax: (830) 379-1478

Customer Information

Customer Acct.#: 421711	
Name: Seguin-Walnut	Billing Address:
Address: PO Box 591, Seguin, Tx 78156	Fax #:
Phone #: 830-401-2411 830-386-2573	Email 1:
Thermometer #: 24	Email 2:
Receipt Temp (°C) Observed / Corrected: 13.4 13.7	Chlorine Strip GBRA Reagent # / Chlorine : Absent/ Present
Ice: Yes / No (Circle One)	pH Paper GBRA Reagent #:
# of Containers: 2	Condition of Containers (Intact): Yes / No (Circle One) / Residual Chlorine (Total/Free) Results:

Date Collected	Time Collected	Matrix (WW=Wastewater, DW=Drinking Water, SW=Surface Water, S=Soil/Sludge)	Sx Vol. P=Plastic G=Glass	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	240521.11 GBRA Sample ID	pH	Type of Preservation	
5/21/24	7:40Am	WW	100mL-P	Effluent		G	Fecal coli	-01		Na2S2O3	
5-21-24	7:41Am	WW	100mL-P	Effluent		G	E. Coli	-02		Na2S2O3	

Sampler Name (Print): Rene Porras
Sampler Signature:

Released by (Sampler): Rene Porras	5-21-24 Date/Time: 9:45 Am	Transferred To: T Longcor	5-21-24 Date/Time: 9:45 Am
Released From: T Longcor	5-21-24 Date/Time: 1:20 Pm	Received By:	5/21/24 Date/Time: 1520
Released From:	Date/Time:	Received By:	Date/Time:
Released From:	Date/Time:	Received By:	Date/Time:

NOTES / COMMENTS / SHIP TO:

Notes: $=Metals sent to subcontracted lab *= pH tested at subcontracted lab.

Rush Fees: 24 hour TAT/ Holiday Fee=4X Price
48 hour TAT=3X Price
3-5 days TAT = 2X Price

Publish Date/Time: 7/3/2024 5:29 PM

GBRA
Guadalupe-Blanco River Authority

Report of Analysis

For: **421711 - City of Seguin-Walnut Branch WWTP**
PO Box 591
Seguin, TX 78156

Kylie Gudgell

Released By: Kylie Gudgell
Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

Lab Sample ID: 240611.26-01 **Collection Date/Time:** 6/11/2024 08:00 AM **Sample Matrix:** Waste Water
Site: Effluent **Receive Date/Time:** 6/11/2024 01:50 PM **Sample Type:** Composite

	Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
	Anions - Chloride	EPA 300.0 Rev. 2.1	176	mg/L	4	4		6/14/2024 03:11 AM	MHS		
	Anions - Sulfate	EPA 300.0 Rev. 2.1	80.6	mg/L	4	4		6/14/2024 03:11 AM	MHS		
1	Total Alkalinity	EPA 310.2/ SM 2320 B	166	mg CaCO3/L	1	20		6/13/2024 04:50 PM	MHS		
1	pH (T.Alkalinity)	EPA 310.2/ SM 2320 B	4.5	SU	1	1		6/13/2024 04:50 PM	MHS		
	Total Kjeldahl Nitrogen (TKN)	EPA 351.2 Rev. 2	< 0.20	mg/L	1	0.2		6/21/2024 09:46 AM	MW		
	Total Dissolved Solids	SM 2540 C	702	mg/L	1	10		6/13/2024 06:18 PM	MLH		

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA
2 Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240611.26

Lab Sample ID: 240611.26-02 **Collection Date/Time:** 6/11/2024 08:05 AM **Sample Matrix:** Waste Water

Site: Effluent **Receive Date/Time:** 6/11/2024 01:50 PM **Sample Type:** Grab

	Analyte	Method	Sample Result	DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
1	Oil and Grease	Subcontract	See Attached Report mg/L	1			6/25/2024 10:45 AM			

Subcontract methods are tested by an external laboratory. See subcontracted report for further details.

NA = not analyzed

1 Parameter not available for NELAP accreditation at the GBRA

2 Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240611.26

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition

%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

Order Comments

240611.26	N/A

QC Results

QCBatch ID	QC ID	Parameter	% Recovery / RPD	Control Limits
QC240613.005	240611.26-01: Duplicate 1	Total Dissolved Solids	0.57	0 - 10
	LCS 1	Total Dissolved Solids	92.12	75 - 125
	MBLK 1	Total Dissolved Solids	0.0	0 - 10
QC240614.002	240613.09-01: MS 1	Total Alkalinity	87.75	75 - 125
	240613.09-01: MSD 1	Total Alkalinity	1.66	0 - 15.4

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

	240613.10-05: MS 2	Total Alkalinity	78.93	75 - 125
	240613.10-05: MSD 2	Total Alkalinity	3.41	0 - 15.4
	LCS 1	Total Alkalinity	98.98	80 - 120
	LCS 2	Total Alkalinity	100.05	80 - 120
	LCSD 1	Total Alkalinity	2.69	0 - 15.4
	LCSD 2	Total Alkalinity	3.5	0 - 15.4
	MBLK 1	pH (T.Alkalinity)	4.5	
	MBLK 1	Phenolphthalein Alkalinity	0.0	
	MBLK 1	Total Alkalinity	2.68	0 - 20
	MBLK 2	pH (T.Alkalinity)	4.5	
	MBLK 2	Phenolphthalein Alkalinity	0.0	
	MBLK 2	Total Alkalinity	3.24	0 - 20
QC240614.003	240613.09-01: MS 1	Anions - Chloride	112.69	80 - 120
	240613.09-01: MS 1	Anions - Sulfate	106.93	80 - 120
	240613.09-01: MSD 1	Anions - Chloride	0.57	0 - 20
	240613.09-01: MSD 1	Anions - Sulfate	0.46	0 - 20
	240613.10-05: MS 2	Anions - Chloride	106.89	80 - 120
	240613.10-05: MS 2	Anions - Sulfate	103.45	80 - 120
	240613.10-05: MSD 2	Anions - Chloride	0.94	0 - 20
	240613.10-05: MSD 2	Anions - Sulfate	1.18	0 - 20
	LCS 1	Anions - Chloride	98.65	90 - 110
	LCS 1	Anions - Sulfate	102.05	90 - 110
	LCS 2	Anions - Chloride	99.07	90 - 110
	LCS 2	Anions - Sulfate	103.85	90 - 110
	LCSD 1	Anions - Chloride	2.63	0 - 20
	LCSD 1	Anions - Sulfate	2.01	0 - 20
	LCSD 2	Anions - Chloride	2.37	0 - 20
	LCSD 2	Anions - Sulfate	2.66	0 - 20
	MBLK 1	Anions - Chloride	0.0	0 - 1
	MBLK 1	Anions - Sulfate	0.0	
	MBLK 2	Anions - Chloride	0.0	0 - 1
	MBLK 2	Anions - Sulfate	0.0	
QC240621.009	240603.05-01: MS 1	Total Kjeldahl Nitrogen (TKN)	0.58	90 - 110
	240603.05-01: MSD 1	Total Kjeldahl Nitrogen (TKN)	-13.77	0 - 15
	240604.25-03: MS 2	Total Kjeldahl Nitrogen (TKN)	103.54	90 - 110

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

240604.25-03: MSD 2	Total Kjeldahl Nitrogen (TKN)	5.79	0 - 15
240605.12-12: MS 3	Total Kjeldahl Nitrogen (TKN)	82.24	90 - 110
240605.12-12: MSD 3	Total Kjeldahl Nitrogen (TKN)	15.92	0 - 15
240610.07-07: MS 4	Total Kjeldahl Nitrogen (TKN)	90.36	90 - 110
240610.07-07: MSD 4	Total Kjeldahl Nitrogen (TKN)	4.71	0 - 15
LCS 1	Total Kjeldahl Nitrogen (TKN)	101.91	90 - 110
LCS 2	Total Kjeldahl Nitrogen (TKN)	99.91	90 - 110
LCS 3	Total Kjeldahl Nitrogen (TKN)	97.17	90 - 110
LCS 4	Total Kjeldahl Nitrogen (TKN)	101.27	90 - 110
LCSD 1	Total Kjeldahl Nitrogen (TKN)	2.22	0 - 15
LCSD 2	Total Kjeldahl Nitrogen (TKN)	2.69	0 - 15
LCSD 3	Total Kjeldahl Nitrogen (TKN)	0.1	0 - 15
LCSD 4	Total Kjeldahl Nitrogen (TKN)	5.25	0 - 15
LOQ 1	Total Kjeldahl Nitrogen (TKN)	100.2	70 - 130
LOQ 2	Total Kjeldahl Nitrogen (TKN)	120.61	70 - 130
LOQ 3	Total Kjeldahl Nitrogen (TKN)	117.29	70 - 130
LOQ 4	Total Kjeldahl Nitrogen (TKN)	122.8	70 - 130
MBLK 1	Total Kjeldahl Nitrogen (TKN)	0.0	
MBLK 2	Total Kjeldahl Nitrogen (TKN)	-0.02	
MBLK 3	Total Kjeldahl Nitrogen (TKN)	0.0	
MBLK 4	Total Kjeldahl Nitrogen (TKN)	-0.03	

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA

[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240611.26

GBRA
Guadalupe-Blanco River Authority

Chain-Of-Custody Record

ACCREDITED IN ACCORDANCE WITH nelac

Report To	Customer Acct.#: 421711	**Invoice To** (if applicable)	
Name: Seguin-Walnut		**Name:**	
Address: PO Box 591, Seguin, Tx 78156		**Address:**	
Phone #: 830-401-2411 830-386-2573		**Phone #:**	
Email: bmcbride@seguintexas.gov; rporras@seguintexas.gov		**Email:**	
Thermometer #: 24	**Observed / Corrected Temp(°C):** 5.7 / 5.7	**Chlorine Check Reagent ID:**	**Chlorine : Absent/ Present**
Sample Iced (Circle One): (Yes) / No	**CoC Page:** 1 of 1	**pH Paper Reagent ID:** 111522-04	
No. of Containers: 3	**Containers Intact (Circle One):** (Yes) / No	**Residual Chlorine (Total/Free) Results:**	

Date Collected	Time Collected	Matrix	Sx Vol. P=Plastic G=Glass A=Amber	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	2406011.24 GBRA Sample ID	pH	Preservative	Sub Out
6-10/11-24	9am to 8am	WW	1L-P	Effluent		C	Sulfate, Chloride, TDS, Alkalinity	-01			
6-10/11-24	9am to 8am	WW	1L-P	Effluent	010424-02	C	TKN	-01	<2	H2SO4	
6-11-24	8:05am	WW	1L-G	Effluent	0505305	G	Oil & Grease	-02	+	H2SO4	Y

Matrices: WW=Wastewater, DW=Drinking Water, SW=Surface Water, S=Sludge/Soil

Samples marked above as "Sub Out" will be subcontracted to a laboratory that meets the regulatory or end-user requirements of these samples

Expedite Samples: 24hr/Holiday (4x Fee) 48hr/Weekend (3x Fee) 3-5 days (2x Fee) **Due Date:** _____

Sampler Name (Print): Rene Porras		**Sampler Signature:**	
Relinquished By: Rene Porras	**Date/Time:** 6-11-24 / 1:30 pm	**Transferred To:** Flowcor	**Date/Time:** 6/11/24 1:30 pm
Relinquished By: Flowcor	**Date/Time:** 6/11/24 / 1350	**Received By:**	**Date/Time:** 6/11/24 1350
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**

NOTES / COMMENTS / SHIP TO:
+pH tested at subcontracted lab

POLLUTION CONTROL SERVICES

Report of Sample Analysis

Client Information	Sample Information	Laboratory Information
Jennifer Sanchez **Guadalupe—Blanco River Authority** **933 East Court St.** **Seguin, TX 78155**	**Project Name: 240611.26-02** **Sample ID: 240611.26-02** **Matrix: Non-Potable Water** **Date/Time Taken: 6/11/2024 0805**	**PCS Sample #: 764657 Page 1 of 1** **Date/Time Received: 6/14/2024 16:23** **Report Date: 6/27/2024** Approved by: Chuck Wallgren, President

Test Description	Result	Units	RL	Analysis Date/Time	Method	Analyst
Oil and Grease (H.E.M.)	<5.0	mg/L	5	06/25/2024 10:45	EPA 1664 Rev	EMV

Quality Assurance Summary

Test Description	Precision	Limit	LCL	MS	MSD	UCL	LCS	LCS Limit	Blank
Oil and Grease (H.E.M.)	1	18	N/A	N/A	N/A	N/A	92	78 - 114	

Quality Statement: All supporting quality data adhered to data quality objectives and test results meet the requirements of NELAC unless otherwise noted as flagged exceptions or in a case narrative attachment. Reports with full quality data deliverables are available on request.

These analytical results relate only to the sample tested.
All data is reported on an 'As Is' basis unless designated as 'Dry Wt'.
RL = Reporting Limits

www.pcslab.net
chuck@pcslab.net
1532 Universal City Blvd
Universal City, TX 78148-3318
Main: 210-340-0343
Fax: 210-658-7903

GBRA
Guadalupe-Blanco River Authority

Chain-Of-Custody Record

ACCREDITED IN ACCORDANCE WITH nelac

Report To	**Customer Acct.#:**	**Invoice To** (if applicable)	
Name: GBRA Kylie Gudgell		**Name:**	
Address: 933 East Court St Seguin		**Address:**	
Phone #: 830-379-5822		**Phone #:**	
Email: labreports@gbra.org		**Email:** labsubinvoices@gbra.org	
Thermometer #:	**Observed / Corrected Temp(°C):** /	**Chlorine Check Reagent ID:**	**Chlorine : Absent/ Present**
Sample Iced (Circle One): Yes / No	**CoC Page:** of	**pH Paper Reagent ID:**	
No. of Containers:	**Containers Intact (Circle One):** Yes / No	**Residual Chlorine (Total/Free) Results:**	

Date Collected	Time Collected	Matrix	Sx Vol. P=Plastic G=Glass A=Amber	Sample Name/Description	Preservation ID (PID#)/ TCEQ ID Number	Grab / Comp.	Analysis Requested	GBRA Sample ID	pH	Preservative	Sub Out
6/11/2024	0805	WW	1L-G	240611.26-02		G	Oil and Grease	764657		H2SO4	

Matrices: WW=Wastewater, DW=Drinking Water, SW=Surface Water, S=Sludge/Soil

Samples marked above as "Sub Out" will be subcontracted to a laboratory that meets the regulatory or end-user requirements of these samples

Expedite Samples: 24hr/Holiday (4x Fee) 48hr/Weekend (3x Fee) 3-5 days (2x Fee) **Due Date:**_____

Sampler Name (Print):		**Sampler Signature:**	
Relinquished By: GBRA	**Date/Time:** 6/14/24 1623	**Transferred To:**	**Date/Time:**
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**
Relinquished By:	**Date/Time:**	**Received By:**	**Date/Time:**
Relinquished By:	**Date/Time:**	**Received By:** Jason Aguilar	**Date/Time:** 6-14-24 1623

NOTES / COMMENTS / SHIP TO:
+pH tested at subcontracted lab

Pollution Control Services
Sample Log-In Checklist

764657

PCS Sample No(s) 764657 **COC No.** _____

Client/Company Name: GBRA **Checklist Completed by:** JAA

Sample Delivery to Lab Via:
Client Drop Off ✓ Commercial Carrier: Bus ___ UPS ___ Lone Star ___ FedEx ___ USPS ___
PCS Field Services: Collection/Pick Up ___ Other: _____

Sample Kit/Coolers
Sample Kit/Cooler? Yes ✓ No ___ Sample Kit/Cooler: Intact? Yes ✓ No ___
Custody Seals on Sample Kit/Cooler: Not Present ✓ If Present, Intact ___ Broken ___
Sample Containers Intact; Unbroken and Not Leaking? Yes ✓ No ___
Custody Seals on Sample Bottles: Not Present ✓ If Present, Intact ___ Broken ___
COC Present with Shipment or Delivery or Completed at Drop Off? Yes ✓ No ___
Has COC sample date/time and other pertinent information been provided by client/sampler? Yes: ✓ No: ___
Has COC been properly Signed when Received/Relinquished? Yes ✓ No ___
Does COC agree with Sample Bottle Information, Bottle Types, Preservation, etc.? Yes ✓ No ___
All Samples Received before Hold Time Expiration? Yes ✓ No ___
Sufficient Sample Volumes for Analysis Requested? Yes ✓ No ___
Zero Headspace in VOA Vial? Yes ___ No ___

Sample Preservation:
* ***Cooling:*** **Not Required** _____ or **Required** ✓
If cooling required, record temperature of submitted samples Observed/Corrected 4 / 1 °C
Is Ice Present in Sample Kit/Cooler? ✓ Yes ___ No Samples received same day as collected? ___ Yes ✓ No
Lab Thermometer Make and Serial Number: Vaughan 1807009583 Other: _____

Acid Preserved Sample - If present, is pH <2? **Yes** ___ **No** ___ ** ___H_2SO_4 ___HNO_3 ___H_3PO_4
Base Preserved Sample - If present, is pH >12? Yes ___ No ___ ___NaOH
Other Preservation: _____ If Present, Meets Requirements? Yes ___ No ___
Sample Preservations Checked by: _____ Date _____ Time _____
pH paper used to check sample preservation (PCS log #): _____ (HEM pH checked at analysis).
Samples Preserved/Adjusted by Lab:

Lab #	Parameters Preserved	Preservative Used	Log #

Adjusted by Tech/Analyst: _____ Date : _____ Time: _____

Client Notification/ Documentation for "No" Responses Above/ Discrepancies/ RevisionComments
Person Notified: _____ Contacted by: _____
Notified Date: _____ Time: _____
Method of Contact: At Drop Off: ___ Phone ___ Left Voice Mail ___ E-Mail ___ Fax ___
Unable to Contact ___ Authorized Laboratory to Proceed : _____ (Lab Director)
Regarding / Comments: _____

Actions taken to correct problems/discrepancies: _____

Receiving qualifier needed (*requires client notification above*) Temp. ___ Holding Time ___ Initails: _____
Receiving qualifier entered into LIMS at login Initial/Date: _____
Revision Comments: _____

Publish Date/Time: 5/28/2024 10:33 AM

GBRA
Guadalupe-Blanco River Authority

Report of Analysis

For: 421711 - City of Seguin-Walnut Branch WWTP
PO Box 591
Seguin, TX 78156

Released By: Kylie Gudgell
Title: Lead Technical Manager

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the report, and that no information or data have been knowingly withheld that would affect the quality of the data.

This Laboratory is NELAP accredited. Scope: Non-potable water, potable water.

Lab Sample ID: 240515.08-01 **Collection Date/Time:** 5/15/2024 08:00 AM **Sample Matrix:** Waste Water
Site: Walnut Branch Effluent **Receive Date/Time:** 5/15/2024 01:25 PM **Sample Type:** Composite

	Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
	Ammonia as N	EPA 350.1 Rev. 2	<0.10	mg/L	1	0.1		5/17/2024 01:41 PM	MW		
	Total Phosphorus	EPA 365.3	5.60	mg/L	15	0.3		5/21/2024 11:33 AM	MW		
	Total Suspended Solids	SM 2540 D	4.00	mg/L	1	0.5		5/16/2024 08:54 PM	MLH		
[1]	pH (Lab)	SM 4500 H+B	7.6	SU	1	1	Q	5/15/2024 02:58 PM	CS		
	Carbonaceous Biochemical Oxygen Demand (CBOD)	SM 5210 B	2	mg/L	1	1	B	5/15/2024 03:52 PM	CS	5/20/2024 12:39 PM	CS

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240515.08

Lab Sample ID: 240515.08-02 **Collection Date/Time:** 5/15/2024 08:15 AM **Sample Matrix:** Waste Water

Site: Walnut Branch Influent **Receive Date/Time:** 5/15/2024 01:25 PM **Sample Type:** Grab

	Analyte	Method	Sample Result		DF	RPL	Qualifier	Test Date/Time	Analyst	Read Date/Time	Analyst
	Total Suspended Solids	SM 2540 D	88.0	mg/L	10	5		5/16/2024 08:54 PM	MLH		
[1]	pH (Lab)	SM 4500 H+B	7.6	SU	1	1	Q	5/15/2024 02:59 PM	CS		
	Carbonaceous Biochemical Oxygen Demand (CBOD)	SM 5210 B	95	mg/L	1	1	B	5/15/2024 03:52 PM	CS	5/20/2024 12:39 PM	CS

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA

[2] Parameter is approved under TCEQ Drinking Water Program

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Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240515.08

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

General Term Definition

%REC	Percent Recovery	LOQ	Limit of Quantitation
%RPD	Relative Percent Difference	LR	Low Range
CCB	Continuing Calibration Verification	MBLK	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
D.F.	Dilution Factor	MS	Matrix Spike
HR	High Range	MSD	Matrix Spike Duplicate
ICB	Initial Calibration Blank	ND	Not Detected
ICV	Initial Calibration Verification	QC	Quality Control
LCS	Laboratory Control Spike	RPL	Reporting Limit
LCSD	Laboratory Control Spike Duplicate		

Qualifier Definition

B	Blank contamination; Analyte detected above the method reporting limit in an associated blank
Q	Sample held beyond the accepted holding time

Order Comments

240515.08	N/A

QC Results

QCBatch ID	QC ID	Parameter	% Recovery / RPD	Control Limits
QC240516.002	240514.07-01: Duplicate 2	pH (Lab)	0.13	
	240514.11-01: Duplicate 1	pH (Lab)	0.29	
	240515.02-01: Duplicate 3	pH (Lab)	0.0	
	240515.08-01: Duplicate 4	pH (Lab)	0.0	
	CCV 1	pH (Lab)	100.29	

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
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Seguin, TX 78155
(830)379-5822 ext 256

	ICV 1	pH (Lab)	100.43	
QC240516.006	240515.01-03: Duplicate 2	Total Suspended Solids	1.14	0 - 15
	240515.01-04: Duplicate 3	Total Suspended Solids	0.0	0 - 15
	240515.01-05: Duplicate 4	Total Suspended Solids	2.35	0 - 15
	240515.02-04: Duplicate 1	Total Suspended Solids	0.0	0 - 15
	240515.05-02: Duplicate 5	Total Suspended Solids	1.68	0 - 15
	240515.06-01: Duplicate 6	Total Suspended Solids	0.0	0 - 15
	240515.06-02: Duplicate 7	Total Suspended Solids	2.01	0 - 15
	LCS 1	Total Suspended Solids	105.0	75 - 125
	LCS 2	Total Suspended Solids	89.8	75 - 125
	LCS 3	Total Suspended Solids	102.0	75 - 125
	LCS 4	Total Suspended Solids	105.0	75 - 125
	LCS 5	Total Suspended Solids	103.0	75 - 125
	LCS 6	Total Suspended Solids	107.0	75 - 125
	LCS 7	Total Suspended Solids	106.0	75 - 125
	MBLK 1	Total Suspended Solids	0.0	0 - 0.5
	MBLK 2	Total Suspended Solids	0.0	0 - 0.5
	MBLK 3	Total Suspended Solids	0.0	0 - 0.5
	MBLK 4	Total Suspended Solids	0.0	0 - 0.5
	MBLK 5	Total Suspended Solids	0.0	0 - 0.5
	MBLK 6	Total Suspended Solids	0.0	0 - 0.5
	MBLK 7	Total Suspended Solids	0.0	0 - 0.5
QC240517.002	240514.06-03: Duplicate 2	Carbonaceous Biochemical Oxygen Demand (CBOD)	1.5	0 - 15.4
	240514.09-03: Duplicate 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	2.14	0 - 15.4
	CBOD GGA 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	112.12	84.6 - 115.4
	Dilution Blank 1	Carbonaceous Biochemical Oxygen Demand (CBOD)	0.0	
QC240520.002	240509.16-01: MS 1	Ammonia as N	105.5	90 - 110
	240509.16-01: MSD 1	Ammonia as N	2.47	0 - 15
	240514.08-01: MS 2	Ammonia as N	111.39	90 - 110
	240514.08-01: MSD 2	Ammonia as N	0.42	0 - 15
	240514.10-01: MS 3	Ammonia as N	98.68	90 - 110
	240514.10-01: MSD 3	Ammonia as N	2.74	0 - 15

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

	240515.03-03: MS 4	Ammonia as N	96.23	90 - 110
	240515.03-03: MSD 4	Ammonia as N	9.37	0 - 15
	240516.05-01: MS 5	Ammonia as N	100.93	90 - 110
	240516.05-01: MSD 5	Ammonia as N	3.31	0 - 15
	LCS 1	Ammonia as N	96.58	90 - 110
	LCS 2	Ammonia as N	100.2	90 - 110
	LCS 3	Ammonia as N	100.34	90 - 110
	LCS 4	Ammonia as N	96.03	90 - 110
	LCS 5	Ammonia as N	97.06	90 - 110
	LCSD 1	Ammonia as N	4.71	0 - 15
	LCSD 2	Ammonia as N	4.7	0 - 15
	LCSD 3	Ammonia as N	4.63	0 - 15
	LCSD 4	Ammonia as N	1.95	0 - 15
	LCSD 5	Ammonia as N	2.13	0 - 15
	LOQ 1	Ammonia as N	95.22	70 - 130
	LOQ 2	Ammonia as N	85.94	70 - 130
	MBLK 1	Ammonia as N	-0.04	0 - 0.1
	MBLK 2	Ammonia as N	-0.05	0 - 0.1
	MBLK 3	Ammonia as N	-0.04	0 - 0.1
	MBLK 4	Ammonia as N	-0.06	0 - 0.1
	MBLK 5	Ammonia as N	-0.05	0 - 0.1
QC240521.006	240509.16-01: MS 1	Total Phosphorus	105.68	80 - 120
	240509.16-01: MSD 1	Total Phosphorus	1.19	0 - 15
	240514.08-01: MS 2	Total Phosphorus	107.02	80 - 120
	240514.08-01: MSD 2	Total Phosphorus	0.96	0 - 15
	240514.10-01: MS 3	Total Phosphorus	106.18	80 - 120
	240514.10-01: MSD 3	Total Phosphorus	0.02	0 - 15
	240516.04-01: MS 4	Total Phosphorus	104.0	80 - 120
	240516.04-01: MSD 4	Total Phosphorus	0.03	0 - 15
	LCS 1	Total Phosphorus	102.31	75 - 125
	LCS 2	Total Phosphorus	100.46	75 - 125
	LCS 3	Total Phosphorus	101.52	75 - 125
	LCS 4	Total Phosphorus	102.19	75 - 125
	LCSD 1	Total Phosphorus	1.05	0 - 15
	LCSD 2	Total Phosphorus	0.35	0 - 15

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
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LCSD 3	Total Phosphorus	1.18	0 - 15
LCSD 4	Total Phosphorus	1.48	0 - 15
LOQ 1	Total Phosphorus	95.65	75 - 125
LOQ 2	Total Phosphorus	93.45	75 - 125
MBLK 1	Total Phosphorus	0.0	
MBLK 2	Total Phosphorus	0.0	
MBLK 3	Total Phosphorus	0.0	
MBLK 4	Total Phosphorus	0.0	

NA = not analyzed

[1] Parameter not available for NELAP accreditation at the GBRA
[2] Parameter is approved under TCEQ Drinking Water Program

933 East Court Street
Seguin, TX 78155
(830)379-5822 ext 256

Work Order: 240515.08

GUADALUPE-BLANCO RIVER AUTHORITY LABORATORY
CHAIN OF CUSTODY

NELAP ACCREDITED LABORATORY

933 E. Court Street, Seguin, TX 78155
Phone: (830) 379-5822 Fax: (830) 379-7478

Customer Information

Customer Acct.#: 421711	
Name: Seguin-WWTP Walnut Branch	**Billing Address:**
Address: PO Box 591, Seguin, Texas 78155	**Fax #:**
Phone #: 830-386-2573	**Email 1:**
Thermometer #: 24	**Email 2:**
Receipt Temp (°C) Observed / Corrected: 1.8 / 1.8	**Chlorine Strip GBRA Reagent #** / **Chlorine : Absent/ Present**
Ice: Yes / No (Circle One)	**pH Paper GBRA Reagent #:** 111522-04
# of Containers: 3	**Condition of Containers (Intact):** Yes / No (Circle One) — **Residual Chlorine (Total/Free) Results:**

Date Collected	Time Collected	Matrix WW=Wastewater DW=Drinking Water SW=Surface Water S=Soil/Sludge	Sx Vol. P=Plastic G=Glass	Sample Name/Description	TCEQ ID Number	Grab / Comp.	Analysis Requested	240515.08 GBRA Sample ID	Bottle I.D.#	pH	Type of Preservation
5/14/24	9 Am 8 Am	WW	4LP	Effluent		C	CBOD-TSS	-01			Ice
5/14/24	9 Am 8 Am	WW	1L-P	Effluent	0104Z4 - 11	C	NH3-Total Phos	-01		<2	H2SO4
5/15/24	8:15 Am	WW	1L-P	Influent		G	CBOD-TSS	-02			Ice

Sampler Name (Print): Trever Longcor — **Sampler Signature:** T Longcor

Released From: Trever Longcor	**Date/Time:** 5/15/24 1:25 pm	**Received By:**	**Date/Time:** 5/15/24 1325
Released From:	**Date/Time:**	**Received By:**	**Date/Time:**
Released From:	**Date/Time:**	**Received By:**	**Date/Time:**
Released From:	**Date/Time:**	**Received By:**	**Date/Time:**

NOTES / COMMENTS / SHIP TO:

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

07 May 2024

Seguin, City of
Rene Porras
101 E Klein
Seguin, TX 78155

Seguin, City of - WWTP

Enclosed are the results of analyses for samples received by the laboratory on 14-Feb-24 09:45. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 11

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia

Laura Bonjonia For Monica Smith
Client Services Representative

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of	
Project:	Seguin, City of - WWTP	**Reported:**
Work Order:	24B2107	07-May-24 17:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent	24B2107-01	Water	13-Feb-24 08:00	14-Feb-24 09:45
Influent	24B2107-02	Water	13-Feb-24 08:00	14-Feb-24 09:45

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

ENVIRODYNE
LABORATORIES INC

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin) | LAB NUMBER: 24B2107-01A

DATE COLLECTED: 13-Feb-24 | DATE RECEIVED: 14-Feb-24

DATE COMPLETED: 08-Mar-24 | SAMPLED BY: RP

LOCATION: Comp EFFLUENT

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	45.3	EPA 200.8	VEJ	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.8	VEJ	5.0
TOTAL ARSENIC (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL BARIUM (ug/l)	76.3	EPA 200.8	VEJ	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL CADMIUM (ug/l)	<1.0	EPA 200.8	VEJ	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.8	VEJ	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	SSJ	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	SSJ	3.0
TOTAL COPPER (ug/l)	2.8	EPA 200.8	VEJ	2.0
TOTAL LEAD (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL MERCURY (ug/l)	*< 0.005	245.1	SUB	<0.005
TOTAL NICKEL (ug/l)	3.2	EPA 200.8	VEJ	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.8	VEJ	5.0
TOTAL SILVER (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL ZINC (ug/l)	39.2	EPA 200.8	VEJ	5.0
AMENABLE CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL PHENOLS (ug/l)	* <10.0	420.1	SUB	10.0
FLUORIDE (ug/l)	700.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	9,990.0	EPA 353.1	SKP	SKP
TOTAL STRONTIUM (ug/l)	566.0	EPA 200.7	VEJ	
TOTAL VANADIUM (ug/l)	5.4	EPA 200.7	VEJ	

LAB REPRESENTATIVE

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by NELAC certified lab T104704233

ENVIRODYNE
LABORATORIES INC

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin) LAB NUMBER: 24B2107-01B

DATE COLLECTED: 13-Feb-24 DATE RECEIVED: 14-Feb-24

DATE COMPLETED: 18-Feb-24 SAMPLED BY: RP

LOCATION: EFFLUENT - Grab

PARAMETERS: VOLATILES	CONC.	DETECTION LIMITS (ug/l)
ACROLEIN (ug/l)	50.0 U	50.0
ACRYLONITRILE (ug/l)	50.0 U	50.0
CHLOROMETHANE (ug/l)	10.0 U	10.0
VINYL CHLORIDE (ug/l)	10.0 U	10.0
BROMOMETHANE (ug/l)	10.0 U	10.0
CHLOROETHANE (ug/l)	50.0 U	50.0
TRICHLOROFUOROMETHANE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
METHYLENE CHLORIDE (ug/l)	20.0 U	20.0
trans-1,2-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHANE (ug/l)	10.0 U	10.0
1,1,1-TRICHLOROETHANE (ug/l)	10.0 U	10.0
METHYL BROMIDE (ug/l)	10.0 U	10.0
METHYL CHLORIDE (ug/l)	10.0 U	10.0
CHLOROFORM (ug/l)	10.0 U	10.0
CARBON TETRACHLORIDE (ug/l)	2.0 U	2.0
1,2-DICHLOROETHANE (ug/l)	10.0 U	10.0
TRICHLOROETHANE (ug/l)	10.0 U	10.0
BENZENE (ug/l)	10.0 U	10.0
TRICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,2-DICHLOROPROPANE (ug/l)	10.0 U	10.0
DICHLOROBROMOMETHANE (ug/l)	10.0 U	10.0
1,3 DICHLOROPROPYLENE (ug/l)	10.0 U	10.0
TOLUENE (ug/l)	10.0 U	10.0
trans-1,3-DICHLOROPROPENE (ug/l)	10.0 U	10.0
1,1,2-TRICHLOROETHANE (ug/l)	10.0 U	10.0
TETRACHLOROETHYLENE (ug/l)	10.0 U	10.0
DIBROMOCHLOROMETHANE (ug/l)	10.0 U	10.0
CHLOROBENZENE (ug/l)	10.0 U	10.0
2-CHLOROETHYLVINYL ETHER (ug/l)	10.0 U	10.0
1,2-DIBROMOETHANE (ug/l)	2.0 U	2.0
ETHYLBENZENE (ug/l)	10.0 U	10.0
BROMOFORM (ug/l)	10.0 U	10.0
1,1,2,2-TETRACHLOROETHANE (ug/l)	10.0 U	10.0
TOTAL TRIHALOMETHANES (ug/l)	10.0 U	10.0
METHYL ETHYL KETONE (ug/l)	50.0 U	50.0
1,3 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,4 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,2 DICHLORBENZENE (ug/l)	10.0 U	10.0
XYLENE (ug/l)	10.0 U	10.0

LAB REPRESENTATIVE

Ref. EPA 624.1 (VOLATILES)
U - Analyte Not Detected at the Listed Detection Limit
J - Analyte Present but Below Detection Limit

ENVIRODYNE
LABORATORIES INC

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin)

LAB NUMBER: 2402107-01C

DATE COLLECTED: 13-Feb-24

DATE RECEIVED: 14-Feb-24

DATE COMPLETED: 22-Feb-24

SAMPLED BY: RP

LOCATION: EFFLUENT-Comp

PARAMETERS:

BASE/ NEUTRALS

ACENAPHTHENE (ug/l)	10.0 U
ACENAPHTHYLENE (ug/l)	10.0 U
ANTHRACENE (ug/l)	10.0 U
BENZIDINE (ug/l)	50.0 U
BENZO (a) ANTHRACENE (ug/l)	5.0 U
BENZO (a) PYRENE (ug/l)	5.0 U
BENZO (B) FLUORANTHENE (ug/l)	10.0 U
BENZO (GHI) PERYLENE (ug/l)	20.0 U
BENZO (k) FLUORANTHENE (ug/l)	5.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l)	10.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l)	10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l)	10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l)	10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l)	10.0 U
BUTYL BENZYL PHTHALATE (ug/l)	10.0 U
2-CHLORONAPHTHALENE (ug/l)	10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l)	10.0 U
CHRYSENE (ug/l)	5.0 U
DIBENZO (a,h) ANTHRACENE (ug/l)	5.0 U
1,2-DICHLOROBENZENE (ug/l)	10.0 U
1,3-DICHLOROBENZENE (ug/l)	10.0 U
(p)1,4-DICHLOROBENZENE (ug/l)	10.0 U
3,3-DICHLOROBENZIDINE (ug/l)	5.0 U
DIETHYL PHTHALATE (ug/l)	10.0 U
DIMETHYL PHTHALATE (ug/l)	10.0 U
DI-N-BUTYL PHTHALATE (ug/l)	10.0 U
DIBENZOFURAN (ug/l)	10.0 U
FLUORANTHENE (ug/l)	10.0 U
FLUORENE (ug/l)	10.0 U
HEXACHLOROBENZENE (ug/l)	5.0 U
HEXACHLOROBUTADIENE (ug/l)	10.0 U
HEXACHLOROETHANE (ug/l)	20.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l)	10.0 U
HEXACHLOROPHENE (ug/l)	10.0 U
IDENO (1,2,3,cd) PYRENE (ug/l)	5.0 U
1,2-Diphenyl Hydrazine (ug/l)	20.0 U
N-NITROSO-di-n-BUTYLAMINE (ug/l)	20.0 U
N-NITROSO-DI-ETHYLAMINE (ug/l)	20.0 U
ISOPHORONE (ug/l)	10.0 U
NAPHTHALENE (ug/l)	10.0 U
NITROBENZENE (ug/l)	10.0 U
N-NITROSO-di-n-PROPYLAMINE (ug/l)	20.0 U
N-NITROSODIPHENYLAMINE (ug/l)	20.0 U
N-NITROSODIMETHYLAMINE (ug/l)	50.0 U
PHENANTHRENE (ug/l)	10.0 U
PYRENE (ug/l)	10.0 U
1,2,4-TRICHLOROBENZENE (ug/l)	10.0 U
1,2,4,5-TETRACHLOROBENZENE (ug/l	20.0 U
2, 4-DINITROTOLUENE (ug/l)	10.0 U
2, 6-DINTROTOLUENE (ug/l)	10.0 U
2-METHYLNAPHTHALENE (ug/l)	10.0 U
Di-n-octyl PHTHALATE (ug/l)	10.0 U
PYRIDINE (ug/l)	20.0 U
p-CRESOL (ug/l)	10.0 U

ACID COMPOUNDS
EFFLUENT (Cont.)

2-CHLOROPHENOL (ug/l)	10.0 U
2,4-DICHLOROPHENOL (ug/l)	10.0 U
2,4-DIMETHYLPHENOL (ug/l)	10.0 U
4, 6-DINITRO-o-CRESOL (ug/l)	50.0 U
4,6-DINITRO-2-METHYLPHENOL (ug/l)	20.0 U
2,4-DINITROPHENOL (ug/l)	50.0 U
2-NITROPHENOL (ug/l)	20.0 U
4-NITROPHENOL (ug/l)	50.0 U
p-CHLORO-m-CRESOL (ug/l)	10.0 U
2-METHYLPHENOL (ug/l)	10.0 U
PENTACHLOROPHENOL (ug/l)	5.0 U
PHENOL (ug/l)	16.0
2,4,6-TRICHLOROPHENOL (ug/l)	10.0 U
2,4,5-TRICHLOROPHENOL (ug/l)	50.0 U
PENTACHLOROBENZENE (ug/l)	20.0 U
4-CHLORO-3-METHYL PHENOL (ug/l)	10.0 U
NONYLPHENOL (ug/l)	5.0 U

LAB REPRESENTATIVE

Analyzed by NELAC certified lab T104704215
Ref. EPA-625 (Base/Neutrals & Acids)
U - Analyte Not Detected at the listed Detection Limit
J - Analyte Present but below Detection Limit

11011 Brooklet Drive, Suite #230 Houston, Texas 77099 281.568.7880

ENVIRODYNE
LABORATORIES INC

CERTIFICATE OF ANALYSIS

CLIENT:	**WALNUT BRANCH WWTP** (City of Seguin)	LAB NUMBER:	24B2107-01D
DATE COLLECTED:	13-Feb-24	DATE RECEIVED:	14-Feb-24
DATE COMPLETED:	20-Feb-24	SAMPLED BY:	RP

SAMPLE TYPE:	
LOCATION:	EFFLUENT
	Comp
PARAMETERS:	PESTICIDES-PCB

EPA 1657*	
Guthion (Azinphos Methyl) (ug/l)	< 0.10
Chlorpyrifos (ug/l)	< 0.05
Demeton -O (ug/l)	< 0.20
Demeton -S (ug/l)	< 0.20
Diazinon (ug/l)	< 0.5
Disulfoton (ug/l)	< 0.5
EPN (ug/l)	< 0.5
Ethion (ug/l)	< 0.5
Ethyl Parathion (ug/l)	< 0.1
Malathion (ug/l)	< 0.10
Methyl Parathion (ug/l)	< 0.1
Parathion (ug/l)	< 0.10
EPA 608*	
Aldrin (ug/l)	< 0.01
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05
Beta - BHC (ug/l)	< 0.05

	EFFLUENT
	Comp
	PESTICIDES-PCB
EPA 608*	
Chlordane (ug/l)	< 0.15
4-4' - DDD (ug/l)	< 0.10
4-4' - DDE (ug/l)	< 0.10
4-4' - DDT (ug/l)	< 0.02
Dieldrin (ug/l)	< 0.02
Dicofol (ug/l)	< 1.0
Endosulfan I (ug/l)	< 0.01
Endosulfan II (ug/l)	< 0.02
Endosulfan Sulfate (ug/l)	< 0.10
Endrin (ug/l)	< 0.02
Gamma-BHC (Lindane) (ug/l)	< 0.05
Heptachlor (ug/l)	< 0.01
Heptaclor Epoxide (ug/l)	< 0.01
Methoxychlor (ug/l)	< 0.20
Mirex (ug/l)	< 0.02
Total PCBs (ug/l)	< 0.2
PCB-1016 (ug/l)	< 0.2
PCB-1221 (ug/l)	< 0.2
PCB-1232 (ug/l)	< 0.2
PCB-1242 (ug/l)	< 0.2
PCB-1248 (ug/l)	< 0.2
PCB-1254 (ug/l)	< 0.2
PCB-1260 (ug/l)	< 0.2
Toxaphene (ug/l)	< 0.3
Endrin Aldehyde (ug/l)	< 0.10
Delta - BHC (ug/l)	< 0.05
EPA 632*	
Diuron (ug/l)	<0.09
EPA 8151*	
2,4-D (ug/l)	< 0.7
2,4,5-TP (Silvex) (ug/l)	< 0.3
EPA 625*	
Carbaryl (ug/l)	< 5.0

*Analyzed by NELAP certified lab T104704231

LAB REPRESENTATIVE

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ENVIRODYNE
LABORATORIES INC

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin) | LAB NUMBER: 24B2107-02A

DATE COLLECTED: 13-Feb-24 | DATE RECEIVED: 14-Feb-24

DATE COMPLETED: 08-Mar-24 | SAMPLED BY: RP

LOCATION: Comp INFLUENT

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	204.0	EPA 200.8	VEJ	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.8	VEJ	5.0
TOTAL ARSENIC (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL BARIUM (ug/l)	86.7	EPA 200.8	VEJ	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL CADMIUM (ug/l)	<1.0	EPA 200.8	VEJ	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.8	VEJ	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	SSJ	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	SSJ	3.0
TOTAL COPPER (ug/l)	10.1	EPA 200.8	VEJ	2.0
TOTAL LEAD (ug/l)	0.6	EPA 200.8	VEJ	0.5
TOTAL MERCURY (ug/l)	*< 0.005	245.1	SUB	<0.005
TOTAL NICKEL (ug/l)	3.6	EPA 200.8	VEJ	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.8	VEJ	5.0
TOTAL SILVER (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.8	VEJ	0.5
TOTAL ZINC (ug/l)	42.3	EPA 200.8	VEJ	5.0
AMENABLE CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL PHENOLS (ug/l)	* <10.0	420.1	SUB	10.0
FLUORIDE (ug/l)	550.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	<100.0	EPA 353.1	SKP	SKP
TOTAL STRONTIUM (ug/l)	704.0	EPA 200.7	VEJ	
TOTAL VANADIUM (ug/l)	8.4	EPA 200.7	VEJ	

LAB REPRESENTATIVE

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by NELAC certified lab T104704233

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ENVIRODYNE
LABORATORIES INC

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin)
LAB NUMBER: 24B2107-02B

DATE COLLECTED: 13-Feb-24
DATE RECEIVED: 14-Feb-24

DATE COMPLETED: 18-Feb-24
SAMPLED BY: RP

LOCATION: INFLUENT- Grab

PARAMETERS: VOLATILES	CONC.	DETECTION LIMITS (ug/l)
ACROLEIN (ug/l)	50.0 U	50.0
ACRYLONITRILE (ug/l)	50.0 U	50.0
CHLOROMETHANE (ug/l)	10.0 U	10.0
VINYL CHLORIDE (ug/l)	10.0 U	10.0
BROMOMETHANE (ug/l)	10.0 U	10.0
CHLOROETHANE (ug/l)	50.0 U	50.0
TRICHLOROFUOROMETHANE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
METHYLENE CHLORIDE (ug/l)	20.0 U	20.0
trans-1,2-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHANE (ug/l)	10.0 U	10.0
1,1,1-TRICHLOROETHANE (ug/l)	10.0 U	10.0
METHYL BROMIDE (ug/l)	10.0 U	10.0
METHYL CHLORIDE (ug/l)	10.0 U	10.0
CHLOROFORM (ug/l)	10.0 U	10.0
CARBON TETRACHLORIDE (ug/l)	2.0 U	2.0
1,2-DICHLOROETHANE (ug/l)	10.0 U	10.0
TRICHLOROETHANE (ug/l)	10.0 U	10.0
BENZENE (ug/l)	10.0 U	10.0
TRICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,2-DICHLOROPROPANE (ug/l)	10.0 U	10.0
DICHLOROBROMOMETHANE (ug/l)	10.0 U	10.0
1,3 DICHLOROPROPYLENE (ug/l)	10.0 U	10.0
TOLUENE (ug/l)	10.0 U	10.0
trans-1,3-DICHLOROPROPENE (ug/l)	10.0 U	10.0
1,1,2-TRICHLOROETHANE (ug/l)	10.0 U	10.0
TETRACHLOROETHYLENE (ug/l)	10.0 U	10.0
DIBROMOCHLOROMETHANE (ug/l)	10.0 U	10.0
CHLOROBENZENE (ug/l)	10.0 U	10.0
2-CHLOROETHYLVINYL ETHER (ug/l)	10.0 U	10.0
1,2-DIBROMOETHANE (ug/l)	2.0 U	2.0
ETHYLBENZENE (ug/l)	10.0 U	10.0
BROMOFORM (ug/l)	10.0 U	10.0
1,1,2,2-TETRACHLOROETHANE (ug/l)	10.0 U	10.0
TOTAL TRIHALOMETHANES (ug/l)	10.0 U	10.0
METHYL ETHYL KETONE (ug/l)	50.0 U	50.0
1,3 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,4 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,2 DICHLORBENZENE (ug/l)	10.0 U	10.0
XYLENE (ug/l)	10.0 U	10.0

LAB REPRESENTATIVE

Ref. EPA 624.1 (VOLATILES)
U - Analyte Not Detected at the Listed Detection Limit
J - Analyte Present but Below Detection Limit

11011 Brooklet Drive, Suite #230 Houston, Texas 77099 281.568.7880

ENVIRODYNE
LABORATORIES INC

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin)
LAB NUMBER: 24B2107-02C

DATE COLLECTED: 13-Feb-24
DATE RECEIVED: 14-Feb-24

DATE COMPLETED: 22-Feb-24
SAMPLED BY: RP

LOCATION: INFLUENT-Comp

PARAMETERS:
BASE/ NEUTRALS

ACENAPHTHENE (ug/l)	10.0 U
ACENAPHTHYLENE (ug/l)	10.0 U
ANTHRACENE (ug/l)	10.0 U
BENZIDINE (ug/l)	50.0 U
BENZO (a) ANTHRACENE (ug/l)	5.0 U
BENZO (a) PYRENE (ug/l)	5.0 U
BENZO (B) FLUORANTHENE (ug/l)	10.0 U
BENZO (GHI) PERYLENE (ug/l)	20.0 U
BENZO (k) FLUORANTHENE (ug/l)	5.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l)	10.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l)	10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l)	10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l)	10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l)	10.0 U
BUTYL BENZYL PHTHALATE (ug/l)	10.0 U
2-CHLORONAPHTHALENE (ug/l)	10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l)	10.0 U
CHRYSENE (ug/l)	5.0 U
DIBENZO (a,h) ANTHRACENE (ug/l)	5.0 U
1,2-DICHLOROBENZENE (ug/l)	10.0 U
1,3-DICHLOROBENZENE (ug/l)	10.0 U
(p)1,4-DICHLOROBENZENE (ug/l)	10.0 U
3,3-DICHLOROBENZIDINE (ug/l)	5.0 U
DIETHYL PHTHALATE (ug/l)	10.0 U
DIMETHYL PHTHALATE (ug/l)	10.0 U
DI-N-BUTYL PHTHALATE (ug/l)	10.0 U
DIBENZOFURAN (ug/l)	10.0 U
FLUORANTHENE (ug/l)	10.0 U
FLUORENE (ug/l)	10.0 U
HEXACHLOROBENZENE (ug/l)	5.0 U
HEXACHLOROBUTADIENE (ug/l)	10.0 U
HEXACHLOROETHANE (ug/l)	20.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l)	10.0 U
HEXACHLOROPHENE (ug/l)	10.0 U
IDENO (1,2,3,cd) PYRENE (ug/l)	5.0 U
1,2-Diphenyl Hydrazine (ug/l)	20.0 U
N-NITROSO-di-n-BUTYLAMINE (ug/l)	20.0 U
N-NITROSO-DI-ETHYLAMINE (ug/l)	20.0 U
ISOPHORONE (ug/l)	10.0 U
NAPHTHALENE (ug/l)	10.0 U
NITROBENZENE (ug/l)	10.0 U
N-NITROSO-di-n-PROPYLAMINE (ug/l)	20.0 U
N-NITROSODIPHENYLAMINE (ug/l)	20.0 U
N-NITROSODIMETHYLAMINE (ug/l)	50.0 U
PHENANTHRENE (ug/l)	10.0 U
PYRENE (ug/l)	10.0 U
1,2,4-TRICHLOROBENZENE (ug/l)	10.0 U
1,2,4,5-TETRACHLOROBENZENE (ug/l	20.0 U
2, 4-DINITROTOLUENE (ug/l)	10.0 U
2, 6-DINTROTOLUENE (ug/l)	10.0 U
2-METHYLNAPHTHALENE (ug/l)	10.0 U
Di-n-octyl PHTHALATE (ug/l)	10.0 U
PYRIDINE (ug/l)	20.0 U
p-CRESOL (ug/l)	10.0 U

ACID COMPOUNDS
INFLUENT (Cont.)

2-CHLOROPHENOL (ug/l)	10.0 U
2,4-DICHLOROPHENOL (ug/l)	10.0 U
2,4-DIMETHYLPHENOL (ug/l)	10.0 U
4, 6-DINITRO-o-CRESOL (ug/l)	50.0 U
4,6-DINITRO-2-METHYLPHENOL (ug/l)	20.0 U
2,4-DINITROPHENOL (ug/l)	50.0 U
2-NITROPHENOL (ug/l)	20.0 U
4-NITROPHENOL (ug/l)	50.0 U
p-CHLORO-m-CRESOL (ug/l)	10.0 U
2-METHYLPHENOL (ug/l)	10.0 U
PENTACHLOROPHENOL (ug/l)	5.0 U
PHENOL (ug/l)	16.0
2,4,6-TRICHLOROPHENOL (ug/l)	10.0 U
2,4,5-TRICHLOROPHENOL (ug/l)	50.0 U
PENTACHLOROBENZENE (ug/l)	20.0 U
4-CHLORO-3-METHYL PHENOL (ug/l)	10.0 U
NONYLPHENOL (ug/l)	5.0 U

LAB REPRESENTATIVE

Analyzed by NELAC certified lab T104704215
Ref. EPA-625 (Base/Neutrals & Acids)
U - Analyte Not Detected at the listed Detection Limit
J - Analyte Present but below Detection Limit

ENVIRODYNE
LABORATORIES INC

CERTIFICATE OF ANALYSIS

CLIENT:	**WALNUT BRANCH WWTP** (City of Seguin)	LAB NUMBER:	24B2107-02D
DATE COLLECTED:	13-Feb-24	DATE RECEIVED:	14-Feb-24
DATE COMPLETED:	20-Feb-24	SAMPLED BY:	RP

SAMPLE TYPE:			
LOCATION:	INFLUENT		INFLUENT
	Comp		Comp
PARAMETERS:	PESTICIDES-PCB		PESTICIDES-PCB
EPA 1657*		**EPA 608***	
Guthion (Azinphos Methyl) (ug/l)	< 0.10	Chlordane (ug/l)	< 0.15
Chlorpyrifos (ug/l)	< 0.05	4-4' - DDD (ug/l)	< 0.10
Demeton -O (ug/l)	< 0.20	4-4' - DDE (ug/l)	< 0.10
Demeton -S (ug/l)	< 0.20	4-4' - DDT (ug/l)	< 0.02
Diazinon (ug/l)	< 0.5	Dieldrin (ug/l)	< 0.02
Disulfoton (ug/l)	< 0.5	Dicofol (ug/l)	< 1.0
EPN (ug/l)	< 0.5	Endosulfan I (ug/l)	< 0.01
Ethion (ug/l)	< 0.5	Endosulfan II (ug/l)	< 0.02
Ethyl Parathion (ug/l)	< 0.1	Endosulfan Sulfate (ug/l)	< 0.10
Malathion (ug/l)	< 0.10	Endrin (ug/l)	< 0.02
Methyl Parathion (ug/l)	< 0.1	Gamma-BHC (Lindane) (ug/l)	< 0.05
Parathion (ug/l)	< 0.10	Heptachlor (ug/l)	< 0.01
EPA 608*		Heptaclor Epoxide (ug/l)	< 0.01
Aldrin (ug/l)	< 0.01	Methoxychlor (ug/l)	< 0.20
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05	Mirex (ug/l)	< 0.02
Beta - BHC (ug/l)	< 0.05	Total PCBs (ug/l)	< 0.2
		PCB-1016 (ug/l)	< 0.2
		PCB-1221 (ug/l)	< 0.2
		PCB-1232 (ug/l)	< 0.2
		PCB-1242 (ug/l)	< 0.2
		PCB-1248 (ug/l)	< 0.2
		PCB-1254 (ug/l)	< 0.2
		PCB-1260 (ug/l)	< 0.2
		Toxaphene (ug/l)	< 0.3
		Endrin Aldehyde (ug/l)	< 0.10
		Delta - BHC (ug/l)	< 0.05
		EPA 632*	
		Diuron (ug/l)	<0.09
		EPA 8151*	
		2,4-D (ug/l)	< 0.7
		2,4,5-TP (Silvex) (ug/l)	< 0.3
		EPA 625*	
		Carbaryl (ug/l) .	< 5.0

*Analyzed by NELAP certified lab T104704231

LAB REPRESENTATIVE

11011 Brooklet Drive, Suite #230 Houston, Texas 77099 281.568.7880

EMSL Analytical, Inc.
5950 Fairbanks N. Houston Rd. Houston, TX 77040
Phone/Fax: (713) 686-3635 / (713) 686-3645
http://www.EMSL.com / houstonlab@emsl.com

EMSL Order ID: 152401017
Customer ID: ENDY62
Customer PO:
Project ID:

Attn: Laura Bonjonia
Envirodyne Laboratories, Inc.
11011 Brooklet
Suite 230
Houston, TX 77099
Proj: 24B2106/24B2107

Phone: (281) 568-7880
Fax: (281) 568-8004
Received: 02/20/2024
Analyzed: 03/01/2024

Test Report: Determination of Asbestos Structures > 10µm in Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID / Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS: Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
Effluent 24B2106 152401017-0001	2/20/2024 05:32 PM	50	1282	0.1397	None Detected	ND	0.18	<0.18	0.00 - 0.68
Collection Date/Time:	*02/13/2024 08:00 AM*								
Influent 24B2106 152401017-0002	2/20/2024 05:33 PM	10	1282	0.2540	None Detected	ND	0.50	<0.50	0.00 - 1.90
Collection Date/Time:	*02/13/2024 08:00 AM*								
Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.									
Effluent 24B2107 152401017-0003	2/20/2024 05:48 PM	50	1282	0.1397	None Detected	ND	0.18	<0.18	0.00 - 0.68
Collection Date/Time:	*02/13/2024 08:00 AM*								
Influent 24B2107 152401017-0004	2/20/2024 05:50 PM	10	1282	0.2540	None Detected	ND	0.50	<0.50	0.00 - 1.90
Collection Date/Time:	*02/13/2024 08:00 AM*								
Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.									

Analyst(s)
Michelle Leggett (4)

Michelle Leggett, Laboratory Manager
or Other Approved Signatory

Any questions please contact Michelle Leggett.

Initial report from: 04/03/2024 11:24:06

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025
TX Certification #T104704527-22-9

Report Date: February 28, 2024

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste 230
Houston, TX 77099-3543

Field Custody: Client
Client/Field ID: 24B2107
Effluent
Sample Collection: 02-12/13-24/0900-0800
Lab ID No: 24.3637
Custody Date: 02-20-24/1025
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Uranium	pCi/l	0.0 ± 0.1	2-26-24/1624	EPA 908.0	0.3
Uranium	ug/l	0.0 ± 0.1	Calc	Calc	Calc

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025
TX Certification #T104704527-22-9

Report Date: February 28, 2024

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste 230
Houston, TX 77099-3543

Field Custody: Client
Client/Field ID: 24B2107
Influent
Sample Collection: 02-12/13-24/0900-0800
Lab ID No: 24.3638
Custody Date: 02-20-24/1025
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Uranium	pCi/l	0.3 ± 0.2	2-26-24/1624	EPA 908.0	0.5
Uranium	ug/l	0.4 ± 0.3	Calc	Calc	Calc

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	24B2107

Reported:
07-May-24 17:15

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B4616 - Inorganics										
Blank (B4B4616-BLK1)				Prepared & Analyzed: 19-Feb-24						
Nitrate-N	<0.50	0.50	mg/L							
LCS (B4B4616-BS1)				Prepared & Analyzed: 19-Feb-24						
Nitrate-N	2.86		mg/L	3.00		95.3	90-110			
Matrix Spike (B4B4616-MS1)	**Source: 24B1898-03**			Prepared & Analyzed: 19-Feb-24						
Nitrate-N	33.6	5.00	mg/L	30.0	ND	112	80-120			
Matrix Spike Dup (B4B4616-MSD1)	**Source: 24B1898-03**			Prepared & Analyzed: 19-Feb-24						
Nitrate-N	33.3	5.00	mg/L	30.0	ND	111	80-120	0.897	20	
Batch B4B5579 - Inorganics										
Blank (B4B5579-BLK1)				Prepared & Analyzed: 29-Feb-24						
Fluoride	<0.10	0.10	mg/L							
LCS (B4B5579-BS1)				Prepared & Analyzed: 29-Feb-24						
Fluoride	0.50		mg/L	0.500		101	90-110			
Matrix Spike (B4B5579-MS1)	**Source: 24B2105-01**			Prepared & Analyzed: 29-Feb-24						
Fluoride	1.16	0.20	mg/L	1.00	ND	116	80-120			
Matrix Spike Dup (B4B5579-MSD1)	**Source: 24B2105-01**			Prepared & Analyzed: 29-Feb-24						
Fluoride	1.20	0.20	mg/L	1.00	ND	120	80-120	3.38	20	

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	24B2107
Reported:	07-May-24 17:15

Metals - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B4618 - Inorganics										
Blank (B4B4618-BLK1)				Prepared & Analyzed: 19-Feb-24						
Chromium, Hexavalent	<1.0	1.0	ug/L							
LCS (B4B4618-BS1)				Prepared & Analyzed: 19-Feb-24						
Chromium, Hexavalent	47.9		ug/L	50.0		95.8	95-105			
Matrix Spike (B4B4618-MS1)	**Source: 24B2106-01**			Prepared & Analyzed: 19-Feb-24						
Chromium, Hexavalent	47.0	1.0	ug/L	50.0	ND	94.0	80-120			
Matrix Spike Dup (B4B4618-MSD1)	**Source: 24B2106-01**			Prepared & Analyzed: 19-Feb-24						
Chromium, Hexavalent	47.0	1.0	ug/L	50.0	ND	94.0	80-120	0.00	20	

Envirodyne Laboratories, Inc.

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of	
Project:	Seguin, City of - WWTP	**Reported:**
Work Order:	24B2107	07-May-24 17:15

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C4606 - Metals - EPA 200.2										
Blank (B4C4606-BLK1)				Prepared: 07-Mar-24 Analyzed: 08-Mar-24						
Barium	<5.0	5.0	ug/L							
Aluminum	<5.0	5.0	"							
Strontium	<5.0	5.0	"							
LCS (B4C4606-BS1)				Prepared: 07-Mar-24 Analyzed: 08-Mar-24						
Barium	<5.0	5.0	ug/L		<5.0		85-115	0		
Aluminum	<5.0	5.0	"		<5.0		85-115	0		
Strontium	44.2		"	50.0		88.4	85-115			
Matrix Spike (B4C4606-MS1)	**Source: 24B2986-02**			Prepared: 07-Mar-24 Analyzed: 08-Mar-24						
Barium	<5.0	5.0	ug/L		<5.0		70-130	0		
Aluminum	<5.0	5.0	"		<5.0		70-130	0		
Strontium	293	10.0	"	75.0	207	114	70-130			
Matrix Spike Dup (B4C4606-MSD1)	**Source: 24B2986-02**			Prepared: 07-Mar-24 Analyzed: 08-Mar-24						
Aluminum	<5.0	5.0	ug/L		<5.0		70-130	0	20	
Barium	<5.0	5.0	"		<5.0		70-130	0	20	
Strontium	292	10.0	"	75.0	207	113	70-130	0.205	20	

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	24B2107

Reported:
07-May-24 17:15

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2957 - Metals - EPA 200.2										
Blank (B4C2957-BLK1)				Prepared: 28-Feb-24 Analyzed: 29-Feb-24						
Chromium	<2.0	2.0	ug/L							
Silver	<0.5	0.5	"							
Cadmium	4.4	0.50	"							B
Beryllium	<0.5	0.5	"							
Nickel	<0.5	0.5	"							
Arsenic	<0.5	0.5	"							
Thallium	<0.5	0.5	"							
Copper	<0.5	0.5	"							
Lead	<0.5	0.5	"							
Vanadium	<2.0	2.0	"							
Selenium	<2.0	2.0	"							
Zinc	<2.0	2.0	"							
Antimony	<0.5	0.5	"							
LCS (B4C2957-BS1)				Prepared: 28-Feb-24 Analyzed: 29-Feb-24						
Arsenic	74.4		ug/L	75.0		99.2	85-115			
Beryllium	70.9		"	75.0		94.5	85-115			
Cadmium	69		"	75.0		91.5	85-115			B
Chromium	68.0		"	75.0		90.6	85-115			
Vanadium	71.4		"	75.0		95.3	85-115			
Lead	71		"	75.0		95.1	85-115			
Thallium	69.9		"	75.0		93.2	85-115			
Nickel	72.1		"	75.0		96.2	85-115			
Silver	75		"	75.0		100	85-115			
Copper	72.9		"	75.0		97.2	85-115			
Selenium	73.8		"	75.0		98.5	85-115			
Zinc	72.5		"	75.0		96.7	85-115			
Antimony	67.3		"	75.0		89.8	85-115			

Envirodyne Laboratories, Inc.

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	24B2107

Reported:
07-May-24 17:15

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C2957 - Metals - EPA 200.2										
Matrix Spike (B4C2957-MS1)	**Source: 24B2106-01**			Prepared: 28-Feb-24 Analyzed: 07-Mar-24						
Vanadium	116	2.0	ug/L	100	ND	116	70-130			
Thallium	91.2	0.5	"	100	0.313	90.9	70-130			
Silver	94	0.5	"	100	ND	93.5	70-130			
Lead	91	0.5	"	100	0.46	91.0	70-130			
Cadmium	88	0.50	"	100	0.31	88.0	70-130			B
Copper	95.8	0.5	"	100	3.32	92.5	70-130			
Nickel	97.7	0.5	"	100	3.50	94.3	70-130			
Beryllium	90.6	0.5	"	100	0.281	90.3	70-130			
Chromium	86.5	2.0	"	100	ND	86.5	70-130			
Arsenic	103	0.5	"	100	ND	103	70-130			
Zinc	132	2.0	"	100	47.0	85.1	70-130			
Selenium	98.3	2.0	"	100	ND	98.3	70-130			
Antimony	104	0.5	"	100	ND	104	70-130			
Matrix Spike Dup (B4C2957-MSD1)	**Source: 24B2106-01**			Prepared: 28-Feb-24 Analyzed: 29-Feb-24						
Chromium	87.9	2.0	ug/L	100	ND	87.9	70-130	1.62	20	
Vanadium	117	2.0	"	100	ND	117	70-130	0.539	20	
Copper	93.3	0.5	"	100	3.32	90.0	70-130	2.65	20	
Thallium	91.6	0.5	"	100	0.313	91.3	70-130	0.394	20	
Silver	95	0.5	"	100	ND	94.6	70-130	1.14	20	
Lead	92	0.5	"	100	0.46	91.9	70-130	0.894	20	
Beryllium	93.5	0.5	"	100	0.281	93.2	70-130	3.14	20	
Nickel	96.8	0.5	"	100	3.50	93.3	70-130	0.969	20	
Arsenic	102	0.5	"	100	ND	102	70-130	0.923	20	
Cadmium	92	0.50	"	100	0.31	91.6	70-130	3.98	20	B
Zinc	129	2.0	"	100	47.0	81.7	70-130	2.62	20	
Selenium	99.0	2.0	"	100	ND	99.0	70-130	0.761	20	
Antimony	104	0.5	"	100	ND	104	70-130	0.216	20	

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of	
Project:	Seguin, City of - WWTP	**Reported:**
Work Order:	24B2107	07-May-24 17:15

Notes and Definitions

L	Analyzed by third party laboratory
B	Target detected in method blank
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

24B2107

TCEQ Certification # T104704265

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

Page ______ Of ______

Analysis Request and Chain of Custody Record

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras
Phone: 830-401-2411
Email: 830-401-2324

Project No. Table II and III(Jan-Jun)
Client/Project: Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	EFFLUENT-Comp	2-12/13-24 9am to 8am		X	500ml-P	Liquid	ICE, HNO3	Sb,As,Be,C d,C r,C u,Hg,Ni,Se,Ag,Tl, I,Zn,Al, Ba, Pb				
	EFFLUENT-Grab	2-13-24 8:20am	X		1 Lt-Amb	Liquid	ICE H2SO4	Phenol				
	EFFLUENT-Grab	2-13-24 8:22am	X		250 ml-P	Liquid	ICE, NaOH	Cyanide (Total & Amenable)				
	EFFLUENT-Grab	2-13-24 8:25am	X		40 ml Vial	Liquid	ICE, HCl	VOC (EPA 624).I				
	EFFLUENT-Comp	2-12/13-24 9am to 8am		X	3(2) 1 Lt-Amb	Liquid	ICE	BNA, Pesticides, PCBs (EPA 625)				
	EFFLUENT-Comp	2-12/13-24 9am to 8am		X	250 ml/P	Liquid	ICE	Cr+6, F, NO3-N				

Samplers: (Signature) [signature]	Relinquished by: (Signature) Rene Porras [signature]	Date: 2-13-24 Time: 10am	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: (Signature) MD Co(; UPS	Date: 2/14/24 Time: 945	Received by Lab: (Signature) [signature]	Date: 2/14/24 Time: 945	Seal Intact?
Remarks:	FLOW: Meter Reading Cl2 Residual: Mn Corrected: Cl2 Corrected:	Arrival Temp. 18 6/18 2 1Rthy	Data Results To: 1. Site Representative:	Date: Time:	Laboratory No.

2 4 B 2 1 07

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

Page ______ Of ______

Analysis Request and Chain of Custody Record

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras
Phone: 830-401-2411
Email: 830-401-2324

Project No.: Table II and III(Jan-Jun)
Client/Project: Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	INFLUENT-Comp	2-12/13-24 9am to 8am		X	500ml-P	Liquid	ICE, HNO3	Sb,As,Be,C d,C r,C u,Hg,Ni,Se,Ag,T l I,Zn,Al, Ba, Pb				
	INFLUENT-Grab	2-13-24 8:05 AM	X		1 Lt-Amb	Liquid	ICE, H2SO4	Phenol				
	INFLUENT-Grab	2-13-24 8:07 AM	X		250 ml-P	Liquid	ICE, NaOH	Cyanide (Total & Amenable)				
	INFLUENT-Grab	2-13-24 8:10 AM	X		40 ml Vial	Liquid	ICE, HCl	VOC (EPA 624)- |				
	INFLUENT-Comp	2-12/13-24 9am to 8am		X	(2) 1 Lt-Amb	Liquid	ICE	BNA, Pesticides, PCBs (EPA 625)				
	INFLUENT-Comp	2-12/13-24 9am to 8am		X	250 ml/P	Liquid	ICE	Cr+6, F, NO3-N				

Samplers (Signature) [signature]	Relinquished by: Rene Porras (Signature) [signature]	Date: 2-13-24 Time: 10 am	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: m D fo UPS (Signature)	Date: 2/14/24 Time: 945	Received by Lab: (Signature) [signature]	Date: 2/15/24 Time: 945	Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Ms Chemical: Cl2 Corrected:	Arrival Temp. 18.6/18.2 1.2	Data Results To: 1. Site Representative:	Date: Time:	Laboratory No.

24B2101

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

Page ______ Of ______

Analysis Request and Chain of Custody Record

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras
Phone: 830-401-2411
Email: 830-401-2324

Project No.: Table V
Client/Project: Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	EFFLUENT-~~COMP~~	2-12/13-24 9a to 8a		X	(2) 40ml/vials	Liquid	Ice,HCl	~~S~~VOC (624.1)				
	EFFLUENT-COMP	2-12/13-24 9a to 8a		X	(2) 1-Lt/Amb	Liquid	Ice	Ethylene Dibromide (EDB)				
	EFFLUENT-COMP	2-12/13-24 9a to 8a		X	1-Lt Amber	Liquid	Ice	Herbicides				
	EFFLUENT-COMP	2-12/13-24 9a to 8a		X	1-Lt Amber	Liquid	Ice	Asbestos				
	EFFLUENT-COMP	2-12/13-24 9a to 8a		X	1-Lt Amber	Liquid	Ice	Uranium				
	EFFLUENT-COMP	2-12/13-24 9a to 8a		X	500 ml/P	Liquid	Ice	Metals (Vanadium,Strontium)				
	EFFLUENT-COMP	2-12/13-24 9a to 8a		X	250 ml/P	Liquid	Ice,HNO3					

Samplers: (Signature) [signature]	Relinquished by: Rene Porras (Signature) [signature]	Date: 2-13-24 Time: 10 am	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by (Signature)	Date: Time:	Received by Lab: (Signature) [signature]	Date: 2/13/24 Time: 945	Seal Intact?
Remarks:	FLOW: Meter Reading: Cl₂ Residual: Ms Correction: Cl₂ Corrected:	Arrival Temp. 18.6/18.2 IR#4	Data Results To: 1.		Laboratory No.
			Site Representative:	Date: Time:	

Envirodyne Laboratories, Inc.
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Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

2483207

Page _____ Of _____

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras

Analysis Request and Chain of Custody Record

Phone: 830-401-2411 Email: 830-401-2324

Project No. Table V

Client/Project Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Matl)	Sample Type (Liquid, Sludge, etc)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	INFLUENT-~~COMP~~	2-12/13-24 9am to 8am		X	(2) 40ml/vials	Liquid	Ice,HCl	SVOC (624)1				
	INFLUENT-COMP	2-12/13-24 9am to 8am		X	(2) 1-Lt/Amb	Liquid	Ice	Ethylene Dibromide (EDB)				
	INFLUENT-COMP	2-12/13-24 9am to 8am		X	1-Lt Amber	Liquid	Ice	Herbicides				
	INFLUENT-COMP	2-12/13-24 9am to 8am		X	1-Lt Amber	Liquid	Ice	Asbestos				
	INFLUENT-COMP	2-12/13-24 9am to 8am		X	1-Lt Amber	Liquid	Ice	Uranium				
	INFLUENT-COMP	2-12/13-24 9am to 8am		X	500 ml/P	Liquid	Ice	Metals (Vanadium,Strontium)				
	INFLUENT-COMP	2-12/13-24 9am to 8am		X	250 ml/P	Liquid	Ice,HNO3					

Samplers: (Signature)	Relinquished by: (Signature) Rene Porras	Date: 2-13-24 Time: 10 AM	Received by: (Signature)	Date: Time: Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
	Relinquished by: (Signature) UPS	Date: 2/14/24 Time: 9:45	Received by Lab: (Signature)	Date: 2/14/24 Time: 9:45 Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Mn Corrected: Cl2 Corrected:	Arrival Temp. 18.6/18.2 18.4	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

12 September 2023

Seguin, City of
Rene Porras
101 E Klein
Seguin, TX 78155

Seguin, City of - WWTP

Enclosed are the results of analyses for samples received by the laboratory on 12-Jul-23 12:45. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 12

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia For Monica Smith
Client Services Representative

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23G1743

Reported:
12-Sep-23 18:01

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent- Comp	23G1743-01	Water	11-Jul-23 08:00	12-Jul-23 12:45
Effluent- Grab	23G1743-02	Water	11-Jul-23 07:15	12-Jul-23 12:45
Influent- Comp	23G1743-03	Water	11-Jul-23 08:00	12-Jul-23 12:45
Influent- Grab	23G1743-04	Water	11-Jul-23 07:30	12-Jul-23 12:45

L-Sample analyzed by TNI accredited lab T104704231-22-29

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

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Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23G1743

Reported:
12-Sep-23 18:01

Effluent- Comp

23G1743-01 (Water) Sampled: 11-Jul-23 08:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Wet Chemistry										
Fluoride	**1.05**	0.10	mg/L	1	B3G4157	13-Jul-23	13-Jul-23 11:54	SM 4500-F C	SKP	
Nitrate-N	<0.50	0.50	mg/L	1	B3G4206	12-Jul-23	12-Jul-23 14:11	EPA 353.1	SSJ	
Metals										
Chromium, Hexavalent	<1.0	1.0	ug/L	1	B3G4199	12-Jul-23	12-Jul-23 14:45	SM 3500-Cr B	SSJ	H
Mercury by EPA 245.1										
Mercury	<0.20	0.20	ug/L	1	B3G5576	26-Jul-23	26-Jul-23 12:06	EPA 245.1	SUB	L
Total Metals by ICP-MS										
Aluminum	**31.6**	2.0	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 12:13	EPA 200.8	FOS	B, Q
Antimony	**1.5**	0.5	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 12:13	EPA 200.8	FOS	
Arsenic	**0.5**	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Barium	**72.5**	2.0	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 12:13	EPA 200.8	FOS	
Beryllium	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	Q
Cadmium	<0.50	0.50	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Chromium	<2.0	2.0	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Copper	**1.8**	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Lead	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Nickel	**3.5**	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Selenium	<2.0	2.0	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Silver	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 13:50	EPA 200.8	FOS	B
Thallium	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Zinc	**14.7**	2.0	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	Q

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Work Order:	23G1743

Reported:
12-Sep-23 18:01

Effluent- Grab

23G1743-02 (Water) Sampled: 11-Jul-23 07:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Wet Chemistry										
Cyanide, Amenable	<0.005	0.005	mg/L	1	B3G5568	20-Jul-23	20-Jul-23 15:00	SM 4500 CN E&G	SUB	L
Cyanide, Total	<0.005	0.005	mg/L	1	B3G5568	20-Jul-23	20-Jul-23 15:00	SM 4500 CN E&G	SUB	L
Phenol	<0.05	0.05	mg/L	1	B3G5574	18-Jul-23	18-Jul-23 15:12	EPA 420.4	SUB	L

Envirodyne Laboratories, Inc.

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23G1743

Reported:
12-Sep-23 18:01

Influent- Comp

23G1743-03 (Water) Sampled: 11-Jul-23 08:00

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Wet Chemistry										
Fluoride	**0.39**	0.10	mg/L	1	B3G4156	13-Jul-23	13-Jul-23 10:41	SM 4500-F C	SKP	
Nitrate-N	<0.50	0.50	mg/L	1	B3G4206	12-Jul-23	12-Jul-23 14:11	EPA 353.1	SSJ	
Metals										
Chromium, Hexavalent	<1.0	1.0	ug/L	1	B3G4199	12-Jul-23	12-Jul-23 14:45	SM 3500-Cr B	SSJ	H
Mercury by EPA 245.1										
Mercury	<0.20	0.20	ug/L	1	B3G5576	26-Jul-23	26-Jul-23 12:06	EPA 245.1	SUB	L
Total Metals by ICP-MS										
Aluminum	**256**	2.0	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 12:13	EPA 200.8	FOS	B, Q
Antimony	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 12:13	EPA 200.8	FOS	
Arsenic	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Barium	**54.7**	2.0	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 12:13	EPA 200.8	FOS	
Beryllium	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	Q
Cadmium	<0.50	0.50	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Chromium	<2.0	2.0	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Copper	**24.1**	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Lead	**0.9**	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Nickel	**4.9**	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Selenium	<2.0	2.0	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Silver	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	21-Jul-23 13:50	EPA 200.8	FOS	B
Thallium	<0.5	0.5	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	
Zinc	**57.6**	2.0	ug/L	1	B3G5079	17-Jul-23	19-Jul-23 13:59	EPA 200.8	FOS	Q

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Project:	Seguin, City of - WWTP
Work Order:	23G1743

Reported:
12-Sep-23 18:01

Influent- Grab

23G1743-04 (Water) Sampled: 11-Jul-23 07:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Analyst	Notes
Envirodyne Laboratories, Inc.										
Wet Chemistry										
Cyanide, Amenable	<0.005	0.005	mg/L	1	B3G5573	20-Jul-23	20-Jul-23 15:00	SM 4500 CN E&G	SUB	L
Cyanide, Total	<0.005	0.005	mg/L	1	B3G5573	20-Jul-23	20-Jul-23 15:00	SM 4500 CN E&G	SUB	L
Phenol	**0.1**	0.05	mg/L	1	B3G5574	18-Jul-23	18-Jul-23 15:12	EPA 420.4	SUB	L

Envirodyne Laboratories, Inc.

Laura Bonjonia

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23G1743

Reported:
12-Sep-23 18:01

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G4156 - Inorganics										
Blank (B3G4156-BLK1)				Prepared & Analyzed: 13-Jul-23						
Fluoride	<0.10	0.10	mg/L							
LCS (B3G4156-BS1)				Prepared & Analyzed: 13-Jul-23						
Fluoride	0.47		mg/L	0.500		94.0	90-110			
Matrix Spike (B3G4156-MS1)		**Source: 23G0640-01**		Prepared & Analyzed: 13-Jul-23						
Fluoride	1.66	0.20	mg/L	1.00	0.58	108	80-120			
Matrix Spike Dup (B3G4156-MSD1)		**Source: 23G0640-01**		Prepared & Analyzed: 13-Jul-23						
Fluoride	1.61	0.20	mg/L	1.00	0.58	104	80-120	2.69	20	
Batch B3G4157 - Inorganics										
Blank (B3G4157-BLK1)				Prepared & Analyzed: 13-Jul-23						
Fluoride	<0.10	0.10	mg/L							
LCS (B3G4157-BS1)				Prepared & Analyzed: 13-Jul-23						
Fluoride	0.49		mg/L	0.500		98.2	90-110			
Matrix Spike (B3G4157-MS1)		**Source: 23G1742-01**		Prepared & Analyzed: 13-Jul-23						
Fluoride	2.12	0.20	mg/L	1.00	1.05	107	80-120			
Matrix Spike Dup (B3G4157-MSD1)		**Source: 23G1742-01**		Prepared & Analyzed: 13-Jul-23						
Fluoride	2.10	0.20	mg/L	1.00	1.05	105	80-120	0.948	20	
Batch B3G4206 - Inorganics										
Blank (B3G4206-BLK1)				Prepared & Analyzed: 12-Jul-23						
Nitrate-N	<0.50	0.50	mg/L							

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Work Order:	23G1743

Reported:
12-Sep-23 18:01

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G4206 - Inorganics										
LCS (B3G4206-BS1)				Prepared & Analyzed: 12-Jul-23						
Nitrate-N	3.10		mg/L	3.00		103	90-110			
Matrix Spike (B3G4206-MS1)		**Source: 23G1269-01**		Prepared & Analyzed: 12-Jul-23						
Nitrate-N	88.2	10.0	mg/L	60.0	25.0	105	80-120			
Matrix Spike Dup (B3G4206-MSD1)		**Source: 23G1269-01**		Prepared & Analyzed: 12-Jul-23						
Nitrate-N	89.2	10.0	mg/L	60.0	25.0	107	80-120	1.13	20	

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23G1743

Reported:
12-Sep-23 18:01

Metals - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G4199 - Inorganics										
Blank (B3G4199-BLK1)				Prepared & Analyzed: 12-Jul-23						
Chromium, Hexavalent	<1.0	1.0	ug/L							
LCS (B3G4199-BS1)				Prepared & Analyzed: 12-Jul-23						
Chromium, Hexavalent	48.3		ug/L	50.0		96.6	95-105			
Matrix Spike (B3G4199-MS1)	**Source: 23G1742-01**			Prepared & Analyzed: 12-Jul-23						
Chromium, Hexavalent	45.6	1.0	ug/L	50.0	1.00	89.2	80-120			
Matrix Spike Dup (B3G4199-MSD1)	**Source: 23G1742-01**			Prepared & Analyzed: 12-Jul-23						
Chromium, Hexavalent	46.6	1.0	ug/L	50.0	1.00	91.2	80-120	2.17	20	

Envirodyne Laboratories, Inc.

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Work Order:	23G1743

Reported:
12-Sep-23 18:01

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G5079 - Metals - EPA 200.2										
Blank (B3G5079-BLK1)				Prepared: 17-Jul-23 Analyzed: 19-Jul-23						
Copper	<0.5	0.5	ug/L							
Chromium	<2.0	2.0	"							
Beryllium	<0.5	0.5	"							Q
Barium	<2.0	2.0	"							
Arsenic	<0.5	0.5	"							
Aluminum	7.35	2.0	"							B, Q
Cadmium	<0.50	0.50	"							
Nickel	<0.5	0.5	"							
Silver	74	0.5	"							B
Lead	<0.5	0.5	"							
Thallium	<0.5	0.5	"							
Zinc	<2.0	2.0	"							Q
Selenium	<2.0	2.0	"							
Antimony	<0.5	0.5	"							
LCS (B3G5079-BS1)				Prepared: 17-Jul-23 Analyzed: 21-Jul-23						
Aluminum	86.9		ug/L	75.0		116	85-115			B, Q
Barium	79.4		"	75.0		106	85-115			
Thallium	76.0		"	75.0		101	85-115			
Beryllium	70.6		"	75.0		94.1	85-115			Q
Silver	74		"	75.0		99.0	85-115			B
Lead	76		"	75.0		102	85-115			
Cadmium	77		"	75.0		103	85-115			
Chromium	74.4		"	75.0		99.2	85-115			
Nickel	72.5		"	75.0		96.6	85-115			
Copper	72.5		"	75.0		96.7	85-115			
Arsenic	74.6		"	75.0		99.5	85-115			
Zinc	71.6		"	75.0		95.5	85-115			Q
Selenium	70.9		"	75.0		94.6	85-115			
Antimony	78.9		"	75.0		105	85-115			

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Reported:
12-Sep-23 18:01

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G5079 - Metals - EPA 200.2										
Matrix Spike (B3G5079-MS1)	**Source: 23G1176-02**			Prepared: 17-Jul-23 Analyzed: 21-Jul-23						
Aluminum	15700	20.0	ug/L	100	14800	927	70-130			B, Q
Copper	119	0.5	"	100	16.9	102	70-130			
Thallium	97.2	0.5	"	100	ND	97.2	70-130			
Silver	72	5.0	"	100	ND	71.9	70-130			B
Nickel	115	0.5	"	100	12.5	102	70-130			
Lead	140	0.5	"	100	24	115	70-130			
Arsenic	99.2	0.5	"	100	2.53	96.6	70-130			
Chromium	114	2.0	"	100	15.2	99.1	70-130			
Beryllium	69.8	0.5	"	100	1.00	68.8	70-130			Q
Cadmium	97	0.50	"	100	0.49	96.9	70-130			
Barium	310	20.0	"	100	227	83.7	70-130			
Zinc	374	2.0	"	100	156	218	70-130			Q
Selenium	83.8	2.0	"	100	ND	83.8	70-130			
Antimony	72.9	5.0	"	100	ND	72.9	70-130			
Matrix Spike Dup (B3G5079-MSD1)	**Source: 23G1176-02**			Prepared: 17-Jul-23 Analyzed: 19-Jul-23						
Arsenic	108	0.5	ug/L	100	2.53	105	70-130	8.34	20	
Thallium	107	0.5	"	100	ND	107	70-130	9.18	20	
Silver	86	5.0	"	100	ND	85.6	70-130	17.4	20	B
Copper	125	0.5	"	100	16.9	108	70-130	4.95	20	
Nickel	121	0.5	"	100	12.5	109	70-130	5.78	20	
Cadmium	100	0.50	"	100	0.49	104	70-130	7.36	20	
Lead	150	0.5	"	100	24	126	70-130	7.58	20	
Beryllium	74.6	0.5	"	100	1.00	73.6	70-130	6.61	20	Q
Aluminum	16200	20.0	"	100	14800	NR	70-130	2.93	20	B, Q
Chromium	120	2.0	"	100	15.2	105	70-130	5.20	20	
Barium	342	20.0	"	100	227	115	70-130	9.66	20	
Selenium	91.9	2.0	"	100	ND	91.9	70-130	9.18	20	
Zinc	392	2.0	"	100	156	236	70-130	4.66	20	Q
Antimony	82.1	5.0	"	100	ND	82.1	70-130	11.9	20	

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Work Order:	23G1743

Reported:
12-Sep-23 18:01

Notes and Definitions

Q	QC did not meet ELI acceptance criteria
L	Analyzed by third party laboratory
H	Hold time exceeded
B	Target detected in method blank
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

23G1743

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E A407408

TCEQ Certification # T104704265

Page _____ Of _____

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras

Analysis Request and Chain of Custody Record

Phone: 830-401-2411 Email: 830-401-2324

Project No. Table III (JUL-DEC)

Client/Project Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	EFFLUENT-Comp	7-10/11-23 9AM to 8AM		X	500ml-P	Liquid	ICE, HNO3	Sb,As,Be,C d,C r,C u,Hg,Ni,Se,Ag,Tl I,Zn,Al, Ba, Pb				
	EFFLUENT-Grab	7-11-23 7:15 AM	X		1 Lt-Amb	Liquid	ICE, H2SO4	Phenol				
	EFFLUENT-Grab	7-11-23 7:18 AM	X		250 ml-P	Liquid	ICE, NaOH	Cyanide (Total & Amenable)				
	EFFLUENT-Comp	7-10/11-23 9AM to 8AM		X	250 ml/P	Liquid	ICE	Cr+3, Cr+6, F, NO3-N				
	INFLUENT -Comp	7-10/11-23 9AM to 8AM		X	500ml-P	Liquid	ICE, HNO3	Sb,As,Be,C d,C r,C u,Hg,Ni,Se,Ag,Tl I,Zn, Ba, Pb, Al				
	INFLUENT-Grab	7-11-23 7:30 AM	X		1 Lt-Amb	Liquid	ICE, H2SO4	Phenol				
	INFLUENT-Grab	7-11-23 7:33 AM	X		250 ml-P	Liquid	ICE, NaOH	Cyanide (Total & Amenable)				
	INFLUENT-Comp	7-10/11-23 9AM to 8AM		X	250 ml/P	Liquid	ICE	Cr+3, Cr+6, F, NO3-N				

Samplers: (Signature) Rene Porras	Relinquished by: (Signature) Rene Porras	Date: 7-11-23 Time: 10AM	Received by: (Signature)	Date: Time:	Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time:	Seal Intact?
	Relinquished by: (Signature) Fedex	Date: 7/12/23 Time: 1245	Received by Lab: (Signature)	Date: 7/12/23 Time: 1245	Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Mn Correction: Cl2 Corrected	Arrival Temp. 5.3/5.1 OM	Data Results To: 1. Site Representative:	Date: Time:	Laboratory No.

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

25 April 2023

Seguin, City of
Rene Porras
101 E Klein
Seguin, TX 78155

Seguin, City of - WWTP

Enclosed are the results of analyses for samples received by the laboratory on 15-Feb-23 10:15. The analytical data provided relates only to the samples as received in this laboratory report.

ELI certifies that all results are NELAP compliant and performed in accordance with the referenced method except as noted in the Case Narrative or as noted with a qualifier. Any reproductions of this laboratory report should be in full and only with the written authorization from the client.

The total number of pages in this report is 31

Thank you for selecting ELI for your analytical needs. If you have any questions regarding this report, please contact us.

Sincerely,

Laura Bonjonia

Laura Bonjonia For Monica Smith
Client Services Representative

Certificate No: T104704265-22-20

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of	
Project:	Seguin, City of - WWTP	**Reported:**
Work Order:	23B2636	25-Apr-23 17:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Effluent - Comp	23B2636-01	Water	14-Feb-23 08:00	15-Feb-23 10:15
Effluent - Grab	23B2636-02	Water	14-Feb-23 07:40	15-Feb-23 10:15
Influent - Comp	23B2636-03	Water	14-Feb-23 08:00	15-Feb-23 10:15
Influent - Grab	23B2636-04	Water	14-Feb-23 08:18	15-Feb-23 10:15

Volatiles-
C=Vinyl Chloride, Styrene, MTBE, and 2-Chloroethyl Vinyl Ether are highly reactive compounds when samples are preserved with acids (pH <2). 2-Chloroethyl Vinyl Ether recoveries deteriorate with acid preservative. Acrolein or Acrylonitrile should be received with acidic preservation at pH> 4-5 and analyzed as soon as possible if it's a compound of interest.
L - Sample analyzed by TNI certified lab: T104704215-22-47

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

ENVIRODYNE LABORATORIES, INC.

CLIENT:	WALNUT BRANCH WWTP (City of Seguin)	LAB NUMBER:	23B2636-01A
DATE COLLECTED:	14-Feb-23	DATE RECEIVED:	15-Feb-23
DATE COMPLETED:	24-Feb-23	SAMPLED BY:	RP
LOCATION:	Comp EFFLUENT		

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	133.0	EPA 200.8	JMM	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.8	JMM	5.0
TOTAL ARSENIC (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL BARIUM (ug/l)	29.5	EPA 200.8	JMM	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL CADMIUM (ug/l)	<1.0	EPA 200.8	JMM	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.8	JMM	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	LC	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	LC	3.0
TOTAL COPPER (ug/l)	11.5	EPA 200.8	JMM	2.0
TOTAL LEAD (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL MERCURY (ug/l)	*< 0.005	245.1	SUB	<0.005
TOTAL NICKEL (ug/l)	3.4	EPA 200.8	JMM	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.8	JMM	5.0
TOTAL SILVER (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL ZINC (ug/l)	18.4	EPA 200.8	JMM	5.0
AMENABLE CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL PHENOLS (ug/l)	* <10.0	420.1	SUB	10.0
FLUORIDE (ug/l)	<500.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	24,800.0	EPA 353.1	LC	LC
TOTAL STRONTIUM (ug/l)	409.0	EPA 200.7	JMM	
TOTAL VANADIUM (ug/l)	<5.0	EPA 200.7	JMM	

LAB REPRESENTATIVE

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by NELAC certified lab T104704231

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin)
LAB NUMBER: 23B2636-01B

DATE COLLECTED: 14-Feb-23
DATE RECEIVED: 15-Feb-23

DATE COMPLETED: 16-Feb-23
SAMPLED BY: RP

LOCATION: EFFLUENT - Grab

PARAMETERS: VOLATILES	CONC.	DETECTION LIMITS (ug/l)
ACROLEIN (ug/l)	50.0 U	50.0
ACRYLONITRILE (ug/l)	50.0 U	50.0
CHLOROMETHANE (ug/l)	10.0 U	10.0
VINYL CHLORIDE (ug/l)	10.0 U	10.0
BROMOMETHANE (ug/l)	10.0 U	10.0
CHLOROETHANE (ug/l)	50.0 U	50.0
TRICHLOROFUOROMETHANE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
METHYLENE CHLORIDE (ug/l)	20.0 U	20.0
trans-1,2-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHANE (ug/l)	10.0 U	10.0
1,1,1-TRICHLOROETHANE (ug/l)	10.0 U	10.0
METHYL BROMIDE (ug/l)	10.0 U	10.0
METHYL CHLORIDE (ug/l)	10.0 U	10.0
CHLOROFORM (ug/l)	10.0 U	10.0
CARBON TETRACHLORIDE (ug/l)	2.0 U	2.0
1,2-DICHLOROETHANE (ug/l)	10.0 U	10.0
TRICHLOROETHANE (ug/l)	10.0 U	10.0
BENZENE (ug/l)	10.0 U	10.0
TRICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,2-DICHLOROPROPANE (ug/l)	10.0 U	10.0
DICHLOROBROMOMETHANE (ug/l)	10.0 U	10.0
1,3 DICHLOROPROPYLENE (ug/l)	10.0 U	10.0
TOLUENE (ug/l)	10.0 U	10.0
trans-1,3-DICHLOROPROPENE (ug/l)	10.0 U	10.0
1,1,2-TRICHLOROETHANE (ug/l)	10.0 U	10.0
TETRACHLOROETHYLENE (ug/l)	10.0 U	10.0
DIBROMOCHLOROMETHANE (ug/l)	10.0 U	10.0
CHLOROBENZENE (ug/l)	10.0 U	10.0
2-CHLOROETHYLVINYL ETHER (ug/l)	10.0 U	10.0
1,2-DIBROMOETHANE (ug/l)	2.0 U	2.0
ETHYLBENZENE (ug/l)	10.0 U	10.0
BROMOFORM (ug/l)	10.0 U	10.0
1,1,2,2-TETRACHLOROETHANE (ug/l)	10.0 U	10.0
TOTAL TRIHALOMETHANES (ug/l)	10.0 U	10.0
METHYL ETHYL KETONE (ug/l)	50.0 U	50.0
1,3 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,4 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,2 DICHLORBENZENE (ug/l)	10.0 U	10.0
XYLENE (ug/l)	10.0 U	10.0

LAB REPRESENTATIVE

Ref. EPA 624.1 (VOLATILES)
U - Analyte Not Detected at the Listed Detection Limit
J - Analyte Present but Below Detection Limit

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin)

LAB NUMBER: 23B2638-01C

DATE COLLECTED: 14-Feb-23

DATE RECEIVED: 15-Feb-23

DATE COMPLETED: 21-Feb-23

SAMPLED BY: RP

LOCATION: EFFLUENT-Comp

PARAMETERS:

BASE/ NEUTRALS

ACENAPHTHENE (ug/l)	10.0 U
ACENAPHTHYLENE (ug/l)	10.0 U
ANTHRACENE (ug/l)	10.0 U
BENZIDINE (ug/l)	50.0 U
BENZO (a) ANTHRACENE (ug/l)	5.0 U
BENZO (a) PYRENE (ug/l)	5.0 U
BENZO (B) FLUORANTHENE (ug/l)	10.0 U
BENZO (GHI) PERYLENE (ug/l)	20.0 U
BENZO (k) FLUORANTHENE (ug/l)	5.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l)	10.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l)	10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l)	10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l)	10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l)	10.0 U
BUTYL BENZYL PHTHALATE (ug/l)	10.0 U
2-CHLORONAPHTHALENE (ug/l)	10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l)	10.0 U
CHRYSENE (ug/l)	5.0 U
DIBENZO (a,h) ANTHRACENE (ug/l)	5.0 U
1,2-DICHLOROBENZENE (ug/l)	10.0 U
1,3-DICHLOROBENZENE (ug/l)	10.0 U
(p)1,4-DICHLOROBENZENE (ug/l)	10.0 U
3,3-DICHLOROBENZIDINE (ug/l)	5.0 U
DIETHYL PHTHALATE (ug/l)	10.0 U
DIMETHYL PHTHALATE (ug/l)	10.0 U
DI-N-BUTYL PHTHALATE (ug/l)	10.0 U
DIBENZOFURAN (ug/l)	10.0 U
FLUORANTHENE (ug/l)	10.0 U
FLUORENE (ug/l)	10.0 U
HEXACHLOROBENZENE (ug/l)	5.0 U
HEXACHLOROBUTADIENE (ug/l)	10.0 U
HEXACHLOROETHANE (ug/l)	20.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l)	10.0 U
HEXACHLOROPHENE (ug/l)	10.0 U
IDENO (1,2,3,cd) PYRENE (ug/l)	5.0 U
1,2-Diphenyl Hydrazine (ug/l)	20.0 U
N-NITROSO-di-n-BUTYLAMINE (ug/l)	20.0 U
N-NITROSO-DI-ETHYLAMINE (ug/l)	20.0 U
ISOPHORONE (ug/l)	10.0 U
NAPHTHALENE (ug/l)	10.0 U
NITROBENZENE (ug/l)	10.0 U
N-NITROSO-di-n-PROPYLAMINE (ug/l)	20.0 U
N-NITROSODIPHENYLAMINE (ug/l)	20.0 U
N-NITROSODIMETHYLAMINE (ug/l)	50.0 U
PHENANTHRENE (ug/l)	10.0 U
PYRENE (ug/l)	10.0 U
1,2,4-TRICHLOROBENZENE (ug/l)	10.0 U
1,2,4,5-TETRACHLOROBENZENE (ug/l	20.0 U
2, 4-DINITROTOLUENE (ug/l)	10.0 U
2, 6-DINTROTOLUENE (ug/l)	10.0 U
2-METHYLNAPHTHALENE (ug/l)	10.0 U
Di-n-octyl PHTHALATE (ug/l)	10.0 U
PYRIDINE (ug/l)	20.0 U
p-CRESOL (ug/l)	10.0 U

ACID COMPOUNDS

INFLUENT (Cont.)

2-CHLOROPHENOL (ug/l)	10.0 U
2,4-DICHLOROPHENOL (ug/l)	10.0 U
2,4-DIMETHYLPHENOL (ug/l)	10.0 U
4, 6-DINITRO-o-CRESOL (ug/l)	50.0 U
4,6-DINITRO-2-METHYLPHENOL (ug/l)	20.0 U
2,4-DINITROPHENOL (ug/l)	50.0 U
2-NITROPHENOL (ug/l)	20.0 U
4-NITROPHENOL (ug/l)	50.0 U
p-CHLORO-m-CRESOL (ug/l)	10.0 U
2-METHYLPHENOL (ug/l)	10.0 U
PENTACHLOROPHENOL (ug/l)	5.0 U
PHENOL (ug/l)	16.0
2,4,6-TRICHLOROPHENOL (ug/l)	10.0 U
2,4,5-TRICHLOROPHENOL (ug/l)	50.0 U
PENTACHLOROBENZENE (ug/l)	20.0 U
4-CHLORO-3-METHYL PHENOL (ug/l)	10.0 U
NONYLPHENOL (ug/l)	5.0 U

LAB REPRESENTATIVE

Analyzed by NELAC certified lab T104704215
Ref. EPA-625 (Base/Neutrals & Acids)
U - Analyte Not Detected at the listed Detection Limit
J - Analyte Present but below Detection Limit

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT:	WALNUT BRANCH WWTP (City of Seguin)	LAB NUMBER:	232636-01D
DATE COLLECTED:	14-Feb-23	DATE RECEIVED:	15-Feb-23
DATE COMPLETED:	20-Feb-23	SAMPLED BY:	RP

SAMPLE TYPE:			
LOCATION:	EFFLUENT		EFFLUENT
	Comp		Comp
PARAMETERS:	PESTICIDES-PCB		PESTICIDES-PCB
EPA 1657*		**EPA 608***	
Guthion (Azinphos Methyl) (ug/l)	< 0.10	Chlordane (ug/l)	< 0.15
Chlorpyrifos (ug/l)	< 0.05	4-4' - DDD (ug/l)	< 0.10
Demeton -O (ug/l)	< 0.20	4-4' - DDE (ug/l)	< 0.10
Demeton -S (ug/l)	< 0.20	4-4' - DDT (ug/l)	< 0.02
Diazinon (ug/l)	< 0.5	Dieldrin (ug/l)	< 0.02
Disulfoton (ug/l)	< 0.5	Dicofol (ug/l)	< 1.0
EPN (ug/l)	< 0.5	Endosulfan I (ug/l)	< 0.01
Ethion (ug/l)	< 0.5	Endosulfan II (ug/l)	< 0.02
Ethyl Parathion (ug/l)	< 0.1	Endosulfan Sulfate (ug/l)	< 0.10
Malathion (ug/l)	< 0.10	Endrin (ug/l)	< 0.02
Methyl Parathion (ug/l)	< 0.1	Gamma-BHC (Lindane) (ug/l)	< 0.05
Parathion (ug/l)	< 0.10	Heptachlor (ug/l)	< 0.01
EPA 608*		Heptaclor Epoxide (ug/l)	< 0.01
Aldrin (ug/l)	< 0.01	Methoxychlor (ug/l)	< 0.20
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05	Mirex (ug/l)	< 0.02
Beta - BHC (ug/l)	< 0.05	Total PCBs (ug/l)	< 0.2
		PCB-1016 (ug/l)	< 0.2
		PCB-1221 (ug/l)	< 0.2
		PCB-1232 (ug/l)	< 0.2
		PCB-1242 (ug/l)	< 0.2
		PCB-1248 (ug/l)	< 0.2
		PCB-1254 (ug/l)	< 0.2
		PCB-1260 (ug/l)	< 0.2
		Toxaphene (ug/l)	< 0.3
		Endrin Aldehyde (ug/l)	< 0.10
		Delta - BHC (ug/l)	< 0.05
		EPA 632*	
		Diuron (ug/l)	<0.09
		EPA 8151*	
		2,4-D (ug/l)	< 0.7
		2,4,5-TP (Silvex) (ug/l)	< 0.3
		EPA 625*	
		Carbaryl (ug/l)	< 5.0

*Analyzed by NELAP certified lab T104704231

LAB REPRESENTATIVE

ENVIRODYNE LABORATORIES, INC.

CLIENT:	WALNUT BRANCH WWTP (City of Seguin)	LAB NUMBER:	23B2636-03A
DATE COLLECTED:	14-Feb-23	DATE RECEIVED:	15-Feb-23
DATE COMPLETED:	24-Feb-23	SAMPLED BY:	RP
LOCATION:	Comp INFLUENT		

PARAMETERS:

METALS	CONCENTRATION	METHOD	INITIALS	MAL
TOTAL ALUMINUM (ug/l)	175.0	EPA 200.8	JMM	2.5
TOTAL ANTIMONY (ug/l)	<5.0	EPA 200.8	JMM	5.0
TOTAL ARSENIC (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL BARIUM (ug/l)	52.1	EPA 200.8	JMM	3.0
TOTAL BERYLLIUM (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL CADMIUM (ug/l)	<1.0	EPA 200.8	JMM	1.0
TOTAL CHROMIUM (ug/l)	<3.0	EPA 200.8	JMM	3.0
HEX CHROMIUM (ug/l)	<3.0	3500 - Cr D	LC	3.0
TRI CHROMIUM (ug/l)	<3.0	N/A	MES	3.0
TOTAL COPPER (ug/l)	30.0	EPA 200.8	JMM	2.0
TOTAL LEAD (ug/l)	0.6	EPA 200.8	JMM	0.5
TOTAL MERCURY (ug/l)	*< 0.005	245.1	SUB	<0.005
TOTAL NICKEL (ug/l)	4.5	EPA 200.8	JMM	2.0
TOTAL SELENIUM (ug/l)	<5.0	EPA 200.8	JMM	5.0
TOTAL SILVER (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL THALLIUM (ug/l)	<0.5	EPA 200.8	JMM	0.5
TOTAL ZINC (ug/l)	72.0	EPA 200.8	JMM	5.0
AMENABLE CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL CYANIDE (ug/l)	*< 10.0	SM 4500 CN E&G	SUB	10.0
TOTAL PHENOLS (ug/l)	* 25.6	420.1	SUB	10.0
FLUORIDE (ug/l)	<500.0	SM 4500-F C	SKP	500.0
NITRATE-N (ug/l)	12,100.0	EPA 353.1	MNF	LC
TOTAL STRONTIUM (ug/l)	391.0	EPA 200.7	JMM	
TOTAL VANADIUM (ug/l)	<5.0	EPA 200.7	JMM	

LAB REPRESENTATIVE

Ref. EPA METHODS FOR CHEMICAL ANALYSIS
*Analyzed by NELAC certified lab T104704231

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT:	**WALNUT BRANCH WWTP** (City of Seguin)	LAB NUMBER:	23B2636-03B
DATE COLLECTED:	14-Feb-23	DATE RECEIVED:	15-Feb-23
DATE COMPLETED:	16-Feb-23	SAMPLED BY:	RP
LOCATION:	INFLUENT - Grab		

PARAMETERS: VOLATILES	CONC.	DETECTION LIMITS (ug/l)
ACROLEIN (ug/l)	50.0 U	50.0
ACRYLONITRILE (ug/l)	50.0 U	50.0
CHLOROMETHANE (ug/l)	10.0 U	10.0
VINYL CHLORIDE (ug/l)	10.0 U	10.0
BROMOMETHANE (ug/l)	10.0 U	10.0
CHLOROETHANE (ug/l)	50.0 U	50.0
TRICHLOROFUOROMETHANE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
METHYLENE CHLORIDE (ug/l)	20.0 U	20.0
trans-1,2-DICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,1-DICHLOROETHANE (ug/l)	10.0 U	10.0
1,1,1-TRICHLOROETHANE (ug/l)	10.0 U	10.0
METHYL BROMIDE (ug/l)	10.0 U	10.0
METHYL CHLORIDE (ug/l)	10.0 U	10.0
CHLOROFORM (ug/l)	10.0 U	10.0
CARBON TETRACHLORIDE (ug/l)	2.0 U	2.0
1,2-DICHLOROETHANE (ug/l)	10.0 U	10.0
TRICHLOROETHANE (ug/l)	10.0 U	10.0
BENZENE (ug/l)	10.0 U	10.0
TRICHLOROETHYLENE (ug/l)	10.0 U	10.0
1,2-DICHLOROPROPANE (ug/l)	10.0 U	10.0
DICHLOROBROMOMETHANE (ug/l)	10.0 U	10.0
1,3 DICHLOROPROPYLENE (ug/l)	10.0 U	10.0
TOLUENE (ug/l)	10.0 U	10.0
trans-1,3-DICHLOROPROPENE (ug/l)	10.0 U	10.0
1,1,2-TRICHLOROETHANE (ug/l)	10.0 U	10.0
TETRACHLOROETHYLENE (ug/l)	10.0 U	10.0
DIBROMOCHLOROMETHANE (ug/l)	10.0 U	10.0
CHLOROBENZENE (ug/l)	10.0 U	10.0
2-CHLOROETHYLVINYL ETHER (ug/l)	10.0 U	10.0
1,2-DIBROMOETHANE (ug/l)	2.0 U	2.0
ETHYLBENZENE (ug/l)	10.0 U	10.0
BROMOFORM (ug/l)	10.0 U	10.0
1,1,2,2-TETRACHLOROETHANE (ug/l)	10.0 U	10.0
TOTAL TRIHALOMETHANES (ug/l)	10.0 U	10.0
METHYL ETHYL KETONE (ug/l)	50.0 U	50.0
1,3 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,4 DICHLORBENZENE (ug/l)	10.0 U	10.0
1,2 DICHLORBENZENE (ug/l)	10.0 U	10.0
XYLENE (ug/l)	10.0 U	10.0

LAB REPRESENTATIVE

Ref. EPA 624.1 (VOLATILES)
U - Analyte Not Detected at the Listed Detection Limit
J - Analyte Present but Below Detection Limit

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP**
(City of Seguin)

LAB NUMBER: 23B2636-03C

DATE COLLECTED: 14-Feb-23

DATE RECEIVED: 15-Feb-23

DATE COMPLETED: 21-Feb-23

SAMPLED BY: RP

LOCATION: INFLUENT-Comp

PARAMETERS:
BASE/ NEUTRALS

ACENAPHTHENE (ug/l)	10.0 U
ACENAPHTHYLENE (ug/l)	10.0 U
ANTHRACENE (ug/l)	10.0 U
BENZIDINE (ug/l)	50.0 U
BENZO (a) ANTHRACENE (ug/l)	5.0 U
BENZO (a) PYRENE (ug/l)	5.0 U
BENZO (B) FLUORANTHENE (ug/l)	10.0 U
BENZO (GHI) PERYLENE (ug/l)	20.0 U
BENZO (k) FLUORANTHENE (ug/l)	5.0 U
BIS (2-CHLOROETHYL) ETHER (ug/l)	10.0 U
BIS (2-CHLOROETHOXY) METHANE (ug/l)	10.0 U
BIS (2-CHLOROISOPROPYL) ETHER (ug/l)	10.0 U
BIS (2-ETHYLHEXYL) PHTHALATE (ug/l)	10.0 U
4-BROMOPHENYL PHENYL ETHER (ug/l)	10.0 U
BUTYL BENZYL PHTHALATE (ug/l)	10.0 U
2-CHLORONAPHTHALENE (ug/l)	10.0 U
4-CHLOROPHENYL PHENYL ETHER (ug/l)	10.0 U
CHRYSENE (ug/l)	5.0 U
DIBENZO (a,h) ANTHRACENE (ug/l)	5.0 U
1,2-DICHLOROBENZENE (ug/l)	10.0 U
1,3-DICHLOROBENZENE (ug/l)	10.0 U
(p)1,4-DICHLOROBENZENE (ug/l)	10.0 U
3,3-DICHLOROBENZIDINE (ug/l)	5.0 U
DIETHYL PHTHALATE (ug/l)	10.0 U
DIMETHYL PHTHALATE (ug/l)	10.0 U
DI-N-BUTYL PHTHALATE (ug/l)	10.0 U
DIBENZOFURAN (ug/l)	10.0 U
FLUORANTHENE (ug/l)	10.0 U
FLUORENE (ug/l)	10.0 U
HEXACHLOROBENZENE (ug/l)	5.0 U
HEXACHLOROBUTADIENE (ug/l)	10.0 U
HEXACHLOROETHANE (ug/l)	20.0 U
HEXACHLOROCYCLOPENTADIENE (ug/l)	10.0 U
HEXACHLOROPHENE (ug/l)	10.0 U
IDENO (1,2,3,cd) PYRENE (ug/l)	5.0 U
1,2-Diphenyl Hydrazine (ug/l)	20.0 U
N-NITROSO-di-n-BUTYLAMINE (ug/l)	20.0 U
N-NITROSO-DI-ETHYLAMINE (ug/l)	20.0 U
ISOPHORONE (ug/l)	10.0 U
NAPHTHALENE (ug/l)	10.0 U
NITROBENZENE (ug/l)	10.0 U
N-NITROSO-di-n-PROPYLAMINE (ug/l)	20.0 U
N-NITROSODIPHENYLAMINE (ug/l)	20.0 U
N-NITROSODIMETHYLAMINE (ug/l)	50.0 U
PHENANTHRENE (ug/l)	10.0 U
PYRENE (ug/l)	10.0 U
1,2,4-TRICHLOROBENZENE (ug/l)	10.0 U
1,2,4,5-TETRACHLOROBENZENE (ug/l	20.0 U
2, 4-DINITROTOLUENE (ug/l)	10.0 U
2, 6-DINTROTOLUENE (ug/l)	10.0 U
2-METHYLNAPHTHALENE (ug/l)	10.0 U
Di-n-octyl PHTHALATE (ug/l)	10.0 U
PYRIDINE (ug/l)	20.0 U
p-CRESOL (ug/l)	10.0 U

ACID COMPOUNDS
INFLUENT (Cont.)

2-CHLOROPHENOL (ug/l)	10.0 U
2,4-DICHLOROPHENOL (ug/l)	10.0 U
2,4-DIMETHYLPHENOL (ug/l)	10.0 U
4, 6-DINITRO-o-CRESOL (ug/l)	50.0 U
4,6-DINITRO-2-METHYLPHENOL (ug/l)	20.0 U
2,4-DINITROPHENOL (ug/l)	50.0 U
2-NITROPHENOL (ug/l)	20.0 U
4-NITROPHENOL (ug/l)	50.0 U
p-CHLORO-m-CRESOL (ug/l)	10.0 U
2-METHYLPHENOL (ug/l)	10.0 U
PENTACHLOROPHENOL (ug/l)	5.0 U
PHENOL (ug/l)	16.0
2,4,6-TRICHLOROPHENOL (ug/l)	10.0 U
2,4,5-TRICHLOROPHENOL (ug/l)	50.0 U
PENTACHLOROBENZENE (ug/l)	20.0 U
4-CHLORO-3-METHYL PHENOL (ug/l)	10.0 U
NONYLPHENOL (ug/l)	5.0 U

LAB REPRESENTATIVE

Analyzed by NELAC certified lab T104704215
Ref. EPA-625 (Base/Neutrals & Acids)
U - Analyte Not Detected at the listed Detection Limit
J - Analyte Present but below Detection Limit

ENVIRODYNE LABORATORIES, INC.

CERTIFICATE OF ANALYSIS

CLIENT: **WALNUT BRANCH WWTP** (City of Seguin)
LAB NUMBER: 232636-03D
DATE COLLECTED: 14-Feb-23
DATE RECEIVED: 15-Feb-23
DATE COMPLETED: 20-Feb-23
SAMPLED BY: RP

SAMPLE TYPE:		
LOCATION:	INFLUENT	EFFLUENT
	Comp	Comp
PARAMETERS:	PESTICIDES-PCB	PESTICIDES-PCB
EPA 1657*		
Guthion (Azinphos Methyl) (ug/l)	< 0.10	
Chlorpyrifos (ug/l)	< 0.05	
Demeton -O (ug/l)	< 0.20	
Demeton -S (ug/l)	< 0.20	
Diazinon (ug/l)	< 0.5	
Disulfoton (ug/l)	< 0.5	
EPN (ug/l)	< 0.5	
Ethion (ug/l)	< 0.5	
Ethyl Parathion (ug/l)	< 0.1	
Malathion (ug/l)	< 0.10	
Methyl Parathion (ug/l)	< 0.1	
Parathion (ug/l)	< 0.10	
EPA 608*		
Aldrin (ug/l)	< 0.01	
Alpha - BHC (ug/l) (Hexachlorocyclohexane)	< 0.05	
Beta - BHC (ug/l)	< 0.05	
EPA 608*		
Chlordane (ug/l)		< 0.15
4-4' - DDD (ug/l)		< 0.10
4-4' - DDE (ug/l)		< 0.10
4-4' - DDT (ug/l)		< 0.02
Dieldrin (ug/l)		< 0.02
Dicofol (ug/l)		< 1.0
Endosulfan I (ug/l)		< 0.01
Endosulfan II (ug/l)		< 0.02
Endosulfan Sulfate (ug/l)		< 0.10
Endrin (ug/l)		< 0.02
Gamma-BHC (Lindane) (ug/l)		< 0.05
Heptachlor (ug/l)		< 0.01
Heptaclor Epoxide (ug/l)		< 0.01
Methoxychlor (ug/l)		< 0.20
Mirex (ug/l)		< 0.02
Total PCBs (ug/l)		< 0.2
PCB-1016 (ug/l)		< 0.2
PCB-1221 (ug/l)		< 0.2
PCB-1232 (ug/l)		< 0.2
PCB-1242 (ug/l)		< 0.2
PCB-1248 (ug/l)		< 0.2
PCB-1254 (ug/l)		< 0.2
PCB-1260 (ug/l)		< 0.2
Toxaphene (ug/l)		< 0.3
Endrin Aldehyde (ug/l)		< 0.10
Delta - BHC (ug/l)		< 0.05
EPA 632*		
Diuron (ug/l)		<0.09
EPA 8151*		
2,4-D (ug/l)		< 0.7
2,4,5-TP (Silvex) (ug/l)		< 0.3
EPA 625*		
Carbaryl (ug/l)		< 5.0

*Analyzed by NELAP certified lab T104704231

LAB REPRESENTATIVE

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025
TX Certification #T104704527-22-9

Report Date: March 2, 2023

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste 230
Houston, TX 77099-3543

Field Custody: Client
Client/Field ID: 23B2636
Influent WB
Sample Collection: 02-14-23/0800
Lab ID No: 23.2306
Custody Date: 02-17-23/1055
Sample Description: Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Uranium	pCi/l	0.3 ± 0.1	3-1-23/1616	EPA 908.0	0.3
Uranium	ug/l	0.4 ± 0.1	Calc	Calc	Calc

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

KNL ENVIRONMENTAL TESTING, INC. | 3202 NORTH FLORIDA AVENUE | TAMPA, FLORIDA 33603
813.229.2879 | KNLENVIRONMENTAL.COM

KNL ENVIRONMENTAL TESTING

FL DOH Certification #E84025
TX Certification #T104704527-22-9

Report Date: March 2, 2023

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste 230
Houston, TX 77099-3543

Field Custody:	Client
Client/Field ID:	23B2636
	Effluent WB
Sample Collection:	02-14-23/0800
Lab ID No:	23.2306x
Custody Date:	02-17-23/1055
Sample Description:	Water

CERTIFICATE OF ANALYSIS

Parameter	Units	Results	Analysis Date	Method	Detection Limit
Uranium	pCi/l	0.3 ± 0.2	3-1-23/1616	EPA 908.0	0.4
Uranium	ug/l	0.4 ± 0.3	Calc	Calc	Calc

Thomas J. Weeks
Laboratory Manager

Test results meet all requirements of the 2016 TNI standards. Statement of estimated uncertainty available upon request. Test results refer only to sample(s) listed.
Contact person: Thomas Weeks (813) 229-2879.

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

E A397454

Page _____ Of _____

Name: Envirodyne Laboratories Inc.
Address: 11011 Brooklet Dr. Ste 230
City: Houston, Texas 77099
Contact: Laura Bonjonia

Analysis Request and Chain of Custody Record

Phone: 281-568-7880 Fax:

Project No. Client/Project 23B2626 / 23B2636

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Influent GC	2-14-23 0900			1-LT Amber	Liquid	HNO3	URANIUM 23.2305				
	Effluent GC	1			1	1	HNO3	1 23.2305X				
	Influent WB	2-14-23 0900			1-LT Amber	Liquid	HNO3	URANIUM 23.2306				
	Effluent WB	1			1	1	HNO3	1 23.2306X				
								* STANDARD TAT				

Samplers: (Signature)	Relinquished by: (Signature) Francisco Y	Date 2-16-23 Time: 1540	Received by: (Signature)	Date 2-16-23 Time: 1540 Seal Intact?
Affiliation	Relinquished by: (Signature)	Date 2-16-23 Time: 1540	Received by: (Signature) UPS	Date 2-16-23 Time: 540 Seal Intact?
	Relinquished by: (Signature)	Date: Time:	Received by Lab: (Signature)	Date: Time: Seal Intact?
Remarks: SUB TO KNL	FLOW: Meter Reading: Cl2 Residual: Mn Correction: Cl2 Corrected	Arrival Temp.	Data Results To: 1. KNL LR/R 2-17-23/1055	Laboratory No.
			Site Representative:	Date: Time:

EMSL Analytical, Inc.
5950 Fairbanks N. Houston Rd. Houston, TX 77040
Phone/Fax: (713) 686-3635 / (713) 686-3645
http://www.EMSL.com / houstonlab@emsl.com

EMSL Order ID: 152300921
Customer ID: ENDY62
Customer PO:
Project ID:

Attn: Pepe
Envirodyne Laboratories, Inc.
11011 Brooklet
Suite 230
Houston, TX 77099
Proj: 23B2626/23B2636

Phone: (281) 568-7880
Fax: (281) 568-8004
Received: 02/16/2023
Analyzed: 02/23/2023

Test Report: Determination of Asbestos Structures >10µm in Drinking Water Performed by the 100.2 Method (EPA 600/R-94/134)

Sample ID Client / EMSL	Sample Filtration Date/Time	Original Sample Vol. Filtered (ml)	Effective Filter Area (mm²)	Area Analyzed (mm²)	ASBESTOS Asbestos Types	Fibers Detected	Analytical Sensitivity	Concentration	Confidence Limits
							MFL (million fibers per liter)		
Influent GC - 23B2626 152300921-0001	2/16/2023 04:20 PM	25	1282	0.2580	None Detected	ND	0.20	<0.20	0.00 - 0.73
Collection Date/Time:	*02/14/2023 08:00 AM*								
Effluent GC - 23B2626 152300921-0002	2/16/2023 04:40 PM	50	1282	0.1419	None Detected	ND	0.18	<0.18	0.00 - 0.67
Collection Date/Time:	*02/14/2023 08:00 AM*								
Influent WB - 23B2636 152300921-0003	2/16/2023 04:40 PM	5	1282	0.2580	None Detected	ND	0.99	<0.99	0.00 - 3.70
Collection Date/Time:	*02/14/2023 08:00 AM*								
Due to excessive particulate the analytical sensitivity of 0.2 MFL as required by the method was not reached.									
Effluent WB - 23B2636 152300921-0004	2/16/2023 05:00 PM	50	1282	0.1419	None Detected	ND	0.18	<0.18	0.00 - 0.67
Collection Date/Time:	*02/14/2023 08:00 AM*								

Sample temperature at receipt: 11.0 degrees C / Samples held beyond the accepted holding time.

Analyst(s)
Michelle Leggett (4)

Michelle Leggett

Michelle Leggett, Laboratory Manager
or Other Approved Signatory

Any questions please contact Michelle Leggett.

Initial report from: 02/23/2023 13:53:40

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

E A397453

Analysis Request and Chain of Custody Record

Name: Envirodyne Laboratories Inc.
Address: 11011 Brooklet Dr Ste 230
City: Houston, Texas 77099
Contact: Laura Bonjonia
Phone: 281-568-7880 Fax:

Project No
Client/Project 23B2636

860-43358 Chain of Custody

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REC	Analysis Time
	Influent WB	2-14-23 0900			250ml/P	Liquid	HNO3	Mercury	
	"	"			1-LT Amber	"	H2SO4	Phenol	
	"	"			250ml/P	"	NaOH	Cyanide (Total & Amenable)	
	"	"			(2) 1-LT Amber	"		BNA, Pesticides, PCBs (EPA 625)	
	Effluent - WB	2-14-23 0900			250ml/P	Liquid	HNO3	Mercury	
	"	"			1-LT Amber	"	H2SO4	Phenol	
	"	"			250ml/P	"	NaOH	Cyanide (Total & Amenable)	
	"	"			(2) 1-LT Amber	"		BNA, Pesticides, PCBs (EPA 625)	
								* Standard TAT	

Temp: IR ID HOU-343
C/F: -0.4 4.4
Corrected Temp: 4.0

Samplers (Signature)	Relinquished by (Signature) Freddy	Date 2-16-23 Time 1424	Received by (Signature)	Date 2-16-23 Time 1424 Seal Intact?
Affiliation	Relinquished by (Signature)	Date 2-16-23 Time 1500	Received by (Signature)	Date 2-16-23 Time 1500 Seal Intact?
	Relinquished by (Signature)	Date 2 16 23 Time 1530	Received by Lab (Signature)	Date 2/16/23 Time 1530 Seal Intact?
Remarks: XENCO SUB TO	FLOW: Meter Reading: Cl2 Residual: Mn Correction: Cl2 Corrected	Arrival Temp	Data Results To: 1. Site Representative	Date: Time: Laboratory No.

Page 36 of 38

2/24/2023

Envirodyne Laboratories, Inc
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

E A397452

Name: Envirodyne Laboratories Inc.
Address: 11011 Brooklet Dr Ste 230
City. Houston, Texas 77099
Contact: Laura Bonjonia Phone: 281-568-7880 Fax

Analysis Request and Chain of Custody Record

Project No. Client/Project 23B26136

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Matl)	Sample Type (Liquid, Sludge, etc)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	Influent WB	2.14.23 0900			(2)40ml VIALS	Liquid	ICE HCl	SVOC				
	"	"			(2)1-LT AMBER	"	ICE	Ethylene Dibromide (EDB)				
	"	"			1-LT AMBER	"	ICE	Herbicides				
	Effluent WB	2-14-23 0800			(2)40ml VIALS	Liquid	ICE HCl	SVOC				
	"	"			(2)1-LT AMBER	"	ICE	Ethylene Dibromide (EDB)				
	"	"			1-LT AMBER	"	ICE	Herbicides				
								* Standard TAT				

Temp: 4.4 IR ID:HOU-343
C/F -0.4
Corrected Temp: 4.0

Samplers: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Seal Intact?
	Fridge #Y	2-16-23 1421		2-16-23 1421	
Affiliation	Relinquished by: (Signature)	2-16-23 1500	Received by (Signature)	2-16-23 1500	Seal Intact?
	Relinquished by: (Signature)	2-16-23 1520	Received by Lab: (Signature)	2/16/23 1530	Seal Intact?

Remarks: SUB TO XENCO

FLOW:
Meter Reading:
Cl2 Residual:
Mn Correction:
Cl2 Corrected

Arrival Temp

Data Results To:

Site Representative

Date:
Time

Laboratory No.:

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Blank (B3B4051-BLK1)				Prepared & Analyzed: 16-Feb-23						
Dichlorodifluoromethane	<2.50	2.50	ug/L							
Chloromethane	<2.50	2.50	"							
Vinyl Chloride	<2.50	2.50	"							
Bromomethane	<2.50	2.50	"							
Chloroethane	<2.50	2.50	"							
Trichlorofluoromethane	<2.50	2.50	"							
Acetone	<10.0	10.0	"							
Acrolein	<2.50	2.50	"							
1,1-Dichloroethene	<2.50	2.50	"							
Carbon Disulfide	<2.50	2.50	"							
Acetonitrile	<2.50	2.50	"							
Methylene Chloride	<2.50	2.50	"							
Acrylonitrile	<2.50	2.50	"							
MTBE (Methyl tert-butyl ether)	<2.50	2.50	"							
trans-1,2-Dichloroethene	<2.50	2.50	"							
1,1-Dichloroethane	<2.50	2.50	"							
Vinyl Acetate	<2.50	2.50	"							
2,2-Dichloropropane	<2.50	2.50	"							
cis-1,2-Dichloroethene	<2.50	2.50	"							
Bromochloromethane	<2.50	2.50	"							
Chloroform	<2.50	2.50	"							
2-Butanone	<10.0	10.0	"							
1,2-Dichloroethane	<2.50	2.50	"							
1,1,1-Trichloroethane	<2.50	2.50	"							
Tetrahydrofuran	<2.50	2.50	"							
Carbon Tetrachloride	<2.50	2.50	"							
1,1-Dichloropropene	<2.50	2.50	"							
Benzene	<2.50	2.50	"							
Trichloroethene	<2.50	2.50	"							
1,2-Dichloropropane	<2.50	2.50	"							
2-Pentanone	<2.50	2.50	"							
Dibromomethane	<2.50	2.50	"							

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of		
Project:	Seguin, City of - WWTP		
Work Order:	23B2636	**Reported:**	25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Blank (B3B4051-BLK1)				Prepared & Analyzed: 16-Feb-23						
Bromodichloromethane	<2.50	2.50	ug/L							
2-Chloroethyl vinyl ether	<2.50	2.50	"							
cis-1,3-Dichloropropene	<2.50	2.50	"							
trans-1,3-Dichloropropene	<2.50	2.50	"							
1,1,2-Trichloroethane	<2.50	2.50	"							
Dibromochloromethane	<2.50	2.50	"							
1,2-Dibromoethane	<2.50	2.50	"							
4-Methyl-2-Pentanone	<10.0	10.0	"							
Toluene	<2.50	2.50	"							
Tetrachloroethene	<2.50	2.50	"							
1,3-Dichloropropane	<2.50	2.50	"							
2-Hexanone	<10.0	10.0	"							
Chlorobenzene	<2.50	2.50	"							
1,1,1,2-Tetrachloroethane	<2.50	2.50	"							
Ethylbenzene	<2.50	2.50	"							
m,p-Xylene	<10.0	10.0	"							
o-Xylene	<2.50	2.50	"							
Styrene	<2.50	2.50	"							
Bromoform	<2.50	2.50	"							
Isopropylbenzene (Cumene)	<2.50	2.50	"							
1,1,2,2-Tetrachloroethane	<2.50	2.50	"							
1,2,3-Trichloropropane	<2.50	2.50	"							
Bromobenzene	<2.50	2.50	"							
Propylbenzene	<2.50	2.50	"							
2-Chlorotoluene	<2.50	2.50	"							
1,3,5-Trimethylbenzene	<2.50	2.50	"							
4-Chlorotoluene	<2.50	2.50	"							
tert-butyl Benzene	<2.50	2.50	"							
1,2,4-Trimethylbenzene	<2.50	2.50	"							
sec-butyl Benzene	<2.50	2.50	"							
p-Isopropyltoluene	<2.50	2.50	"							
1,3-Dichlorobenzene	<2.50	2.50	"							

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Blank (B3B4051-BLK1)				Prepared & Analyzed: 16-Feb-23						
1,4-Dichlorobenzene	<2.50	2.50	ug/L							
Benzyl Chloride	<2.50	2.50	"							
n-butyl Benzene	<2.50	2.50	"							
1,2-Dichlorobenzene	<2.50	2.50	"							
1,2-Dibromo-3-chloropropane	<2.50	2.50	"							
1,2,4-Trichlorobenzene	<2.50	2.50	"							
Hexachlorobutadiene	<2.50	2.50	"							
Naphthalene	<2.50	2.50	"							
1,2,3-Trichlorobenzene	<2.50	2.50	"							
Total Trihalomethanes	<10.0	10.0	"							
Total Xylenes	<7.50	7.50	"							
Surrogate: Dibromofluoromethane	*27*		"	*30.0*		*90.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*31*		"	*30.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*30*		"	*30.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*30*		"	*30.0*		*100*	*70-130*			

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
LCS (B3B4051-BS1)				Prepared & Analyzed: 16-Feb-23						
Dichlorodifluoromethane	19.1	2.50	ug/L	20.0		95.5	1.16-250			
Chloromethane	17.9	2.50	"	20.0		89.7	1-205			
Vinyl Chloride	18.7	2.50	"	20.0		93.4	1-251			
Bromomethane	18.6	2.50	"	20.0		93.0	15-185			
Chloroethane	18.5	2.50	"	20.0		92.3	40-160			
Trichlorofluoromethane	18.1	2.50	"	20.0		90.6	17-181			
Acetone	21.6	10.0	"	20.0		108	35.9-210			
Acrolein	18.8	2.50	"	20.0		94.0	60-140			
1,1-Dichloroethene	17.1	2.50	"	20.0		85.6	50-150			
Carbon Disulfide	17.4	2.50	"	20.0		87.1	7-120			
Acetonitrile	17.8	2.50	"	20.0		89.2	70-120			
Methylene Chloride	18.2	2.50	"	20.0		91.2	60-140			
Acrylonitrile	18.8	2.50	"	20.0		93.8	60-140			
MTBE (Methyl tert-butyl ether)	17.7	2.50	"	20.0		88.4	70-120			
trans-1,2-Dichloroethene	19.0	2.50	"	20.0		94.8	70-130			
1,1-Dichloroethane	18.1	2.50	"	20.0		90.6	70-130			
Vinyl Acetate	13.3	2.50	"	20.0		66.6	60-140			
2,2-Dichloropropane	18.0	2.50	"	20.0		89.8	70-120			
cis-1,2-Dichloroethene	18.5	2.50	"	20.0		92.6	70-120			
Bromochloromethane	18.2	2.50	"	20.0		91.0	70-120			
Chloroform	18.6	2.50	"	20.0		92.8	70-135			
2-Butanone	20.6	10.0	"	20.0		103	48.6-151			
1,2-Dichloroethane	18.5	2.50	"	20.0		92.3	70-130			
1,1,1-Trichloroethane	18.3	2.50	"	20.0		91.4	56-162			
Tetrahydrofuran	17.8	2.50	"	20.0		89.1	70-130			
Carbon Tetrachloride	18.4	2.50	"	20.0		92.0	70-130			
1,1-Dichloropropene	17.0	2.50	"	20.0		85.2	70-120			
Benzene	18.4	2.50	"	20.0		92.2	65-135			
Trichloroethene	18.3	2.50	"	20.0		91.4	70-157			
1,2-Dichloropropane	18.6	2.50	"	20.0		93.0	35-165			
2-Pentanone	17.6	2.50	"	20.0		88.2	70-120			
Dibromomethane	18.8	2.50	"	20.0		94.2	70-120			

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Client:	Seguin, City of
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Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
LCS (B3B4051-BS1)				Prepared & Analyzed: 16-Feb-23						
Bromodichloromethane	18.1	2.50	ug/L	20.0		90.6	65-135			
2-Chloroethyl vinyl ether	17.7	2.50	"	20.0		88.4	1-225			
cis-1,3-Dichloropropene	19.2	2.50	"	20.0		96.0	25-175			
trans-1,3-Dichloropropene	18.5	2.50	"	20.0		92.5	50-150			
1,1,2-Trichloroethane	18.6	2.50	"	20.0		93.2	52-150			
Dibromochloromethane	18.5	2.50	"	20.0		92.6	70-135			
1,2-Dibromoethane	18.3	2.50	"	20.0		91.4	70-130			
4-Methyl-2-Pentanone	22.6	10.0	"	20.0		113	58.2-144			
Toluene	18.5	2.50	"	20.0		92.7	47-150			
Tetrachloroethene	22.0	2.50	"	20.0		110	64-148			
1,3-Dichloropropane	18.7	2.50	"	20.0		93.3	70-120			
2-Hexanone	21.6	10.0	"	20.0		108	51.8-156			
Chlorobenzene	16.8	2.50	"	20.0		84.2	65-135			
1,1,1,2-Tetrachloroethane	19.1	2.50	"	20.0		95.5	46-157			
Ethylbenzene	18.5	2.50	"	20.0		92.6	60-140			
m,p-Xylene	39.3	10.0	"	40.0		98.2	70-120			
o-Xylene	18.7	2.50	"	20.0		93.4	70-120			
Styrene	17.3	2.50	"	20.0		86.4	70-120			
Bromoform	17.7	2.50	"	20.0		88.5	70-130			
Isopropylbenzene (Cumene)	18.9	2.50	"	20.0		94.4	70-120			
1,1,2,2-Tetrachloroethane	16.7	2.50	"	20.0		83.6	46-157			
1,2,3-Trichloropropane	17.2	2.50	"	20.0		86.2	70-120			
Bromobenzene	17.6	2.50	"	20.0		87.8	70-120			
Propylbenzene	18.0	2.50	"	20.0		90.2	70-120			
2-Chlorotoluene	18.2	2.50	"	20.0		91.0	70-120			
1,3,5-Trimethylbenzene	18.9	2.50	"	20.0		94.6	70-120			
4-Chlorotoluene	18.6	2.50	"	20.0		93.0	70-120			
tert-butyl Benzene	17.4	2.50	"	20.0		86.8	70-120			
1,2,4-Trimethylbenzene	18.1	2.50	"	20.0		90.5	70-120			
sec-butyl Benzene	18.5	2.50	"	20.0		92.3	70-130			
p-Isopropyltoluene	18.8	2.50	"	20.0		93.8	70-120			
1,3-Dichlorobenzene	18.3	2.50	"	20.0		91.3	70-130			

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
LCS (B3B4051-BS1)				Prepared & Analyzed: 16-Feb-23						
1,4-Dichlorobenzene	18.8	2.50	ug/L	20.0		94.2	65-135			
Benzyl Chloride	14.7	2.50	"	20.0		73.6	70-120			
n-butyl Benzene	18.6	2.50	"	20.0		92.8	70-120			
1,2-Dichlorobenzene	17.4	2.50	"	20.0		87.0	65-135			
1,2-Dibromo-3-chloropropane	19.0	2.50	"	20.0		95.0	60-140			
1,2,4-Trichlorobenzene	17.8	2.50	"	20.0		89.0	70-120			
Hexachlorobutadiene	19.0	2.50	"	20.0		95.0	70-120			
Naphthalene	17.9	2.50	"	20.0		89.4	60-140			
1,2,3-Trichlorobenzene	17.4	2.50	"	20.0		86.8	60-140			
Total Trihalomethanes	72.9	10.0	"	80.0		91.1	35-155			
Total Xylenes	58.0	7.50	"	60.0		96.6	70-120			
Surrogate: Dibromofluoromethane	*29*		"	*30.0*		*98.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*30*		"	*30.0*		*100*	*70-130*			
Surrogate: Toluene-d8	*30*		"	*30.0*		*100*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*30*		"	*30.0*		*99.9*	*70-130*			

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Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
LCS Dup (B3B4051-BSD1)				Prepared & Analyzed: 16-Feb-23						
Dichlorodifluoromethane	20.4	2.50	ug/L	20.0		102	1.16-250	6.78	20	
Chloromethane	19.5	2.50	"	20.0		97.3	1-205	8.13	60	
Vinyl Chloride	19.1	2.50	"	20.0		95.6	1-251	2.33	66	
Bromomethane	18.5	2.50	"	20.0		92.4	15-185	0.755	61	
Chloroethane	18.6	2.50	"	20.0		93.1	40-160	0.863	78	
Trichlorofluoromethane	19.8	2.50	"	20.0		99.0	17-181	8.91	84	
Acetone	21.9	10.0	"	20.0		109	35.9-210	1.57	25.2	
Acrolein	19.1	2.50	"	20.0		95.6	60-140	1.63	60	
1,1-Dichloroethene	17.8	2.50	"	20.0		89.2	50-150	4.06	32	
Carbon Disulfide	18.2	2.50	"	20.0		91.2	7-120	4.60	20	
Acetonitrile	18.2	2.50	"	20.0		91.2	70-120	2.27	20	
Methylene Chloride	18.3	2.50	"	20.0		91.3	60-140	0.0548	28	
Acrylonitrile	18.5	2.50	"	20.0		92.6	60-140	1.39	60	
MTBE (Methyl tert-butyl ether)	18.0	2.50	"	20.0		90.0	70-120	1.91	20	
trans-1,2-Dichloroethene	19.4	2.50	"	20.0		97.2	70-130	2.40	45	
1,1-Dichloroethane	19.2	2.50	"	20.0		95.8	70-130	5.63	40	
Vinyl Acetate	13.5	2.50	"	20.0		67.6	60-140	1.56	20	
2,2-Dichloropropane	18.3	2.50	"	20.0		91.3	70-120	1.60	20	
cis-1,2-Dichloroethene	19.0	2.50	"	20.0		95.2	70-120	2.77	20	
Bromochloromethane	20.1	2.50	"	20.0		100	70-120	9.77	20	
Chloroform	18.8	2.50	"	20.0		93.8	70-135	1.02	54	
2-Butanone	18.8	10.0	"	20.0		94.2	48.6-151	8.83	21.6	
1,2-Dichloroethane	17.0	2.50	"	20.0		85.0	70-130	8.18	49	
1,1,1-Trichloroethane	18.1	2.50	"	20.0		90.4	56-162	0.990	36	
Tetrahydrofuran	18.2	2.50	"	20.0		91.0	70-130	2.05	20	
Carbon Tetrachloride	18.1	2.50	"	20.0		90.6	70-130	1.48	41	
1,1-Dichloropropene	17.8	2.50	"	20.0		88.8	70-120	4.02	20	
Benzene	18.4	2.50	"	20.0		92.2	65-135	0.0542	61	
Trichloroethene	18.8	2.50	"	20.0		94.1	70-157	2.86	48	
1,2-Dichloropropane	18.9	2.50	"	20.0		94.7	35-165	1.87	55	
2-Pentanone	17.6	2.50	"	20.0		88.0	70-120	0.227	20	
Dibromomethane	19.1	2.50	"	20.0		95.3	70-120	1.16	20	

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
LCS Dup (B3B4051-BSD1)				Prepared & Analyzed: 16-Feb-23						
Bromodichloromethane	18.0	2.50	ug/L	20.0		90.1	65-135	0.553	56	
2-Chloroethyl vinyl ether	20.6	2.50	"	20.0		103	1-225	15.1	71	
cis-1,3-Dichloropropene	18.9	2.50	"	20.0		94.4	25-175	1.73	58	
trans-1,3-Dichloropropene	18.7	2.50	"	20.0		93.7	50-150	1.29	86	
1,1,2-Trichloroethane	18.9	2.50	"	20.0		94.6	52-150	1.44	45	
Dibromochloromethane	18.3	2.50	"	20.0		91.6	70-135	1.09	50	
1,2-Dibromoethane	18.5	2.50	"	20.0		92.4	70-130	1.14	20	
4-Methyl-2-Pentanone	23.2	10.0	"	20.0		116	58.2-144	2.79	24.8	
Toluene	19.2	2.50	"	20.0		96.0	47-150	3.50	41	
Tetrachloroethene	22.5	2.50	"	20.0		112	64-148	1.98	39	
1,3-Dichloropropane	19.0	2.50	"	20.0		95.2	70-120	1.96	20	
2-Hexanone	22.3	10.0	"	20.0		112	51.8-156	3.14	23.6	
Chlorobenzene	17.3	2.50	"	20.0		86.6	65-135	2.81	53	
1,1,1,2-Tetrachloroethane	18.9	2.50	"	20.0		94.5	46-157	1.05	20	
Ethylbenzene	19.2	2.50	"	20.0		96.2	60-140	3.71	63	
m,p-Xylene	40.0	10.0	"	40.0		99.9	70-120	1.69	20	
o-Xylene	19.4	2.50	"	20.0		97.0	70-120	3.78	20	
Styrene	17.7	2.50	"	20.0		88.6	70-120	2.51	20	
Bromoform	17.9	2.50	"	20.0		89.4	70-130	0.956	42	
Isopropylbenzene (Cumene)	19.3	2.50	"	20.0		96.4	70-120	2.10	20	
1,1,2,2-Tetrachloroethane	17.0	2.50	"	20.0		85.0	46-157	1.72	61	
1,2,3-Trichloropropane	18.0	2.50	"	20.0		90.2	70-120	4.54	20	
Bromobenzene	17.8	2.50	"	20.0		89.0	70-120	1.36	20	
Propylbenzene	18.3	2.50	"	20.0		91.5	70-120	1.49	20	
2-Chlorotoluene	18.6	2.50	"	20.0		93.2	70-120	2.50	20	
1,3,5-Trimethylbenzene	19.4	2.50	"	20.0		96.9	70-120	2.45	20	
4-Chlorotoluene	18.8	2.50	"	20.0		94.0	70-120	1.07	20	
tert-butyl Benzene	17.7	2.50	"	20.0		88.6	70-120	2.17	20	
1,2,4-Trimethylbenzene	18.4	2.50	"	20.0		92.2	70-120	1.81	20	
sec-butyl Benzene	19.0	2.50	"	20.0		94.8	70-130	2.62	20	
p-Isopropyltoluene	19.8	2.50	"	20.0		99.0	70-120	5.44	20	
1,3-Dichlorobenzene	18.5	2.50	"	20.0		92.6	70-130	1.41	43	

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Volatile Organic Compounds by EPA 624.1 - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
LCS Dup (B3B4051-BSD1)				Prepared & Analyzed: 16-Feb-23						
1,4-Dichloroebenzene	19.0	2.50	ug/L	20.0		95.2	65-135	1.06	57	
Benzyl Chloride	14.5	2.50	"	20.0		72.7	70-120	1.16	20	
n-butyl Benzene	18.8	2.50	"	20.0		94.2	70-120	1.50	20	
1,2-Dichlorobenzene	17.5	2.50	"	20.0		87.6	65-135	0.573	57	
1,2-Dibromo-3-chloropropane	17.2	2.50	"	20.0		85.8	60-140	10.2	20	
1,2,4-Trichlorobenzene	17.8	2.50	"	20.0		88.8	70-120	0.225	20	
Hexachlorobutadiene	18.5	2.50	"	20.0		92.4	70-120	2.77	20	
Naphthalene	18.3	2.50	"	20.0		91.6	60-140	2.32	20	
1,2,3-Trichlorobenzene	17.9	2.50	"	20.0		89.7	60-140	3.34	20	
Total Trihalomethanes	73.0	10.0	"	80.0		91.2	35-155	0.0823	20	
Total Xylenes	59.4	7.50	"	60.0		98.9	70-120	2.37	20	
Surrogate: Dibromofluoromethane	*30*		"	*30.0*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*29*		"	*30.0*		*96.7*	*70-130*			
Surrogate: Toluene-d8	*30*		"	*30.0*		*101*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*30*		"	*30.0*		*99.9*	*70-130*			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Matrix Spike (B3B4051-MS1)	**Source: 23B2626-02**			Prepared & Analyzed: 16-Feb-23						
Dichlorodifluoromethane	32.7	5.00	ug/L	40.0	ND	81.8	1.16-250			
Chloromethane	36.5	5.00	"	40.0	ND	91.2	1-273			
Vinyl Chloride	34.9	5.00	"	40.0	ND	87.2	5-195			
Bromomethane	35.1	5.00	"	40.0	ND	87.8	1-242			
Chloroethane	34.3	5.00	"	40.0	ND	85.6	14-230			
Trichlorofluoromethane	35.8	5.00	"	40.0	ND	89.6	50-150			
Acetone	26.7	20.0	"	40.0	ND	66.8	11.5-191			
Acrolein	41.8	5.00	"	40.0	ND	104	40-160			
1,1-Dichloroethene	32.6	5.00	"	40.0	ND	81.4	1-234			
Carbon Disulfide	30.0	5.00	"	40.0	ND	75.0	7-120			
Acetonitrile	31.6	5.00	"	40.0	ND	79.0	70-120			
Methylene Chloride	32.6	5.00	"	40.0	ND	81.4	1-221			
Acrylonitrile	35.8	5.00	"	40.0	ND	89.4	40-160			
MTBE (Methyl tert-butyl ether)	32.6	5.00	"	40.0	ND	81.6	70-120			
trans-1,2-Dichloroethene	35.6	5.00	"	40.0	ND	89.0	54-156			
1,1-Dichloroethane	34.6	5.00	"	40.0	ND	86.4	59-155			
Vinyl Acetate	33.1	5.00	"	40.0	ND	82.6	60-140			
2,2-Dichloropropane	29.7	5.00	"	40.0	ND	74.2	70-120			
cis-1,2-Dichloroethene	35.5	5.00	"	40.0	ND	88.8	70-120			
Bromochloromethane	34.1	5.00	"	40.0	ND	85.3	70-120			
Chloroform	34.2	5.00	"	40.0	6.32	69.7	51-138			
2-Butanone	31.4	20.0	"	40.0	ND	78.4	32.5-154			
1,2-Dichloroethane	36.2	5.00	"	40.0	ND	90.6	49-155			
1,1,1-Trichloroethane	33.8	5.00	"	40.0	ND	84.4	70-130			
Tetrahydrofuran	34.3	5.00	"	40.0	ND	85.7	70-130			
Carbon Tetrachloride	33.7	5.00	"	40.0	ND	84.2	70-140			
1,1-Dichloropropene	30.7	5.00	"	40.0	ND	76.8	70-120			
Benzene	34.5	5.00	"	40.0	ND	86.2	37-151			
Trichloroethene	32.8	5.00	"	40.0	ND	82.0	65-135			
1,2-Dichloropropane	34.1	5.00	"	40.0	ND	85.3	1-210			
2-Pentanone	31.3	5.00	"	40.0	ND	78.2	70-120			
Dibromomethane	37.0	5.00	"	40.0	ND	92.6	70-120			

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Matrix Spike (B3B4051-MS1)	**Source: 23B2626-02**			Prepared & Analyzed: 16-Feb-23						
Bromodichloromethane	34.2	5.00	ug/L	40.0	7.73	66.1	35-155			
2-Chloroethyl vinyl ether	<5.00	5.00	"	40.0	<5.00		1-305	0		Q
cis-1,3-Dichloropropene	33.4	5.00	"	40.0	ND	83.6	1-227			
trans-1,3-Dichloropropene	35.1	5.00	"	40.0	ND	87.7	17-183			
1,1,2-Trichloroethane	35.1	5.00	"	40.0	ND	87.7	70-130			
Dibromochloromethane	33.7	5.00	"	40.0	4.42	73.3	53-149			
1,2-Dibromoethane	34.5	5.00	"	40.0	ND	86.2	70-120			
4-Methyl-2-Pentanone	42.0	20.0	"	40.0	ND	105	44.3-156			
Toluene	34.4	5.00	"	40.0	ND	86.0	70-130			
Tetrachloroethene	22.1	5.00	"	40.0	ND	55.2	70-130			Q
1,3-Dichloropropane	34.7	5.00	"	40.0	ND	86.7	70-120			
2-Hexanone	39.2	20.0	"	40.0	ND	98.0	39.5-157			
Chlorobenzene	30.9	5.00	"	40.0	ND	77.2	37-160			
1,1,1,2-Tetrachloroethane	35.3	5.00	"	40.0	ND	88.2	46-157			
Ethylbenzene	33.5	5.00	"	40.0	ND	83.8	37-162			
m,p-Xylene	69.4	20.0	"	80.0	ND	86.7	70-120			
o-Xylene	34.2	5.00	"	40.0	ND	85.6	70-120			
Styrene	31.0	5.00	"	40.0	ND	77.6	70-120			
Bromoform	32.2	5.00	"	40.0	ND	80.5	45-169			
Isopropylbenzene (Cumene)	33.8	5.00	"	40.0	ND	84.4	70-120			
1,1,2,2-Tetrachloroethane	33.7	5.00	"	40.0	ND	84.3	60-140			
1,2,3-Trichloropropane	34.3	5.00	"	40.0	ND	85.7	70-120			
Bromobenzene	31.7	5.00	"	40.0	ND	79.2	70-120			
Propylbenzene	33.0	5.00	"	40.0	ND	82.4	70-120			
2-Chlorotoluene	33.9	5.00	"	40.0	ND	84.7	70-120			
1,3,5-Trimethylbenzene	33.9	5.00	"	40.0	ND	84.8	70-120			
4-Chlorotoluene	33.7	5.00	"	40.0	ND	84.3	70-120			
tert-butyl Benzene	35.0	5.00	"	40.0	ND	87.4	70-120			
1,2,4-Trimethylbenzene	31.8	5.00	"	40.0	ND	79.5	70-120			
sec-butyl Benzene	32.9	5.00	"	40.0	ND	82.2	70-120			
p-Isopropyltoluene	32.3	5.00	"	40.0	ND	80.8	70-120			
1,3-Dichlorobenzene	33.4	5.00	"	40.0	ND	83.4	59-156			

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Matrix Spike (B3B4051-MS1)	**Source: 23B2626-02**			Prepared & Analyzed: 16-Feb-23						
1,4-Dichlorobenzene	34.9	5.00	ug/L	40.0	ND	87.2	18-190			
Benzyl Chloride	23.0	5.00	"	40.0	ND	57.6	70-120			Q
n-butyl Benzene	31.6	5.00	"	40.0	ND	79.1	70-120			
1,2-Dichlorobenzene	31.5	5.00	"	40.0	ND	78.8	18-190			
1,2-Dibromo-3-chloropropane	33.7	5.00	"	40.0	ND	84.2	60-140			
1,2,4-Trichlorobenzene	30.3	5.00	"	40.0	ND	75.8	70-120			
Hexachlorobutadiene	29.2	5.00	"	40.0	ND	73.0	70-120			
Naphthalene	33.1	5.00	"	40.0	ND	82.8	60-140			
1,2,3-Trichlorobenzene	31.8	5.00	"	40.0	ND	79.4	60-140			
Total Trihalomethanes	134	20.0	"	160	18.5	72.4	35-155			
Total Xylenes	104	15.0	"	120	ND	86.3	70-120			
Surrogate: Dibromofluoromethane	*29*		"	*30.0*		*96.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*31*		"	*30.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*29*		"	*30.0*		*98.0*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*30*		"	*30.0*		*98.6*	*70-130*			

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Matrix Spike Dup (B3B4051-MSD1)	**Source: 23B2626-02**			Prepared & Analyzed: 16-Feb-23						
Dichlorodifluoromethane	32.8	5.00	ug/L	40.0	ND	82.0	1.16-250	0.305	20	
Chloromethane	32.0	5.00	"	40.0	ND	79.9	1-273	13.2	60	
Vinyl Chloride	32.6	5.00	"	40.0	ND	81.4	5-195	6.82	66	
Bromomethane	32.1	5.00	"	40.0	ND	80.4	1-242	8.92	61	
Chloroethane	34.4	5.00	"	40.0	ND	86.0	14-230	0.350	78	
Trichlorofluoromethane	33.4	5.00	"	40.0	ND	83.4	50-150	7.05	84	
Acetone	25.3	20.0	"	40.0	ND	63.2	11.5-191	5.54	27.6	
Acrolein	37.1	5.00	"	40.0	ND	92.8	40-160	11.9	60	
1,1-Dichloroethene	29.3	5.00	"	40.0	ND	73.4	1-234	10.5	32	
Carbon Disulfide	28.7	5.00	"	40.0	ND	71.8	7-120	4.43	20	
Acetonitrile	32.7	5.00	"	40.0	ND	81.7	70-120	3.30	20	
Methylene Chloride	32.7	5.00	"	40.0	ND	81.8	1-221	0.429	28	
Acrylonitrile	38.3	5.00	"	40.0	ND	95.7	40-160	6.81	60	
MTBE (Methyl tert-butyl ether)	32.6	5.00	"	40.0	ND	81.5	70-120	0.123	20	
trans-1,2-Dichloroethene	33.7	5.00	"	40.0	ND	84.2	54-156	5.49	45	
1,1-Dichloroethane	31.8	5.00	"	40.0	ND	79.4	59-155	8.44	40	
Vinyl Acetate	29.5	5.00	"	40.0	ND	73.7	60-140	11.4	20	
2,2-Dichloropropane	28.5	5.00	"	40.0	ND	71.2	70-120	4.12	20	
cis-1,2-Dichloroethene	32.9	5.00	"	40.0	ND	82.2	70-120	7.78	20	
Bromochloromethane	34.2	5.00	"	40.0	ND	85.4	70-120	0.176	20	
Chloroform	32.3	5.00	"	40.0	6.32	65.0	51-138	5.59	54	
2-Butanone	34.4	20.0	"	40.0	ND	86.1	32.5-154	9.36	21.6	
1,2-Dichloroethane	35.4	5.00	"	40.0	ND	88.4	49-155	2.40	49	
1,1,1-Trichloroethane	33.7	5.00	"	40.0	ND	84.4	70-130	0.0592	36	
Tetrahydrofuran	34.6	5.00	"	40.0	ND	86.5	70-130	0.929	20	
Carbon Tetrachloride	32.6	5.00	"	40.0	ND	81.5	70-140	3.20	41	
1,1-Dichloropropene	29.9	5.00	"	40.0	ND	74.6	70-120	2.84	20	
Benzene	34.2	5.00	"	40.0	ND	85.6	37-151	0.640	61	
Trichloroethene	32.6	5.00	"	40.0	ND	81.6	65-135	0.550	48	
1,2-Dichloropropane	35.0	5.00	"	40.0	ND	87.5	1-210	2.55	55	
2-Pentanone	31.7	5.00	"	40.0	ND	79.4	70-120	1.46	20	
Dibromomethane	37.5	5.00	"	40.0	ND	93.8	70-120	1.34	20	

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Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Matrix Spike Dup (B3B4051-MSD1)	**Source: 23B2626-02**			Prepared & Analyzed: 16-Feb-23						
Bromodichloromethane	33.9	5.00	ug/L	40.0	7.73	65.3	35-155	0.882	56	
2-Chloroethyl vinyl ether	<5.00	5.00	"	40.0	<5.00		1-305	0	71	Q
cis-1,3-Dichloropropene	35.4	5.00	"	40.0	ND	88.5	1-227	5.75	58	
trans-1,3-Dichloropropene	34.5	5.00	"	40.0	ND	86.4	17-183	1.55	86	
1,1,2-Trichloroethane	35.2	5.00	"	40.0	ND	88.0	70-130	0.398	45	
Dibromochloromethane	34.4	5.00	"	40.0	4.42	74.8	53-149	1.82	50	
1,2-Dibromoethane	34.9	5.00	"	40.0	ND	87.4	70-120	1.38	20	
4-Methyl-2-Pentanone	41.2	20.0	"	40.0	ND	103	44.3-156	2.07	27.4	
Toluene	33.2	5.00	"	40.0	ND	83.0	70-130	3.49	41	
Tetrachloroethene	21.7	5.00	"	40.0	ND	54.2	70-130	1.92	39	Q
1,3-Dichloropropane	34.2	5.00	"	40.0	ND	85.6	70-120	1.28	20	
2-Hexanone	39.3	20.0	"	40.0	ND	98.4	39.5-157	0.305	23.6	
Chlorobenzene	30.7	5.00	"	40.0	ND	76.6	37-160	0.780	53	
1,1,1,2-Tetrachloroethane	34.3	5.00	"	40.0	ND	85.8	46-157	2.70	20	
Ethylbenzene	33.2	5.00	"	40.0	ND	83.0	37-162	1.02	63	
m,p-Xylene	70.0	20.0	"	80.0	ND	87.5	70-120	0.947	20	
o-Xylene	34.5	5.00	"	40.0	ND	86.2	70-120	0.698	20	
Styrene	31.4	5.00	"	40.0	ND	78.6	70-120	1.28	20	
Bromoform	32.4	5.00	"	40.0	ND	81.1	45-169	0.743	42	
Isopropylbenzene (Cumene)	34.1	5.00	"	40.0	ND	85.4	70-120	1.12	20	
1,1,2,2-Tetrachloroethane	33.8	5.00	"	40.0	ND	84.6	60-140	0.296	61	
1,2,3-Trichloropropane	34.2	5.00	"	40.0	ND	85.6	70-120	0.117	20	
Bromobenzene	33.0	5.00	"	40.0	ND	82.6	70-120	4.27	20	
Propylbenzene	33.0	5.00	"	40.0	ND	82.5	70-120	0.0606	20	
2-Chlorotoluene	34.0	5.00	"	40.0	ND	85.0	70-120	0.412	20	
1,3,5-Trimethylbenzene	34.6	5.00	"	40.0	ND	86.6	70-120	2.16	20	
4-Chlorotoluene	34.0	5.00	"	40.0	ND	84.9	70-120	0.709	20	
tert-butyl Benzene	35.8	5.00	"	40.0	ND	89.5	70-120	2.32	20	
1,2,4-Trimethylbenzene	32.8	5.00	"	40.0	ND	82.0	70-120	3.16	20	
sec-butyl Benzene	33.5	5.00	"	40.0	ND	83.8	70-120	1.87	20	
p-Isopropyltoluene	33.7	5.00	"	40.0	ND	84.4	70-120	4.30	20	
1,3-Dichlorobenzene	33.6	5.00	"	40.0	ND	84.0	59-156	0.716	43	

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B4051 - Organics										
Matrix Spike Dup (B3B4051-MSD1)	**Source: 23B2626-02**			Prepared & Analyzed: 16-Feb-23						
1,4-Dichlorobenzene	35.3	5.00	ug/L	40.0	ND	88.4	18-190	1.37	57	
Benzyl Chloride	24.1	5.00	"	40.0	ND	60.4	70-120	4.75	20	Q
n-butyl Benzene	32.8	5.00	"	40.0	ND	82.0	70-120	3.54	20	
1,2-Dichlorobenzene	33.2	5.00	"	40.0	ND	82.9	18-190	5.13	57	
1,2-Dibromo-3-chloropropane	33.1	5.00	"	40.0	ND	82.6	60-140	1.86	20	
1,2,4-Trichlorobenzene	30.9	5.00	"	40.0	ND	77.2	70-120	1.89	20	
Hexachlorobutadiene	32.7	5.00	"	40.0	ND	81.8	70-120	11.4	20	
Naphthalene	34.4	5.00	"	40.0	ND	85.9	60-140	3.68	20	
1,2,3-Trichlorobenzene	32.9	5.00	"	40.0	ND	82.2	60-140	3.47	20	
Total Trihalomethanes	133	20.0	"	160	18.5	71.6	35-155	0.973	20	
Total Xylenes	104	15.0	"	120	ND	87.1	70-120	0.865	20	
Surrogate: Dibromofluoromethane	*29*		"	*30.0*		*98.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*30*		"	*30.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*30*		"	*30.0*		*99.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*29*		"	*30.0*		*97.6*	*70-130*			

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Volatile Organic Compounds by EPA 624.1 - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Wet Chemistry - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B3937 - Inorganics										
Blank (B3B3937-BLK1)				Prepared & Analyzed: 16-Feb-23						
Fluoride	<0.10	0.10	mg/L							
LCS (B3B3937-BS1)				Prepared & Analyzed: 16-Feb-23						
Fluoride	0.52		mg/L	0.500		103	90-110			
Matrix Spike (B3B3937-MS1)		**Source: 23B2305-01**		Prepared & Analyzed: 16-Feb-23						
Fluoride	1.22	0.20	mg/L	1.00	0.22	101	80-120			
Matrix Spike Dup (B3B3937-MSD1)		**Source: 23B2305-01**		Prepared & Analyzed: 16-Feb-23						
Fluoride	1.21	0.20	mg/L	1.00	0.22	99.6	80-120	0.822	20	
Batch B3C3319 - Inorganics										
Blank (B3C3319-BLK1)				Prepared & Analyzed: 15-Feb-23						
Nitrate-N	<0.50	0.50	mg/L							
LCS (B3C3319-BS1)				Prepared & Analyzed: 15-Feb-23						
Nitrate-N	2.78		mg/L	3.00		92.7	90-110			
Matrix Spike (B3C3319-MS1)		**Source: 23B2626-03**		Prepared & Analyzed: 15-Feb-23						
Nitrate-N	17.0	2.50	mg/L	3.00	13.9	103	80-120			
Matrix Spike Dup (B3C3319-MSD1)		**Source: 23B2626-03**		Prepared & Analyzed: 15-Feb-23						
Nitrate-N	16.7	2.50	mg/L	3.00	13.9	92.3	80-120	1.96	20	

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Metals - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B5164 - Inorganics										
Blank (B3B5164-BLK1)				Prepared & Analyzed: 15-Feb-23						
Chromium, Hexavalent	<1.0	1.0	ug/L							
LCS (B3B5164-BS1)				Prepared & Analyzed: 15-Feb-23						
Chromium, Hexavalent	50.8		ug/L	50.0		102	95-105			
Matrix Spike (B3B5164-MS1)	**Source: 23B2626-01**			Prepared & Analyzed: 15-Feb-23						
Chromium, Hexavalent	45.2	1.0	ug/L	50.0	ND	90.4	80-120			
Matrix Spike Dup (B3B5164-MSD1)	**Source: 23B2626-01**			Prepared & Analyzed: 15-Feb-23						
Chromium, Hexavalent	45.3	1.0	ug/L	50.0	ND	90.6	80-120	0.221	20	

Envirodyne Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Total Metals by ICP - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B5700 - Metals - EPA 200.2										
Blank (B3B5700-BLK1)				Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Vanadium	<5.0	5.0	ug/L							
LCS (B3B5700-BS1)				Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Vanadium	245		ug/L	250		98.0	85-115			
Matrix Spike (B3B5700-MS1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Vanadium	1020	10.0	ug/L	1000	ND	102	70-130			
Matrix Spike Dup (B3B5700-MSD1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Vanadium	1000	10.0	ug/L	1000	ND	100	70-130	1.78	20	
Batch B3B5707 - Metals - EPA 200.2										
Blank (B3B5707-BLK1)				Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Strontium	<5.0	5.0	ug/L							
LCS (B3B5707-BS1)				Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Strontium	139	5.0	ug/L	150		92.5	85-115			
Matrix Spike (B3B5707-MS1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Strontium	903	10.0	ug/L	300	614	96.6	70-130			
Matrix Spike Dup (B3B5707-MSD1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Strontium	907	10.0	ug/L	300	614	97.9	70-130	0.420	20	

Envirodyne Laboratories, Inc.

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B5717 - Metals - EPA 200.2										
Blank (B3B5717-BLK1)				Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Arsenic	<0.5	0.5	ug/L							
Thallium	<0.5	0.5	"							
Copper	<0.5	0.5	"							
Chromium	<2.0	2.0	"							
Silver	<0.5	0.5	"							
Nickel	<0.5	0.5	"							
Cadmium	3.6	0.50	"							B
Beryllium	<0.5	0.5	"							
Zinc	<2.0	2.0	"							
Selenium	<2.0	2.0	"							
Antimony	<0.5	0.5	"							
LCS (B3B5717-BS1)				Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Silver	72		ug/L	75.0		95.5	85-115			
Nickel	72.2		"	75.0		96.3	85-115			
Thallium	72.4		"	75.0		96.6	85-115			
Arsenic	71.7		"	75.0		95.5	85-115			
Chromium	74.3		"	75.0		99.1	85-115			
Beryllium	69.0		"	75.0		92.0	85-115			
Cadmium	75		"	75.0		99.9	85-115			
Copper	72.5		"	75.0		96.6	85-115			
Zinc	72.2		"	75.0		96.3	85-115			
Selenium	71.4		"	75.0		95.1	85-115			
Antimony	74.9		"	75.0		99.9	85-115			
Matrix Spike (B3B5717-MS1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Beryllium	87.0	0.5	ug/L	100	ND	87.0	70-130			
Nickel	98.5	0.5	"	100	3.05	95.4	70-130			
Cadmium	100	0.50	"	100	ND	103	70-130			
Silver	93	0.5	"	100	ND	92.8	70-130			
Copper	93.5	0.5	"	100	0.499	93.0	70-130			
Thallium	95.9	0.5	"	100	ND	95.9	70-130			
Arsenic	101	0.5	"	100	2.32	99.0	70-130			

Envirodyne Laboratories, Inc.

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Total Metals by ICP-MS - Quality Control

Envirodyne Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B5717 - Metals - EPA 200.2										
Matrix Spike (B3B5717-MS1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Chromium	91.2	2.0	ug/L	100	ND	91.2	70-130			
Zinc	195	2.0	"	100	96.3	98.3	70-130			
Selenium	95.7	2.0	"	100	ND	95.7	70-130			
Antimony	99.4	0.5	"	100	0.467	98.9	70-130			
Matrix Spike Dup (B3B5717-MSD1)	**Source: 23B2776-01**			Prepared: 23-Feb-23 Analyzed: 24-Feb-23						
Arsenic	106	0.5	ug/L	100	2.32	103	70-130	4.16	20	
Nickel	102	0.5	"	100	3.05	99.4	70-130	3.98	20	
Copper	98.5	0.5	"	100	0.499	98.0	70-130	5.22	20	
Silver	99	0.5	"	100	ND	99.2	70-130	6.62	20	
Cadmium	110	0.50	"	100	ND	107	70-130	3.82	20	
Chromium	96.3	2.0	"	100	ND	96.3	70-130	5.50	20	
Thallium	99.4	0.5	"	100	ND	99.4	70-130	3.52	20	
Beryllium	90.7	0.5	"	100	ND	90.7	70-130	4.16	20	
Selenium	101	2.0	"	100	ND	101	70-130	5.46	20	
Zinc	202	2.0	"	100	96.3	106	70-130	3.68	20	
Antimony	104	0.5	"	100	0.467	104	70-130	4.80	20	

Envirodyne Laboratories, Inc.

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Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

Envirodyne Laboratories, Inc
11011 Brooklet Dr., # 230
Houston, TX 77099
281.568.7880 Phone
www.envirodyne.com

Client:	Seguin, City of
Project:	Seguin, City of - WWTP
Work Order:	23B2636

Reported:
25-Apr-23 17:39

Notes and Definitions

Q	QC did not meet ELI acceptance criteria
L	Analyzed by third party laboratory
B	Target detected in method blank
ND	Analyte NOT DETECTED at or above the reporting limit
<	Result is less than the RL
a	Analyte not available for TNI/NELAP accreditation
n	Not accredited

Envirodyne Laboratories, Inc.

Laura Bonjonia

Laura Bonjonia For Monica Smith, Client Services Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

2382636

TCEQ Certification # T104704265

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E A394726

Analysis Request and Chain of Custody Record

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras
Phone: 830-401-2411 Fax: 830-401-2324

Project No.: Table II and III
Client/Project: Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	INFLUENT-Comp	2/13 to 2/14 9am to 8am		X	500ml-P	Liquid	ICE, HNO3	Sb,As,Be,C d,C r,C u,Hg,Ni,Se,Ag,T l,Zn,A				
	INFLUENT-Grab	2-14-23 8:10 AM	X		1 Lt-Amb	Liquid	ICE, H2SO4	Phenol				
	INFLUENT-Grab	2-14-23 8:15 AM	X		250 ml-P	Liquid	ICE, NaOH	Cyanide (Total & Amenable)				
	INFLUENT-Grab	2-14-23 8:18 AM	X	(2)	40 ml Vial	Liquid	ICE, HCl	VOC (EPA 624)				
	INFLUENT-Comp	2/13 to 2/14 9am to 8am		X	(2) 1 Lt-Amb	Liquid	ICE	BNA, Pesticides, PCBs (EPA 625)				
	INFLUENT-Comp	2/13 to 2/14 9am to 8am		X	250 ml/P	Liquid	ICE	Cr+6, F, NO3-N				

Samplers: (Signature) [signature]

Affiliation

Relinquished by: (Signature) Rene Porras — Date: 2-14-23 Time: 10 AM — Received by: (Signature) — Date: — Time: — Seal Intact?

Relinquished by: (Signature) — Date: — Time: — Received by: (Signature) — Date: — Time: — Seal Intact?

Relinquished by: (Signature) MD for Fedex — Date: 2/15/23 Time: 1015 — Received by Lab: (Signature) [signature] — Date: 2/15/23 Time: 1015 — Seal Intact?

Remarks:

FLOW: _____
Meter Reading: _____
Cl_2 Residual: _____
Mn Corrector: _____
Cl_2 Corrected _____

Arrival Temp. 6.2/5.9 IR#4

Data Results To: 1.

Site Representative: — Date: — Time:

Laboratory No.

23B2636

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E A394729

Page _____ Of _____

TCEQ Certification # T104704265

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras

Analysis Request and Chain of Custody Record

Phone: 830-401-2411 Fax: 830-401-2324

Project No. Table V

Client/Project Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Mat'l)	Sample Type (Liquid, Sludge, etc)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	(2) 40ml/vials	Liquid	Ice,HCl	SVOC				
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	(2) 1-Lt/Amb	Liquid	Ice	Ethylene Dibromide (EDB)				
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	1-Lt Amber	Liquid	Ice	Herbicides				
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	1-Lt Amber	Liquid	Ice	Asbestos				
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	1-Lt Amber	Liquid	Ice	Uranium				
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	500 ml/P	Liquid	Ice	Metals (Vanadium,Strontium)				
	EFFLUENT-COMP	2/13 to 2/14 9am to 8am		X	250 ml/P	Liquid	Ice,HNO3					

Samplers: (Signature) Rene Porras	Relinquished by: (Signature) Rene Porras	Date: 2-14-23 Time: 10pm	Received by: (Signature)	Date: Time: Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
	Relinquished by: MD for Fedex (Signature)	Date: 2/15/23 Time: 195	Received by Lab: (Signature) MDog	Date: 2/15/23 Time: 1015 Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Mn Correction: Cl2 Corrected	Arrival Temp. 6.2/5.9 IR#4	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

TCEQ Certification # T104704265

23B2636

E A394730

Page _____ Of _____

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras

Analysis Request and Chain of Custody Record

Phone: 830-401-2411 Fax: 830-401-2324

Project No. Table V

Client/Project Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Matl)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	INFLUENT-COMP	2-13 to 2-14 9am to 8am		X	(2) 40ml/vials	Liquid	Ice,HCl	SVOC				
	INFLUENT-COMP	2/13 to 2/14 9am to 8am		X	(2) 1-Lt/Amb	Liquid	Ice	Ethylene Dibromide (EDB)				
	INFLUENT-COMP	2/13 to 2/14 9am to 8am		X	1-Lt Amber	Liquid	Ice	Herbicides				
	INFLUENT-COMP	2/13 to 2/14 9am to 8am		X	1-Lt Amber	Liquid	Ice	Asbestos				
	INFLUENT-COMP	2/13 to 2/14 9am to 8am		X	1-Lt Amber	Liquid	Ice	Uranium				
	INFLUENT-COMP	2/13 to 2/14 9am to 8am		X	500 ml/P	Liquid	Ice	Metals (Vanadium,Strontium)				
	INFLUENT-COMP	2/13 to 2/14 9am to 8am		X	250 ml/P	Liquid	Ice,HNO3					

Samplers: (Signature) Rene Porras	Relinquished by: (Signature) Rene Porras	Date: 2-14-23 Time: 10 am	Received by: (Signature)	Date: Time: Seal Intact?
Affiliation	Relinquished by: (Signature)	Date: Time:	Received by: (Signature)	Date: Time: Seal Intact?
	Relinquished by: (Signature) MD for Fedex	Date: 2/15/23 Time: 1015	Received by Lab: (Signature)	Date: 2/15/23 Time: 1015 Seal Intact?
Remarks:	FLOW: Meter Reading: Cl2 Residual: Me Correction: Cl2 Corrected	Arrival Temp. 6.2/5.9 IR#4	Data Results To: 1. Site Representative:	Date: Time: Laboratory No.

23B2636

Envirodyne Laboratories, Inc.
11011 Brooklet, Ste. 230
Houston, Texas 77099-3543
Phone (281)568-7880 - Fax (281)568-8004

E A394725

Page _____ Of _____

TCEQ Certification # T104704265

Analysis Request and Chain of Custody Record

Name: City of Seguin
Address: 101 E. Klein
City: Seguin, TX 78155
Contact: Rene Porras
Phone: 830-401-2411 Fax: 830-401-2324

Project No.: Table II and III

Client/Project: Walnut Branch

Lab ID No.	Field Sample No./ Indentification	Date & Time	Grab	Comp	Sample Container (Size/Matl)	Sample Type (Liquid, Sludge, etc.)	Preservative	ANALYSIS REQUESTED	pH	D.O.	Temp.	Analysis Time
	EFFLUENT-Comp	2/13 to 2/14 9AM to 8AM		X	500ml-P	Liquid	ICE, HNO3	Sb,As,Be,C d,C r,C u,Hg,Ni,Se,Ag,T l,Zn,A				
	EFFLUENT-Grab	2-14-23 7:35 AM	X		1 Lt-Amb	Liquid	ICE, H2SO4	Phenol				
	EFFLUENT-Grab	2-14-23 7:38 AM	X		250 ml-P	Liquid	ICE, NaOH	Cyanide (Total & Amenable)				
	EFFLUENT-Grab	2-14-23 7:40 AM	X		(2)40 ml Vial	Liquid	ICE, HCl	VOC (EPA 624)				
	EFFLUENT-Comp	2/13 to 2/14 9AM to 8AM		X	(2) 1 Lt-Amb	Liquid	ICE	BNA, Pesticides, PCBs (EPA 625)				
	EFFLUENT-Comp	2/13 to 2/14 9AM to 8AM		X	250 ml/P	Liquid	ICE	Cr+6, F, NO3-N				

Samplers: (Signature) [signature]

Affiliation

Relinquished by: (Signature) Rene Porras [signature] Date: 2-14-23 Time: 10 AM

Received by: (Signature) Date: Time: Seal Intact?

Relinquished by: (Signature) Date: Time:

Received by: (Signature) Date: Time: Seal Intact?

Relinquished by: (Signature) MD Fedex Date: 2/15/23 Time: 1015

Received by Lab: (Signature) [signature] Date: 2/15/23 Time: 1015 Seal Intact?

Remarks:

FLOW:
Meter Reading:
Cl2 Residual:
Mn Correction:
Cl2 Corrected

Arrival Temp. 6.2/5.9 IR#4

Data Results To: 1.

Site Representative: Date: Time:

Laboratory No.

505 East Huntland Drive
Suite 250
Austin, Texas 78752

T 512.454.8716
TRCcompanies.com
T.B.P.E. #F-8632

September 18, 2024

Ms. Francesca Findlay
Texas Commission on Environmental Quality
Water Quality Division
Applications Review and Processing Team (MC148)
P.O. Box 13087
Austin, TX 78711-3087

RE: City of Seguin
Walnut Branch WWTP
Application to Renew Wastewater Permit #WQ0010277001

Dear Ms. Findlay,

Below are the responses to the comments TRC received on September 6, 2024.

1. Core Data For, Section II, item 17 has been revised. See attached revised Core Data Form.

2. The NORI portion is correct, no comments.

3. See attached Spanish NORI in a Microsoft Word document.

If additional information is needed please do not hesitate to contact this office.

Sincerely,

Luis Tonche

Luis Tonche
Project Manager

Enclosures

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 600342257		RN 101610699

SECTION II: Customer Information

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

☐ 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:*

City of Seguin

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
		74-600-2279	

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

12. Number of Employees
☐ 0-20 ☐ 21-100 ☐ 101-250 ☒ 251-500 ☐ 501 and higher

13. Independently Owned and Operated?
☐ **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:

205 North River Street

City	State	ZIP	ZIP + 4
Seguin	TX	78155	

16. Country Mailing Information *(if outside USA)*	17. E-Mail Address *(if applicable)*
	thowe@seguintexas.gov

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*

Francesca Findlay

From: Tonche, Luis <LTonche@trccompanies.com>
Sent: Wednesday, September 18, 2024 3:23 PM
To: Francesca Findlay
Cc: Bell, Craig; thowe@sequintexas.gov; Escutia, Danielle
Subject: RE: [EXTERNAL] FW: WQ0010277001 City of Seguin
Attachments: Seguin Walnut Branch - TRC Response Letter.pdf; Spanish NORI.docx

Ms. Findlay,

Please see attached response to the comments sent on September 6th. Also attached is the translated Spanish NORI in a Microsoft Word Document.

Thank you,

Luis Tonche, P.E.
Project Manager
Design Management Services

505 East Huntland Drive, Suite 250, Austin, TX 78752
D 512.684.3150 | ltonche@trccompanies.com
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Francesca Findlay <Francesca.Findlay@tceq.texas.gov>
Sent: Friday, September 6, 2024 8:54 AM
To: thowe@sequintexas.gov <thowe@sequintexas.gov>
Cc: Bell, Craig <CBell@trccompanies.com>
Subject: [EXTERNAL] FW: WQ0010277001 City of Seguin

Dear Mr. Howe:

The attached Notice of Deficiency letter sent on September 6, 2024, requesting additional information needed to declare the application administratively complete. Please send the complete response to my attention September 20, 2024.

Thank you,

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