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 TPDES APPLICATION FOR DOMESTIC WASTEWATER

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

The City of Temple (CN600245799) and the City of Belton (CN600246367) operates the Temple Belton Wastewater Treatment Facility (RN102097193), an activated sludge process plant with nitrification. The facility is located at 2405 East 6th Avenue, in the City of Belton, Bell County, Texas 76513.

This application is for a renewal of TPDES permit No. WQ0011318001, which authorizes the discharge of treated wastewater at annual average flows of 10 million gallons per day of treated domestic wastewater in the Interim I Phase and 16 million gallons per day of treated domestic wastewater in the Final Phase. The facility discharges via Outfall 001 to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos River Basin.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), *Escherichia coli* and total phosphorus. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge treatment plant. The treatment units are screens, grit chambers, activated sludge basins, clarifiers, belt presses, and gravity thickeners. Effluent filters will be added in the Final Phase. Disinfection will be achieved by chlorination in the Interim Phase and by ultraviolet light in the Final Phase.

APLICACIÓN TPDES PARA AGUAS RESIDUALES DOMÉSTICAS

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

La Ciudad de Temple (CN600245799) y la ciudad de Belton (CN600246367) operan la Planta de Tratamiento de Aguas Residuales de Temple Belton (RN102097193), una planta de procesamiento de lodos activados con nitrificación. La instalación está ubicada en 2405 East 6th Avenue, en la ciudad de Belton, Bell County, Texas 76513.

Esta solicitud es para una renovación del permiso TPDES No. WQ0011318001, que autoriza la descarga de aguas residuales tratadas a flujos promedio anuales de 10 millones de galones por día de aguas residuales domésticas tratadas en la Fase Intermedia I y 16 millones de galones por día de aguas residuales domésticas tratadas en la Fase Final.La instalación descarga a través del desagüe 001 a Nolan Creek/South Nolan Creek en el segmento No. 1218 de la cuenca del río Brazos.

Se espera que las descargas de la instalación contengan una demanda bioquímica carbonosa de oxígeno (CBOD5) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N), Escherichia coli y fósforo total. En la sección 7 del Informe Técnico Doméstico 1.0 se incluyen contaminantes potenciales adicionales. Análisis de Contaminantes de Efluentes Tratados en el paquete de solicitud de permisos. Las aguas residuales domésticas serán tratadas por una planta de tratamiento de lodos activados. Las unidades de tratamiento son cribas, cámaras de arena, depósitos de lodos activados, clarificadores, prensas de banda y espesadores por gravedad. Los filtros de efluentes se agregarán en la Fase Final. La desinfección se logrará mediante cloración en la Fase Intermedia y mediante luz ultravioleta en la Fase Final.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

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

PERMIT NO. WQ0011318001

APPLICATION. City of Temple and City of Belton, 3210 East Avenue H, Building A, Temple, Texas 76501, have applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011318001 (EPA I.D. No. TX0058378) to authorize the discharge of treated wastewater at a volume not to exceed an annual average flow of 16,000,000 gallons per day. The domestic wastewater treatment facility is located at 2405 East 6th Avenue, in the city of Belton, Bell County, Texas 76513. The discharge route is from the plant site directly to Nolan Creek/South Nolan Creek. TCEQ received this application on November 8, 2024. The permit application will be available for viewing and copying at City of Temple Department of Public Works, 3210 East Avenue H, Building A, Suite 130, Temple, in Bell 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=-97.438442,31.045691&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 Temple and City of Belton at the address stated above or by calling Mr. Kenton Moffett, P.E., Assistant Director of Public Works - Utilities, City of Temple, at 254-298-5621.

Issuance Date: December 10, 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. WQ0011318001

SOLICITUD. La Ciudad de Temple y la Ciudad de Belton, 3210 East Avenue H, Building A, Temple, Texas 76501, han solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011318001 (EPA I.D. No. TX0058378) 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 anual de 16,000,000 galones por día. La planta está ubicada2405 East 6th Avenue, en la ciudad de Belton en el Condado de Bell, Texas 76513. La ruta de descarga es del sitio de la planta directamente a Nolan Creek / South Nolan Creek. La TCEQ recibió esta solicitud el 8 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Departamento de Obras Públicas de la Ciudad de Temple, Suite 130, 3210 East Avenue H, Building A, Temple, en el condado de Bell, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.438442,31.045691&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. 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. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Ciudad de Temple a la dirección indicada arriba o llamando a Sr. Kenton Moffett, P.E., Director Asistente de Obras Públicas - Servicios Públicos al 254-298-5623.

Fecha de emisión: 10 de diciembre de 2024

Texas Commission on Environmental Quality

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

RENEWAL

PERMIT NO. WQ0011318001

APPLICATION AND PRELIMINARY DECISION. City of Temple and City of Belton, 3210 East Avenue H, Building A, Temple, Texas 76501, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011318001, which authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 16,000,000 gallons per day. The current permit authorizes marketing and distribution of composted sewage sludge and land application of Class A or AB biosolids on property-owned, leased or under the direct control of the permittee. TCEQ received this application on November 8, 2024.

The facility is located at 2405 East 6th Avenue, in the City of Belton, Bell County, Texas 76513. The sludge treatment works are located within and adjacent to the southwest corner of the wastewater treatment facility. The treated effluent is discharged directly to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos River Basin. The designated uses for Segment No. 1218 are primary contact recreation 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=-97.438442,31.045691&level=18

The TCEQ Executive Director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The Executive Director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, Executive Director's preliminary decision, and draft permit are available for viewing and copying at City of Temple Department of Public Works, 3210 East Avenue H, Building A, Suite 130, Temple, in Bell 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. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ holds a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

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

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

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

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

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

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

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

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

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

Further information may also be obtained from City of Temple and City of Belton at the address stated above or by calling Mr. Kenton Moffett, P.E., Assistant Director of Public Works - Utilities, City of Temple, at 254-298-5621

Issuance Date: May 14, 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

PERMISO NO. WQ0011318001

SOLICITUD Y DECISIÓN PRELIMINAR. La Ciudad de Temple y la Ciudad de Belton, 3210 East Avenue H, Edificio A, Temple, Texas 76501, ha solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) una renovación para autorizar la descarga de aguas residuales domésticas tratadas con un flujo promedio anual que no exceda los 16,000,000 de galones por día. El permiso actual autoriza la comercialización y distribución de lodos residuales compostados y la aplicación terrestre de biosólidos de Clase A o AB en propiedades propias, arrendadas o bajo el control directo del titular del permiso. La TCEQ recibió esta solicitud el 8 de noviembre de 2024.

La planta está ubicada en 2405 East 6th Avenue, en la ciudad de Belton, Condado de Bell, Texas 76513. La planta de tratamiento de lodos se encuentra dentro y junto a la esquina suroeste de la planta de tratamiento de aguas residuales. El efluente tratado es descargado directamente al arroyo Nolan/South Nolan Creek, en el Segmento No. 1218 de la Cuenca del Río Brazos. Los usos designados para el Segmento No. 1218 son la recreación de contacto primario y el uso elevados de la vida acuática.

El Director Ejecutivo de la TCEQ ha completado la revisión técnica de la solicitud y ha preparado un borrador del permiso. El borrador del permiso, si es aprobado, establecería las condiciones bajo las cuales la instalación debe operar. El Director Ejecutivo ha tomado una decisión preliminar que si este permiso es emitido, cumple con todos los requisitos normativos y legales. La solicitud del permiso, la decisión preliminar del Director Ejecutivo y el borrador del permiso están disponibles para leer y copiar en el Departamento de Obras Públicas de la Ciudad de Temple, 3210 East Avenue H, Edificio A, Suite 130, Temple, en el condado de Bell, 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. 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=-97.438442,31.045691&level=18

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

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 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 Temple y la Ciudad de Belton a la dirección indicada arriba o llamando a Sr. Kenton Moffett, P.E., Subdirector de Obras Públicas - Servicios Públicos, Ciudad de Temple, al 254-298-5621.

Fecha de emission: 14 de mayo de 2025

TPDES PERMIT NO. WQ0011318001
[For TCEQ office use only - EPA I.D. No. TX0058378]

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

This is a renewal that replaces TPDES Permit No. WQ0011318001 issued on October 23, 2023.

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

City of Temple and City of Belton

whose mailing address is

3210 East Avenue H, Building A
Temple, Texas 76501

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

located at 2405 East 6th Avenue, in the City of Belton, Bell County, Texas 76513

directly to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos 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

INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the date of issuance and lasting through the completion of expansion to the 16.0 million gallons per day (MGD) facility, the permittee is authorized to discharge subject to the following effluent limitations:

   The annual average flow of effluent shall not exceed 10.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 20,834 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 (834)	15	25	35	One/day	Composite
Total Suspended Solids	15 (1,251)	25	40	60	One/day	Composite
Ammonia Nitrogen	2 (167)	5	10	15	One/day	Composite
Total Phosphorus	Report (Report)	Report	Report	N/A	One/day	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Three/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. 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 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day 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 locations: Following the final treatment unit. During events when the beneficial reuse demand is high, the effluent monitoring samples for CBOD5, TSS, NH3-N, TP, pH, *E. coli*, and effluent samples required for the Pretreatment Requirement Section of the permit may be taken after the chlorine contact basins. For all other constituents, effluent monitoring samples will be taken following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored once per day by grab sample.
7. The annual average flow and maximum 2-hour peak flow shall be reported monthly.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS Outfall Number 001

1. During the period beginning upon the completion of expansion to the 16.0 million gallons per day (MGD) facility 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 16.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 29,514 gallons per minute.

Effluent Characteristic	Discharge Limitations				Min. Self-Monitoring Requirements	
	Daily Avg mg/l (lbs/day)	7-day Avg mg/l	Daily Max mg/l	Single Grab mg/l	Report Daily Avg. & Daily Max. Measurement Frequency	Sample Type
Flow, MGD	Report	N/A	Report	N/A	Continuous	Totalizing Meter
Carbonaceous Biochemical Oxygen Demand (5-day)	10 (1,334)	15	25	35	One/day	Composite
Total Suspended Solids	15 (2,002)	25	40	60	One/day	Composite
Ammonia Nitrogen	2 (267)	5	10	15	One/day	Composite
Total Phosphorus	1 (133)	2	4	6	One/day	Composite
E. coli, colony-forming units or most probable number per 100 ml	126	N/A	399	N/A	Daily	Grab

2. The permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.
3. The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day 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 locations: Following the final treatment unit. During events when the beneficial reuse demand is high, the effluent monitoring samples for CBOD5, TSS, NH3-N, TP, pH, *E. coli*, and effluent samples required for the Pretreatment Requirement Section of the permit may be taken after the chlorine contact basins. For all other constituents, effluent monitoring samples will be taken following the final treatment unit.
6. The effluent shall contain a minimum dissolved oxygen of 6.0 mg/l and shall be monitored once per day 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.

TCEQ Revision 06/2020

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 authorize Distribution and Marketing of Class A or Class AB Biosolids. This provision does authorize the permittee to land apply Class A or Class AB biosolids on property owned, leased or under the direct control of the permittee. This provision does not authorize the permittee to land apply Class B 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 9) 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 9) 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 9) 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 9) 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 9) 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 9) 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 FOR MARKETING AND/OR DISTRIBUTING BIOSOLIDS AND BIOSOLIDS DERIVED MATERIALS.

A. General Requirements

All biosolids, derived materials or materials sold or given away in bulk, bag or a container for application to the land shall meet the metal concentrations in Section II.A. Table 3, the pathogen requirements in 30 TAC §312.82, and the vector attraction reduction requirements in 30 TAC §312.83(b)(1) - §312.83(b)(8).

The product of the concentration of each pollutant in the biosolids and the annual whole application rate for the biosolids shall not cause the annual metal loading rate for the metal in Table 4 below to be exceeded. The procedure used to determine the annual whole application rate is presented in §312.49.

Table 4 - ANNUAL METAL LOADING RATES

Pollutant	Annual Metal Loading Rate ** (pounds per acre) *
Arsenic	1.8
Cadmium	1.7
Chromium	134.0
Copper	67.0
Lead	13.0
Mercury	0.76
Molybdenum	Report Only
Nickel	18.7
Selenium	4.5
Zinc	125.0

* Dry weight basis
** Per 365-day period

B. Marketing and Distribution Management Practices

1. Biosolids may be stockpiled and stored on site under semi-dry conditions for a period not to exceed 24 months.

2. The whole biosolids application rate shall not exceed the agronomic rate for any site.

3. The biosolids processing site location shall be selected and operated in a manner to prevent public health nuisances. Where nuisance conditions exist, the operator shall take necessary action to abate such nuisances.

4. Either a label shall be affixed to the bag or similar enclosure in which sewage sludge is sold or given away for application to the land or an information sheet shall be provided to the person who receives biosolids sold or given away in a similar enclosure for application to the land. The label or information sheet shall contain the following information:

   a. the name and address of the person who prepared the biosolids for sale or give away in a bag or similar enclosure for application to the land;
   b. a statement that prohibits the application of the biosolids to the land except in accordance with the instructions on the label or information sheet;
   c. the annual whole sludge application rate for the biosolids that does not cause the

annual metal loading rates in Table 4 to be exceeded.

5. If composting, the Biosolids Processing Pad Area shall be protected from storm water run-on and runoff. Storm water from the pad shall be routed through the headworks of the Wastewater Treatment Facility. The Biosolids Processing Pad shall be constructed of concrete or Executive Director approved material meeting the following requirements:

   a. More than 30% passing a No. 200 mesh sieve
   b. Liquid limit greater than 30%
   c. Plasticity index greater than 15
   d. A minimum thickness of 2 feet
   e. Permeability equal to or less than 1x10-7 cm/sec
   f. Soil compaction will be 95% standard proctor at optimum moisture content

   The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed lining meets the appropriate criteria above prior to utilization of the facilities. The certification shall be sent to the TCEQ Regional Office (MC Region 9) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division.

6. This permit does not authorize the composting of grease or grease trap waste. Any such authorization shall be in accordance with Commission regulations in 30 TAC Chapter 332.

7. The following is a list of site management restrictions for Class A and Class AB bulk sewage sludge agricultural land, forest, or a reclamation sites:

   a. A bulk biosolids agricultural land, forest, or a reclamation site may not be applied during rainstorms or during periods in which surface soils are water-saturated, and when pooling of water is evident on the land application site.

   b. The operator shall manage a bulk biosolids agricultural land, forest, or a reclamation site according to the Adverse Weather and Alternative Plan. This plan details procedures to address times when the bulk biosolids cannot be applied to the land application site due to adverse weather or other conditions such as wind, precipitation, field preparation delays, and access road limitations.

   c. A bulk biosolids agricultural land, forest, or a reclamation site location must be selected and operated in a manner to prevent public health nuisances.

   d. An operator of a bulk biosolids agricultural land, forest, or a reclamation site may not accept bulk sewage sludge, unless the biosolids is transported to the land application unit in a covered container with the covering firmly secured at the front and back.

   e. If the bulk biosolids is Class AB as per the pathogen reduction alternatives in 30 TAC §312.82(a)(2), then the management practices under 30 TAC §312.44 shall be met in addition to the section V.B.7 (a-d) of this permit.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	-	Once/Year
PCBs	-	Once/Year

All metal constituents, pathogen density requirements and vector attraction reduction requirements shall be monitored at the appropriate frequency pursuant to 30 TAC §312.46(a)(1).

D. Notification Requirements

The permittee shall inform TCEQ through a letter whenever the biosolids is given to a new bulk biosolids agricultural land, forest, or a reclamation site recipient directly by the generator. The notification letter shall include:

1. The recipient's name, address, phone number, the longitude and latitude of the site, and the number of acres the intended to be used.

2. If Class AB, a site map showing the buffer zone areas required under §312.44(c)(2)(D) and (E)

3. Authorization number and biosolids source name.

4. Must be signed and dated by the responsible person.

5. Complete name and title, telephone number and the address of the person signing the letter.

E. Recordkeeping Requirements

The person who prepares bulk biosolids in 30 TAC §312.41(b)(1) or in 30 TAC §312.41(e) shall develop the following information and shall retain the information on-site for five years.

1. The concentration (mg/kg) in the sludge of each pollutant listed in Section II. A. (30 TAC §312.43(b)(3) Table 3).

2. A description of how the pathogen reduction requirements are met.

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

4. The annual whole application rate for the sewage sludge that does not cause the annual pollutant loading rates in Table 4 to be exceeded.

5. The following certification statement: "I certify, under penalty of law, that the pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §312.83(b)(1)-(8)) have been met. 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 pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

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

F. Reporting Requirements

The permittee shall report annually to the TCEQ Regional Office (MC Region 9) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information:

1. Results of tests performed for pollutants found in 30 TAC §312.43(b)(3) Table 3.
2. The frequency of monitoring listed in Section I.C. which applies to the permittee.
3. Toxicity Characteristic Leaching Procedure (TCLP) results.
4. PCB concentration in sludge in mg/kg.
5. Documentation of the level of pathogen reduction achieved.
6. As listed in Section I.B.3.(a), describe how the pathogen reduction requirements were met.
7. Vector attraction reduction alternative used as listed in Section I.B.4.
8. Annual biosolids production in dry tons/year.
9. Amount of biosolids land applied in dry tons/year.
10. The following certification statement: "I certify, under penalty of law, that the pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §312.83(b)(1)-(8)) have been met. 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 pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment." The certification statement shall be attached to the annual reporting form.

    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 V. 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 permitee requests and obtains an electronic reporting waiver, the annual report can be submitted in hard copy to the TCEQ Regional Office (MC Region 9) and the Enforcement Division (MC 224).

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

2. the annual sludge or biosolids production;

3. the amount of sludge or biosolids transported;

4. the owner of each receiving facility;

5. the location of each receiving facility; and

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

TCEQ Revision 06/2020

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 (Interim) and Category A (Final) must be operated by a chief operator or an operator holding a Class B (Interim) and Class A (Final) 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 permittee shall comply with the requirements of 30 TAC § 309.13(a) through (d). In addition, by ownership of the required buffer zone area, the permittee shall comply with the requirements of 30 TAC § 309.13(e).

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, three/week may be reduced to one/week in the Interim phase and five/week may be reduced to three/week in the Final phase. **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.

7. Plans and specifications have been approved for the 16.0 MGD wastewater treatment facility, in accordance with 30 TAC § 217, Design Criteria for Domestic Wastewater Systems. A summary transmittal approval letter was issued on August 13, 2024 (Log No. 0724/115). A

copy of the summary transmittal letter shall be available at the plant site for inspection by authorized representatives of the TCEQ.

8. The permittee shall notify the TCEQ Regional Office (MC Region 9), and the Applications Review and Processing Team (MC 148) of the Water Quality Division, in writing at least forty-five days prior to the completion of the Final phase facility on Notification of Completion Form 20007.

9. City of Temple and City of Belton is authorized to accept domestic septage at this facility, at a volume not to exceed 310,000 gallons per month.

   The processing of grit or grease trap waste at this facility is not authorized under this permit. The permittee shall obtain a Municipal Solid Waste authorization from the TCEQ Municipal Solid Waste Section (MC 124) in order to process the grit or grease trap waste at this facility.

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 publicly owned treatment works (POTW) pretreatment program, which was originally authorized by the Brazos River Authority (BRA) and subsequently transferred on **August 9, 2012**, to the City of Temple and City of Belton. The pretreatment program was approved on **January 25, 1986**, and modified on **September 8, 1995**, and on **October 29, 2014** (Streamlining Rule, with the exception of the City of Belton's Legal Authority), and **August 31, 2020** (nonsubstantial Streamlining Rule for the City of Belton's Legal Authority).

   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.

   The permittee is required to redevelop the existing technically based local limits (TBLLs) and additional components of the pretreatment program. The permittee shall demonstrate and certify that the revised TBLLs will attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination. The POTW is required to evaluate any enforceable BMP loadings during the redevelopment of the current TBLLs. The technical redevelopment of the current TBLLs should be developed in accordance with EPA's *Local Limits Development Guidance*, July 2004, and EPA Region 6's Technically Based Local Limits Development Guidance, October 12, 1993.

On June 11, 2024, the TCEQ received a request from the permittee to grant an extension for the technical redevelopment of current TBLLs due to the projected expansion of the POTW.
The TBLLs package, draft legal authority which incorporates such revisions, and additional modifications to the pretreatment program, as required by 40 CFR Part 403 *[rev.10/14/05]*, and applicable state and local law, including Enforcement Response Plan and Standard Operating Procedures (including forms), shall be submitted within **twelve (12) months** of the completion on the expansion of TPDES Permit No. WQ0011318001. This submission shall be signed and certified by the permittee *[according to 40 CFR §122.41(k)]*.

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 six months** and the toxic pollutants listed in 40 CFR Part 122, Appendix D, Table III at least **once per three 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 three 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), 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 **February** in a newspaper of general circulation that provides meaningful public notice within the jurisdiction(s) served by the POTW.

   In addition, each **February** 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

TPDES Pretreatment Program Annual Report Form for Updated Industrial Users List

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ Permittee:_____ Treatment Plant: _____

PRETREATMENT PROGRAM STATUS REPORT UPDATED INDUSTRIAL USERS[1] LIST																
Industrial User Name	SIC or NAICS Code	CIU[2]	CONTROL MECHANISM				New User[3] (Y or N)	Times Inspected by the CA	Times Sampled by the CA	COMPLIANCE STATUS During the Pretreatment Year Reporting Period[4] (C = Compliant, NC = Noncompliant, SNC= Significant Noncompliance)						
										REPORTS						
			Y/N or NR[5]	IND or GEN or NR	Last Action[6]	TBLLs or TBLLs only[7]				BMR	90-Day	Semi-Annual	Self-Monitoring[8]	NSCIU Certifications	Effluent Limits	Narrative Standards

1 Include all significant industrial users (SIUs), non-significant categorical industrial users (NSCIUs) as defined in 40 CFR §403.3(v)(2), and/or middle tier categorical industrial users (MTCIUs) as defined in 40 CFR §403.12(e)(3). Please do not include non-significant noncategorical IUs that are covered under best management practices (BMPs) or general control mechanisms.

2 Categorical determination (include 40 CFR citation and NSCIU or MTCIU status, if applicable).

3 Indicate whether the IU is a new user. If the answer is No or N, then indicate the expiration date of the last issued IU permit.

4 The term SNC applies to a broader range of violations, such as daily maximum, long-term average, instantaneous limits, and narrative standards (which may include enforceable BMPs, narrative limits and/or operational standards). Any other violation, or group of violations, which the POTW determines will adversely affect the operation or implementation of the local Pretreatment Program now includes BMP violations (40 CFR §403.8(f)(2)(viii)(H)).

5 Code NR= None required (NSCIUs only); IND = individual control mechanism; GEN = general control mechanism. Include as a footnote (or on a separate page) the name of the general control mechanism used for similar groups of IUs, identify the similar types of operations and types of wastes that are the same for each general control mechanism. Any BMPs through general control mechanisms that are applied to nonsignificant IUs need to be reported separately, *e.g*. the sector type and BMP description.

6 Permit or NSCIU evaluations as applicable.

7 According to 40 CFR §403.12(i)(1), indicate whether the IU is subject to technically based local limits (TBLLs) that are more stringent than categorical pretreatment standards, *e.g*. where there is one end-of-pipe sampling point at a CIU, and you have determined that the TBLLs are more stringent than the categorical pretreatment standards for any pollutant at the end-of-pipe sampling point; **OR** the IU is subject only to local limits (TBLLs only), *e.g*. the IU is a non-categorical SIU subject only to TBLLs at the end-of-pipe sampling point.

8 For those IUs where a monitoring waiver has been granted, please add the code "W" (after either C, NC, or SNC codes) and indicate the pollutant(s) for which the waiver has been granted.

TPDES Pretreatment Program Annual Report Form for Industrial User Inventory Modifications

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No: _____ Permittee: _____ Treatment Plant: _____

INDUSTRIAL USER INVENTORY MODIFICATIONS					
FACILITY NAME, ADDRESS AND CONTACT PERSON	ADD, CHANGE, DELETE (Including categorical reclassification to NSCIU or MTCIU)	IF DELETION: Reason For Deletion	IF ADDITION OR SIGNIFICANT CHANGE:		
			PROCESS DESCRIPTION	POLLUTANTS (Including any sampling waiver given for each pollutant not present)	FLOW RATE [9] (In gpd) R = Regulated U = Unregulated T = Total

9 For NSCIUs, total flow must be given, if regulated flow is not determined.

TPDES Pretreatment Program Annual Report Form for Enforcement Actions Taken

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No: _____Permittee:_____Treatment Plant: _____

Overall SNC ___% SNC [10] based on: Effluent Violations_____%
Reporting Violations_____% Narrative Standard Violations___%

Noncompliant Industrial Users - Enforcement Actions Taken															
Industrial User Name	Nature of Violation [11]				Number of Actions Taken					Penalties Collected (Do not Include Surcharge)	Compliance Schedule			Current Status Returned to Compliance: (Y or N)	Comments
	Effluent Limits	Reports	NSCIU Certifications	Narrative Standards	NOV	A.O.	Civil	Criminal	Other		Y or N	Date Issued	Date Due		

10 # %
__ __ Pretreatment Standards [WENDB-PSNC] (Local Limits/Categorical Standards)
__ __ Reporting Requirements [WENDB-PSNC]
__ __ Narrative Standards

11 Please specify a separate number for each type of violation, *e.g.* report, notification, and/or NSCIU certification.

TPDES Pretreatment Program Annual Report Form for Influent and Effluent Monitoring Results[1]

Reporting month/year: _____, _____ to _____, _____

TPDES Permit No.: _____ Permittee:_____Treatment Plant: _____

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS												
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
METALS, CYANIDE AND PHENOLS												
Antimony, Total												
Arsenic, Total												
Beryllium, Total												
Cadmium, Total												
Chromium, Total												
Chromium (Hex)												
Chromium (Tri)[5]												
Copper, Total												
Lead, Total												
Mercury, Total												
Nickel, Total												
Selenium, Total												
Silver, Total												
Thallium, Total												
Zinc, Total												

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Cyanide, Available [6]											
Cyanide, Total											
Phenols, Total											
VOLATILE COMPOUNDS											
Acrolein											
Acrylonitrile											
Benzene											
Bromoform							See TTHM				
Carbon Tetrachloride											
Chlorobenzene											
Chlorodibromomethane							See TTHM				
Chloroethane											
2-Chloroethylvinyl Ether											
Chloroform							See TTHM				
Dichlorobromomethane							See TTHM				
1,1-Dichloroethane											
1,2-Dichloroethane											
1,1-Dichloroethylene											
1,2-Dichloropropane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
1,3-Dichloropropylene											
Ethyl benzene											
Methyl Bromide											
Methyl Chloride											
Methylene Chloride											
1,1,2,2-Tetra-chloroethane											
Tetrachloroethylene											
Toluene											
1,2-Trans-Dichloroethylene											
1,1,1-Trichloroethane											
1,1,2-Trichloroethane											
Trichloroethylene											
Vinyl Chloride											
ACID COMPOUNDS											
2-Chlorophenol											
2,4-Dichlorophenol											
2,4-Dimethylphenol											
4,6-Dinitro-o-Cresol											
2,4-Dinitrophenol											
2-Nitrophenol											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
4-Nitrophenol											
P-Chloro-m-Cresol											
Pentachlorophenol											
Phenol											
2,4,6-Trichlorophenol											
BASE/NEUTRAL COMPOUNDS											
Acenaphthene											
Acenaphthylene											
Anthracene											
Benzidine											
Benzo(a)Anthracene											
Benzo(a)Pyrene											
3,4-Benzofluoranthene											
Benzo(ghi)Perylene											
Benzo(k)Fluoranthene											
Bis(2-Chloroethoxy)Methane											
Bis(2-Chloroethyl)Ether											
Bis(2-Chloroisopropyl)Ether											
Bis(2-Ethylhexyl)Phthalate											
4-Bromophenyl Phenyl Ether											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Butylbenzyl Phthalate											
2-Chloronaphthalene											
4-Chlorophenyl Phenyl Ether											
Chrysene											
Dibenzo(a,h)Anthracene											
1,2-Dichlorobenzene											
1,3-Dichlorobenzene											
1,4-Dichlorobenzene											
3,3-Dichlorobenzidine											
Diethyl Phthalate											
Dimethyl Phthalate											
Di-n-Butyl Phthalate											
2,4-Dinitrotoluene											
2,6-Dinitrotoluene											
Di-n-Octyl Phthalate											
1,2-Diphenyl Hydrazine											
Fluoranthene											
Fluorene											
Hexachlorobenzene											
Hexachlorobutadiene											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachloro- cyclopentadiene											
Hexachloroethane											
Indeno(1,2,3-cd)pyrene											
Isophorone											
Naphthalene											
Nitrobenzene											
N-Nitrosodimethylamine											
N-Nitrosodi-n-Propylamine											
N-Nitrosodiphenylamine											
Phenanthrene											
Pyrene											
1,2,4-Trichlorobenzene											
PESTICIDES											
Aldrin											
Alpha-hexachlorocyclohexane (BHC)											
beta-BHC											
gamma-BHC (Lindane)											
delta-BHC											
Chlordane											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
4,4-DDT											
4,4-DDE											
4,4-DDD											
Dieldrin											
alpha-Endosulfan											
beta-Endosulfan											
Endosulfan Sulfate											
Endrin											
Endrin Aldehyde											
Heptachlor											
Heptachlor Epoxide											
Polychlorinated biphenols (PCBs) *The sum of PCB concentrations not to exceed daily average value.*											
PCB-1242							See PCBs				
PCB-1254							See PCBs				
PCB-1221							See PCBs				
PCB-1232							See PCBs				
PCB-1248							See PCBs				
PCB-1260							See PCBs				

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
PCB-1016							See PCBs				
Toxaphene											
ADDITIONAL TOXIC POLLUTANTS REGULATED UNDER 30 TAC CHAPTER 307											
Aluminum											
Barium											
Bis(chloromethyl)ether [7]											
Carbaryl											
Chloropyrifos											
Cresols											
2,4-D											
Danitol [8]											
Demeton											
Diazinon											
Dicofol											
Dioxin/Furans [9]											
Diuron											
Epichlorohydrin [9]											
Ethylene glycol [9]											
Fluoride											
Guthion											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS												
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Hexachlorophene											
4,4-Isopropylidenediphenol (bisphenol A) [9]											
Malathion											
Methoxychlor											
Methyl Ethyl Ketone											
Methyl tert-butyl-ether (MTBE) [9]											
Mirex											
Nitrate-Nitrogen											
N-Nitrosodiethylamine											
N-Nitroso-di-n-Butylamine											
Nonylphenol											
Parathion											
Pentachlorobenzene											
Pyridine											
1,2-Dibromoethane											
1,2,4,5-Tetrachlorobenzene											
2,4,5-TP (Silvex)											
Tributyltin [9]											
2,4,5-Trichlorophenol											
TTHM (Total											

PRETREATMENT PROGRAM INFLUENT AND EFFLUENT MONITORING RESULTS											
POLLUTANT	MAHL, if Applicable in lb/day	Influent Measured in µg/L (Actual Concentration or < MAL)				Average Influent % of the MAHL[2]	Daily Average Effluent Limit (µg/L) [3]	Effluent Measured in µg/L (Actual Concentration or < MAL) [4]			
		Date	Date	Date	Date			Date	Date	Date	Date
Trihalomethanes)											

Endnotes:

1. It is advised that the permittee collect the influent and effluent samples considering flow detention time through each wastewater treatment plant (WWTP).

2. The MAHL of the approved TBLLs or for each pollutant of concern (POC) for which the permittee has calculated a MAHL. Only complete the column labeled "Average Influent % of the MAHL," as a percentage, for pollutants that have approved TBLLs or for each POC for which the permittee has calculated a MAHL (U.S. Environmental Protection Agency *Local Limits Development Guidance*, July 2004, EPA933-R-04-002A).

   The % of the MAHL is to be calculated using the following formulas:

   Equation A: $L_{INF} = (C_{POLL} \times Q_{WWTP} \times 8.34) / 1000$

   Equation B: $L_{\%} = (L_{INF} / MAHL) \times 100$

   Where:

L_{INF} =	Current Average (Avg) influent loading in lb/day
C_{POLL} =	Avg concentration in µg/L of all influent samples collected during the pretreatment year.
Q_{WWTP} =	Annual average flow of the WWTP in MGD, defined as the arithmetic average of all daily flow determinations taken within the preceding 12 consecutive calendar months (or during the pretreatment year), and as described in the Definitions and Standard Permit Conditions section.
$L_{\%}$ =	% of the MAHL
MAHL =	Calculated MAHL in lb/day
8.34 =	Unit conversion factor

3. Daily average effluent limit (metal values are for total metals) as derived by the Texas Toxicity Modeling Program (TexTox). Effluent limits as calculated are designed to be protective of the Texas Surface Water Quality Standards. The permittee shall determine and indicate which effluent limit is the most stringent between the 30 TAC Chapter 319, Subchapter B (Hazardous Metals) limit, TexTox values, or any applicable limit in the Effluent Limitations and Monitoring Requirements Section of this TPDES permit. Shaded blocks need not be filled in unless the permittee has received a permit requirement/limit for the particular parameter.

4. Minimum analytical levels (MALs) and analytical methods as suggested in Tables E-1 and E-2 of the *Procedures to Implement the Texas Surface Water Quality Standards*, as amended and adopted by the TCEQ. Pollutants that are not detectable above the MAL need to be reported as less than (<) the MAL numeric value.

5. Report result by subtracting Hexavalent Chromium from Total Chromium.

6. Either the method for Amenable to Chlorination or Weak-Acid Dissociable is authorized.

7. Hydrolyzes in water. Will not require permittee to analyze at this time.

8. EPA procedure not approved. Will not require permittee to analyze at this time.

9. Analyses are not required at this time for these pollutants unless there is reason to believe that these pollutants may be present.

BIOMONITORING REQUIREMENTS

CHRONIC 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, reproduction, or growth 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 "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms," fourth edition (EPA-821-R-02-013) or its most recent update:

      1) Chronic static renewal survival and reproduction test using the water flea (*Ceriodaphnia dubia*) (Method 1002.0). This test should be terminated when 60% of the surviving adults in the control produce three broods or at the end of eight days, whichever occurs first. This test shall be conducted once per quarter.

      2) Chronic static renewal 7-day larval survival and growth test using the fathead minnow (*Pimephales promelas*) (Method 1000.0). 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 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. The permittee shall use five effluent dilution concentrations and a control in each toxicity test. These effluent dilution concentrations are 25%, 34%, 45%, 60%, and 80% effluent. The critical dilution, defined as 60% 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 effluent 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 toxicity, 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 toxicity, 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 toxicity, 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 fail to meet the following criteria:

1) a control mean survival of 80% or greater;

2) a control mean number of water flea neonates per surviving adult of 15 or greater;

3) a control mean dry weight of surviving fathead minnow larvae of 0.25 mg or greater;

4) a control coefficient of variation percent (CV%) of 40 or less in between replicates for the young of surviving females in the water flea test; and the growth and survival endpoints in the fathead minnow test;

5) a critical dilution CV% of 40 or less for the young of surviving females in the water flea test; and the growth and survival endpoints for the fathead minnow test. However, if statistically significant lethal or nonlethal effects are exhibited at the critical dilution, a CV% greater than 40 shall not invalidate the test;

6) a percent minimum significant difference of 47 or less for water flea reproduction; and

7) a percent minimum significant difference of 30 or less for fathead minnow growth.

b. Statistical Interpretation

1) For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be the Fisher's exact test as described in the manual referenced in in Part 1.b.

2) For the water flea reproduction test and the fathead minnow larval survival and growth 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.

3) 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.

4) 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 80% 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.

5) The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is defined as a statistically significant difference between the survival, reproduction, or growth of the test organism in a specified effluent dilution when compared to the survival, reproduction, or growth of the test organism in the control.

6) 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 3.

7) Pursuant to the responsibility assigned to the permittee in Part 2.b.3), 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 3 will be used when making a determination of test acceptability.

8) 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 pre-existing 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 (i.e., 7 days); 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 three composite samples from Outfall 001. The second and third composite samples 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 any 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 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 TLP3B, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

2) For the water flea, Parameter TOP3B, report the NOEC for survival.

3) For the water flea, Parameter TXP3B, report the LOEC for survival.

4) For the water flea, Parameter TWP3B, enter a “1” if the NOEC for reproduction is less than the critical dilution; otherwise, enter a “0.”

5) For the water flea, Parameter TPP3B, report the NOEC for reproduction.

6) For the water flea, Parameter TYP3B, report the LOEC for reproduction.

7) For the fathead minnow, Parameter TLP6C, enter a “1” if the NOEC for survival is less than the critical dilution; otherwise, enter a “0.”

8) For the fathead minnow, Parameter TOP6C, report the NOEC for survival.

9) For the fathead minnow, Parameter TXP6C, report the LOEC for survival.

10) For the fathead minnow, Parameter TWP6C, enter a "1" if the NOEC for growth is less than the critical dilution; otherwise, enter a "0."

11) For the fathead minnow, Parameter TPP6C, report the NOEC for growth.

12) For the fathead minnow, Parameter TYP6C, report the LOEC for growth.

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 test demonstrates a significant effect at the critical dilution. Significant lethality and significant effect were defined in Part 2.b. Significant sublethality is defined as a statistically significant difference in growth/reproduction at the critical dilution when compared to the growth/reproduction in the control.

a. The permittee shall conduct a total of 2 additional tests (retests) for any species that demonstrates a significant effect (lethal or sublethal) at the critical dilution. 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 the retests are performed due to a demonstration of significant lethality, and 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. 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.

If neither test demonstrates significant lethality and the permittee is testing under the reduced testing frequency provision of Part 1.e., the permittee shall return to a quarterly testing frequency for that species.

c. If the two retests are performed due to a demonstration of significant sublethality, and one or both of the two retests specified in Part 4.a. demonstrates significant lethality, the permittee shall again perform two retests as stipulated in Part 4.a.

d. If the two retests are performed due to a demonstration of significant

sublethality, and neither test demonstrates significant lethality, the permittee shall continue testing at the quarterly frequency.

e. Regardless of whether retesting for lethal or sublethal effects, or a combination of the two, no more than one retest per month is required for a species.

5. Toxicity Reduction Evaluation

a. Within 45 days of the retest that demonstrates significant lethality, or within 45 days of being so instructed due to multiple toxic events, 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, or within 90 days of being so instructed due to multiple toxic events, 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 “Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I” (EPA/600/6-91/005F) 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 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 its 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 4)

BIOMONITORING REPORTING

CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic Dilution water

NUMBER OF YOUNG PRODUCED PER ADULT AT END OF TEST

REP	Percent effluent					
	0%	25%	34%	45%	60%	80%
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
Survival Mean						
Total Mean						
CV%*						
PMSD						

*Coefficient of Variation = standard deviation x 100/mean (calculation based on young of the surviving adults)

Designate males (M), and dead females (D), along with number of neonates (x) released prior to death.

TABLE 1 (SHEET 2 OF 4)
CERIODAPHNIA DUBIA SURVIVAL AND REPRODUCTION TEST

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean number of young produced per adult significantly less than the number of young per adult in the control for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (60%): _____ YES _____ NO

PERCENT SURVIVAL

	Percent effluent					
Time of Reading	0%	25%	34%	45%	60%	80%
24h						
48h						
End of Test						

2. Fisher's Exact Test:

   Is the mean survival at test end significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (60%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC reproduction = _____% effluent

   d.) LOEC reproduction = _____% effluent

TABLE 1 (SHEET 3 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW LARVAE GROWTH AND SURVIVAL

Dates and Times Composites Collected

Date Time Date Time

No. 1 FROM: _____ TO: _____

No. 2 FROM: _____ TO: _____

No. 3 FROM: _____ TO: _____

Test initiated: _____am/pm _____date

Dilution water used: _____ Receiving water _____ Synthetic dilution water

FATHEAD MINNOW GROWTH DATA

Effluent Concentration	Average Dry Weight in replicate chambers					Mean Dry Weight	CV%*
	A	B	C	D	E		
0%							
25%							
34%							
45%							
60%							
80%							
PMSD							

* Coefficient of Variation = standard deviation x 100/mean

1. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean dry weight (growth) at 7 days significantly less than the control's dry weight (growth) for the % effluent corresponding to significant nonlethal effects?

   CRITICAL DILUTION (60%): _____ YES _____ NO

TABLE 1 (SHEET 4 OF 4)

BIOMONITORING REPORTING

FATHEAD MINNOW GROWTH AND SURVIVAL TEST

FATHEAD MINNOW SURVIVAL DATA

Effluent Concentration	Percent Survival in replicate chambers					Mean percent survival			CV%*
	A	B	C	D	E	24h	48h	7 day	
0%									
25%									
34%									
45%									
60%									
80%									

* Coefficient of Variation = standard deviation x 100/mean

2. Dunnett's Procedure or Steel's Many-One Rank Test or Wilcoxon Rank Sum Test (with Bonferroni adjustment) or t-test (with Bonferroni adjustment) as appropriate:

   Is the mean survival at 7 days significantly less than the control survival for the % effluent corresponding to lethality?

   CRITICAL DILUTION (60%): _____ YES _____ NO

3. Enter percent effluent corresponding to each NOEC\LOEC below:

   a.) NOEC survival = _____% effluent

   b.) LOEC survival = _____% effluent

   c.) NOEC growth = _____% effluent

   d.) LOEC growth = _____% 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.

A valid test result must be submitted for each reporting period. The permittee must report, and then repeat, an invalid test during the same reporting period. The repeat test shall include the control and the 100% effluent dilution 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. 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 sample 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 sample 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 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, and 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 a “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 a "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 a "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 a "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 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 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 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 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 Part 5.h. The report shall 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

FACT SHEET AND EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

For draft Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0011318001, EPA I.D. No. TX0058378, 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 Temple and City of Belton 3210 East Avenue H, Building A Temple, Texas 76501
Prepared By:	Sumitra Pokharel Municipal Permits Team Wastewater Permitting Section (MC 148) Water Quality Division (512) 239-4722
Date:	May 13, 2025
Permit Action:	Renewal with changes

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**.

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 10.0 million gallons per day (MGD) in the Interim I phase, 10.0 MGD in the Interim II phase and 16.0 MGD in the Final phase. The draft permit authorizes the discharge of treated domestic wastewater at an annual average flow not to exceed 10.0 MGD in the Interim phase and 16.0 MGD in the Final phase. The existing wastewater treatment facility serves the City of Belton and portions of the City of Temple.

3. FACILITY AND DISCHARGE LOCATION

The plant site is located at 2405 East 6th Avenue, in the City of Belton, Bell County, Texas 76513. The sludge treatment works are located within and adjacent to the southwest corner of the wastewater treatment facility.

Outfall Location:

Outfall Number	Latitude	Longitude
001	31.043226 N	97.438636 W

The treated effluent is directly discharged to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos River Basin. The designated uses for Segment No. 1218 are primary contact recreation and high aquatic life use.

4. TREATMENT PROCESS DESCRIPTION AND SEWAGE SLUDGE DISPOSAL

The Temple Belton Wastewater Treatment Facility is an activated sludge process plant operated in the conventional aeration mode with nitrification. Treatment units in the Interim phase include three fine screens, three grit chambers, two equalization basins, a biological reactor with three channels, two final clarifiers, two belt filter presses, a gravity thickener, three chlorine contact chambers, a dechlorination chamber and a reclaimed water holding basin. Treatment units in the Final phase will include a fine screen, a grit chamber, an Integrated Fixed-film (IFAS) reactor, a final clarifier, three effluent disk filters, a gravity thickener, and two Ultraviolet light disinfection system. The facility is operating in the Interim phase.

Sludge generated from the treatment facility is hauled by a registered transporter to Temple Recycling and Diposal Facility, MSW Permit No. 692B, in Bell County, for further processing. 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 draft permit includes pretreatment requirements that are appropriate for a facility of this size and complexity. The facility 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 October 2022 through October 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), and Total Phosphorus (TP). 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	8.3
$CBOD_5$, mg/l	3.1
TSS, mg/l	3.2
NH_3-N, mg/l	1.1
TP, mg/l	1.2
E. coli, CFU or MPN per 100 ml	4.0

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. INTERIM PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 10.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 20,834 gallons per minute (gpm).

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	834	15	25
TSS	15	1,251	25	40
NH_3-N	2	167	5	10
Total Phosphorus (P)	Report	Report	Report	Report
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 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day 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. 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
$CBOD_5$	One/day
TSS	One/day
NH_3-N	One/day
Total P	One/day
DO	One/day
E. coli	Three/week

B. FINAL PHASE EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The annual average flow of effluent shall not exceed 16.0 MGD, nor shall the average discharge during any two-hour period (2-hour peak) exceed 29,514 gpm.

Parameter	30-Day Average		7-Day Average	Daily Maximum
	mg/l	lbs/day	mg/l	mg/l
$CBOD_5$	10	1,334	15	25

TSS	15	2,002	25	40
NH_3-N	2	267	5	10
Total Phosphorus	1	133	2	4
DO (minimum)	6.0	N/A	N/A	N/A
E. coli, CFU or MPN/100 ml	126	N/A	N/A	399

The pH shall not be less than 6.5 standard units nor greater than 9.0 standard units and shall be monitored once per day 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 permittee shall utilize an Ultraviolet Light (UV) system for disinfection purposes. An equivalent method of disinfection may be substituted only with prior approval of the Executive Director.

Parameter	Monitoring Requirement
Flow, MGD	Continuous
$CBOD_5$	One/day
TSS	One/day
NH_3-N	One/day
Total P	One/day
DO	One/day
E. coli	Daily

C. 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 to Temple Recycling and Diposal Facility, Permit No. 692B, in Bell County, for further processing. 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.

D. 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. Environmental Protection Agency (EPA) on **January 25, 1986**, and modified on **September 8, 1995,** and on **October 29, 2014** (Streamlining Rule, with

the exception of the City of Belton's Legal Authority), and **August 31, 2020** (nonsubstantial Streamlining Rule for the City of Belton's Legal Authority). This permit has appropriate pretreatment language for a facility of this size and complexity. 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 **February** 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.

The permittee is required to redevelop the existing technically based local limits (TBLLs) and additional components of the pretreatment program. The permittee shall demonstrate and certify that the revised TBLLs will attain the Texas Surface Water Quality Standards [30 TAC Chapter 307] in water in the state, prevent pass through of pollutants, inhibition of or interference with the treatment facility, worker health and safety problems, and sludge contamination. If applicable, the POTW is required to evaluate the enforceable best management practices (BMP) loadings during the redevelopment of the current TBLLs. The permittee shall submit a TBLLs package, draft legal authority, which incorporates such revisions, and any additional modifications to the pretreatment program that reflect changing conditions at the POTW. In order to ensure that the permittee has a program to assure compliance with such pretreatment standards and requirements, the permittee will include the Legal Authority, Enforcement Response Plan, Standard Operating Procedures (including forms).

On June 11, 2024, the TCEQ received a request from the permitee in writing to grant an extension for technical redevelopment of the current TBLLs due to the projected expansion of the POTW. This package shall be submitted within **twelve (12) months** of the completion on the expansion of TPDES Permit No. WQ0011318001.

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.

The pretreatment program language has been updated from the existing permit, and the pretreatment program requirements will continue until permit expiration. Please see specific details in the Pretreatment Requirements Section of the fact sheet.

E. WHOLE EFFLUENT TOXICITY (BIOMONITORING) REQUIREMENTS

(1) The draft permit includes chronic 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 25%, 34%, 45%, 60%, and 80%. The low-flow effluent concentration (critical dilution) is defined as 60% effluent. The critical dilution is in accordance with the "Aquatic Life Criteria" section of the "Water Quality Based Effluent Limitations/Conditions" section.

(a) Chronic static renewal survival and reproduction test using the water flea (*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) Chronic static renewal 7-day larval survival and growth 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*).

F. SUMMARY OF CHANGES FROM APPLICATION

None.

G. SUMMARY OF CHANGES FROM EXISTING PERMIT

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

Three-year compliance period has been removed from the Interim I phase in the draft permit.

Interim II phase of the existing permit has been removed in the draft permit.

Disinfection process has been updated to UV system from the chlorination system in the final phase of draft permit.

The provision that authorizes distribution and marketing of sludge has been re-instated in the draft permit.

The provision that authorizes to land apply Class A or Class AB biosolids on property owned, leased or under the direct of the permittee has been reinstated in the draft permit.

The contributing industries and pretreatment requirements No. 2 have been updated in the draft permit.

E. coli monitoring frequency has been updated from five/ week to Daily in the final phase of the draft permit.

The effluent limitation for Total Phosphorus (TP) to the 10.0 MGD phase will no longer be required. During the review in Major Amendment that was issued on October 23, 2023, there was an error made to add TP effluent limitations to the 10 MGD phase and was intended for the 16.0 MGD phase only. Removal of these effluent limits are based on a technical mistake and is in accordance with 40 CFR § 122.44(l)(2)(i)(B)(2).

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

Other Requirement No. 7 from the existing permit has been updated to show approval for the plans and specifications of the 16 MGD facility on August 13, 2024 (Log No. 0724/115).

Other Requirement No. 9 in the draft permit has been added for the acceptance of domestic septage at the facility.

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).

B. WATER QUALITY SUMMARY AND COASTAL MANAGEMENT PLAN

(1) WATER QUALITY SUMMARY

The treated effluent is directly discharged to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos River Basin. The designated uses for Segment No. 1218 are primary contact recreation 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 Salado Salamander (*Eurycea chisholmensis*), a threatened aquatic species, occurs in Bell County, but not in Segment No. 1218. This determination is based on 50 Code of Federal Regulations Part 17 Endangered and Threatened Wildlife and Plants; Determination of Threatened Species Status for the Georgetown Salamander and Salado Salamander Throughout Their Ranges; Final Rule as published in the Federal Register by Department of Interior Fish and Wildlife Service (USFWS) on February 24, 2014. To make this determination for TPDES permits, TCEQ and EPA only consider aquatic species occurring in watersheds of critical concern or high priority. The determination is subject to reevaluation due to subsequent updates or amendments. Species distribution information provided by the USFWS for the Salado Salamander identified critical habitat for the salamander in the vicinity of IH-35 and Salado Creek in Segment No. 1243, which is in a different subwatershed than the location of the facility associated with this permit action. Based upon this information, it is determined that the facility's discharge is not expected to impact the Salado Salamander. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Segment No. 1218 is currently listed on the State's inventory of impaired and threatened waters (the 2022 Clean Water Act Section 303(d) list). The listing is for bacteria in a portion of Nolan Creek from the confluence with the Leon River upstream to confluence with North Nolan/South Nolan Creek fork in Bell County (Assessment Unit [AU] 1218_01) and a portion of South Nolan Creek from the confluence with North Nolan/Nolan Creek fork upstream to the confluence with Liberty Ditch in the city of Killeen in Bell County (AU 1218_02). This facility is designed to provide adequate disinfection and, when operated properly, should not add to the bacterial impairment of the segment. In addition, in order to ensure that the proposed discharge meets the stream bacterial standard, an effluent limitation of 126 CFU or MPN of *E. coli* per 100 ml has been continued in the draft permit.

The pollutant analysis of treated effluent provided by the permittee in the application indicated 516 mg/l total dissolved solids (TDS), 45.8 mg/l sulfate, and 109 mg/l chloride present in the effluent. The segment criteria for Segment No. 1218 are 500 mg/l for TDS, 75 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 A 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 limits recommended above have been reviewed for consistency with the State of Texas WQMP. The existing limits 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" 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 Nolan Creek/South Nolan Creek. 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 Nolan Creek/South Nolan Creek.

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 16.0 MGD and the 7-day, 2-year (7Q2) flow of 16.29 cfs for Nolan Creek/South Nolan Creek. The estimated dilution at the edge of the ZID is calculated using the permitted flow of 16.0 MGD and 25% of the 7Q2 flow. The following critical effluent percentages are being used:

Acute Effluent %:	85.87 %	Chronic Effluent %:	60.31 %

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 99th 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." The segment values are 158 mg/l for hardness (as calcium carbonate), 53 mg/l chlorides, 7.3 standard units for pH, and 2 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 B 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

Nolan Creek/South Nolan Creek

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation 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 16.0 MGD and the harmonic mean flow of 29.07 cfs for Nolan Creek/South Nolan Creek. The following critical effluent percentage is being used:

Human Health Effluent %: 45.99%

Leon River Below Belton Lake

Water quality-based effluent limitations for the protection of human health are calculated using criteria for the consumption of freshwater fish tissue found in Table 2 of the Texas Surface Water Quality Standards (30 TAC Chapter 307). Freshwater fish tissue bioaccumulation 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 16.0 MGD and the harmonic mean flow of 33.83 cfs for Leon River Below Belton Lake. The following critical effluent percentage is being used:

Human Health Effluent %: 42.26 %

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 B 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

Nolan Creek/South Nolan Creek

Water Quality Segment No. 1218, which receives the discharge from this facility, is not designated as a public water supply. Screening reported analytical data of the effluent against water quality-based effluent limitations calculated for the protection of a drinking water supply is not applicable.

Leon River Below Belton Lake

Water Quality Segment No. 1219, 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 chronic freshwater biomonitoring requirements. A summary of the biomonitoring testing for the facility indicates that in the past 3 years, the permittee performed 17 chronic tests, with no demonstrations of significant toxicity (i.e., failures) by the water flea or fathead minnow.

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 (or 48-hour acute) 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 no demonstrations of significant toxicity during the period of record for either test species, a determination of no reasonable potential was made.

All of the test results were used for this determination.

(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 no demonstrations of significant mortality.

(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 and draft permit in the public place with the application.

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

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

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

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

For additional information about this application, contact Sumitra Pokharel at (512) 239-4722.

11. ADMINISTRATIVE RECORD

The following items were considered in developing the draft permit:

A. PERMIT(S)

TPDES Permit No. WQ0011318001 issued on October 23, 2023.

B. APPLICATION

Application received on November 8, 2024, and additional information received on December 2, 2024 and April 9, 2025.

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, 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 CWA § 303(d) List, Texas Commission on Environmental Quality, June 1, 2022; approved by the EPA 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: 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 Temple and City of Belton**
Permit Number, Outfall:	**Outfall 001**
Segment Number:	**1218**

Enter values needed for screening:			**Data Source (edit if different)**
QE - Average effluent flow	**16**	MGD	
QS - Perennial stream harmonic mean flow	**29.10**	cfs	Critical conditions memo
QE - Average effluent flow	**24.7557**	cfs	Calculated
CA - TDS - ambient segment concentration	**390**	mg/L	2010 IP, Appendix D
CA - chloride - ambient segment concentration	**53**	mg/L	2010 IP, Appendix D
CA - sulfate - ambient segment concentration	**46**	mg/L	2010 IP, Appendix D
CC - TDS - segment criterion	**500**	mg/L	Latest approved TSWQS, Appendix A
CC - chloride - segment criterion	**100**	mg/L	Latest approved TSWQS, Appendix A
CC - sulfate - segment criterion	**75**	mg/L	Latest approved TSWQS, Appendix A
CE - TDS - average effluent concentration	**516**	mg/L	Permit application
CE - chloride - average effluent concentration	**109**	mg/L	Permit application
CE - sulfate - average effluent concentration	**45.8**	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	629.30
Calculate the LTA	LTA = WLA * 0.93	585.25
Calculate the daily average	Daily Avg. = LTA * 1.47	**860.32**
Calculate the daily maximum	Daily Max. = LTA * 3.11	**1820.13**
Calculate 70% of the daily average	70% of Daily Avg. =	602.22
Calculate 85% of the daily average	85% of Daily Avg. =	731.27

No permit limitations needed if:	**516**	**≤**	**602.22**		
Reporting needed if:	**516**	**>**	**602.22**	**but ≤**	**731.27**
Permit limits may be needed if:	**516**	**>**	**731.27**		

No permit limitations needed for TDS

Chloride

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE			155.25	
Calculate the LTA	LTA = WLA * 0.93			144.38	
Calculate the daily average	Daily Avg. = LTA * 1.47			**212.24**	
Calculate the daily maximum	Daily Max. = LTA * 3.11			**449.02**	
Calculate 70% of the daily average	70% of Daily Avg. =			148.57	
Calculate 85% of the daily average	85% of Daily Avg. =			180.40	
No permit limitations needed if:	**109**	**≤**	**148.57**		
Reporting needed if:	**109**	**>**	**148.57**	**but ≤**	**180.40**
Permit limits may be needed if:	**109**	**>**	**180.40**		

No permit limitations needed for chloride

Sulfate

Calculate the WLA	WLA= [CC(QE+QS) - (QS)(CA)]/QE			109.09	
Calculate the LTA	LTA = WLA * 0.93			101.45	
Calculate the daily average	Daily Avg. = LTA * 1.47			**149.14**	
Calculate the daily maximum	Daily Max. = LTA * 3.11			**315.52**	
Calculate 70% of the daily average	70% of Daily Avg. =			104.40	
Calculate 85% of the daily average	85% of Daily Avg. =			126.77	
No permit limitations needed if:	**45.8**	**≤**	**104.40**		
Reporting needed if:	**45.8**	**>**	**104.40**	**but ≤**	**126.77**
Permit limits may be needed if:	**45.8**	**>**	**126.77**		

No permit limitations needed for sulfate

Attachment B: 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

PERMIT INFORMATION

Permittee Name:	City of Temple and City of Belton
TPDES Permit No.:	WQ0011318001
Outfall No.:	001
Prepared by:	Sumitra Pokharel
Date:	April 2, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Nolan Creek/South Nolan Creek.
Segment No.:	1218
TSS (mg/L):	2
pH (Standard Units):	7.3
Hardness (mg/L as $CaCO_3$):	158
Chloride (mg/L):	53
Effluent Flow for Aquatic Life (MGD):	16
Critical Low Flow [7Q2] (cfs):	16.29
% Effluent for Chronic Aquatic Life (Mixing Zone):	60.31
% Effluent for Acute Aquatic Life (ZID):	85.87
Effluent Flow for Human Health (MGD):	16
Harmonic Mean Flow (cfs):	29.07
% Effluent for Human Health:	45.99
Human Health Criterion (select: PWS, FISH, or INC)	**FISH**

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	288567.96	0.634		1.00	Assumed
Cadmium	6.60	-1.13	1819014.27	0.216		1.00	Assumed
Chromium (total)	6.52	-0.93	1737969.31	0.223		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	1737969.31	0.223		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	626957.07	0.444		1.00	Assumed
Lead	6.45	-0.80	1618735.92	0.236		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	329923.24	0.602		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	1174732.83	0.299		1.00	Assumed
Zinc	6.10	-0.70	774959.49	0.392		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	3.49	N/A	2.00	N/A	2.94	6.22
Aluminum	991	N/A	1154	N/A	661	N/A	972	2056
Arsenic	340	150	624	392	358	302	443	939
Cadmium	13.4	0.338	72.3	2.60	41.4	2.00	2.94	6.22
Carbaryl	2.0	N/A	2.33	N/A	1.33	N/A	1.96	4.15
Chlordane	2.4	0.004	2.79	0.00663	1.60	0.00511	0.00750	0.0158
Chlorpyrifos	0.083	0.041	0.0967	0.0680	0.0554	0.0523	0.0769	0.162
Chromium (trivalent)	829	108	4319	800	2475	616	905	1915
Chromium (hexavalent)	15.7	10.6	18.3	17.6	10.5	13.5	15.3	32.5
Copper	21.9	14.0	57.4	52.3	32.9	40.3	48.3	102
Cyanide (free)	45.8	10.7	53.3	17.7	30.6	13.7	20.0	42.4
4,4'-DDT	1.1	0.001	1.28	0.00166	0.734	0.00128	0.00187	0.00397
Demeton	N/A	0.1	N/A	0.166	N/A	0.128	0.187	0.397
Diazinon	0.17	0.17	0.198	0.282	0.113	0.217	0.166	0.352
Dicofol [Kelthane]	59.3	19.8	69.1	32.8	39.6	25.3	37.1	78.6
Dieldrin	0.24	0.002	0.279	0.00332	0.160	0.00255	0.00375	0.00794
Diuron	210	70	245	116	140	89.4	131	277
Endosulfan I (*alpha*)	0.22	0.056	0.256	0.0928	0.147	0.0715	0.105	0.222
Endosulfan II (*beta*)	0.22	0.056	0.256	0.0928	0.147	0.0715	0.105	0.222
Endosulfan sulfate	0.22	0.056	0.256	0.0928	0.147	0.0715	0.105	0.222
Endrin	0.086	0.002	0.100	0.00332	0.0574	0.00255	0.00375	0.00794
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.0166	N/A	0.0128	0.0187	0.0397
Heptachlor	0.52	0.004	0.606	0.00663	0.347	0.00511	0.00750	0.0158
Hexachlorocyclohexane (*gamma*) [Lindane]	1.126	0.08	1.31	0.133	0.751	0.102	0.150	0.317
Lead	106	4.13	522	29.0	299	22.3	32.8	69.4
Malathion	N/A	0.01	N/A	0.0166	N/A	0.0128	0.0187	0.0397
Mercury	2.4	1.3	2.79	2.16	1.60	1.66	2.35	4.98
Methoxychlor	N/A	0.03	N/A	0.0497	N/A	0.0383	0.0563	0.119
Mirex	N/A	0.001	N/A	0.00166	N/A	0.00128	0.00187	0.00397
Nickel	689	76.6	1333	211	764	162	238	504
Nonylphenol	28	6.6	32.6	10.9	18.7	8.43	12.3	26.2
Parathion (ethyl)	0.065	0.013	0.0757	0.0216	0.0434	0.0166	0.0243	0.0516
Pentachlorophenol	11.8	9.0	13.7	15.0	7.87	11.6	11.5	24.4
Phenanthrene	30	30	34.9	49.7	20.0	38.3	29.4	62.2
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.33	0.0232	1.33	0.0179	0.0262	0.0555
Selenium	20	5	23.3	8.29	13.3	6.38	9.38	19.8
Silver	0.8	N/A	14.3	N/A	8.22	N/A	12.0	25.5
Toxaphene	0.78	0.0002	0.908	0.000332	0.520	0.000255	0.000375	0.000794
Tributyltin [TBT]	0.13	0.024	0.151	0.0398	0.0867	0.0306	0.0450	0.0952
2,4,5 Trichlorophenol	136	64	158	106	90.7	81.7	120	254
Zinc	173	174	513	736	294	567	431	913

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	250	233	341	723
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.0000249	0.0000232	0.0000340	0.0000721
Anthracene	1109	1317	13170	2864	2663	3914	8282

Antimony	6	1071	10710	2329	2166	3183	6735
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	1263	1175	1727	3653
Benzidine	0.0015	0.107	1.07	0.233	0.216	0.318	0.672
Benzo(*a*)anthracene	0.024	0.025	0.25	0.0544	0.0506	0.0743	0.157
Benzo(*a*)pyrene	0.0025	0.0025	0.025	0.00544	0.00506	0.00743	0.0157
Bis(chloromethyl)ether	0.0024	0.2745	2.745	0.597	0.555	0.815	1.72
Bis(2-chloroethyl)ether	0.60	42.83	428.3	93.1	86.6	127	269
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	16.4	15.3	22.4	47.4
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	598	556	817	1729
Bromoform [Tribromomethane]	66.9	1060	10600	2305	2143	3150	6665
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	100	93.0	136	289
Chlordane	0.0025	0.0025	0.025	0.00544	0.00506	0.00743	0.0157
Chlorobenzene	100	2737	27370	5951	5534	8135	17212
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	398	370	543	1150
Chloroform [Trichloromethane]	70	7697	76970	16735	15564	22879	48403
Chromium (hexavalent)	62	502	5020	1091	1015	1492	3156
Chrysene	2.45	2.52	25.2	5.48	5.10	7.49	15.8
Cresols [Methylphenols]	1041	9301	93010	20223	18807	27646	58490
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.00435	0.00404	0.00594	0.0125
4,4'-DDE	0.00013	0.00013	0.0013	0.000283	0.000263	0.000386	0.000817
4,4'-DDT	0.0004	0.0004	0.004	0.000870	0.000809	0.00118	0.00251
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitol [Fenpropathrin]	262	473	4730	1028	956	1405	2974
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	9.22	8.57	12.6	26.6
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	1294	1203	1768	3741
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	7173	6671	9806	20746
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	4.87	4.53	6.65	14.0
1,2-Dichloroethane	5	364	3640	791	736	1081	2289
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	119833	111445	163824	346594
Dichloromethane [Methylene Chloride]	5	13333	133330	28990	26960	39631	83846
1,2-Dichloropropane	5	259	2590	563	524	769	1628
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	259	241	353	748
Dicofol [Kelthane]	0.30	0.30	3	0.652	0.607	0.891	1.88
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.000043 5	0.000040 4	0.000059 4	0.000125
2,4-Dimethylphenol	444	8436	84360	18342	17058	25075	53051
Di-*n*-Butyl Phthalate	88.9	92.4	924	201	187	274	581
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	1.73E-07	1.61E-07	2.36E-07	5.01E-07
Endrin	0.02	0.02	0.2	0.0435	0.0404	0.0594	0.125
Epichlorohydrin	53.5	2013	20130	4377	4070	5983	12659
Ethylbenzene	700	1867	18670	4059	3775	5549	11740
Ethylene Glycol	46744	1.68E+07	1.68E+08	36527949	33970992	49937358	105649785
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.000217	0.000202	0.000297	0.000628
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.000631	0.000586	0.000862	0.00182
Hexachlorobenzene	0.00068	0.00068	0.0068	0.00148	0.00138	0.00202	0.00427
Hexachlorobutadiene	0.21	0.22	2.2	0.478	0.445	0.653	1.38
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.084	0.0183	0.0170	0.0249	0.0528
Hexachlorocyclohexane (*beta*)	0.15	0.26	2.6	0.565	0.526	0.772	1.63

Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	3.41	0.741	0.690	1.01	2.14
Hexachlorocyclopentadiene	10.7	11.6	116	25.2	23.5	34.4	72.9
Hexachloroethane	1.84	2.33	23.3	5.07	4.71	6.92	14.6
Hexachlorophene	2.05	2.90	29	6.31	5.86	8.62	18.2
4,4'-Isopropylidenediphenol	1092	15982	159820	34749	32317	47505	100505
Lead	1.15	3.83	38.3	35.3	32.8	48.2	102
Mercury	0.0122	0.0122	0.122	0.0265	0.0247	0.0362	0.0767
Methoxychlor	2.92	3.0	30	6.52	6.07	8.91	18.8
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	2156888	2005906	2948682	6238368
Methyl *tert*-butyl ether [MTBE]	15	10482	104820	22791	21195	31157	65917
Nickel	332	1140	11400	4114	3826	5624	11899
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	4072	3787	5567	11778
N-Nitrosodiethylamine	0.0037	2.1	21	4.57	4.25	6.24	13.2
N-Nitroso-di-*n*-Butylamine	0.119	4.2	42	9.13	8.49	12.4	26.4
Pentachlorobenzene	0.348	0.355	3.55	0.772	0.718	1.05	2.23
Pentachlorophenol	0.22	0.29	2.9	0.631	0.586	0.862	1.82
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.00139	0.00129	0.00190	0.00402
Pyridine	23	947	9470	2059	1915	2814	5955
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	0.522	0.485	0.713	1.50
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	57.3	53.3	78.3	165
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	609	566	832	1760
Thallium	0.12	0.23	2.3	0.500	0.465	0.683	1.44
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	0.0239	0.0222	0.0326	0.0691
2,4,5-TP [Silvex]	50	369	3690	802	746	1096	2320
1,1,1-Trichloroethane	200	784354	7843540	1705407	1586029	2331462	4932549
1,1,2-Trichloroethane	5	166	1660	361	336	493	1043
Trichloroethylene [Trichloroethene]	5	71.9	719	156	145	213	452
2,4,5-Trichlorophenol	1039	1867	18670	4059	3775	5549	11740
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	35.9	33.4	49.0	103

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

Aquatic Life ***Parameter***	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Aldrin	2.05	2.50
Aluminum	680	826
Arsenic	310	377
Cadmium	2.05	2.50
Carbaryl	1.37	1.66
Chlordane	0.00525	0.00638
Chlorpyrifos	0.0538	0.0654
Chromium (trivalent)	633	769
Chromium (hexavalent)	10.7	13.0
Copper	33.8	41.0
Cyanide (free)	14.0	17.0
4,4'-DDT	0.00131	0.00159
Demeton	0.131	0.159
Diazinon	0.116	0.141
Dicofol [Kelthane]	26.0	31.5
Dieldrin	0.00262	0.00319

Diuron	91.9	111
Endosulfan I (*alpha*)	0.0735	0.0893
Endosulfan II (*beta*)	0.0735	0.0893
Endosulfan sulfate	0.0735	0.0893
Endrin	0.00262	0.00319
Guthion [Azinphos Methyl]	0.0131	0.0159
Heptachlor	0.00525	0.00638
Hexachlorocyclohexane (*gamma*) [Lindane]	0.105	0.127
Lead	22.9	27.8
Malathion	0.0131	0.0159
Mercury	1.64	2.00
Methoxychlor	0.0394	0.0478
Mirex	0.00131	0.00159
Nickel	166	202
Nonylphenol	8.67	10.5
Parathion (ethyl)	0.0170	0.0207
Pentachlorophenol	8.09	9.83
Phenanthrene	20.5	25.0
Polychlorinated Biphenyls [PCBs]	0.0183	0.0223
Selenium	6.56	7.97
Silver	8.46	10.2
Toxaphene	0.000262	0.000319
Tributyltin [TBT]	0.0315	0.0382
2,4,5 Trichlorophenol	84.0	102
Zinc	302	367

Human Health *Parameter*	***70% of Daily Avg. (µg/L)***	***85% of Daily Avg. (µg/L)***
Acrylonitrile	239	290
Aldrin	0.0000238	0.0000289
Anthracene	2740	3327
Antimony	2228	2705
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	1208	1467
Benzidine	0.222	0.270
Benzo(*a*)anthracene	0.0520	0.0631
Benzo(*a*)pyrene	0.00520	0.00631
Bis(chloromethyl)ether	0.571	0.693
Bis(2-chloroethyl)ether	89.1	108
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	15.7	19.0
Bromodichloromethane [Dichlorobromomethane]	572	694
Bromoform [Tribromomethane]	2205	2678
Cadmium	N/A	N/A
Carbon Tetrachloride	95.7	116
Chlordane	0.00520	0.00631
Chlorobenzene	5694	6915
Chlorodibromomethane [Dibromochloromethane]	380	462
Chloroform [Trichloromethane]	16015	19447
Chromium (hexavalent)	1044	1268
Chrysene	5.24	6.36
Cresols [Methylphenols]	19352	23499

Cyanide (free)	N/A	N/A
4,4'-DDD	0.00416	0.00505
4,4'-DDE	0.000270	0.000328
4,4'-DDT	0.000832	0.00101
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	984	1195
1,2-Dibromoethane [Ethylene Dibromide]	8.82	10.7
m-Dichlorobenzene [1,3-Dichlorobenzene]	1238	1503
o-Dichlorobenzene [1,2-Dichlorobenzene]	6864	8335
p-Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	4.66	5.65
1,2-Dichloroethane	757	919
1,1-Dichloroethylene [1,1-Dichloroethene]	114676	139250
Dichloromethane [Methylene Chloride]	27742	33687
1,2-Dichloropropane	538	654
1,3-Dichloropropene [1,3-Dichloropropylene]	247	300
Dicofol [Kelthane]	0.624	0.757
Dieldrin	0.0000416	0.0000505
2,4-Dimethylphenol	17552	21314
Di-*n*-Butyl Phthalate	192	233
Dioxins/Furans [TCDD Equivalents]	1.65E-07	2.01E-07
Endrin	0.0416	0.0505
Epichlorohydrin	4188	5086
Ethylbenzene	3884	4717
Ethylene Glycol	34956150	42446754
Fluoride	N/A	N/A
Heptachlor	0.000208	0.000252
Heptachlor Epoxide	0.000603	0.000732
Hexachlorobenzene	0.00141	0.00171
Hexachlorobutadiene	0.457	0.555
Hexachlorocyclohexane (*alpha*)	0.0174	0.0212
Hexachlorocyclohexane (*beta*)	0.540	0.656
Hexachlorocyclohexane (*gamma*) [Lindane]	0.709	0.861
Hexachlorocyclopentadiene	24.1	29.3
Hexachloroethane	4.84	5.88
Hexachlorophene	6.03	7.32
4,4'-Isopropylidenediphenol	33254	40380
Lead	33.7	41.0
Mercury	0.0253	0.0308
Methoxychlor	6.24	7.57
Methyl Ethyl Ketone	2064077	2506379
Methyl *tert*-butyl ether [MTBE]	21810	26483
Nickel	3937	4780
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	3897	4732
N-Nitrosodiethylamine	4.36	5.30
N-Nitroso-di-*n*-Butylamine	8.73	10.6
Pentachlorobenzene	0.738	0.896
Pentachlorophenol	0.603	0.732
Polychlorinated Biphenyls [PCBs]	0.00133	0.00161
Pyridine	1970	2392
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.499	0.606
1,1,2,2-Tetrachloroethane	54.8	66.5
Tetrachloroethylene [Tetrachloroethylene]	582	707

Thallium	0.478	0.581
Toluene	N/A	N/A
Toxaphene	0.0228	0.0277
2,4,5-TP [Silvex]	767	932
1,1,1-Trichloroethane	1632023	1981742
1,1,2-Trichloroethane	345	419
Trichloroethylene [Trichloroethene]	149	181
2,4,5-Trichlorophenol	3884	4717
TTHM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	34.3	41.6

HUMAN HEALTH ONLY

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

Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ

PERMIT INFORMATION

Permittee Name:	City of Temple and City of Belton
TPDES Permit No.:	WQ0011318001
Outfall No.:	001
Prepared by:	Sumitra Pokharel
Date:	April 2, 2025

DISCHARGE INFORMATION

Receiving Waterbody:	Leon River Below Belton Lake
Segment No.:	1219
TSS (mg/L):	7
Effluent Flow for Human Health (MGD):	16
Harmonic Mean Flow (cfs):	33.83
% Effluent for Human Health:	42.26
Human Health Criterion (select: PWS or FISH)	**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	115632.10	0.553		1.00	Assumed
Cadmium	6.60	-1.13	441610.32	0.244		1.00	Assumed
Chromium (total)	6.52	-0.93	542074.31	0.209		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	542074.31	0.209		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	248100.39	0.365		1.00	Assumed
Lead	6.45	-0.80	594184.84	0.194		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	161545.22	0.469		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	323257.80	0.306		1.00	Assumed
Zinc	6.10	-0.70	322426.98	0.307		1.00	Assumed

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

Parameter	*Water and Fish Criterion (µg/L)*	*Fish Only Criterion (µg/L)*	*WLAh (µg/L)*	*LTAh (µg/L)*	*Daily Avg. (µg/L)*	*Daily Max. (µg/L)*
Acrylonitrile	1.0	115	2.37	2.20	3.23	6.84
Aldrin	1.146E-05	1.147E-05	0.0000271	0.0000252	0.0000370	0.0000783
Anthracene	1109	1317	2625	2441	3588	7591
Antimony	6	1071	14.2	13.2	19.4	41.0
Arsenic	10	N/A	42.8	39.8	58.5	123
Barium	2000	N/A	4733	4402	6470	13690
Benzene	5	581	11.8	11.0	16.1	34.2
Benzidine	0.0015	0.107	0.00355	0.00330	0.00485	0.0102
Benzo(*a*)anthracene	0.024	0.025	0.0568	0.0528	0.0776	0.164
Benzo(*a*)pyrene	0.0025	0.0025	0.00592	0.00551	0.00809	0.0171
Bis(chloromethyl)ether	0.0024	0.2745	0.00568	0.00528	0.00776	0.0164
Bis(2-chloroethyl)ether	0.60	42.83	1.42	1.32	1.94	4.10
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	14.2	13.2	19.4	41.0
Bromodichloromethane [Dichlorobromomethane]	10.2	275	24.1	22.4	32.9	69.6
Bromoform [Tribromomethane]	66.9	1060	158	147	216	457
Cadmium	5	N/A	48.4	45.0	66.1	139
Carbon Tetrachloride	4.5	46	10.6	9.86	14.4	30.6
Chlordane	0.0025	0.0025	0.00592	0.00551	0.00809	0.0171
Chlorobenzene	100	2737	237	220	323	684
Chlorodibromomethane [Dibromochloromethane]	7.5	183	17.7	16.5	24.2	51.3
Chloroform [Trichloromethane]	70	7697	166	154	226	478
Chromium (hexavalent)	62	502	147	137	201	426
Chrysene	2.45	2.52	5.80	5.39	7.92	16.7
Cresols [Methylphenols]	1041	9301	2464	2292	3369	7128
Cyanide (free)	200	N/A	473	440	646	1368
4,4'-DDD	0.002	0.002	0.00473	0.00440	0.00646	0.0136
4,4'-DDE	0.00013	0.00013	0.000308	0.000286	0.000420	0.000889
4,4'-DDT	0.0004	0.0004	0.000947	0.000881	0.00129	0.00273
2,4'-D	70	N/A	166	154	226	478
Danitol [Fenpropathrin]	262	473	620	577	848	1794
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	0.402	0.374	0.549	1.16
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	762	709	1042	2204
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	1420	1321	1941	4108
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	177	165	242	513
3,3'-Dichlorobenzidine	0.79	2.24	1.87	1.74	2.55	5.41
1,2-Dichloroethane	5	364	11.8	11.0	16.1	34.2
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	16.6	15.4	22.6	47.8
Dichloromethane [Methylene Chloride]	5	13333	11.8	11.0	16.1	34.2
1,2-Dichloropropane	5	259	11.8	11.0	16.1	34.2
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	6.63	6.17	9.06	19.1
Dicofol [Kelthane]	0.30	0.30	0.710	0.660	0.970	2.05
Dieldrin	2.0E-05	2.0E-05	0.0000473	0.0000440	0.0000646	0.000136
2,4-Dimethylphenol	444	8436	1051	977	1436	3038
Di-*n*-Butyl Phthalate	88.9	92.4	210	195	286	606
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	1.85E-07	1.72E-07	2.52E-07	5.34E-07
Endrin	0.02	0.02	0.0473	0.0440	0.0646	0.136
Epichlorohydrin	53.5	2013	127	118	173	366
Ethylbenzene	700	1867	1657	1541	2265	4792
Ethyl Glycol	46744	1.68E+07	110623	102879	151232	319953
Fluoride	4000	N/A	9466	8803	12940	27377
Heptachlor	8.0E-05	0.0001	0.000189	0.000176	0.000258	0.000547
Heptachlor Epoxide	0.00029	0.00029	0.000686	0.000638	0.000937	0.00198

Hexachlorobenzene	0.00068	0.00068	0.00161	0.00150	0.00220	0.00466
Hexachlorobutadiene	0.21	0.22	0.497	0.462	0.679	1.43
Hexachlorocyclohexane (*alpha*)	0.0078	0.0084	0.0185	0.0172	0.0252	0.0534
Hexachlorocyclohexane (*beta*)	0.15	0.26	0.355	0.330	0.485	1.02
Hexachlorocyclohexane (*gamma*) [Lindane]	0.2	0.341	0.473	0.440	0.646	1.36
Hexachlorocyclopentadiene	10.7	11.6	25.3	23.5	34.5	73.0
Hexachloroethane	1.84	2.33	4.35	4.05	5.95	12.5
Hexachlorophene	2.05	2.90	4.85	4.51	6.62	14.0
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	2584	2403	3532	7473
Lead	1.15	3.83	14.0	13.0	19.1	40.4
Mercury	0.0122	0.0122	0.0289	0.0269	0.0395	0.0836
Methoxychlor	2.92	3.0	6.91	6.43	9.45	19.9
Methyl Ethyl Ketone	13865	9.92E+05	32812	30515	44857	94901
Methyl *tert*-butyl ether [MTBE]	15	10482	35.5	33.0	48.5	102
Nickel	332	1140	1674	1557	2288	4842
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	23666	22009	32353	68447
Nitrobenzene	45.7	1873	108	100	147	311
N-Nitrosodiethylamine	0.0037	2.1	0.00876	0.00815	0.0119	0.0253
N-Nitroso-di-*n*-Butylamine	0.119	4.2	0.282	0.262	0.385	0.814
Pentachlorobenzene	0.348	0.355	0.824	0.766	1.12	2.38
Pentachlorophenol	0.22	0.29	0.521	0.485	0.712	1.50
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	0.00151	0.00140	0.00205	0.00435
Pyridine	23	947	54.4	50.6	74.3	157
Selenium	50	N/A	118	110	161	342
1,2,4,5-Tetrachlorobenzene	0.23	0.24	0.544	0.506	0.743	1.57
1,1,2,2-Tetrachloroethane	1.64	26.35	3.88	3.61	5.30	11.2
Tetrachloroethylene [Tetrachloroethylene]	5	280	11.8	11.0	16.1	34.2
Thallium	0.12	0.23	0.284	0.264	0.388	0.821
Toluene	1000	N/A	2367	2201	3235	6845
Toxaphene	0.011	0.011	0.0260	0.0242	0.0355	0.0752
2,4,5-TP [Silvex]	50	369	118	110	161	342
1,1,1-Trichloroethane	200	784354	473	440	646	1368
1,1,2-Trichloroethane	5	166	11.8	11.0	16.1	34.2
Trichloroethylene [Trichloroethene]	5	71.9	11.8	11.0	16.1	34.2
2,4,5-Trichlorophenol	1039	1867	2459	2287	3361	7112
TTHM [Sum of Total Trihalomethanes]	80	N/A	189	176	258	547
Vinyl Chloride	0.23	16.5	0.544	0.506	0.743	1.57

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

Human Health	***70% of Daily Avg.***	***85% of Daily Avg.***
Parameter	***(µg/L)***	***(µg/L)***
Acrylonitrile	2.26	2.74
Aldrin	0.0000259	0.0000314
Anthracene	2511	3049
Antimony	13.5	16.4
Arsenic	40.9	49.7
Barium	4529	5499
Benzene	11.2	13.6
Benzidine	0.00339	0.00412
Benzo(*a*)anthracene	0.0543	0.0659
Benzo(*a*)pyrene	0.00566	0.00687
Bis(chloromethyl)ether	0.00543	0.00659
Bis(2-chloroethyl)ether	1.35	1.64

Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	13.5	16.4
Bromodichloromethane [Dichlorobromomethane]	23.0	27.9
Bromoform [Tribromomethane]	151	183
Cadmium	46.2	56.1
Carbon Tetrachloride	10.0	12.2
Chlordane	0.00566	0.00687
Chlorobenzene	226	274
Chlorodibromomethane [Dibromochloromethane]	16.9	20.5
Chloroform [Trichloromethane]	158	192
Chromium (hexavalent)	140	170
Chrysene	5.54	6.73
Cresols [Methylphenols]	2358	2863
Cyanide (free)	452	549
4,4'-DDD	0.00452	0.00549
4,4'-DDE	0.000294	0.000357
4,4'-DDT	0.000903	0.00109
2,4'-D	158	192
Danitol [Fenpropathrin]	593	720
1,2-Dibromoethane [Ethylene Dibromide]	0.384	0.466
m-Dichlorobenzene [1,3-Dichlorobenzene]	729	885
o-Dichlorobenzene [1,2-Dichlorobenzene]	1358	1649
p-Dichlorobenzene [1,4-Dichlorobenzene]	169	205
3,3'-Dichlorobenzidine	1.78	2.16
1,2-Dichloroethane	11.2	13.6
1,1-Dichloroethylene [1,1-Dichloroethene]	15.8	19.2
Dichloromethane [Methylene Chloride]	11.2	13.6
1,2-Dichloropropane	11.2	13.6
1,3-Dichloropropene [1,3-Dichloropropylene]	6.34	7.70
Dicofol [Kelthane]	0.679	0.824
Dieldrin	0.0000452	0.0000549
2,4-Dimethylphenol	1005	1220
Di-*n*-Butyl Phthalate	200	243
Dioxins/Furans [TCDD Equivalents]	1.76E-07	2.14E-07
Endrin	0.0452	0.0549
Epichlorohydrin	121	147
Ethylbenzene	1585	1925
Ethyl Glycol	105862	128547
Fluoride	9058	10999
Heptachlor	0.000180	0.000219
Heptachlor Epoxide	0.000655	0.000796
Hexachlorobenzene	0.00154	0.00187
Hexachlorobutadiene	0.475	0.577
Hexachlorocyclohexane (*alpha*)	0.0176	0.0214
Hexachlorocyclohexane (*beta*)	0.339	0.412
Hexachlorocyclohexane (*gamma*) [Lindane]	0.452	0.549
Hexachlorocyclopentadiene	24.1	29.3
Hexachloroethane	4.16	5.05
Hexachlorophene	4.63	5.62
4,4'-Isopropylidenediphenol [Bisphenol A]	2472	3002
Lead	13.3	16.2
Mercury	0.0276	0.0335
Methoxychlor	6.61	8.03
Methyl Ethyl Ketone	31399	38128
Methyl *tert*-butyl ether [MTBE]	33.9	41.2
Nickel	1601	1944

Nitrate-Nitrogen (as Total Nitrogen)	22647	27500
Nitrobenzene	102	124
N-Nitrosodiethylamine	0.00833	0.0101
N-Nitroso-di-*n*-Butylamine	0.269	0.327
Pentachlorobenzene	0.784	0.952
Pentachlorophenol	0.498	0.605
Polychlorinated Biphenyls [PCBs]	0.00143	0.00174
Pyridine	52.0	63.1
Selenium	112	136
1,2,4,5-Tetrachlorobenzene	0.520	0.631
1,1,2,2-Tetrachloroethane	3.71	4.50
Tetrachloroethylene [Tetrachloroethylene]	11.2	13.6
Thallium	0.271	0.329
Toluene	2264	2749
Toxaphene	0.0248	0.0301
2,4,5-TP [Silvex]	112	136
1,1,1-Trichloroethane	452	549
1,1,2-Trichloroethane	11.2	13.6
Trichloroethylene [Trichloroethene]	11.2	13.6
2,4,5-Trichlorophenol	2352	2856
TTHM [Sum of Total Trihalomethanes]	180	219
Vinyl Chloride	0.520	0.631

City of Temple and City of Belton
Temple Belton Wastewater Treatment Facility

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

APPLICATION FOR RENEWAL

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM
PERMIT NO. WQ0011318001

November 8, 2024

Mead & Hunt

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the application.

APPLICANT NAME: **City of Temple and City of Belton**

PERMIT NUMBER (If new, leave blank): WQ00 **11318001**

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: Click to enter text.

Check/Money Order Amount: Click to enter text.

Name Printed on Check: Click to enter text.

EPAY — Voucher Number: **728135, 728136**

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

TCEQ ePay Receipt

Transaction Information

Trace Number:	582EA000631672
Date:	10/29/2024 12:33 PM
Payment Method:	CC - Authorization 0000008478
ePay Actor:	CATHERINE MARTINEZ
TCEQ Amount:	$2,015.00
Texas.gov Price::	$2,060.59*

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

Payment Contact Information

Name:	COLTON MIGURA
Company:	CITY OF TEMPLE
Address:	3210 E AVENUE H BUILDING C, TEMPLE, TX 76501
Phone:	254-298-5940

Cart Items

Voucher	Fee Description	AR Number	Amount
728135	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL		$2,000.00
728136	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	**$2,015.00**

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	728135
Trace Number:	582EA000631672
Date:	10/29/2024 12:33 PM
Payment Method:	CC - Authorization 0000008478
Voucher Amount:	$2,000.00
Fee Type:	WW PERMIT - FACILITY WITH FLOW >= 1.0 MGD - RENEWAL
ePay Actor:	CATHERINE MARTINEZ

Payment Contact Information

Name:	COLTON MIGURA
Company:	CITY OF TEMPLE
Address:	3210 E AVENUE H BUILDING C, TEMPLE, TX 76501
Phone:	254-298-5940

Site Information

Site Name:	TEMPLE BELTON WASTEWATER TREATMENT FACILITY
Site Location:	2405 EAST 6TH AVENUE BELTON TX 76513

Customer Information

Customer Name:	CITY OF TEMPLE
Customer Address:	2 N MAIN ST, TEMPLE, TX 76501

Other Information

Program Area ID:	WQ0011318001

TCEQ ePay Voucher Receipt

Transaction Information

Voucher Number:	728136
Trace Number:	582EA000631672
Date:	10/29/2024 12:33 PM
Payment Method:	CC - Authorization 0000008478
Voucher Amount:	$15.00
Fee Type:	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE
ePay Actor:	CATHERINE MARTINEZ

Payment Contact Information

Name:	COLTON MIGURA
Company:	CITY OF TEMPLE
Address:	3210 E AVENUE H BUILDING C, TEMPLE, TX 76501
Phone:	254-298-5940

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: **See Attachment A.**

f. For existing permits:

Permit Number: WQ00 **11318001**

EPA I.D. (TPDES only): TX **0058378**

Expiration Date: **May 8, 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 Temple and City of Belton

(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: **600245799 and 600246367**

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

Prefix: **Mr.** Last Name, First Name: **Bond, Don**

Title: **Director of Public Works** Credential: **P.E.**

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?

City of Belton

(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: **600246367**

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

Prefix: **Mr.** Last Name, First Name: **Listi, Sam**

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

Provide a brief description of the need for a co-permittee: **Facility is co-owned by City of Temple and City of Belton**

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. **B**

Section 4. Application Contact Information (Instructions Page 27)

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

A. Prefix: **Mr.** Last Name, First Name: **Moffett, Kenton**

Title: **Assistant Director of Public Works - Utilities** Credential: **P.E.**

Organization Name: **City of Temple**

Mailing Address: **3210 E. Avenue H, Bldg A, Suite 123** City, State, Zip Code: **Temple, TX 76501**

Phone No.: **(254) 298-5621** E-mail Address: **kmoffett@templetx.gov**

Check one or both: ☒ Administrative Contact ☒ Technical Contact

B. Prefix: **Ms.** Last Name, First Name: **Sims, Janet**

Title: **Project Manager** Credential: Click to enter text.

Organization Name: **Mead & Hunt, Inc.**

Mailing Address: **8217 Shoal Creek Boulevard, Suite 203** City, State, Zip Code: **Austin, TX 78757**

Phone No.: **(512) 735-1001** E-mail Address: **Janet.Sims@meadhunt.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: **Davis, Tim**

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

Organization Name: **City of Temple**

Mailing Address: **2 N Main Street** City, State, Zip Code: **Temple, TX 76501**

Phone No.: **(254) 298-5700** E-mail Address: **tdavis@templetx.gov**

B. Prefix: **Mr.** Last Name, First Name: **Leigh, David**

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

Organization Name: **City of Belton**

Mailing Address: **P.O. Box 120** City, State, Zip Code: **Belton, TX 76513**

Phone No.: **(254) 933-5822** E-mail Address: **dkleigh@beltontexas.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: **Mr.** Last Name, First Name: **Bond, Don**

Title: **Director of Public Works** Credential: **P.E.**

Organization Name: **City of Temple**

Mailing Address: **3210 East Avenue H, Building A** City, State, Zip Code: **Temple, TX 76510**

Phone No.: **(254) 298-5621** E-mail Address: **dbond@templetx.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: **Lock, Randy**

Title: **Regional Operational Superintendent** Credential: Click to enter text.

Organization Name: **Brazos River Authority**

Mailing Address: **2405 East Sixth Avenue** City, State, Zip Code: **Belton, TX 76513**

Phone No.: **(254) 307-9826** E-mail Address: **randy.lock@brazos.org**

Section 8. Public Notice Information (Instructions Page 27)

A. Individual Publishing the Notices

Prefix: **Ms.** Last Name, First Name: **Lewellen, Jana**

Title: **City Secretary** Credential:

Organization Name: **City of Temple**

Mailing Address: **2 N Main Street** City, State, Zip Code: **Temple, TX 76501**

Phone No.: **(254) 298-5700** E-mail Address: **citysecretary@templetx.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 **citysecretary@templetx.gov**

☐ Fax **Cc: kmoffett@templetx.gov**

☐ Regular Mail

C. Contact person to be listed in the Notices

Prefix: **Mr.** Last Name, First Name: **Moffett, Kenton**

Title: **Assistant Director of Public Works - Utilities** Credential: **P.E.**

Organization Name: **City of Temple**

Mailing Address: **3210 E. Ave H, Bldg A, Suite 123** City, State, Zip Code: **Temple, TX 76510**

Phone No.: **(254) 298-5621** E-mail Address: **kmoffett@templetx.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: **Department of Public Works**

Location within the building: **Suite 130**

Physical Address of Building: **3210 East Avenue H, Building A**

City: **Temple** County: **Bell**

Contact (Last Name, First Name):**Moffett, Kenton**

Phone No.: **(254) 298-5621** Ext.: Click to enter text.

E. Bilingual Notice Requirements

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

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

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

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

   ☒ Yes ☐ No

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

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

   ☒ Yes ☐ No

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

   ☐ Yes ☒ No

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

   ☐ Yes ☒ No

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

F. Plain Language Summary Template

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

Attachment: C

G. Public Involvement Plan Form

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

Attachment: N/A

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 102097193**

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):

Temple Belton Wastewater Treatment Facility

C. Owner of treatment facility: **City of Temple and City of Belton**

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 Temple and City of Belton**

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

Organization Name: **City of Temple and City of Belton**

Mailing Address: **3210 East Avenue H, Suite 130** City, State, Zip Code: **Temple, TX 76501**

Phone No.: **(254) 298-5621** E-mail Address: **dbond@templetx.gov**

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: N/A

E. Owner of effluent disposal site:

Prefix: **N/A** 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: **N/A** 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): **Belton, TX**

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

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: N/A

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: **Milam, Robertson, Burleson, Brazos, and Washington**

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:

N/A

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:

☐ **N/A** 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 **See Attachment D.**
- 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.

☐ **N/A** Attachment 1 for Individuals as co-applicants

☒ Other Attachments. Please specify**:**

Attachment

A. Description of Proposed Changes
B. Core Data Form
C. Plain Language Summary
D. USGS Map
E. Treatment Process Description
F. Treatment Units
G. Process Flow Diagram
H. Site Drawing
I. Stormwater Runoff Management
J. Effluent Analysis Reports
K. Parameters above the MAL
L. Sludge Treatment Process Description
M. 100-Year Frequency Flood Protection
N. Marketing and Distribution Plan
SPIF

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: **WQ0011318001**

Applicant: **City of Temple**

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): **Don Bond, P.E.**

Signatory title: **Director of Public Works**

Signature: _____ Date: 10/24/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Don Bond

on this 24th day of October, 2024.

My commission expires on the 25th day of May, 2028.

_____

Notary Public

PRISCILLA VELASQUEZ
NOTARY PUBLIC STATE OF TEXAS
MY COMM. EXP. 5/25/28
NOTARY ID 124937980

[SEAL]

Bell

County, Texas

Section 14. Signature Page (Instructions Page 34)

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

Permit Number: **WQ0011318001**

Applicant: **City of Belton**

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): **Sam A. Listi**

Signatory title: **City Manager**

Signature: Sam A. Listi Date: 10/24/2024

(Use blue ink)

Subscribed and Sworn to before me by the said Sam A. Listi, City Manager

on this 24th day of October, 20 24.

My commission expires on the 11th day of August, 20 26.

Michelle Fogle

Notary Public

MICHELLE FOGLE
Notary ID #6556372
My Commission Expires
August 11, 2026

[SEAL]

Bell

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: SPIF

DOMESTIC WASTEWATER PERMIT APPLICATION CHECKLIST OF COMMON DEFICIENCIES

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

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

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

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

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

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

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

Things to Know:

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

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

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

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

Plain Language Summary ☒ Yes

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

DOMESTIC WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

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

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

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

A. Existing/Interim I Phase

Design Flow (MGD): **10**

2-Hr Peak Flow (MGD): **30**

Estimated construction start date: **--**

Estimated waste disposal start date: **--**

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): **16**

2-Hr Peak Flow (MGD): **42.5**

Estimated construction start date: **2/2025**

Estimated waste disposal start date: **2/2027**

D. Current Operating Phase

Provide the startup date of the facility: **1975**

Section 2. Treatment Process (Instructions Page 43)

A. Current Operating Phase

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

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

See Attachment E.

B. Treatment Units

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

Table 1.0(1) - Treatment Units

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

C. Process Flow Diagram

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

Attachment: **G**

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

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

- Latitude: **31.043226**
- Longitude: **-97.438636**

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: **H**

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

The treatment facility serves the City of Belton and portions of the City of Temple.

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
City of Belton	City of Belton	Publicly Owned	23,054
City of Temple	City of Temple	Publicly Owned	49,406
		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.

Disinfection will be performed by ultraviolet light in the Final Phase. Therefore, the existing chlorine contact basin will be taken out of service. Prior to taking the treatment unit permanently out of service and conducting any closure activities, a closure plan will be submitted to TCEQ for review and approval.

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: **Final Phase approved 8/13/2024.**

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

Click to enter text.

B. Buffer zones

Have the buffer zone requirements been met?

☒ Yes ☐ No

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

N/A – Existing permit does not require submittal of any information related to buffer zone requirements.

C. Other actions required by the current permit

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

☐ Yes ☒ No

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

Click to enter text.

D. Grit and grease treatment

1. Acceptance of grit and grease waste

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

☐ Yes ☒ No

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

2. Grit and grease processing

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

Click to enter text.

3. Grit disposal

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

☐ Yes ☐ No

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

Describe the method of grit disposal.

Click to enter text.

4. *Grease and decanted liquid disposal*

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

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

Click to enter text.

E. Stormwater management

1. *Applicability*

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

2. *MSGP coverage*

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

☐ Yes ☒ No

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

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

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

☐ Yes ☒ No

3. *Conditional exclusion*

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

☐ Yes ☒ No

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

Click to enter text.

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

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

☐ Yes ☒ No

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

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.

See Attachment I.

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

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

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

☐ Yes ☒ No

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

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

Click to enter text.

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

F. Discharges to the Lake Houston Watershed

Does the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

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

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

1. Acceptance of sludge from other WWTPs

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

☐ Yes ☒ No

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

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

Click to enter text.

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

2. Acceptance of septic waste

Is the facility accepting or will it accept septic waste?

☒ Yes ☐ No

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

The Temple Belton WWTF began accepting septic sludge waste prior to 1988. An estimate of 0.31 million gallons with an approximate concentration of 7,500 mg/L BOD5 is accepted each month. The design BOD5 concentration for the WWTF is 170 mg/L. No changes to the septic waste hauling activities have been made since the last permit action.

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

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

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

☐ Yes ☒ No

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

Click to enter text.

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

Is the facility in operation?

☒ Yes ☐ No

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

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

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

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

Pollutant	Average Conc.	Max Conc.	No. of Samples	Sample Type	Sample Date/Time
$CBOD_5$, mg/l	3	3	1	Comp.	9/17/2024 @10:59 am
Total Suspended Solids, mg/l	3	3	1	Comp.	9/17/2024 @10:59 am
Ammonia Nitrogen, mg/l	4.96	4.96	1	Comp.	9/17/2024 @10:59 am
Nitrate Nitrogen, mg/l	4.8	4.8	1	Comp.	9/17/2024 @10:59 am
Total Kjeldahl Nitrogen, mg/l	6.50	6.50	1	Comp.	9/17/2024 @10:59 am
Sulfate, mg/l	45.8	45.8	1	Comp.	9/17/2024 @10:59 am
Chloride, mg/l	109	109	1	Comp.	9/17/2024 @10:59 am
Total Phosphorus, mg/l	5.1	5.1	1	Comp.	9/17/2024 @10:59 am
pH, standard units	7.40	7.40	1	Grab	9/13/2024 7:30am
Dissolved Oxygen*, mg/l	7.56	7.56	1	Grab	9/13/2024 7:30am
Chlorine Residual, mg/l	<0.1	<0.1	1	Grab	9/17/2024 @8:41 am
E.coli (CFU/100ml) freshwater	51.2	51.2	1	Grab	9/17/2024 @8:41 am
Entercocci (CFU/100ml) saltwater	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	516	516	1	Comp.	9/17/2024 @10:59 am
Electrical Conductivity, µmohs/cm, †	N/A	N/A	N/A	N/A	N/A
Oil & Grease, mg/l	<5.0	<5.0	4	Grab	9/17/2024
Alkalinity ($CaCO_3$)*, mg/l	164	164	1	Comp.	9/17/2024 @10:59 am

*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	N/A	N/A	N/A	N/A	N/A
Total Dissolved Solids, mg/l	N/A	N/A	N/A	N/A	N/A
pH, standard units	N/A	N/A	N/A	N/A	N/A
Fluoride, mg/l	N/A	N/A	N/A	N/A	N/A
Aluminum, mg/l	N/A	N/A	N/A	N/A	N/A
Alkalinity ($CaCO_3$), mg/l	N/A	N/A	N/A	N/A	N/A

Section 8. Facility Operator (Instructions Page 50)

Facility Operator Name: **Nathan Wilde**

Facility Operator's License Classification and Level: **WWOL A**

Facility Operator's License Number: **WW0051402**

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
Distribution & Marketing-Composting	On-Site Owner or Operator	Bulk	**Approx. 1230 dry metric ton/year**	**N/A**	**N/A**
Disposal in Landfill	On-Site Owner or Operator	Not Applicable	**Approx. 1570 dry metric ton/year**	**N/A**	**N/A**
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: **Temple Recycling and Disposal Facility**

TCEQ permit or registration number: **692B**

County where disposal site is located: **Bell**

E. Transportation method

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

Name of the hauler: **S & M Vacuum & Waste, Ltd.**

Hauler registration number: **20089**

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 **See Attachment A.**

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

N/A – A permit is not required for the land application of Class A/AB biosolids.

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:
- 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:

Reclaimed Water Use Authorization R11318-001.

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:

The City of Belton and City of Temple received an agreed order for effluent violations discovered during a record review conducted on June 1, 2022. The agreed order is being processed.

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: **Sam A. Listi**

Title: **City Manager**

Signature: Sam A. Listi

Date: 10/24/2024

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: **Don Bond, P.E.**

Title: **Director of Public Works**

Signature: _____

Date: 10/24/2024

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 ☒

Date and time sample(s) collected: **See Attachment J.**

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**	**1**	50
Aldrin	**<0.0100**	**<0.0100**	**1**	0.01
Aluminum	**<20.0**	**<20.0**	**1**	2.5
Anthracene	**<0.570**	**<0.570**	**1**	10
Antimony	**<2.0**	**<2.0**	**1**	5
Arsenic	**<4.0**	**<4.0**	**1**	0.5
Barium	**52.0**	**52.0**	**1**	3
Benzene	**<1.00**	**<1.00**	**1**	10
Benzidine	**<1.14**	**<1.14**	**1**	50
Benzo(a)anthracene	**<0.114**	**<0.114**	**1**	5
Benzo(a)pyrene	**<0.114**	**<0.114**	**1**	5
Bis(2-chloroethyl)ether	**<0.570**	**<0.570**	**1**	10
Bis(2-ethylhexyl)phthalate	**<2.85**	**<2.85**	**1**	10
Bromodichloromethane	**1.89**	**1.89**	**1**	10
Bromoform	**<5.0**	**<5.0**	**1**	10
Cadmium	**<2.00**	**<2.00**	**1**	1
Carbon Tetrachloride	**<5.00**	**<5.00**	**1**	2
Carbaryl	**<5.00**	**<5.00**	**1**	5
Chlordane*	**<0.250**	**<0.250**	**1**	0.2
Chlorobenzene	**<1.00**	**<1.00**	**1**	10
Chlorodibromomethane	**<5.00**	**<5.00**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Chloroform	4.86	4.86	1	10
Chlorpyrifos	<0.0486	<0.0486	1	0.05
Chromium (Total)	<4.00	<4.00	1	3
Chromium (Tri) (*1)	<4.00	<4.00	1	N/A
Chromium (Hex)	<10.0	<10.0	1	3
Copper	4.19	4.19	1	2
Chrysene	<0.570	<0.570	1	5
p-Chloro-m-Cresol	<0.570	<0.570	1	10
4,6-Dinitro-o-Cresol	<1.14	<1.14	1	50
p-Cresol	<5.70	<5.70	1	10
Cyanide (*2)	3.32	3.32	1	10
4,4'- DDD	<0.0100	<0.0100	1	0.1
4,4'- DDE	<0.0100	<0.0100	1	0.1
4,4'- DDT	<0.0200	<0.0200	1	0.02
2,4-D	<0.201	<0.201	1	0.7
Demeton (O and S)	<0.0486	<0.0486	1	0.20
Diazinon	<0.0486	<0.0486	1	0.5/0.1
1,2-Dibromoethane	<5.00	<5.00	1	10
m-Dichlorobenzene	<0.570	<0.570	1	10
o-Dichlorobenzene	<0.570	<0.570	1	10
p-Dichlorobenzene	<0.570	<0.570	1	10
3,3'-Dichlorobenzidine	<0.570	<0.570	1	5
1,2-Dichloroethane	<1.00	<1.00	1	10
1,1-Dichloroethylene	<1.00	<1.00	1	10
Dichloromethane	<5.00	<5.00	1	20
1,2-Dichloropropane	<5.00	<5.00	1	10
1,3-Dichloropropene	<5.00	<5.00	1	10
Dicofol	<0.100	<0.100	1	1
Dieldrin	<0.0100	<0.0100	1	0.02
2,4-Dimethylphenol	<0.570	<0.570	1	10
Di-n-Butyl Phthalate	<2.85	<2.85	1	10
Diuron	0.212	0.212	1	0.09
Endosulfan I (alpha)	<0.0100	<0.0100	1	0.01

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Endosulfan II (beta)	**<0.0100**	**<0.0100**	**1**	0.02
Endosulfan Sulfate	**<0.0100**	**<0.0100**	**1**	0.1
Endrin	**<0.0100**	**<0.0100**	**1**	0.02
Ethylbenzene	**<1.00**	**<1.00**	**1**	10
Fluoride	**<500**	**<500**	**1**	500
Guthion	**<0.0486**	**<0.0486**	**1**	0.1
Heptachlor	**<0.0090**	**<0.0090**	**1**	0.01
Heptachlor Epoxide	**<0.0100**	**<0.0100**	**1**	0.01
Hexachlorobenzene	**<0.570**	**<0.570**	**1**	5
Hexachlorobutadiene	**<0.570**	**<0.570**	**1**	10
Hexachlorocyclohexane (alpha)	**<0.0090**	**<0.0090**	**1**	0.05
Hexachlorocyclohexane (beta)	**<0.0180**	**<0.0180**	**1**	0.05
gamma-Hexachlorocyclohexane (Lindane)	**<0.0100**	**<0.0100**	**1**	0.05
Hexachlorocyclopentadiene	**<0.570**	**<0.570**	**1**	10
Hexachloroethane	**<0.570**	**<0.570**	**1**	20
Hexachlorophene	**<5.03**	**<5.03**	**1**	10
Lead	**<2.00**	**<2.00**	**1**	0.5
Malathion	**<0.0486**	**<0.0486**	**1**	0.1
Mercury	**<0.00126**	**0.00243**	**4**	0.005
Methoxychlor	**<0.020**	**<0.020**	**1**	2
Methyl Ethyl Ketone	**<50.0**	**<50.0**	**1**	50
Mirex	**<0.0200**	**<0.0200**	**1**	0.02
Nickel	**2.35**	**2.35**	**1**	2
Nitrate-Nitrogen	**6,620**	**6,620**	**1**	100
Nitrobenzene	**<0.570**	**<0.570**	**1**	10
N-Nitrosodiethylamine	**<1.14**	**<1.14**	**1**	20
N-Nitroso-di-n-Butylamine	**<1.14**	**<1.14**	**1**	20
Nonylphenol	**8.15**	**8.15**	**1**	333
Parathion (ethyl)	**<0.0486**	**<0.0486**	**1**	0.1
Pentachlorobenzene	**<0.570**	**<0.570**	**1**	20
Pentachlorophenol	**<1.14**	**<1.14**	**1**	5
Phenanthrene	**<0.570**	**<0.570**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Polychlorinated Biphenyls (PCB's) (*3)	<0.10	<0.10	1	0.2
Pyridine	<2.85	<2.85	1	20
Selenium	<2.00	<2.00	1	5
Silver	<2.00	<2.00	1	0.5
1,2,4,5-Tetrachlorobenzene	<0.570	<0.570	1	20
1,1,2,2-Tetrachloroethane	<1.00	<1.00	1	10
Tetrachloroethylene	<1.00	<1.00	1	10
Thallium	<2.00	<2.00	1	0.5
Toluene	<1.00	<1.00	1	10
Toxaphene	<0.200	<0.200	1	0.3
2,4,5-TP (Silvex)	<0.201	<0.201	1	0.3
Tributyltin (see instructions for explanation)	N/A	N/A	1	0.01
1,1,1-Trichloroethane	<5.00	<5.00	1	10
1,1,2-Trichloroethane	<1.00	<1.00	1	10
Trichloroethylene	<5.00	<5.00	1	10
2,4,5-Trichlorophenol	<0.570	<0.570	1	50
TTHM (Total Trihalomethanes)	6.75	6.75	1	10
Vinyl Chloride	<2.00	<2.00	1	10
Zinc	48.1	48.1	1	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: **See Attachment J.**

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	**<2.00**	**<2.00**	**1**	5
Arsenic	**<4.00**	**<4.00**	**1**	0.5
Beryllium	**<2.00**	**<2.00**	**1**	0.5
Cadmium	**<2.00**	**<2.00**	**1**	1
Chromium (Total)	**<4.0**	**<4.0**	**1**	3
Chromium (Hex)	**<10.0**	**<10.0**	**1**	3
Chromium (Tri) **(*1)**	**<4.0**	**<4.0**	**1**	N/A
Copper	**4.19**	**4.19**	**1**	2
Lead	**<2.00**	**<2.00**	**1**	0.5
Mercury	**<0.00126**	**0.00243**	**4**	0.005
Nickel	**2.35**	**2.35**	**1**	2
Selenium	**<2.00**	**<2.00**	**1**	5
Silver	**<2.00**	**<2.00**	**1**	0.5
Thallium	**<2.00**	**<2.00**	**1**	0.5
Zinc	**48.1**	**48.1**	**1**	5
Cyanide **(*2)**	**3.32**	**3.32**	**1**	10
Phenols, Total	**<10**	**<10**	**1**	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**	**1**	50
Acrylonitrile	**<50.0**	**<50.0**	**1**	50
Benzene	**<1.00**	**<1.00**	**1**	10
Bromoform	**<5.00**	**<5.00**	**1**	10
Carbon Tetrachloride	**<5.00**	**<5.00**	**1**	2
Chlorobenzene	**<1.00**	**<1.00**	**1**	10
Chlorodibromomethane	**<5.00**	**<5.00**	**1**	10
Chloroethane	**<10.0**	**<10.0**	**1**	50
2-Chloroethylvinyl Ether	**<5.00**	**<5.00**	**1**	10
Chloroform	**4.86**	**4.86**	**1**	10
Dichlorobromomethane [Bromodichloromethane]	**1.86**	**1.86**	**1**	10
1,1-Dichloroethane	**<1.00**	**<1.00**	**1**	10
1,2-Dichloroethane	**<1.00**	**<1.00**	**1**	10
1,1-Dichloroethylene	**<1.00**	**<1.00**	**1**	10
1,2-Dichloropropane	**<5.00**	**<5.00**	**1**	10
1,3-Dichloropropylene [1,3-Dichloropropene]	**<5.00**	**<5.00**	**1**	10
1,2-Trans-Dichloroethylene	**<1.00**	**<1.00**	**1**	10
Ethylbenzene	**<1.00**	**<1.00**	**1**	10
Methyl Bromide	**<5.00**	**<5.00**	**1**	50
Methyl Chloride	**<10.0**	**<10.0**	**1**	50
Methylene Chloride	**<5.00**	**<5.00**	**1**	20
1,1,2,2-Tetrachloroethane	**<1.00**	**<1.00**	**1**	10
Tetrachloroethylene	**<1.00**	**<1.00**	**1**	10
Toluene	**<1.00**	**<1.00**	**1**	10
1,1,1-Trichloroethane	**<5.00**	**<5.00**	**1**	10
1,1,2-Trichloroethane	**<1.00**	**<1.00**	**1**	10
Trichloroethylene	**<5.00**	**<5.00**	**1**	10
Vinyl Chloride	**<2.00**	**<2.00**	**1**	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	**<0.570**	**<0.570**	**1**	10
2,4-Dichlorophenol	**<0.570**	**<0.570**	**1**	10
2,4-Dimethylphenol	**<0.570**	**<0.570**	**1**	10
4,6-Dinitro-o-Cresol	**<1.14**	**<1.14**	**1**	50
2,4-Dinitrophenol	**<2.85**	**<2.85**	**1**	50
2-Nitrophenol	**<0.570**	**<0.570**	**1**	20
4-Nitrophenol	**<0.570**	**<0.570**	**1**	50
P-Chloro-m-Cresol	**<0.570**	**<0.570**	**1**	10
Pentalchlorophenol	**<1.14**	**<1.14**	**1**	5
Phenol	**<10.0**	**<10.0**	**1**	10
2,4,6-Trichlorophenol	**<0.570**	**<0.570**	**1**	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	**<0.570**	**<0.570**	**1**	10
Acenaphthylene	**<0.570**	**<0.570**	**1**	10
Anthracene	**<0.570**	**<0.570**	**1**	10
Benzidine	**<1.14**	**<1.14**	**1**	50
Benzo(a)Anthracene	**<0.114**	**<0.114**	**1**	5
Benzo(a)Pyrene	**<0.114**	**<0.114**	**1**	5
3,4-Benzofluoranthene	**<0.570**	**<0.570**	**1**	10
Benzo(ghi)Perylene	**<0.570**	**<0.570**	**1**	20
Benzo(k)Fluoranthene	**<0.570**	**<0.570**	**1**	5
Bis(2-Chloroethoxy)Methane	**<0.570**	**<0.570**	**1**	10
Bis(2-Chloroethyl)Ether	**<0.570**	**<0.570**	**1**	10
Bis(2-Chloroisopropyl)Ether	**<0.570**	**<0.570**	**1**	10
Bis(2-Ethylhexyl)Phthalate	**<2.85**	**<2.85**	**1**	10
4-Bromophenyl Phenyl Ether	**<0.570**	**<0.570**	**1**	10
Butyl benzyl Phthalate	**<2.85**	**<2.85**	**1**	10
2-Chloronaphthalene	**<0.570**	**<0.570**	**1**	10
4-Chlorophenyl phenyl ether	**<0.570**	**<0.570**	**1**	10
Chrysene	**<0.570**	**<0.570**	**1**	5
Dibenzo(a,h)Anthracene	**<0.114**	**<0.114**	**1**	5
1,2-(o)Dichlorobenzene	**<0.570**	**<0.570**	**1**	10
1,3-(m)Dichlorobenzene	**<0.570**	**<0.570**	**1**	10
1,4-(p)Dichlorobenzene	**<0.570**	**<0.570**	**1**	10
3,3-Dichlorobenzidine	**<0.570**	**<0.570**	**1**	5
Diethyl Phthalate	**<2.85**	**<2.85**	**1**	10
Dimethyl Phthalate	**<2.85**	**<2.85**	**1**	10
Di-n-Butyl Phthalate	**<2.85**	**<2.85**	**1**	10
2,4-Dinitrotoluene	**<0.570**	**<0.570**	**1**	10
2,6-Dinitrotoluene	**<0.570**	**<0.570**	**1**	10
Di-n-Octyl Phthalate	**<2.85**	**<2.85**	**1**	10
1,2-Diphenylhydrazine (as Azo-benzene)	**<0.570**	**<0.570**	**1**	20
Fluoranthene	**<0.570**	**<0.570**	**1**	10

Pollutant	AVG Effluent Conc. (µg/l)	MAX Effluent Conc. (µg/l)	Number of Samples	MAL (µg/l)
Fluorene	**<0.570**	**<0.570**	**1**	10
Hexachlorobenzene	**<0.570**	**<0.570**	**1**	5
Hexachlorobutadiene	**<0.570**	**<0.570**	**1**	10
Hexachlorocyclo-pentadiene	**<0.570**	**<0.570**	**1**	10
Hexachloroethane	**<0.570**	**<0.570**	**1**	20
Indeno(1,2,3-cd)pyrene	**<0.570**	**<0.570**	**1**	5
Isophorone	**<0.570**	**<0.570**	**1**	10
Naphthalene	**<0.570**	**<0.570**	**1**	10
Nitrobenzene	**<0.570**	**<0.570**	**1**	10
N-Nitrosodimethylamine	**<0.570**	**<0.570**	**1**	50
N-Nitrosodi-n-Propylamine	**<0.570**	**<0.570**	**1**	20
N-Nitrosodiphenylamine	**<0.570**	**<0.570**	**1**	20
Phenanthrene	**<0.570**	**<0.570**	**1**	10
Pyrene	**<0.570**	**<0.570**	**1**	10
1,2,4-Trichlorobenzene	**<0.570**	**<0.570**	**1**	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	**<0.0100**	**<0.0100**	**1**	0.01
alpha-BHC (Hexachlorocyclohexane)	**<0.0090**	**<0.0090**	**1**	0.05
beta-BHC (Hexachlorocyclohexane)	**<0.0180**	**<0.0180**	**1**	0.05
gamma-BHC (Hexachlorocyclohexane)	**<0.0100**	**<0.0100**	**1**	0.05
delta-BHC (Hexachlorocyclohexane)	**<0.250**	**<0.250**	**1**	0.05
Chlordane	**<0.250**	**<0.250**	**1**	0.2
4,4-DDT	**<0.0200**	**<0.0200**	**1**	0.02
4,4-DDE	**<0.0100**	**<0.0100**	**1**	0.1
4,4,-DDD	**<0.0100**	**<0.0100**	**1**	0.1
Dieldrin	**<0.0100**	**<0.0100**	**1**	0.02
Endosulfan I (alpha)	**<0.0100**	**<0.0100**	**1**	0.01
Endosulfan II (beta)	**<0.0100**	**<0.0100**	**1**	0.02
Endosulfan Sulfate	**<0.0100**	**<0.0100**	**1**	0.1
Endrin	**<0.0100**	**<0.0100**	**1**	0.02
Endrin Aldehyde	**<0.0100**	**<0.0100**	**1**	0.1
Heptachlor	**<0.0090**	**<0.0090**	**1**	0.01
Heptachlor Epoxide	**<0.0100**	**<0.0100**	**1**	0.01
PCB-1242	**<0.100**	**<0.100**	**1**	0.2
PCB-1254	**<0.100**	**<0.100**	**1**	0.2
PCB-1221	**<0.100**	**<0.100**	**1**	0.2
PCB-1232	**<0.100**	**<0.100**	**1**	0.2
PCB-1248	**<0.100**	**<0.100**	**1**	0.2
PCB-1260	**<0.100**	**<0.100**	**1**	0.2
PCB-1016	**<0.100**	**<0.100**	**1**	0.2
Toxaphene	**<0.200**	**<0.200**	**1**	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.

N/A

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: **N/A**

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: ***11 – Ceriodaphnia dubia; 9 – Pimephales promelas***

48-hour Acute: Click to enter text.

Section 2. Toxicity Reduction Evaluations (TREs)

Has this facility completed a TRE in the past four and a half years? Or is the facility currently performing a TRE?

☐ Yes ☒ No

If yes, describe the progress to date, if applicable, in identifying and confirming the toxicant.

Click to enter text.

Section 3. Summary of WET Tests

If the required biomonitoring test information has not been previously submitted via both the Discharge Monitoring Reports (DMRs) and the Table 1 (as found in the permit), provide a summary of the testing results for all valid and invalid tests performed over the past four and one-half years. Make additional copies of this table as needed.

Table 5.0(1) Summary of WET Tests

Test Date	Test Species	NOEC Survival	NOEC Sub-lethal
All test results have been submitted.			

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: **2**

Average Daily Flows, in MGD: **0.0129**

Significant IUs – non-categorical:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

Other IUs:

Number of IUs: Click to enter text.

Average Daily Flows, in MGD: Click to enter text.

B. Treatment plant interference

In the past three years, has your POTW experienced treatment plant interference (see instructions)?

☒ Yes ☐ No

If yes, identify the dates, duration, description of interference, and probable cause(s) and possible source(s) of each interference event. Include the names of the IUs that may have caused the interference.

In the past three years the treatment plant has experienced 5 events where ammonia nitrogen permit limits were exceeded. The events happened in January 2022, February 2022, March 2022, April 2023, and April 2024. The probable cause is unknown. No IU has been identified as the possible source of pollutant that may have caused the interference.

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.

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
See Attachment K.				

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.

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 1.0

GENERAL INFORMATION

If you have questions about completing this form please contact the Applications Review and Processing Team at 512-239-4671.

SECTION 1. TREATMENT PROCESSING INFORMATION

A. Attach the engineering report and/or plans and specifications for the proposed facility which must include the following:

- Description of the type of process facility
- Process flow diagram
- Design calculations, features, and functional arrangements
- Site controls
- Groundwater protection
- Odor, dust, and bio-aerosol management
- Ultimate product

Attachment Number: **L**

B. Is the facility located or proposed to be located above the 100-year frequency flood plain? Yes ☐ No ☒

If No, provide a separate site map indicating the location of the sludge units within the 100-year frequency flood plain and a detailed description of the type and size of protective measures.

The composting facilities are protected from flooding by a berm. The top of the berm is 487.5 to 487.8 feet above mean sea level. See Attachment M. All other treatment units are above the 100-year frequency flood plain.

SECTION 2. SOURCES OF SLUDGE

A. Provide the sources of generation, any water quality or public water supply permit number issued by TCEQ, and the quantity for each source.

Facility Name	Permit Number	Annual Quantity
Temple-Belton Wastewater Treatment Facility	WQ0011318001	1226 dry metric tons to compost in 2024

Facility Name	Permit Number	Annual Quantity

B. For each source of sludge, complete Table 1 located at the end of this form.

SECTION 3. PATHOGEN AND VECTOR ATTRACTION REDUCTION

A. For each source of sludge, complete Tables 2 and 3 located at the end of this form.

B. Indicate by a checkmark that all of the following are being followed for Class B land application.

- ☐ Food crop harvesting restrictions
- ☐ Animal grazing restrictions **N/A**
- ☐ Public access restrictions

SECTION 4. WELL INFORMATION

In the table below, provide information about each well located on-site and within 500 feet of the processing, application, and/or disposal area. Water well information is available from the Texas Water Development Board, 512-936-0837. Oil and gas well information is available from the Texas Railroad Commission, 512-463-6851.

Well Type (Water Well, Oil Well, Injection Well)	Producing or Non-Producing	Open, Cased, or Capped*	Protective Measures**
none			

* Casing, capping, and plugging rules are located in 16 TAC Chapter 76.
** The following protective measures are required prior to initial sludge/septage application:

- If the well is producing and cased, no action is needed.
- If the well is producing and not cased, the well must be cased or describe other protective measures.
- If the well is non-producing and cased, the well must be plugged or capped.
- If the well is non-producing and not cased, the well must be plugged.

SECTION 5. ADDITIONAL TECHNICAL REPORTS

Identify which additional technical reports are submitted with this application.

☒ Technical Report 2.0, Sewage Sludge Composting

☒ Technical Report 3.0, Marketing and Distribution

☐ Technical Report 4.0, Sewage Sludge Surface Disposal

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: WQ0011318001

Applicant: City of Temple and City of Belton

I understand that I am responsible for operating the site described in this permit application in accordance with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the Texas Commission on Environmental Quality.

I certify, under penalty of law, that all 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, imprisonment for violations, and revocation of this permit.

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: Don Bond, P.E.

Title: Director of Public Works

Signature (use blue ink): _____ Date: 10/24/2024

SUBSCRIBED AND SWORN to before me by the said DON BOND on this 24th day of October, 20 24

My commission expires on the 25th day of MAY, 20 28

_____
Notary Public

(Seal)

PRISCILLA VELASQUEZ
NOTARY PUBLIC STATE OF TEXAS
MY COMM. EXP. 5/25/28
NOTARY ID 124937980

Bell
County, Texas

SITE OPERATOR SIGNATURE PAGE

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

Permit Number: **WQ0011318001**

Applicant: **City of Temple and City of Belton**

I understand that I am responsible for operating the site described in this permit application in accordance with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the Texas Commission on Environmental Quality.

I certify, under penalty of law, that all 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, imprisonment for violations, and revocation of this permit.

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: **Sam Listi**

Title: **City Manager**

Signature (use blue ink): Sam A Listi Date: 10/24/2024

SUBSCRIBED AND SWORN to before me by the said Sam A. Listi, City Manager on this 24th day of October, 20 24

My commission expires on the 11th day of August, 20 26

Michelle Fogle

Notary Public

(Seal)

MICHELLE FOGLE
Notary ID #6556372
My Commission Expires
August 11, 2026

Bell

County, Texas

LANDOWNER SIGNATURE PAGE

Required if the landowner is not the applicant or co-applicant. Each landowner must submit an original, separate signature page.

Permit Number: **N/A – Landowner is applicant.**

Applicant: Click here to enter text.

I certify, as the owner of the land described in this permit application, that I have all rights and covenants to authorize the applicant to use this site for the land application of _____ (*identify the type(s) of sludge*). I understand that 30 TAC Chapter 312 requires me to make a reasonable effort to see that the applicant complies with the requirements in 30 TAC Chapter 312, the conditions set forth in this application, and any additional conditions as required by the TCEQ. I also certify, under penalty of law, that all information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine, imprisonment for violations, and revocation of the permit.

Signatory Name: Click here to enter text.

Title: Click here to enter text.

Signature (use blue ink): _____ Date: _____

SUBSCRIBED AND SWORN to before me by the said _____ on

this _____ day of _____, 20_____

My commission expires on the _____ day of _____, 20_____

_____

(Seal) Notary Public

_____

County, Texas

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 2.0

SEWAGE SLUDGE COMPOSTING

SECTION 1. RENEWAL OF EXISTING AUTHORIZATION

Provide the following information if you are requesting continued authorization to compost sewage sludge. Complete this section only if composting is currently authorized in the existing permit.

Date operation commenced: **1993**

Location of operation: **Belton, TX Bell County**

Type of bulking agent: **Ground Wood Material**

Approximate amount of sludge composted: **1226 dry metric tons in 2024**

Provide a brief discussion of the composting process and any significant changes since the permit was last issued.

The composting process begins by piling 1 part waste solids with 4-5 parts wood waste in long rows (Windrows). The microorganisms in the waste solids break down the organic content of the wastes in the windrows. Throughout the process the rows are turned to expose the materials at the bottom of the windrow. No significant changes to the process have been made since the permit was last issued.

SECTION 2. NEW AUTHORIZATION TO COMPOST SEWAGE SLUDGE

A. Submit an ORIGINAL General Highway (County) Map. See instructions for information that must be displayed on the map.

Attachment Number: **N/A – This is a renewal of exiting authorization.**

B. Has sewage sludge/septage previously been composted at this facility?

Yes ☐ No ☐

If Yes, provide a use history of the composting operations.

Click here to enter text

C. Provide a detailed description of the composting operation. The description must include the following information:

- Amount of sludge originating off-site to be composted;
- Total amount of sludge to be composted and total amount of feedstocks;
- Fecal coliform or Salmonella bacteria analysis (in MPN or CFU);
- Type, origin, and amount of bulking material to be used;
- Set back distances from facility boundaries for receiving, processing, or storing feedstocks or final product;
- Plan view of site;
- Type of composting proposed;
- Construction, maintenance, and operation to manage run-on and run-off during a 25-year, 24-hour rainfall event, including all calculations and sources used;
- Leachate collection system and leachate processing and disposal method;
- Construction, maintenance, and operations for groundwater protection;
- Design plan to line all surfaces used for delivery, mixing, composting, curing, screening, and storage to control seepage; and
- Design to minimize windblown material, odor, and vector control.

Attachment Number: Click here to enter text

D. Does the end product meet the requirements in 30 TAC 332.72(d)(2)(A)-(D)?

Yes ☐ No ☐

E. Submit a site operating plan which provides guidance from the design engineer to site management and operating personnel in sufficient detail to enable them to conduct day to day operations in a manner consistent with the engineer's design. The plan must include the following information:

- Process description (feedstock identification, tipping process, process, post-processing, product distribution, process diagram);
- Minimum number of personnel and their functions provided by the site operator;
- Minimum equipment;
- Security, site access control, traffic control, and safety;
- Control of the delivery material in designated areas;
- Screening for unprocessable, prohibited, and unauthorized material;
- Fire prevention and suppression plan;
- Control of windblown material;

- Equipment failures;
- Anticipated final grade of materials; and
- Description of handling and/or disposal of materials that doesn't meet 30 TAC Chapter 312.

Attachment Number: Click here to enter text

DOMESTIC WASTEWATER PERMIT APPLICATION:

SEWAGE SLUDGE TECHNICAL REPORT 3.0

SEWAGE SLUDGE MARKETING AND DISTRIBUTION

A. What is the TCEQ Permit number for the Wastewater Treatment Plant that is generating the Class A or Class AB sewage sludge? **WQ0011318001**

B. What is the name and location of the distribution storage center? **Temple Belton Wastewater Treatment Facility – 2405 East Sixth Avenue, Belton, TX 76513**

C. Provide a description of the marketing and distribution plan.

See Attachment N.

D. Provide the following information for all entities receiving sludge directly from the permittee. If more than 2, submit an attachment which includes the follow information.

1. Contact Name: **Compost is received by over 5,000 residential and commercial customers.**

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, and Zip Code: Click here to enter text.

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

2. Contact Name: Click here to enter text.

Company Name: Click here to enter text.

Mailing Address: Click here to enter text.

City, State, and Zip Code: Click here to enter text.

Phone Number: Click here to enter text. Fax Number: Click here to enter text.

Longitude: Click here to enter text.

Latitude: Click here to enter text.

Permits: Click here to enter text.

E. Provide a copy of the label or information sheet that is provided to each entity receiving the sewage sludge.

Attachment Number: **N**

F. Indicate by a checkmark that the sewage sludge meets the following:

☒ Metal concentrations in 30 TAC §312.43(b)(3)

☒ Vector attraction reduction requirements

☒ Class A, Class AB or Class B pathogen requirements

G. Indicate the type of recordkeeping: **See Attachment L**

PLEASE NOTE: If Class AB sewage sludge, attach a topographic map that shows the required buffer zones stated in 30 TAC §312.44.

Appendix A
Pollutant Concentrations in Sewage Sludge

Complete this table **for each source** of sludge.

Facility Name: **Temple Belton Wastewater Treatment Facility**
TCEQ Authorization Number: **WQ0011318001**
POLLUTANT/METAL ANALYSIS

Pollutant	Maximum Concentration, mg/kg dry weight	Test Results, mg/kg dry weight	Sample Date	Detection Level for Analysis	Sample Method
Arsenic (As)	75	5.68	8/12/2024	0.765	SW6020B
Cadmium (Cd)	85	0.478	8/12/2024	0.153	SW6020B
Chromium (Cr)	3000	25.9	8/12/2024	0.765	SW6020B
Copper (Cu)	4300	230	8/12/2024	0.765	SW6020B
Lead (Pb)	840	15.0	8/12/2024	0.153	SW6020B
Mercury (Hg)	57	0.161	8/12/2024	0.0226	SW7471B
Molybdenum (Mo)	75	2.99	8/12/2024	0.765	SW6020B
Nickel (Ni)	420	13.9	8/12/2024	0.765	SW6020B
Selenium (Se)	100	2.26	8/12/2024	0.230	SW6020B
Zinc (Zn)	7500	299	8/12/2024	1.53	SW6020B
PCB (ppm)	50.0 ppm	<0.674	2/7/2024	0.337	SW8082A
Fecal Coliform (MPN)	N/A	N/A	N/A	N/A	N/A

Analysis is for final compost product.

Appendix B
PATHOGEN REDUCTION REQUIREMENTS

For each source, select the pathogen reduction alternative that will be used prior to land application of sewage sludge. Requirements for each alternative can be found in 30 TAC §312.82.

TCEQ Permit Number	Pathogen Reduction Alternative Used	Fecal Coliform Geometric Mean (cfu/gram total solids)*	Fecal Test Date*	Is PSRP Certification Attached?** (Yes/No/NA)
Example WQ11280-001	Option 1: Density of Fecal Coliform	300,000 cfu/g	12/2/98	NA
WQ0011318001	**Option 2d: PSRP Composting**			**N/A**
	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.			

*Applicable to Option 1 only.
**Applicable to Option 2a – f.

If Other or PFRP Equivalent is selected as the Alternative Used, please explain: Click here to enter text.

Appendix C
VECTOR ATTRACTION REDUCTION REQUIREMENTS

For each source, provide the vector attraction reduction option that will be used prior to or after land application of sewage sludge/septage. Requirements for each alternative can be found in 30 TAC §312.83.

TCEQ Permit Number	Vector Attraction Reduction Alternative Used*	Monitoring Criteria and results needed for alternative
WQ0011318001	Option 1 – Reduction in volatile solids content by composting.	
	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.	

*Options 1-8 are sludge treatment alternatives. Options 9-10 are onsite alternatives. Option 12 is for domestic septage only.

CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
LIST OF ATTACHMENTS

ATTACHMENT	REFERENCE
A. Description of Proposed Changes	Admin Report 1.0, Section 2.e.
B. Core Data Form	Admin Report 1.0, Section 3
C. Plain Language Summary	Admin Report 1.0, Section 8.F
D. USGS Map	Admin Report 1.0, Section 13
E. Treatment Process Description	Tech Report 1.0, Section 2.A
F. Treatment Units	Tech Report 1.0, Section 2.B
G. Process Flow Diagram	Tech Report 1.0, Section 2.C
H. Site Drawing	Tech Report 1.0, Section 3
I. Stormwater Runoff Management	Tech Report 1.0, Section 4
J. Effluent Analysis Reports	Tech Report 1.0, Section 7 and Worksheet 4.0
K. Parameters above the MAL	Worksheet 6.0, Section 2.C
L. Sludge Treatment Process Information	Sewage Sludge Tech Report, Section 1.A
M. 100-Year Frequency Flood Protective Measures	Sewage Sludge Tech Report 1.0, Section 1 B
N. Marketing and Distribution Plan	Sewage Sludge Tech Report 3.0, Section C
SPIF	

Attachment A

Description of Proposed Changes

Admin Report 1.0, Section 2.e

ATTACHMENT A.1
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
DESCRIPTION OF PROPOSED CHANGES

Minor modifications to the Texas Pollutant Discharge Elimination System Permit for the Temple Belton Wastewater Treatment Facilities issued on October 23, 2023, are requested. The changes are as follows:

1. Reinstate the provision that authorizes Distribution and Marketing of sludge. The City of Temple and City of Belton (Cities) have conducted activities pursuant to the Distribution and Marketing authorization since 1993. During the processing of the permit that was issued in 2023 the authorization was unintentionally removed. Authorization to continue Marketing and/or Distributing Biosolids and Biosolids Derived Materials was granted in a letter dated July 19, 2024. See Attachment A.2.

2. Reinstate the provision that authorizes the permittee to land apply Class A or Class AB bulk sludge on property owned, leased, or under the direct control of the permittee. The deletion of the authorization in the permit issued in 2023 was an unintentional change to the permit. The Cities did not request the authorization to be removed in the previous permit application.

3. Modify the requirements in Contributing Industries and Pretreatment Requirements, Item 2. The Cities will redevelop the technically based local limits and submit the technical redevelopment report and other components of the pretreatment program within twelve (12) months after completion of construction of the Final phase facilities.

4. Modify the disinfection process for the Final phase to be Ultraviolet light disinfection.

5. Delete the Interim II phase that begins October 23, 2026 (three years from the date of issuance of the permit). The addition of the Interim II phase to the permit issued in 2023 was not based on the TCEQ Water Quality Assessment recommendation. There is no justification to require the permittee to conduct nutrient removal before the planned expansion is complete, which will include nutrient removal treatment.

ATTACHMENT A.2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 19, 2024

Mr. Kenton Moffett, P.E.
City of Temple Public Works
3210 East Avenue H, Building A, Suite 130
Temple, Texas 76501

Re: City of Temple and City of Belton - TPDES Permit No. WQ0011318001, EPA ID No. TX0058378 (CN600245799 and CN600246367; RN102097193)

Dear Mr. Moffett:

Thank you for your letter dated June 20, 2024, requesting to continue authorization in the sludge provisions for MARKETING AND/OR DISTRIBUTING BIOSOLIDS AND BIOSOLIDS DERIVED MATERIALS that was missing in your permit issued October 23, 2023. No request was made during that permit action to remove that authorization at the time.

Based on the information provided in the letter, the review of the draft permit files, and discussion over the phone, this will be added back into the permit in the next permit application that will be submitted this year to correct that missing authorization.

This letter authorizes Distribution and Marketing of Class A or Class AB Biosolids. This letter does authorize the permittee to land apply Class A bulk biosolids on property owned, leased, or under the direct control of the permittee. This letter does not authorize the permittee to land apply Class B biosolids on property owned, leased or under the direct control of the permittee. Please see Attachment A for all the REQUIREMENTS FOR MARKETING AND/OR DISTRIBUTING BIOSOLIDS AND BIOSOLIDS DERIVED MATERIALS.

If you have any comments or questions, please contact me at (512) 239-4608 or if by correspondence, include MC 148 in the letterhead address following my name.

Sincerely,

Deba Dutta

Deba Dutta, P.E., Team Leader
Municipal Permits Team
Wastewater Permitting Section (MC 148)
Water Quality Division
Texas Commission on Environmental Quality

DD/JAM

Attachment A - REQUIREMENTS FOR MARKETING AND/OR DISTRIBUTING BIOSOLIDS AND BIOSOLIDS DERIVED MATERIALS.
TPDES Permit No. WQ0011318001
City of Temple and City of Belton

A. General Requirements

All biosolids, derived materials or materials sold or given away in bulk, bag or a container for application to the land shall meet the metal concentrations in Section II.A. Table 3, the pathogen requirements in 30 TAC §312.82, and the vector attraction reduction requirements in 30 TAC §312.83(b)(1) - §312.83(b)(8).

The product of the concentration of each pollutant in the biosolids and the annual whole application rate for biosolids shall not cause the annual metal loading rate for the metal in Table 4 below to be exceeded. The procedure used to determine the annual whole application rate is presented in §312.49.

Table 4 - ANNUAL METAL LOADING RATES

Pollutant	Annual Metal Loading Rate ** (pounds per acre) *
Arsenic	1.8
Cadmium	1.7
Chromium	134.0
Copper	67.0
Lead	13.0
Mercury	0.76
Molybdenum	Report Only
Nickel	18.7
Selenium	4.5
Zinc	125.0

* Dry weight basis
** Per 365-day period

B. Marketing and Distribution Management Practices

1. Biosolids may be stockpiled and stored on site under semi-dry conditions for a period not to exceed 24 months.

2. The whole biosolids application rate shall not exceed the agronomic rate for any site.

3. The biosolids processing site location shall be selected and operated in a manner to prevent public health nuisances. Where nuisance conditions exist, the operator shall take necessary action to abate such nuisances.

4. Either a label shall be affixed to the bag or similar enclosure in which biosolids are sold or given away for application to the land or an information sheet shall be provided to the person who receives biosolids sold or given away in a similar enclosure for application to the land. The label or information sheet shall contain the following information:

    a. the name and address of the person who prepared the biosolids for sale or give away in a bag or similar enclosure for application to the land;
    b. a statement that prohibits the application of the biosolids to the land except in accordance with the instructions on the label or information sheet;
    c. the annual whole sludge application rate for the biosolids that does not cause the annual metal loading rates in Table 4 to be exceeded.

5. If composting, the Biosolids Processing Pad Area shall be protected from storm water run-on and runoff. Storm water from the pad shall be routed through the headworks of the Wastewater Treatment Facility. The Biosolids Processing Pad shall be constructed of concrete or Executive Director approved material meeting the following requirements:

   a. More than 30% passing a No. 200 mesh sieve
   b. Liquid limit greater than 30%
   c. Plasticity index greater than 15
   d. A minimum thickness of 2 feet
   e. Permeability equal to or less than 1x10-7 cm/sec
   f. Soil compaction will be 95% standard proctor at optimum moisture content

   The permittee shall furnish certification by a Texas Licensed Professional Engineer that the completed lining meets the appropriate criteria above prior to utilization of the facilities. The certification shall be sent to the TCEQ Regional Office (MC Region 9) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division.

6. This permit does not authorize the composting of grease or grease trap waste. Any such authorization shall be in accordance with Commission regulations in 30 TAC Chapter 332.

7. The following is a list of site management restrictions for Class A and Class AB bulk biosolids agricultural land, forest, or a reclamation sites:

   a. A bulk biosolids agricultural land, forest, or a reclamation site may not be applied during rainstorms or during periods in which surface soils are water-saturated, and when pooling of water is evident on the land application site.

   b. The operator shall manage a bulk biosolids agricultural land, forest, or a reclamation site according to the Adverse Weather and Alternative Plan. This plan details procedures to address times when the bulk biosolids cannot be applied to the land application site due to adverse weather or other conditions such as wind, precipitation, field preparation delays, and access road limitations.

   c. A bulk biosolids agricultural land, forest, or a reclamation site location must be selected and operated in a manner to prevent public health nuisances.

   d. An operator of a bulk biosolids agricultural land, forest, or a reclamation site may not accept bulk biosolids, unless the biosolids are transported to the land application unit in a covered container with the covering firmly secured at the front and back.

   e. If the bulk biosolids are Class AB as per the pathogen reduction alternatives in 30 TAC §312.82(a)(2), then the management practices under 30 TAC §312.44 shall be met in addition to the section V.B.7 (a-d) of this permit.

C. Monitoring Requirements

Toxicity Characteristic Leaching Procedure (TCLP) Test	-	Once/Year
PCBs	-	Once/Year

All metal constituents, pathogen density requirements and vector attraction reduction requirements shall be monitored at the appropriate frequency pursuant to 30 TAC §312.46(a)(1).

D. Notification Requirements

The permittee shall inform TCEQ through a letter whenever the biosolids are given to a new bulk biosolids agricultural land, forest, or a reclamation site recipient directly by the generator. The notification letter shall include:

1. The recipient's name, address, phone number, the longitude and latitude of the site, and the number of acres the intended to be used.

2. If Class AB, a site map showing the buffer zone areas required under §312.44(c)(2)(D) and (E)

3. Authorization number and biosolids source name.

4. Must be signed and dated by the responsible person.

5. Complete name and title, telephone number and the address of the person signing the letter.

E. Recordkeeping Requirements

The person who prepares bulk biosolids in 30 TAC §312.41(b)(1) or in 30 TAC §312.41(e) shall develop the following information and shall retain the information on-site for <u>five years</u>.

1. The concentration (mg/kg) in the biosolids of each pollutant listed in Section II. A. (30 TAC §312.43(b)(3) Table 3).

2. A description of how the pathogen reduction requirements are met.

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

4. The annual whole application rate for the biosolids that does not cause the annual pollutant loading rates in Table 4 to be exceeded.

5. The following certification statement: "I certify, under penalty of law, that the pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §312.83(b)(1)-(8)) have been met. 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 pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

   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

Attachment A - REQUIREMENTS FOR MARKETING AND/OR DISTRIBUTING BIOSOLIDS AND BIOSOLIDS DERIVED MATERIALS.
TPDES Permit No. WQ0011318001
City of Temple and City of Belton

The permittee shall report annually to the TCEQ Regional Office (MC Region 9) and the Water Quality Compliance Monitoring Team (MC 224) of the Enforcement Division by September 30th of each year the following information:

1. Results of tests performed for pollutants found in 30 TAC §312.43(b)(3) Table 3.
2. The frequency of monitoring listed in Section I.C. which applies to the permittee.
3. Toxicity Characteristic Leaching Procedure (TCLP) results.
4. PCB concentration in sludge in mg/kg.
5. Documentation of the level of pathogen reduction achieved.
6. As listed in Section I.B.3.(a), describe how the pathogen reduction requirements were met.
7. Vector attraction reduction alternative used as listed in Section I.B.4.
8. Annual biosolids production in dry tons/year.
9. Amount of biosolids land applied in dry tons/year.
10. The following certification statement: "I certify, under penalty of law, that the pathogen requirements in 30 TAC §312.82 and the vector attraction reduction requirement in (insert one of the vector attraction reduction requirements in §312.83(b)(1)-(8)) have been met. 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 pathogen requirements and vector attraction reduction requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment." The certification statement shall be attached to the annual reporting form.

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

Attachment B

Core Data Form

Admin Report 1.0, Section 3

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 600245799		**RN 102097193**

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 Temple

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

11. Type of Customer: ☐ 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:

3210 East Avenue H, Building A

City	Temple	**State**	TX	**ZIP**	76501	**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)*

(254) 933-5818		( ) -

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.)*

Temple Belton Wastewater Treatment Plant

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	2405 East 6th Avenue							
	City	Belton	**State**	TX	**ZIP**	76513	**ZIP + 4**	
24. County	Bell							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Belton			TX		76513

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:	31.045691		**28. Longitude (W) In Decimal:**	97.438442	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	02	44	97	26	18

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Domestic Wastewater Treatment

34. Mailing Address:	**3210 East Avenue H, Building A**							
	City	**Temple**	**State**	**TX**	**ZIP**	**76501**	**ZIP + 4**	
35. E-Mail Address:	**dbond@templetx.gov**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(254) 307-9842		( ) -

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.

☐ 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:
	WQ0011318001			

SECTION IV: Preparer Information

40. Name:	Janet Sims	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
(512) 735-1001		( ) -	Janet.Sims@meadhunt.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 Temple	Job Title:	Public Works Director
Name *(In Print)*:	Don Bond, P.E.	Phone:	(254) 298- 5621
Signature:		Date:	10/24/2024

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 600246367		RN 102097193

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 Belton

7. TX SOS/CPA Filing Number	8. TX State Tax ID (11 digits)	9. Federal Tax ID (9 digits)	10. DUNS Number *(if applicable)*
	17460003563	746000356	

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 ☐ Other:
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant

15. Mailing Address:

P.O. Box 120

City	Belton	State	TX	ZIP	76513	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)*
(254) 933-5818		( ) -

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.)*

Temple Belton Wastewater Treatment Plant

23. Street Address of the Regulated Entity:	2405 East 6th Avenue							
(No PO Boxes)	**City**	Belton	**State**	TX	**ZIP**	76513	**ZIP + 4**	
24. County	Bell							

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

25. Description to Physical Location:					
26. Nearest City			**State**		**Nearest ZIP Code**
Belton			TX		76513

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:	31.045691		**28. Longitude (W) In Decimal:**	97.438442	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
31	02	44	97	26	18

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
4952		221320	

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

Domestic Wastewater Treatment

34. Mailing Address:	**2405 East 6th Avenue**							
	City	**Belton**	**State**	**TX**	**ZIP**	**76513**	**ZIP + 4**	

35. E-Mail Address:	**shodde@beltontexas.gov**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(254) 933-5823		**( ) -**

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:
	WQ0011318001			

SECTION IV: Preparer Information

40. Name:	Janet Sims	41. Title:	Project Manager
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 735-1001		( ) -	Janet.Sims@meadhunt.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 Belton	Job Title:	City Manager	
Name *(In Print)*:	Sam A. Listi		**Phone:**	(254) 933- 5818
Signature:	Sam A. Listi		**Date:**	10/24/2024

Attachment C

Plain Language Summary

Admin Report 1.0, Section 8.F

ENGLISH TPDES APPLICATION FOR DOMESTIC WASTEWATER

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

The City of Temple (CN600245799) and the City of Belton (CN600246367) operates the Temple Belton Wastewater Treatment Facility (RN102097193), an activated sludge process plant with nitrification. The facility is located at 2405 East 6th Avenue, in the City of Belton, Bell County, Texas 76513.

This application is for a renewal of TPDES permit No. WQ0011318001, which authorizes the discharge of treated wastewater at annual average flows of 10 million gallons per day of treated domestic wastewater in the Interim I Phase and 16 million gallons per day of treated domestic wastewater in the Final Phase. The facility discharges via Outfall 001 to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos River Basin.

Discharges from the facility are expected to contain five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), ammonia nitrogen (NH3-N), *Escherichia coli* and total phosphorus. Additional potential pollutants are included in the Domestic Technical Report 1.0, Section 7. Pollutant Analysis of Treated Effluent in the permit application package. Domestic wastewater will be treated by an activated sludge treatment plant. The treatment units are screens, grit chambers, activated sludge basins, clarifiers, belt presses, and gravity thickeners. Effluent filters will be added in the Final Phase. Disinfection will be achieved by chlorination in the Interim Phase and by ultraviolet light in the Final Phase.

APLICACIÓN TPDES PARA AGUAS RESIDUALES DOMÉSTICAS

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

La Ciudad de Temple (CN600245799) y la ciudad de Belton (CN600246367) operan la Planta de Tratamiento de Aguas Residuales de Temple Belton (RN102097193), una planta de procesamiento de lodos activados con nitrificación. La instalación está ubicada en 2405 East 6th Avenue, en la ciudad de Belton, Bell County, Texas 76513.

Esta solicitud es para una renovación del permiso TPDES No. WQ0011318001, que autoriza la descarga de aguas residuales tratadas a flujos promedio anuales de 10 millones de galones por día de aguas residuales domésticas tratadas en la Fase Intermedia I y 16 millones de galones por día de aguas residuales domésticas tratadas en la Fase Final.La instalación descarga a través del desagüe 001 a Nolan Creek/South Nolan Creek en el segmento No. 1218 de la cuenca del río Brazos.

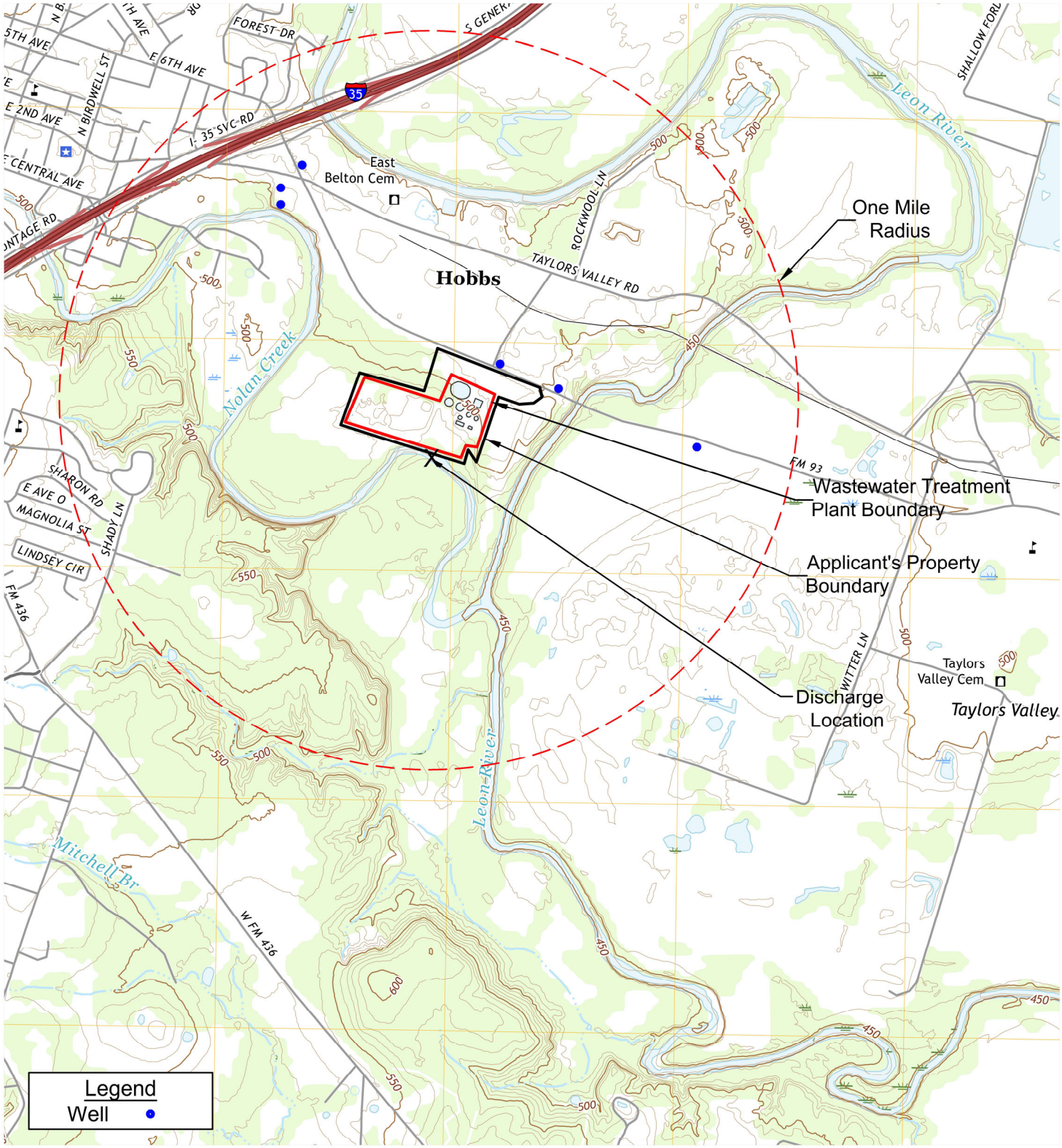
Se espera que las descargas de la instalación contengan una demanda bioquímica carbonosa de oxígeno (CBOD5) de cinco días, sólidos suspendidos totales (TSS), nitrógeno amoniacal (NH3-N), Escherichia coli y fósforo total. En la sección 7 del Informe Técnico Doméstico 1.0 se incluyen contaminantes potenciales adicionales. Análisis de Contaminantes de Efluentes Tratados en el paquete de solicitud de permisos. Las aguas residuales domésticas serán tratadas por una planta de tratamiento de lodos activados. Las unidades de tratamiento son cribas, cámaras de arena, depósitos de lodos activados, clarificadores, prensas de banda y espesadores por gravedad. Los filtros de efluentes se agregarán en la Fase Final. La desinfección se logrará mediante cloración en la Fase Intermedia y mediante luz ultravioleta en la Fase Final.

Attachment D

USGS Map

Admin Report 1.0, Section 13

Mead & Hunt



ATTACHMENT D
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
USGS MAP

Attachment E

Treatment Process Description

Tech Report 1.0, Section 2.A

ATTACHMENT E
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION

TREATMENT PROCESS DESCRIPTION

The Temple Belton Wastewater Treatment Facility is an activated sludge process plant operated in the conventional aeration mode with nitrification. Treatment units in the Interim phase include three fine screens, three grit chambers, two equalization basins, a biological reactor with three channels, four final clarifiers, two belt filter presses, a gravity thickener, three chlorine contact chambers, a dechlorination chamber, and a reclaimed water holding basin. Treatment units in the Final phase will include four fine screens, four grit chambers, two equalization basins, a biological reactor with three channels, an Integrated Fixed-film (IFAS) reactor, five final clarifiers, effluent disk filters, two belt filter presses, two gravity thickeners, Ultraviolet light disinfection system, and a reclaimed water holding basin.

Sludge generated at the facility is either hauled to a TCEQ-permitted landfill or processed further by composting.

Attachment F

Treatment Units

Tech Report 1.0, Section 2.B

ATTACHMENT F
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION

TREATMENT UNITS INTERIM PHASE

Treatment Unit Type	Number of Units	Dimensions
Fine Screen/Grit Removal	3/3	14.25 MGD Capacity each
Equalization Basins	2	54'-6" x 122' x 18' SWD
Biological Reactor	1	
Channel 1		10' 6" x 37' x 860'
Channel 2		10' 6" x 37' x 615'
Channel 3		10' 6" x 37' x 371'
Final Clarifier No. 1 and 2	*	65' Dia., 12' SWD
Final Clarifiers (No. 3 and 4)	2	125' Dia., 14' SWD
Belt Filter Press	2	2 meters
Gravity Thickener	1	60' Dia., 10' SWD
Chlorine Contact Basin	2	30' x 40' 12'
Chlorine Contact Basin	1	60' x 60' x 14'
Reuse/Reclaimed Water Holding Basin	1	60' x 60' x 14'

* Currently not in use.

ATTACHMENT F
(CONTINUED)

TREATMENT UNITS FINAL PHASE (ADDITIONAL UNITS)

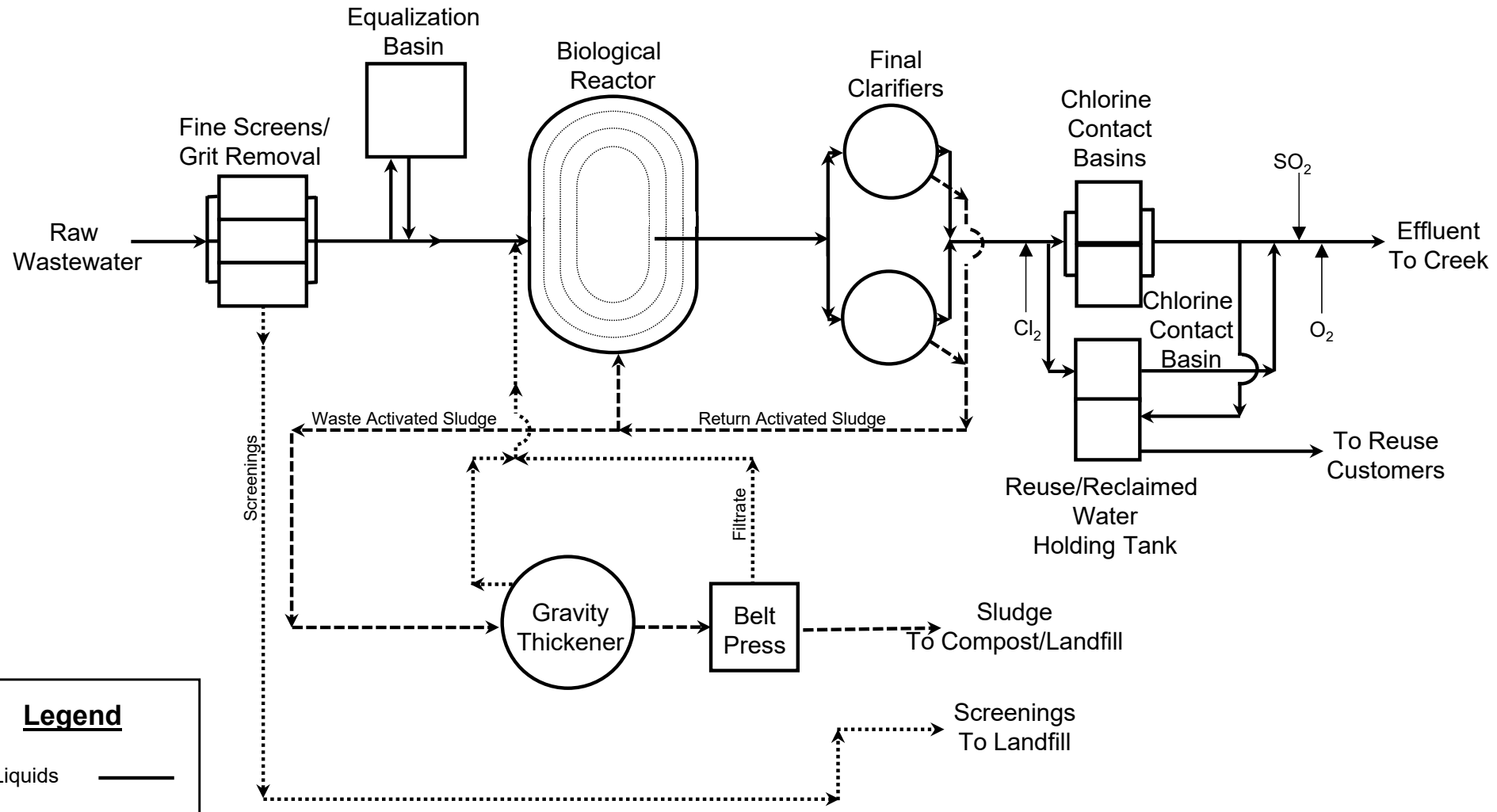
Treatment Unit Type	Number of Units	Dimensions
Fine Screen/Grit Removal	1/1	14.25 MGD Capacity each
IFAS Reactors No. 1	1	180'-6" x 179'-6" x 17'– 6" SWD
Final Clarifiers (No. 5)	1	125' Dia., 14' SWD
Effluent Disk Filters	3	--
Ultraviolet Disinfection	2	Channels
Gravity Thickener	1	60' Dia., 10' SWD

* Chlorine Contact Basins will be taken out of service.

Attachment G

Process Flow Diagram

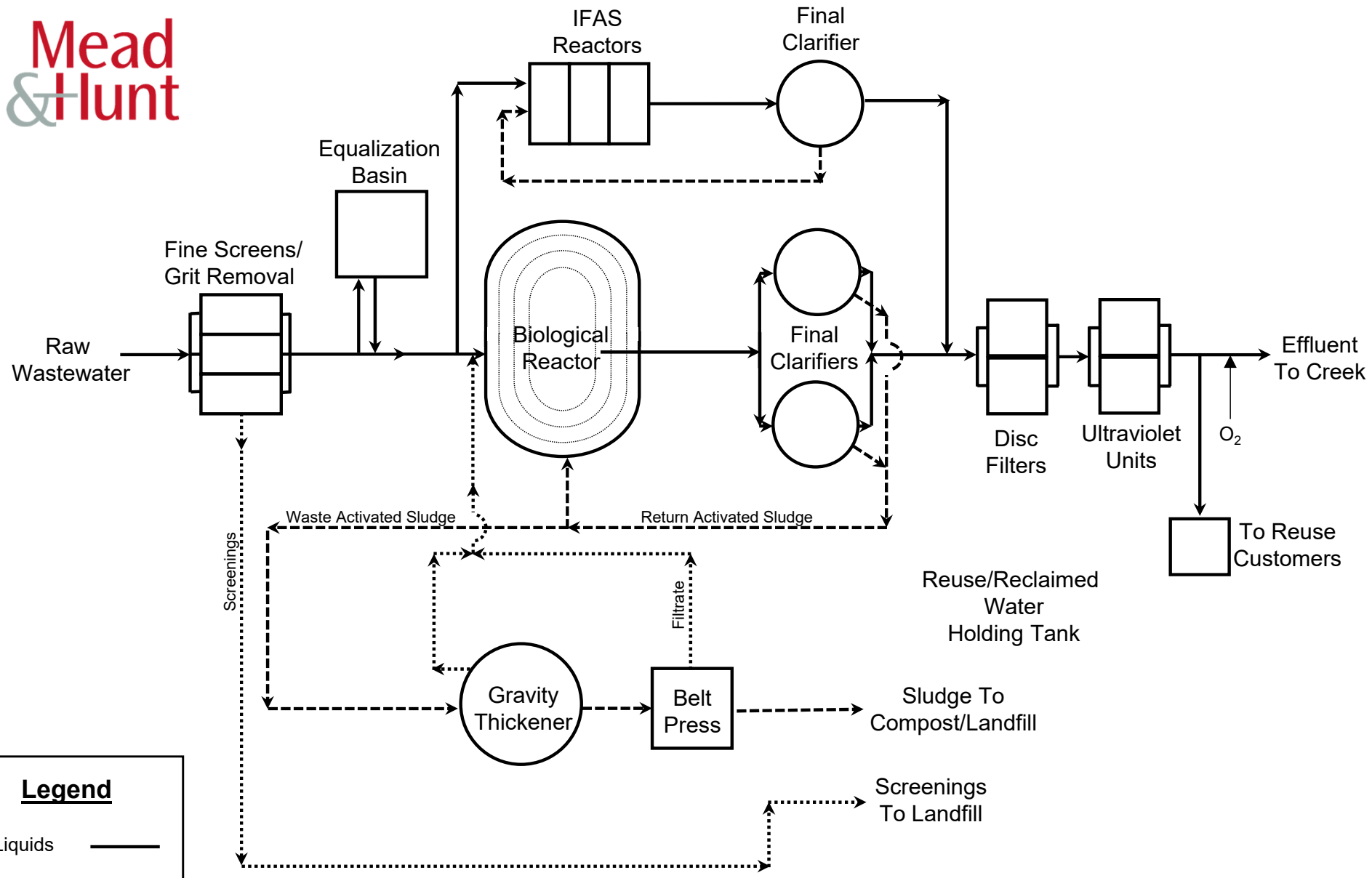
Tech Report 1.0, Section 2.C



Legend

Liquids	———
Solids	- - - - -
Other	.....
Chlorination	Cl_2
Dechlor.	SO_2
Post Aeration	O_2

ATTACHMENT G
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PROCESS FLOW DIAGRAM – INTERIM PHASE



ATTACHMENT G
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PROCESS FLOW DIAGRAM – FINAL PHASE

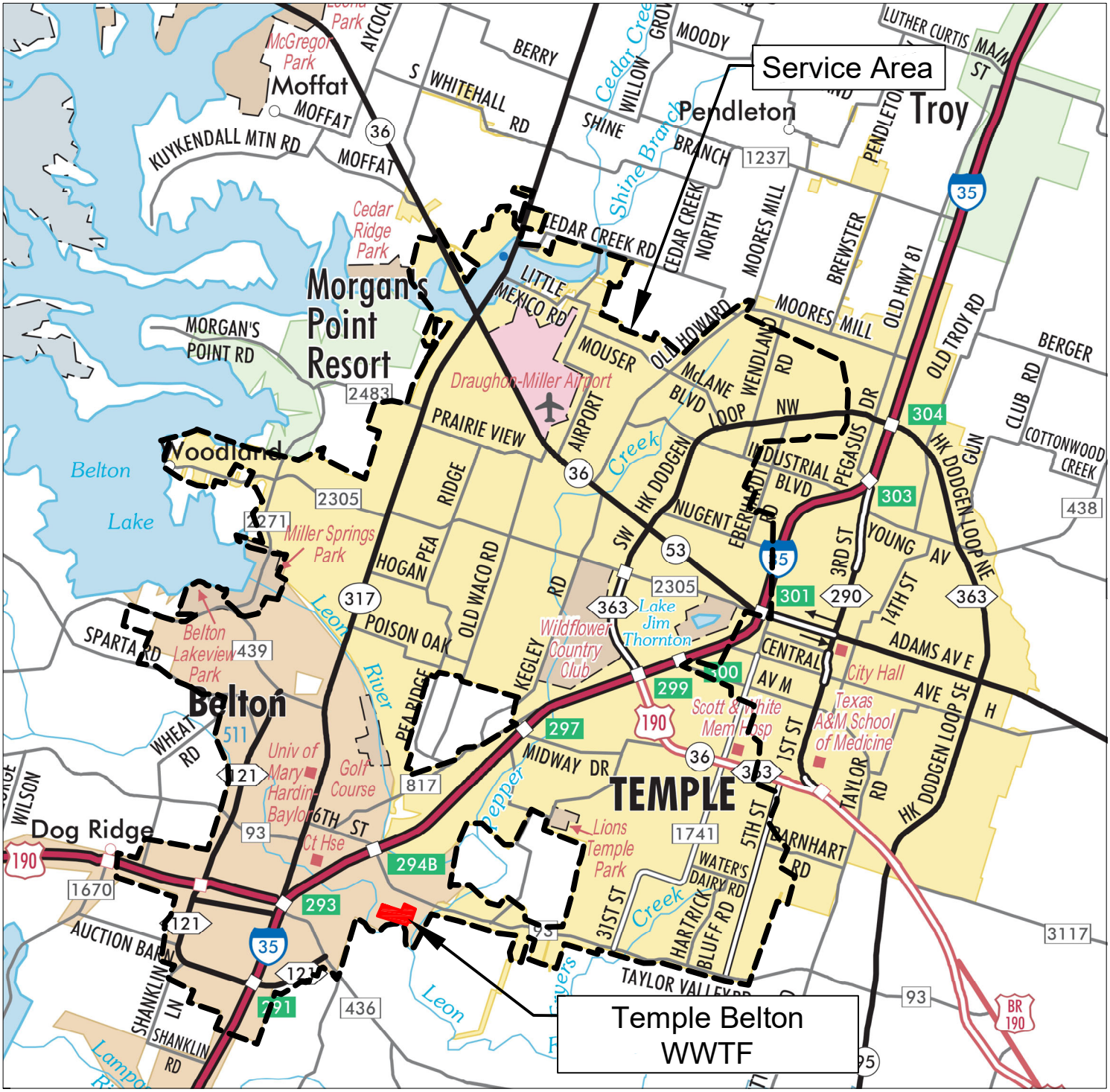
Attachment H

Site Drawing

Tech Report 1.0, Section 3

Mead & Hunt

N
NOT TO SCALE



ATTACHMENT H
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
SITE DRAWING

Attachment I

Stormwater Runoff Management

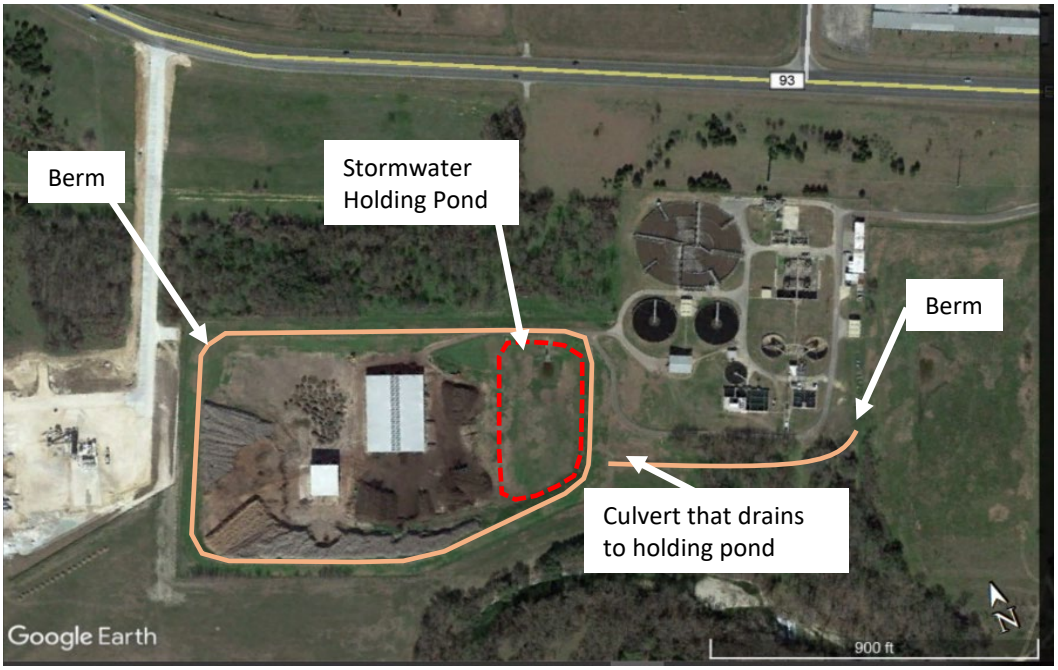
Tech Report 1.0, Section 4

ATTACHMENT I

CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION

DESCRIPTION OF STORMWATER RUNOFF MANAGEMENT

Stormwater at the Temple Belton Wastewater Treatment Facility (WWTF) site is captured and treated in accordance with the requirements specified in TPDES permit No. WQ0011318001 prior to discharge. The WWTF site has an earthen berm along the southeasterly side and a berm around the entire storage and work area of the composting operation. Stormwater at the site drains to the south and is routed into a holding pond where it is either evaporated or pumped back to the headworks of the WWTF for full treatment prior to discharge.



Attachment J

Effluent Analysis Reports

Tech Report 1.0, Section 7 and

Worksheet 4.0

Email information for report date:
11/4/24 16:27

H030066

Brazos River Authority

Attn: Adrienne Tapia
adrienne.tapia@brazos.org

P.O. Box 7555
Waco, TX 76714-7555

Please contact us for your sampling needs or if you have any questions. Some convenient contacts are listed below. You can also access your results and reports through our ClientConnect ™ portal on our website (www.aqua-techlabs.com).

For sampling questions:

samplingbryan@aqua-techlabs.com (Bryan area)
samplingaustin@aqua-techlabs.com (Austin area)

reporting@aqua-techlabs.com (report questions)

Aqua-Tech values you as a customer and encourages you to speak with our staff at 979-778-3707 or the above emails if you have questions.

Thank you for your business,
June M. Brien
Executive Technical Director

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AQUA-TECH LABORATORIES

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The analyses summarized in this report were performed by Aqua-Tech Laboratories, Inc. unless otherwise noted. Aqua-Tech Laboratories, Inc. holds accreditation from the State of Texas in accordance with TNI and/or through the TCEQ Drinking Water Commercial Laboratory Approval Program.

The following abbreviations indicate certification status:

NEL	TNI accredited parameter.
ANR	Accreditation not offered by the State of Texas.
DWP	Approval through the TCEQ Drinking Water Commercial Laboratory Approval Program.
INF	Aqua-Tech Laboratories, Inc. is not accredited for this parameter. It is reported on an informational basis only.

Subcontracted data summarized in this report is indicated by "Sub" in the Lab column.

Certificate: TX-C24-00311

TCEQ Lab ID T104704371

General Definitions:

NR	Not Reported.
RPD	Relative Percent Difference.
% R	Percent Recovery.
dry	Results with the "dry" unit designation are reported on a "dry weight" basis.
SQL	The Sample Quantitation Limit is the value below which the parameter cannot reliably be detected. The SQL includes all sample preparations, dilutions and / or concentrations.
Adj MDL	The Adjusted Method Detection Limit is the MDL value adjusted for any sample dilutions or concentrations .
MDL	The Method Detection Limit is the lowest theoretical value that is statistically different from zero for a specific method, taking into account all preparation steps and instrument settings.

All samples are reported on an "as received" basis unless the designation "dry" is added to the reported unit.

Copies of Aqua-Tech Laboratories, Inc. procedures and individual sampling plans are available upon request. Note that samples are collected by Aqua-Tech Laboratories, Inc. personnel unless otherwise noted in the "Sample Collected" field of this report as "Client" or "CLT".

Samples included in this report were received in acceptable condition according to Aqua-Tech Laboratories, Inc. procedures and 40 CFR, Chapter I, Subchapter D, Part 136.3, TABLE II. - *Required containers, preservation techniques, and holding times*, unless otherwise noted in this report.

Record Retention:

All reports, raw data, and associated quality control data are kept on file for 10 years before being destroyed. Any client that would like copies of records must contact Aqua-Tech Laboratories, Inc. no later than six months prior to the scheduled disposal. An administrative fee for retrieval and distribution will apply.

This report was approved by:

June M. Brien, Technical Director

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Analytical Report

Brazos River Authority

Report Printed: **11/4/24** **16:27**

H030066

Temple Belton Regional WWTP Effluent

Collected: 09/17/24 10:59 by CLIENT
Received: 09/17/24 15:38 by James R Fritz

Type: Comp
Matrix: Non Potable
C-O-C #: H030066

Lab ID# H030066-01

	Result	Units	Notes	MDL	Adj MDL	SQL	Lab	Analyzed	Method	Batch	
General Chemistry											
Carbonaceous BOD (5 day)	**3**	mg/L		1	1	1	*Bryan*	09/18/24 07:22 CTG	SM5210 B 2016	M182887	NEL
Total Suspended Solids	**3**	mg/L		1	1	1	*Bryan*	09/18/24 09:58 MRH	SM2540 D 2015	M182897	NEL
Total Dissolved Solids	**516**	mg/L		25.0	50.0	50.0	*Bryan*	09/19/24 12:38 MRH	SM2540 C 2015	M182992	NEL
Ammonia as N	**4.96**	mg/L	C-02	0.05	0.27	0.30	*Bryan*	09/19/24 11:44 KMA	SM4500-NH3 G 2011	M182970	NEL
Total Kjeldahl Nitrogen as N	**6.50**	mg/L		0.13	0.13	0.20	*Bryan*	09/26/24 13:07 KMA	EPA 351.2 R2.0	M182958	NEL
Nitrate as N	**4.8**	mg/L			0.10	0.12	*Calc*	09/18/24 12:30 ATG	SM4500-NO3-F 2011	[CALC]	NEL
Nitrite as N	**0.33**	mg/L		0.004	0.009	0.02	*Bryan*	09/18/24 08:52 ATG	SM4500 NO2- B 2011	M182901	NEL
Nitrate/Nitrite as N	**5.1**	mg/L		0.02	0.10	0.12	*Bryan*	09/18/24 12:30 KMA	SM4500-NO3-F 2011	M182912	ANR
Total Alkalinity as CaCO3 (pH4.5)	**164**	mg/L		5.00	20.0	20.0	*Bryan*	09/19/24 12:04 ATG	SM2320 B 2011	M182995	NEL
Chloride	**109**	mg/L		0.60	2.41	20.0	*Austin*	09/23/24 10:45 MSA	SM4500-Cl- B 2011	M183101	NEL
Sulfate as SO4(2-)	**45.8**	mg/L		2.63	3.50	6.67	*Austin*	09/24/24 11:44 BEB	ASTM D516-16	M183176	NEL
Metals (Total)											
Phosphorus (Total)	**<0.050**	mg/L		0.082	0.041	0.050	*Bryan*	09/25/24 19:06 ABM	EPA 200.7 R4.4	M182987	NEL

Explanation of Notes

C-02	Result confirmed by re-analysis.

Form: C:\ELMNT\FORMAT\ATL 090124 FIN_LS.RPT

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Analytical Report

Brazos River Authority

Report Printed: **11/4/24** **16:27**

H030066

General Chemistry - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Ammonia as N - SM4500-NH3 G 2011														*Bryan*
Initial Cal Check	1.00	mg/L				09/19/24 11:44 KMA	1.00		100	90 - 110			2409243	
Low Cal Check	0.05	mg/L				09/19/24 11:44 KMA	0.0500		104	70 - 130			2409243	
Blank	<0.05	mg/L		0.05	0.05	09/19/24 11:44 KMA							M182970	
LCS	0.50	mg/L		0.05	0.05	09/19/24 11:44 KMA	0.500		100	85 - 115			M182970	
LCS Dup	0.50	mg/L		0.05	0.05	09/19/24 11:44 KMA	0.500		99.8	85 - 115	0.200	20	M182970	
Matrix Spike	0.51	mg/L		0.05	0.05	09/19/24 11:44 KMA	0.500	<0.05	101	70 - 130			M182970	
Matrix Spike Dup	0.51	mg/L		0.05	0.05	09/19/24 11:44 KMA	0.500	<0.05	102	70 - 130	0.981	20	M182970	
Carbonaceous BOD (5 day) - SM5210 B 2016														*Bryan*
Diln Water Blk	<0.20	mg/L		1	1	09/18/24 07:22 CTG		0.1		< or = 0.2 mg/L			2409218	
GGA	170	mg/L		1	1	09/18/24 07:22 CTG	198		85.9	76 - 110			2409218	
GGA	164	mg/L		1	1	09/18/24 07:22 CTG	198		82.8	76 - 110			2409218	
Seed Blank	<1	mg/L		1	1	09/18/24 07:22 CTG							2409218	
Seed Blank	<1	mg/L		1	1	09/18/24 07:22 CTG							2409218	
Duplicate	7	mg/L		2	2	09/18/24 07:22 CTG		8			5.56	21	M182887	
Chloride - SM4500-Cl- B 2011														*Austin*
Initial Cal Check	49.8	mg/L				09/23/24 10:45 MSA	50.0		99.5	90 - 110			2409289	
Low Cal Check	5.07	mg/L				09/23/24 10:45 MSA	4.95		102	0 - 200			2409289	
Blank	<5.00	mg/L		0.60	5.00	09/23/24 10:45 MSA							M183101	
LCS	20.7	mg/L		0.60	5.00	09/23/24 10:45 MSA	19.8		105	90 - 110			M183101	
LCS Dup	20.3	mg/L		0.60	5.00	09/23/24 10:45 MSA	19.8		102	90 - 110	2.25	5.86	M183101	
Matrix Spike	221	mg/L		2.41	20.0	09/23/24 10:45 MSA	79.2	144	97.7	83.4 - 113			M183101	
Matrix Spike Dup	221	mg/L		2.41	20.0	09/23/24 10:45 MSA	79.2	144	97.7	83.4 - 113	0.00	10.7	M183101	
MRL Check	5.07	mg/L		0.60	5.00	09/23/24 10:45 MSA	4.95		102	70 - 130			M183101	
Nitrate/Nitrite as N - SM4500-NO3-F 2011														*Bryan*
Initial Cal Check	1.0	mg/L				09/18/24 12:30 KMA	0.959		107	90 - 110			2409226	
Low Cal Check	0.02	mg/L				09/18/24 12:30 KMA	0.0200		90.0	70 - 130			2409226	
Blank	<0.02	mg/L		0.02	0.02	09/18/24 12:30 KMA							M182912	
LCS	0.51	mg/L		0.02	0.02	09/18/24 12:30 KMA	0.500		101	92.6 - 108			M182912	
LCS Dup	0.51	mg/L		0.02	0.02	09/18/24 12:30 KMA	0.500		101	92.6 - 108	0.00	2.2	M182912	
Matrix Spike	14	mg/L		0.17	0.20	09/18/24 12:30 KMA	5.00	8.9	107	79.4 - 122			M182912	
Matrix Spike Dup	14	mg/L		0.17	0.20	09/18/24 12:30 KMA	5.00	8.9	107	79.4 - 122	0.225	7.62	M182912	

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Analytical Report

Brazos River Authority

Report Printed: **11/4/24** **16:27**

H030066

General Chemistry - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Nitrite as N - SM4500 NO2- B 2011														*Bryan*
Initial Cal Check	0.07	mg/L				09/18/24 08:52 ATG	0.0695		101	90 - 110			2409220	
MRL	0.009	mg/L				09/18/24 08:52 ATG	0.0100		92.1	70 - 130			2409220	
Blank	<0.01	mg/L		0.004	0.01	09/18/24 08:52 ATG							M182901	
LCS	0.05	mg/L		0.004	0.01	09/18/24 08:52 ATG	0.0500		94.2	90 - 110			M182901	
LCS Dup	0.05	mg/L		0.004	0.01	09/18/24 08:52 ATG	0.0500		93.5	90 - 110	0.734	10	M182901	
Matrix Spike	0.05	mg/L		0.004	0.01	09/18/24 08:52 ATG	0.0500	0.006	84.7	75 - 115			M182901	
Matrix Spike Dup	0.05	mg/L		0.004	0.01	09/18/24 08:52 ATG	0.0500	0.006	84.7	75 - 115	0.00	10	M182901	
Initial Cal Check	0.07	mg/L				10/11/23 06:12 ATG	0.0660		102	90 - 110			2310107	
Sulfate as SO4(2-) - ASTM D516-16														*Austin*
Initial Cal Check	27.8	mg/L				09/13/24 09:10 BEB	30.0		92.7	90 - 110			2409181	
Initial Cal Check	28.7	mg/L				09/24/24 11:44 BEB	30.0		95.8	90 - 110			2409303	
Low Cal Check	4.07	mg/L				09/24/24 11:44 BEB	5.00		81.5	70 - 130			2409303	
Blank	<5.00	mg/L		2.63	5.00	09/24/24 11:44 BEB							M183176	
Duplicate	125	mg/L		10.5	20.0	09/24/24 11:44 BEB		122			2.00	11.9	M183176	
LCS	8.54	mg/L		2.63	5.00	09/24/24 11:44 BEB	10.0		85.4	85 - 115			M183176	
LCS Dup	8.62	mg/L		2.63	5.00	09/24/24 11:44 BEB	10.0		86.2	85 - 115	0.847	13.8	M183176	
Matrix Spike	156	mg/L		10.5	20.0	09/24/24 11:44 BEB	40.0	122	84.7	61.6 - 137			M183176	
Matrix Spike Dup	157	mg/L		10.5	20.0	09/24/24 11:44 BEB	40.0	122	85.5	61.6 - 137	0.958	17.1	M183176	
Total Alkalinity as CaCO3 (pH4.5) - SM2320 B 2011														*Bryan*
Initial Cal Check	6.90	mg/L				09/19/24 12:04 ATG	6.86		101	98 - 102			2409247	
Initial Cal Check	9.16	mg/L				09/19/24 12:04 ATG	9.18		99.8	98 - 102			2409247	
Low Cal Check	20.0	mg/L				09/19/24 12:04 ATG	19.2		104	70 - 130			2409247	
Duplicate	228	mg/L		20.0	20.0	09/19/24 12:04 ATG		226			0.881	10	M182995	
LCS	78.0	mg/L		20.0	20.0	09/19/24 12:04 ATG	77.0		101	90 - 110			M182995	
LCS Dup	78.0	mg/L		20.0	20.0	09/19/24 12:04 ATG	77.0		101	90 - 110	0.00	10	M182995	
Total Dissolved Solids - SM2540 C 2015														*Bryan*
Blank	<25.0	mg/L		25.0	25.0	09/19/24 12:38 MRH							M182992	
Duplicate	498	mg/L		50.0	50.0	09/19/24 12:38 MRH		516			3.55	10	M182992	
Reference	492	mg/L		100	100	09/19/24 12:38 MRH	500		98.4	78 - 122			M182992	

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Analytical Report

Brazos River Authority

Report Printed: **11/4/24** **16:27**

H030066

General Chemistry - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Total Kjeldahl Nitrogen as N - EPA 351.2 R2.0														*Bryan*
Initial Cal Check	1.65	mg/L				09/26/24 13:07 KMA	1.69		97.8	90 - 110			2409353	
Low Cal Check	0.22	mg/L				09/26/24 13:07 KMA	0.200		108	70 - 130			2409353	
Blank	<0.20	mg/L		0.13	0.20	09/26/24 13:07 KMA							M182958	
LCS	4.20	mg/L		0.13	0.20	09/26/24 13:07 KMA	4.00		105	87.4 - 119			M182958	
LCS Dup	4.68	mg/L		0.13	0.20	09/26/24 13:07 KMA	4.00		117	87.4 - 119	10.7	11.1	M182958	
Matrix Spike	165	mg/L		3.25	5.00	09/26/24 13:07 KMA	100	55.8	109	62.1 - 130			M182958	
Matrix Spike Dup	162	mg/L		3.25	5.00	09/26/24 13:07 KMA	100	55.8	106	62.1 - 130	2.44	17.5	M182958	
Total Suspended Solids - SM2540 D 2015														*Bryan*
Blank	<1	mg/L		1	1	09/18/24 09:58 MRH							M182897	
Duplicate	344	mg/L		40	40	09/18/24 09:58 MRH		336			2.35	20	M182897	
Reference	102	mg/L		10	10	09/18/24 09:58 MRH	101		101	80 - 120			M182897	

Metals (Total) - Quality Control

	Result	Units	Notes	MDL	SQL	Analyzed	Spike Amount	Source Result	%R	%R Limits	RPD	RPD Limit	Batch	
Phosphorus (Total) - EPA 200.7 R4.4														*Bryan*
Blank	<0.050	mg/L		0.041	0.050	09/25/24 18:29 ABM							M182987	
LCS	2.58	mg/L		0.041	0.050	09/25/24 18:32 ABM	2.50		103	84.5 - 115.4			M182987	
LCS Dup	2.67	mg/L		0.041	0.050	09/25/24 18:35 ABM	2.50		107	84.5 - 115.4	3.42	20	M182987	
Duplicate	7.30	mg/L		0.041	0.050	09/25/24 18:38 ABM		7.34			0.567	20	M182987	
Matrix Spike	10.3	mg/L		0.041	0.050	09/25/24 18:43 ABM	2.50	7.34	116	69.5 - 130.4			M182987	

BRYAN FACILITY
635 Phil Gramm Boulevard
Bryan, TX 77807
Phone: (979) 778-3707
Fax: (979) 778-3193

AQUA-TECH LABORATORIES

AUSTIN FACILITY
3512 Montopolis Dr. Suite A
Austin, TX 78744
Phone: (512) 301-9559
Fax: (512) 301-9552

Analytical Report

Brazos River Authority

Report Printed: **11/4/24** **16:27**

H030066

Sample Preparation Summary

Sample	Method	Prepared	Lab	Bottle	Initial	Units	Final	Units	External Dilution Factor	Batch
H030066-01										
Ammonia as N	SM4500-NH3 G 2011	9/19/24 9:34 KMA	Bryan	D	1.00	mL	6.00	mL	1	M182970
Carbonaceous BOD (5 day)	SM5210 B 2016	9/18/24 7:22 CTG	Bryan	F	300	mL	300	mL	1	M182887
Chloride	SM4500-Cl- B 2011	9/23/24 10:45 MSA	Austin	C	25.0	mL	100	mL	1	M183101
Nitrate/Nitrite as N	SM4500-NO3-F 2011	9/18/24 10:01 KMA	Bryan	A	1.00	mL	6.00	mL	1	M182912
Nitrite as N	SM4500 NO2- B 2011	9/18/24 8:52 ATG	Bryan	I	10.0	mL	25.0	mL	1	M182901
Phosphorus (Total)	EPA 200.7 R4.4	9/19/24 12:45 ABM	Bryan	E	50.0	mL	25.0	mL	1	M182987
Sulfate as SO4(2-)	ASTM D516-16	9/24/24 11:44 BEB	Austin	C	75.0	mL	100	mL	1	M183176
Total Alkalinity as CaCO3 (pH4.5)	SM2320 B 2011	9/19/24 12:04 ATG	Bryan	H	50.0	mL	200	mL	1	M182995
Total Dissolved Solids	SM2540 C 2015	9/19/24 12:38 MRH	Bryan	B	50.0	mL	100	mL	1	M182992
Total Kjeldahl Nitrogen as N	EPA 351.2 R2.0	9/19/24 7:34 CTG	Bryan	A	25.0	mL	25.0	mL	1	M182958
Total Suspended Solids	SM2540 D 2015	9/18/24 9:58 MRH	Bryan	G	1000	mL	1000	mL	1	M182897

Chain-of-Custody and Analysis Request

AQUA-TECH LABORATORIES, INC.

Client / Project Name: Brazos River Authority — Temple Belton Regional WWTP- Permit Renewal

Contact Information
Name: Adrienne Tapia
Address: P.O. Box 7555
City: Waco
State: TX Zip: 76714-7555
Phone: (737) 245-0004
email:

Definitions
DW Drinking Water
NP Non-Potable Water
S Solid
CM Custody Maintained
CTU Custody Transfer Unbroken
CT Corrected Temperature

Reagent tracking is available upon request.

TCEQ LAB ID: T104704371

Aqua-Tech laboratories, Inc.
Austin: 3512 Montopolis Dr. Austin, TX 78744 512.301.9559
Bryan: 635 Phil Gramm Blvd. Bryan, TX 77807 979.778.3707

Test results meet all accreditation/certification requirements unless stated otherwise.

C-O-C # **H030066**

rte_ATL COC 012723.rpt

Analyses Requested: "A" prefix indicates Austin, all others Bryan or Subcontracted, indicated by [SUB].
Name format: Analysis-Matrix-Technology-Method.

[NEL] = NELAP accredited parameter
[SUB] = NELAP accredited subcontracted parameter
[CNR] = No NELAP accreditation required or available
[INF] = Informational only (not NELAC certified)

By relinquishing the samples listed below to Aqua-Tech laboratories, Inc. (ATL), the client agrees to the following terms. Samples will be analyzed by a method that is within ATL's NELAP fields of accreditation (FoA). Analytes requiring an accredited method that is not within ATL's FoA will be subcontracted to a NELAP lab that is accredited for that method. Clients will be notified of the subcontract lab's details. Other analytes not requiring accreditation will be analyzed by a compendial method. If a specific method is required, the client will note the method in the "Analysis Requested" column. The client approves all method modifications documented by ATL or the subcontract lab.
A current list of ATL's NELAC fields of accreditation and other methods are available on request.

Sample Custody

Relinquished (print & sign)	Ron Ellis	☐ Sampler ☑ Client ☐ ATL Field	Date 9.17.24	☐ Iced / Refrig ☐ Custody Sealed
			Time 11:10	
Received (print & sign)	James Fritz	☐ Client ☒ ATL Field	Date 9-17-24	☒ Iced / Refrig ☒ CM / CTU
			Time 1242	
Relinquished (print & sign)	NA	☐ Client ☐ ATL Field	Date	☐ Iced / Refrig ☐ CM / CTU
			Time	
Received (print & sign)	ATRF	☐ Client ☐ ATL Field	Date	☐ Iced / Refrig ☐ CM / CTU
			Time	
Relinquished (print & sign)	James R Fritz	☐ Client ☒ ATL Field	Date 09/17/24	☒ Iced / Refrig ☒ CM / CTU / Sealed
			Time 15:38	
Received (print & sign)	James R Fritz	X Lab	Date 09/17/24	X Cond Good X Iced / Refrig X CM / CTU
			Time 15:38	

Comments:

- LAB RECEIPT - B101

Temperature - CT (C):	4.6
Preservation Correct:	Yes
Post-Preservatives:	N/A
Thermometer ID:	0809841
pH Paper ID:	0816091

ko_A COC MULTI 043020.rpt

Field Sample ID	Start Date	Start Time	End Date	End Time	Composite Type	Sample Matrix	Container (Checked box indicates bottle arrived in lab) (Volume - Type - Preservative)	Lab ID
Temple Belton Regional WWTP Effluent	9.16.24	11:00	9-17-24	10:54	Comp	NP	☑ A CLT H2SO4 0.25LP TKN pH<2 ☐ B TDS 0.5LP ☐ C Cl SO4 0.5LP	H030066-01

A Cl NP Tit SM 4500 Cl- B [NEL]
CBOD NP Probe SM 5210 B [NEL]
NO3N + NO2N NP RFA SM4500 NO3 F [CNR]
TDS NP Grav SM2540 C [NEL]
A SO4 NP Spec D516 [NEL]
NH3N NP AUTO SM 4500 G [NEL]
NO3N NP CALC SM4500 [NEL]
TKN NP AUTO EPA 351.2 [NEL]
Alkalinity NP Probe SM 2320 B [NEL]
NO2N NP Spec SM4500 NO2 B [NEL]
P NP ICP EPA 200.7 [NEL]
TSS NP Grav SM 2540 D [NEL]

1.69
0.01

DAILY EFFLUENT WORKSHEET

Facility: TB
Date: 9-13-24
Time: 07:30
Flow: 1.24
Analyst(s): RE
Barometer: 753

	Sample	Standard (Actual)	Blank	pH	
				Initial	Adjusted
pH	7.40	7.02			
DO	7.56	8.80			
Initial Cl2	1.58		0		
Mn Correction	0.09		0	7.36	6.68
Final Cl2	1.49				
SO2	0.01		0		
Mn Correction	0.02		0	7.40	6.64
Final S02	0.00				
Temperature	25.1	20.0			

Note: pH for manganese correction must be between 6-7 su.

Method used for reportable chlorine analysis: SM 4500-Cl G DPD Method

Method used for reportable pH analysis: SM 4500 H+B

CALIBRATION VERIFICATION

NOTE: LOT #s must be updated after purchasing new chemical.

* RL-Reagent Log Book #5

Secondary gel standards

B1	0	0
Std 1	0.22	0.15-0.33
Std 2	0.90	0.85-1.05
Std 3	1.59	1.50-1.78

Standard	Lot #
pH 4	3GF1085
pH 7	2GH154
pH 10	3GG0187
Secondary Gel Stds.	A4061
DPD packets	A4010
Potassium Iodide	A3059
Sodium Arsenite	A3233
Sulfuric Acid	3GJ130919

Brazos River Authority - Operations
E. coli by IDEXX - Enzyme Substrate Method - SM 9223 B

Analysis Date In: 9-17-24
Analysis Start Time: 0851
Incubator Time In: 0958
Observed Temp In: 35.0 °C
Correction Factor: 0 °C
Corrected Temp In: 35.0 °C
Analyst In: EJ

Equipment/Supplies	ID/Lot#	Expiration Date
Sterile Dilution H_20	27023	11/30/2024
Media/Reagent	LW044	12/4/2024
Quanti-Tray®/2000	BY046J	3/11/2027
290ml Sample Bottles	MW013V	10/21/2026
120ml Sample Bottles	2207259899	NA
Comparator	AY440	1/24/2025
Incubator	42621636	
Data Logger	230803884	

Analysis Date Out: 9-18-24
Incubator Time Out: 10:01
Observed Temp Out: 34.9 °C
Correction Factor: 0 °C
Corrected Temp Out: 34.9 °C
Analyst Out: EJ

Sample ID	Res. Cl (mg/L)	Collect Date	Collect Time	Volume (ml)	Dilution Factor	Total Coliform Yellow Wells Large	Total Coliform Yellow Wells Small	*E. coli* Fluorescent Wells Large	*E. coli* Fluorescent Wells Small	Result MPN/100 mL
Blank	NA	NA	NA	99	1	0	0	0	0	<1
TB	0.03	9-17-24	0841	100	1	49	30	29	6	51.2
TB DUP	NA	9-17-24	0841	100	1	49	28	12	2	15.8
DF	2.32	9-17-24	0723	100	1	1	0	0	0	<1

☑ Samples received on ice. (*If not, record comment below.*)

Comments: _____

Note: Analysis start time must begin within eight hours of earliest sample collection time.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Troy Zwerneman
Brazos River Authority
PO BOX 7555
Waco, Texas 76714

Generated 11/8/2024 9:07:39 AM Revision 1

JOB DESCRIPTION

WWTP Temple Belton Effluent

JOB NUMBER

860-85063-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
11/8/2024 9:07:39 AM
Revision 1

Authorized for release by
Jodi Allen, Project Manager I
Jodi.Allen@et.eurofinsus.com
(281)520-2865

Table of Contents

Cover Page 1
Table of Contents 3
Definitions/Glossary 4
Case Narrative 6
Detection Summary 9
Client Sample Results 11
Action Limit Summary 18
Surrogate Summary 19
QC Sample Results 21
QC Association Summary 42
Lab Chronicle 47
Certification Summary 50
Method Summary 52
Sample Summary 53
Subcontract Data 54
Chain of Custody 64
Receipt Checklists 72

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 860-85063-1 — Eurofins Houston

Job Narrative
860-85063-1

REVISION

The report being provided is a revision of the original report sent on 11/4/2024. This final report was revised to correct the Project and Sample ID from Influent to Effluent due to the laboratory mislabeling the containers. This was confirmed and corresponds with the Chain of Custody, date/time of collection and the container labels provided by the client.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 10/18/2024 9:23 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.8°C, 2.8°C, 3.1°C and 3.2°C.

Subcontract Work
Methods 614 Organophos Pesticides, 622 Chloropyrifos: These methods were subcontracted to Ana-Lab Corporation. The subcontract laboratory certifications are different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
Method 624.1: Sample is unpreserved and analyzed within 7 days, but Acrolein was outside of the 3 day holding time. Temple Belton Effluent Lab Composite (860-85063-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_QQQ: The surrogate recovery for the method blank associated with preparation batch 860-195146 and analytical batch 860-195382 was outside the control limit.

Method 625.1_QQQ: The surrogate recovery for the method blank and laboratory control sample duplicate associated with preparation batch 860-195146 and analytical batch 860-195750 was outside the control limits.

Method 625.1_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Temple Belton Influent (860-85063-1). These results have been reported and qualified.

Method 625.1_QQQ: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-195146 and analytical batch 860-195750 recovered outside control limits for the following analyte: Chlorpyrifos. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method 625.1_QQQ: The method blank for preparation batch 860-196166 and analytical batch 860-196265 contained Benzo[a]anthracene above the method detection limit.

Method 625.1_QQQ: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Temple Belton Influent (860-85063-1). These results have been reported

and qualified.

Method 625.1_QQQ: The following sample was re-prepared outside of preparation holding time due to QC failed on first extracted: Temple Belton Influent (860-85063-1).

Method 625.1_QQQ: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-196166 and analytical batch 860-196265 recovered outside control limits for multiple analytes. The associated sample was re-prepared and/or re-analyzed outside holding time.

Method 625.1_QQQ: The method blank for preparation batch 860-195146 and analytical batch 860-195750 contained bis (2-chloroisopropyl) ether and Benzo[a]anthracene above the method detection limit. These target analytes concentration was less than half the reporting limit (1/2RL) in the method blank. Sample was re-extracted and re-analyzed.

Method 625.1_QQQ: The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-195146 and analytical batch 860-195382 recovered outside control limits for multiple analytes. The associated sample was re-prepared and re-analyzed outside holding time.

Method 625.1_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-196166 and analytical batch 860-196265 recovered outside control limits for the following analytes: 4-Nitrophenol and Pyridine.

Method D7065_11: Sample Temple Belton Influent (860-85063-1) in preparation batch 280-672179 formed emulsions during the extraction procedure. The emulsions were broken up using the pour-back method for the second and third extractions.

Method D7065_11: The reference method requires samples to be preserved to a pH of 1-2. The following samples were received with insufficient preservation at a pH of 6. The samples were preserved to the appropriate pH in the laboratory.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 608.3_PCB: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 860-195435 and analytical batch 860-195843 recovered outside control limits for the following analytes: PCB-1016. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 608.3_PCB: Surrogate recovery for the following sample was outside the upper control limit: Temple Belton Influent (860-85063-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 608.3_Pest: The surrogate recovery for the blank associated with preparation batch 860-195435 and analytical batch 860-195832 was outside the upper control limits. (MB 860-195435/1-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFMS: The following sample(s) was received with less than 1 hour remaining on the holding time. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: Temple Belton Influent (860-85065-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 1631E_NP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 192-25036 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

Client Sample ID: Temple Belton Effluent — Lab Sample ID: 860-85063-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0170	J B	0.114	0.00950	ug/L	1		625.1	Total/NA
2,6-Dinitrotoluene	0.186	J I	0.570	0.116	ug/L	1		625.1	Total/NA
Nonylphenol	8.15		4.86	1.11	ug/L	1		D7065-11	Total/NA
Fluoride	191	J	500	100	ug/L	1		300.0	Total/NA
Diuron	0.212		0.0900	0.0514	ug/L	1		632	Total/NA
Aluminum	11.2	J	20.0	3.01	ug/L	1		200.8	Total Recoverable
Arsenic	1.76	J	4.00	0.929	ug/L	1		200.8	Total Recoverable
Barium	52.0		4.00	0.954	ug/L	1		200.8	Total Recoverable
Chromium	1.16	J	4.00	0.890	ug/L	1		200.8	Total Recoverable
Copper	4.19		4.00	0.690	ug/L	1		200.8	Total Recoverable
Manganese	17.8		2.00	0.525	ug/L	1		200.8	Total Recoverable
Molybdenum	1.45	J	2.00	0.504	ug/L	1		200.8	Total Recoverable
Nickel	2.35		2.00	0.486	ug/L	1		200.8	Total Recoverable
Selenium	0.832	J	2.00	0.685	ug/L	1		200.8	Total Recoverable
Zinc	48.1		4.00	0.885	ug/L	1		200.8	Total Recoverable
Phosphorus Total	411		20.0	14.3	ug/L	1		365.1	Total/NA
Total Chromium	1.16	J	4.00	0.525	ug/L	1		SM 3500 CR B	Total/NA

Client Sample ID: Temple Belton Effluent Grab 1 — Lab Sample ID: 860-85063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00243		0.000500	0.000490	ug/L	1		1631E	Total/NA

Client Sample ID: Temple Belton Effluent Grab 2 — Lab Sample ID: 860-85063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00161		0.000500	0.000490	ug/L	1		1631E	Total/NA
HEM	2300	J	5000	1570	ug/L	1		1664B	Total/NA

Client Sample ID: Temple Belton Effluent Grab 3 — Lab Sample ID: 860-85063-4

No Detections.

Client Sample ID: Temple Belton Effluent Grab 4 — Lab Sample ID: 860-85063-5

No Detections.

Client Sample ID: Temple Belton Effluent Lab Composite — Lab Sample ID: 860-85063-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.86		1.00	0.464	ug/L	1		624.1	Total/NA
Dichlorobromomethane	1.89		1.00	0.552	ug/L	1		624.1	Total/NA
Trihalomethanes, Total	6.75		5.00	0.633	ug/L	1		624.1	Total/NA
Cyanide, Total	18.8		5.00	1.98	ug/L	1		Kelada 01	Total/NA
Cyanide, Available	3.32		2.00	1.56	ug/L	1		OIA - 1677	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 1 — Lab Sample ID: 860-85063-7

No Detections.

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 2 — Lab Sample ID: 860-85063-8

No Detections.

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 3 — Lab Sample ID: 860-85063-9

No Detections.

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 4 — Lab Sample ID: 860-85063-10

No Detections.

Client Sample ID: Temple Belton Effluent — Lab Sample ID: 860-85065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Nitrate	6620	H	100	39.1	ug/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

Client Sample ID: Temple Belton Effluent

Date Collected: 10/16/24 10:59
Date Received: 10/18/24 09:23

Lab Sample ID: 860-85063-1

Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.107	U	0.570	0.107	ug/L		10/22/24 14:49	10/25/24 05:58	1
Acenaphthylene	<0.0994	U *+	0.570	0.0994	ug/L		10/22/24 14:49	10/25/24 05:58	1
Anthracene	<0.0935	U	0.570	0.0935	ug/L		10/22/24 14:49	10/25/24 05:58	1
Benzidine	<0.0897	U	1.14	0.0897	ug/L		10/22/24 14:49	10/25/24 05:58	1
Benzo[a]anthracene	**0.0170**	**J B**	0.114	0.00950	ug/L		10/22/24 14:49	10/25/24 05:58	1
Benzo[a]pyrene	<0.00997	U	0.114	0.00997	ug/L		10/22/24 14:49	10/25/24 05:58	1
Benzo[b]fluoranthene	<0.0662	U	0.570	0.0662	ug/L		10/22/24 14:49	10/25/24 05:58	1
Benzo[g,h,i]perylene	<0.0344	U	0.570	0.0344	ug/L		10/22/24 14:49	10/25/24 05:58	1
Benzo[k]fluoranthene	<0.0471	U	0.570	0.0471	ug/L		10/22/24 14:49	10/25/24 05:58	1
Bis(2-chloroethoxy)methane	<0.0972	U	0.570	0.0972	ug/L		10/22/24 14:49	10/25/24 05:58	1
Bis(2-chloroethyl)ether	<0.214	U	0.570	0.214	ug/L		10/22/24 14:49	10/25/24 05:58	1
bis (2-chloroisopropyl) ether	<0.128	U *+ *1	0.570	0.128	ug/L		10/22/24 14:49	10/25/24 05:58	1
Bis(2-ethylhexyl) phthalate	<1.42	U	2.85	1.42	ug/L		10/22/24 14:49	10/25/24 05:58	1
4-Bromophenyl phenyl ether	<0.100	U	0.570	0.100	ug/L		10/22/24 14:49	10/25/24 05:58	1
Butyl benzyl phthalate	<1.42	U	2.85	1.42	ug/L		10/22/24 14:49	10/25/24 05:58	1
2-Chloronaphthalene	<0.377	U *1	0.570	0.377	ug/L		10/22/24 14:49	10/25/24 05:58	1
2-Chlorophenol	<0.0754	U	0.570	0.0754	ug/L		10/22/24 14:49	10/25/24 05:58	1
4-Chlorophenyl phenyl ether	<0.130	U	0.570	0.130	ug/L		10/22/24 14:49	10/25/24 05:58	1
Chlorpyrifos	<0.0159	U *+	0.0570	0.0159	ug/L		10/22/24 14:49	10/25/24 05:58	1
Chrysene	<0.0813	U	0.570	0.0813	ug/L		10/22/24 14:49	10/25/24 05:58	1
Dibenz(a,h)anthracene	<0.0507	U	0.114	0.0507	ug/L		10/22/24 14:49	10/25/24 05:58	1
1,2-Dichlorobenzene	<0.0938	U	0.570	0.0938	ug/L		10/22/24 14:49	10/25/24 05:58	1
1,3-Dichlorobenzene	<0.101	U	0.570	0.101	ug/L		10/22/24 14:49	10/25/24 05:58	1
1,4-Dichlorobenzene	<0.0777	U	0.570	0.0777	ug/L		10/22/24 14:49	10/25/24 05:58	1
3,3'-Dichlorobenzidine	<0.183	U	0.570	0.183	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,4-Dichlorophenol	<0.140	U	0.570	0.140	ug/L		10/22/24 14:49	10/25/24 05:58	1
Diethyl phthalate	<1.42	U	2.85	1.42	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,4-Dimethylphenol	<0.192	U *+	0.570	0.192	ug/L		10/22/24 14:49	10/25/24 05:58	1
Dimethyl phthalate	<1.42	U *+	2.85	1.42	ug/L		10/22/24 14:49	10/25/24 05:58	1
Di-n-butyl phthalate	<1.42	U	2.85	1.42	ug/L		10/22/24 14:49	10/25/24 05:58	1
4,6-Dinitro-o-cresol	<0.201	U *-	1.14	0.201	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,4-Dinitrophenol	<0.104	U	2.85	0.104	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,4-Dinitrotoluene	<0.204	U	0.570	0.204	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,6-Dinitrotoluene	**0.186**	**J I**	0.570	0.116	ug/L		10/22/24 14:49	10/25/24 05:58	1
Di-n-octyl phthalate	<1.42	U	2.85	1.42	ug/L		10/22/24 14:49	10/25/24 05:58	1
1,2-Diphenylhydrazine	<0.285	U	0.570	0.285	ug/L		10/22/24 14:49	10/25/24 05:58	1
Fluoranthene	<0.0881	U	0.570	0.0881	ug/L		10/22/24 14:49	10/25/24 05:58	1
Fluorene	<0.0945	U	0.570	0.0945	ug/L		10/22/24 14:49	10/25/24 05:58	1
Hexachlorobenzene	<0.0972	U	0.570	0.0972	ug/L		10/22/24 14:49	10/25/24 05:58	1
Hexachlorobutadiene	<0.102	U	0.570	0.102	ug/L		10/22/24 14:49	10/25/24 05:58	1
Hexachlorocyclopentadiene	<0.0511	U *+	0.570	0.0511	ug/L		10/22/24 14:49	10/25/24 05:58	1
Hexachloroethane	<0.102	U	0.570	0.102	ug/L		10/22/24 14:49	10/25/24 05:58	1
Indeno[1,2,3-cd]pyrene	<0.0997	U	0.570	0.0997	ug/L		10/22/24 14:49	10/25/24 05:58	1
Isophorone	<0.106	U	0.570	0.106	ug/L		10/22/24 14:49	10/25/24 05:58	1
m & p - Cresol	<0.138	U	0.570	0.138	ug/L		10/22/24 14:49	10/25/24 05:58	1
Naphthalene	<0.0942	U	0.570	0.0942	ug/L		10/22/24 14:49	10/25/24 05:58	1
Nitrobenzene	<0.0734	U	0.570	0.0734	ug/L		10/22/24 14:49	10/25/24 05:58	1
2-Nitrophenol	<0.136	U	0.570	0.136	ug/L		10/22/24 14:49	10/25/24 05:58	1
4-Nitrophenol	<0.134	U *- *1	0.570	0.134	ug/L		10/22/24 14:49	10/25/24 05:58	1

Client Sample ID: Temple Belton Effluent

Date Collected: 10/16/24 10:59
Date Received: 10/18/24 09:23

Lab Sample ID: 860-85063-1
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiethylamine	<0.537	U	1.14	0.537	ug/L		10/22/24 14:49	10/25/24 05:58	1
N-Nitrosodimethylamine	<0.0997	U *-	0.570	0.0997	ug/L		10/22/24 14:49	10/25/24 05:58	1
N-Nitrosodi-n-butylamine	<0.514	U *+	1.14	0.514	ug/L		10/22/24 14:49	10/25/24 05:58	1
N-Nitrosodi-n-propylamine	<0.118	U	0.570	0.118	ug/L		10/22/24 14:49	10/25/24 05:58	1
N-Nitrosodiphenylamine	<0.144	U	0.570	0.144	ug/L		10/22/24 14:49	10/25/24 05:58	1
o-Cresol	<0.104	U	0.570	0.104	ug/L		10/22/24 14:49	10/25/24 05:58	1
p-Chloro-m-cresol	<0.103	U	0.570	0.103	ug/L		10/22/24 14:49	10/25/24 05:58	1
Pentachlorobenzene	<0.265	U	0.570	0.265	ug/L		10/22/24 14:49	10/25/24 05:58	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		10/22/24 14:49	10/25/24 05:58	1
Phenanthrene	<0.134	U *+	0.570	0.134	ug/L		10/22/24 14:49	10/25/24 05:58	1
Phenol	<0.447	U	2.85	0.447	ug/L		10/22/24 14:49	10/25/24 05:58	1
Pyrene	<0.0846	U	0.570	0.0846	ug/L		10/22/24 14:49	10/25/24 05:58	1
Pyridine	<1.43	U	2.85	1.43	ug/L		10/22/24 14:49	10/25/24 05:58	1
1,2,4,5-Tetrachlorobenzene	<0.0955	U	0.570	0.0955	ug/L		10/22/24 14:49	10/25/24 05:58	1
1,2,4-Trichlorobenzene	<0.0764	U	0.570	0.0764	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,4,5-Trichlorophenol	<0.143	U	0.570	0.143	ug/L		10/22/24 14:49	10/25/24 05:58	1
2,4,6-Trichlorophenol	<0.230	U	0.570	0.230	ug/L		10/22/24 14:49	10/25/24 05:58	1
Total Cresols	<0.128	U	0.570	0.128	ug/L		10/22/24 14:49	10/25/24 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*87*		*43 - 130*	*10/22/24 14:49*	*10/25/24 05:58*	*1*
2-Fluorophenol (Surr)	*89*		*19 - 120*	*10/22/24 14:49*	*10/25/24 05:58*	*1*
Nitrobenzene-d5 (Surr)	*137*	*S1+*	*37 - 133*	*10/22/24 14:49*	*10/25/24 05:58*	*1*
Phenol-d5 (Surr)	*71*		*8 - 124*	*10/22/24 14:49*	*10/25/24 05:58*	*1*
p-Terphenyl-d14 (Surr)	*116*		*47 - 130*	*10/22/24 14:49*	*10/25/24 05:58*	*1*
2,4,6-Tribromophenol (Surr)	*118*		*35 - 130*	*10/22/24 14:49*	*10/25/24 05:58*	*1*

Method: ASTM D7065-11 - Determination of Nonylphenols

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	**8.15**		4.86	1.11	ug/L		10/23/24 14:38	10/25/24 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*104*		*58 - 115*	*10/23/24 14:38*	*10/25/24 15:56*	*1*
4-nonylphenol monoethoxylate (Surr)	*114*		*54 - 139*	*10/23/24 14:38*	*10/25/24 15:56*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00113	U	0.0100	0.00113	ug/L		10/23/24 16:07	10/25/24 12:39	1
alpha-BHC	<0.00142	U	0.00900	0.00142	ug/L		10/23/24 16:07	10/25/24 12:39	1
alpha-Endosulfan	<0.00107	U	0.0100	0.00107	ug/L		10/23/24 16:07	10/25/24 12:39	1
beta-BHC	<0.00389	U	0.0180	0.00389	ug/L		10/23/24 16:07	10/25/24 12:39	1
beta-Endosulfan	<0.00122	U	0.0100	0.00122	ug/L		10/23/24 16:07	10/25/24 12:39	1
Chlordane	<0.103	U	0.250	0.103	ug/L		10/23/24 16:07	10/25/24 12:39	1
Chlordane (.alpha.)	<0.00181	U	0.0100	0.00181	ug/L		10/23/24 16:07	10/25/24 12:39	1
4,4'-DDD	<0.000814	U	0.0100	0.000814	ug/L		10/23/24 16:07	10/25/24 12:39	1
4,4'-DDE	<0.00109	U	0.0100	0.00109	ug/L		10/23/24 16:07	10/25/24 12:39	1
4,4'-DDT	<0.00379	U	0.0200	0.00379	ug/L		10/23/24 16:07	10/25/24 12:39	1
delta-BHC	<0.00245	U	0.250	0.00245	ug/L		10/23/24 16:07	10/25/24 12:39	1
Dicofol	<0.0500	U	0.100	0.0500	ug/L		10/23/24 16:07	10/25/24 12:39	1
Dieldrin	<0.000953	U	0.0100	0.000953	ug/L		10/23/24 16:07	10/25/24 12:39	1

Client Sample ID: Temple Belton Effluent

Date Collected: 10/16/24 10:59
Date Received: 10/18/24 09:23

Lab Sample ID: 860-85063-1

Matrix: Water

Method: EPA 608.3 - Organochlorine Pesticides in Water (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	<0.00112	U	0.0100	0.00112	ug/L		10/23/24 16:07	10/25/24 12:39	1
Endrin	<0.00156	U	0.0100	0.00156	ug/L		10/23/24 16:07	10/25/24 12:39	1
Endrin aldehyde	<0.00118	U	0.0100	0.00118	ug/L		10/23/24 16:07	10/25/24 12:39	1
gamma-BHC (Lindane)	<0.00299	U	0.0100	0.00299	ug/L		10/23/24 16:07	10/25/24 12:39	1
Heptachlor	<0.00446	U	0.00900	0.00446	ug/L		10/23/24 16:07	10/25/24 12:39	1
Heptachlor epoxide	<0.00134	U	0.0100	0.00134	ug/L		10/23/24 16:07	10/25/24 12:39	1
Methoxychlor	<0.00390	U	0.0200	0.00390	ug/L		10/23/24 16:07	10/25/24 12:39	1
Mirex	<0.0200	U	0.0200	0.0200	ug/L		10/23/24 16:07	10/25/24 12:39	1
Toxaphene	<0.0769	U	0.200	0.0769	ug/L		10/23/24 16:07	10/25/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*15 - 136*	*10/23/24 16:07*	*10/25/24 12:39*	*1*
Tetrachloro-m-xylene	*72*	*p*	*18 - 126*	*10/23/24 16:07*	*10/25/24 12:39*	*1*

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0125	U *+	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 10:44	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 10:44	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		10/23/24 16:07	10/25/24 10:44	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 10:44	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 10:44	1
PCB-1248	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 10:44	1
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		10/23/24 16:07	10/25/24 10:44	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		10/23/24 16:07	10/25/24 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*130*	*S1+*	*18 - 126*	*10/23/24 16:07*	*10/25/24 10:44*	*1*
DCB Decachlorobiphenyl (Surr)	*102*		*15 - 136*	*10/23/24 16:07*	*10/25/24 10:44*	*1*

Method: EPA-01 615 - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0542	U	0.201	0.0542	ug/L		10/19/24 05:03	10/21/24 15:58	1
Hexachlorophene	<0.813	U	5.03	0.813	ug/L		10/19/24 05:03	10/21/24 15:58	1
Silvex (2,4,5-TP)	<0.0425	U	0.201	0.0425	ug/L		10/19/24 05:03	10/21/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*	*p*	*45 - 150*	*10/19/24 05:03*	*10/21/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**191**	**J**	500	100	ug/L			10/24/24 15:01	1

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		10/21/24 14:03	10/29/24 15:26	1
Diuron	**0.212**		0.0900	0.0514	ug/L		10/21/24 14:03	10/29/24 15:26	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**11.2**	**J**	20.0	3.01	ug/L		10/22/24 22:41	10/23/24 15:15	1
Antimony	<1.05	U	2.00	1.05	ug/L		10/22/24 22:41	10/23/24 15:15	1

Client Sample ID: Temple Belton Effluent

Lab Sample ID: 860-85063-1
Matrix: Water
Date Collected: 10/16/24 10:59
Date Received: 10/18/24 09:23

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.76**	**J**	4.00	0.929	ug/L		10/22/24 22:41	10/23/24 15:15	1
Barium	**52.0**		4.00	0.954	ug/L		10/22/24 22:41	10/23/24 15:15	1
Beryllium	<0.375	U	2.00	0.375	ug/L		10/22/24 22:41	10/23/24 15:15	1
Cadmium	<0.258	U	2.00	0.258	ug/L		10/22/24 22:41	10/23/24 15:15	1
Chromium	**1.16**	**J**	4.00	0.890	ug/L		10/22/24 22:41	10/23/24 15:15	1
Copper	**4.19**		4.00	0.690	ug/L		10/22/24 22:41	10/23/24 15:15	1
Lead	<0.369	U	2.00	0.369	ug/L		10/22/24 22:41	10/23/24 15:15	1
Manganese	**17.8**		2.00	0.525	ug/L		10/22/24 22:41	10/23/24 15:15	1
Molybdenum	**1.45**	**J**	2.00	0.504	ug/L		10/22/24 22:41	10/23/24 15:15	1
Nickel	**2.35**		2.00	0.486	ug/L		10/22/24 22:41	10/23/24 15:15	1
Selenium	**0.832**	**J**	2.00	0.685	ug/L		10/22/24 22:41	10/23/24 15:15	1
Silver	<0.351	U	2.00	0.351	ug/L		10/22/24 22:41	10/23/24 15:15	1
Thallium	<0.215	U	2.00	0.215	ug/L		10/22/24 22:41	10/23/24 15:15	1
Zinc	**48.1**		4.00	0.885	ug/L		10/22/24 22:41	10/23/24 15:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus Total (EPA 365.1)	**411**		20.0	14.3	ug/L			11/01/24 14:00	1
Phenols, Total (EPA 420.4)	<5.80	U	10.0	5.80	ug/L			10/25/24 20:33	1
Trivalent Chromium (SM 3500 CR B)	<2.00	U	10.0	2.00	ug/L			10/28/24 13:24	1
Total Chromium (SM 3500 CR B)	**1.16**	**J**	4.00	0.525	ug/L			10/28/24 13:24	1
Hexavalent chromium (SM 3500 CR B)	<2.00	U	10.0	2.00	ug/L			10/28/24 13:24	1

Client Sample ID: Temple Belton Effluent Grab 1

Lab Sample ID: 860-85063-2
Matrix: Water
Date Collected: 10/15/24 11:00
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00243**		0.000500	0.000490	ug/L			10/28/24 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<1570	U	5000	1570	ug/L			10/24/24 15:08	1

Client Sample ID: Temple Belton Effluent Grab 2

Lab Sample ID: 860-85063-3
Matrix: Water
Date Collected: 10/15/24 17:00
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00161**		0.000500	0.000490	ug/L			10/28/24 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	**2300**	**J**	5000	1570	ug/L			10/24/24 15:08	1

Client Sample ID: Temple Belton Effluent Grab 3
Lab Sample ID: 860-85063-4
Date Collected: 10/15/24 23:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<1570	U	5000	1570	ug/L			10/25/24 10:16	1

Client Sample ID: Temple Belton Effluent Grab 4
Lab Sample ID: 860-85063-5
Date Collected: 10/16/24 05:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 10:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	<1570	U	5000	1570	ug/L			10/25/24 10:16	1

Client Sample ID: Temple Belton Effluent Lab Composite
Lab Sample ID: 860-85063-6
Date Collected: 10/16/24 05:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<11.1	U H	50.0	11.1	ug/L			10/23/24 12:57	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			10/23/24 12:57	1
Benzene	<0.460	U	1.00	0.460	ug/L			10/23/24 12:57	1
Bromoform	<0.633	U	5.00	0.633	ug/L			10/23/24 12:57	1
Methyl ethyl ketone (MEK)	<8.28	U	50.0	8.28	ug/L			10/23/24 12:57	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			10/23/24 12:57	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			10/23/24 12:57	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			10/23/24 12:57	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			10/23/24 12:57	1
2-Chloroethyl vinyl ether	<0.753	U	5.00	0.753	ug/L			10/23/24 12:57	1
Chloroform	**4.86**		1.00	0.464	ug/L			10/23/24 12:57	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			10/23/24 12:57	1
1,1-Dichlorethylene	<0.738	U	1.00	0.738	ug/L			10/23/24 12:57	1
Dichlorobromomethane	**1.89**		1.00	0.552	ug/L			10/23/24 12:57	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			10/23/24 12:57	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			10/23/24 12:57	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			10/23/24 12:57	1
1,3-Dichloropropylene	<1.27	U	5.00	1.27	ug/L			10/23/24 12:57	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			10/23/24 12:57	1
Methyl bromide	<1.42	U	5.00	1.42	ug/L			10/23/24 12:57	1
Methyl chloride	<2.04	U	10.0	2.04	ug/L			10/23/24 12:57	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			10/23/24 12:57	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			10/23/24 12:57	1
Tetrachloroethylene	<0.655	U	1.00	0.655	ug/L			10/23/24 12:57	1
Toluene	<0.475	U	1.00	0.475	ug/L			10/23/24 12:57	1
1,2-trans-Dichloroethylene	<0.368	U	1.00	0.368	ug/L			10/23/24 12:57	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			10/23/24 12:57	1

Client Sample ID: Temple Belton Effluent Lab Composite

Lab Sample ID: 860-85063-6
Date Collected: 10/16/24 05:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			10/23/24 12:57	1
Trichloroethylene	<1.50	U	5.00	1.50	ug/L			10/23/24 12:57	1
Trihalomethanes, Total	**6.75**		5.00	0.633	ug/L			10/23/24 12:57	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			10/23/24 12:57	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			10/23/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*74 - 124*		*10/23/24 12:57*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 131*		*10/23/24 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*63 - 144*		*10/23/24 12:57*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/23/24 12:57*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA Kelada 01)	**18.8**		5.00	1.98	ug/L			10/23/24 15:46	1
Cyanide, Available (EPA OIA - 1677)	**3.32**		2.00	1.56	ug/L			10/24/24 16:49	1

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 1

Lab Sample ID: 860-85063-7
Date Collected: 10/15/24 11:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 11:17	1

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 2

Lab Sample ID: 860-85063-8
Date Collected: 10/15/24 17:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 11:22	1

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 3

Lab Sample ID: 860-85063-9
Date Collected: 10/15/24 23:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 11:27	1

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 4

Lab Sample ID: 860-85063-10
Date Collected: 10/16/24 05:00
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 11:32	1

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Client Sample ID: Temple Belton Effluent
Lab Sample ID: 860-85065-1
Date Collected: 10/16/24 10:59
Matrix: Water
Date Received: 10/18/24 09:23

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate	6620	H	100	39.1	ug/L			10/22/24 03:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent (SM3500 CR B)	<2.00	U	10.0	2.00	ug/L			10/25/24 17:43	1

Action Limit Summary

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

Client Sample ID: Temple Belton Effluent

Lab Sample ID: 860-85063-1

Compliance Check

The results obtained from the analytical testing of this data set were checked against compliance limits received from the client. Any results at or above the compliance limits have been highlighted for your convenience.

Analyte	Result	Qualifier	Unit	BRA Limits Limit	RL	Method	Prep Type
Pentachlorophenol	<1.04	U	ug/L	1	1.14	625.1	Total/NA
Aldrin	<0.00113	U	ug/L	0.01	0.0100	608.3	Total/NA
alpha-Endosulfan	<0.00107	U	ug/L	0.01	0.0100	608.3	Total/NA
beta-BHC	<0.00389	U	ug/L	0.05	0.0180	608.3	Total/NA
beta-Endosulfan	<0.00122	U	ug/L	0.02	0.0100	608.3	Total/NA
delta-BHC	<0.00245	U	ug/L	0.05	0.250	608.3	Total/NA
Dieldrin	<0.000953	U	ug/L	0.02	0.0100	608.3	Total/NA
Endrin	<0.00156	U	ug/L	0.02	0.0100	608.3	Total/NA
Heptachlor	<0.00446	U	ug/L	0.01	0.00900	608.3	Total/NA
Heptachlor epoxide	<0.00134	U	ug/L	0.01	0.0100	608.3	Total/NA
Toxaphene	<0.0769	U	ug/L	0.3	0.200	608.3	Total/NA
PCB-1016	<0.0125	U *+	ug/L	0.5	0.100	608.3	Total/NA
PCB-1242	<0.0125	U	ug/L	0.5	0.100	608.3	Total/NA
PCB-1254	<0.00780	U	ug/L	0.5	0.100	608.3	Total/NA
PCB-1221	<0.0125	U	ug/L	0.5	0.100	608.3	Total/NA
PCB-1232	<0.0125	U	ug/L	0.5	0.100	608.3	Total/NA
PCB-1248	<0.0125	U	ug/L	0.5	0.100	608.3	Total/NA
PCB-1260	<0.00780	U	ug/L	0.5	0.100	608.3	Total/NA
Aluminum	**11.2**	**J**	ug/L	**2.5**	20.0	200.8	Total Recoverable
Arsenic	**1.76**	**J**	ug/L	**0.5**	4.00	200.8	Total Recoverable
Barium	**52.0**		ug/L	**3**	4.00	200.8	Total Recoverable
Beryllium	<0.375	U	ug/L	0.5	2.00	200.8	Total Recoverable
Cadmium	<0.258	U	ug/L	1	2.00	200.8	Total Recoverable
Chromium	1.16	J	ug/L	3	4.00	200.8	Total Recoverable
Copper	**4.19**		ug/L	**1**	4.00	200.8	Total Recoverable
Lead	<0.369	U	ug/L	0.5	2.00	200.8	Total Recoverable
Silver	<0.351	U	ug/L	0.5	2.00	200.8	Total Recoverable
Thallium	<0.215	U	ug/L	0.5	2.00	200.8	Total Recoverable
Total Chromium	1.16	J	ug/L	3	4.00	SM 3500 CR B	Total/NA
Hexavalent chromium	<2.00	U	ug/L	2	10.0	SM 3500 CR B	Total/NA

Surrogate Summary

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(74-124)	(75-131)	(63-144)	(80-120)
860-85063-6	Temple Belton Effluent Lab Com	106	103	105	102
LCS 860-195257/3	Lab Control Sample	103	103	100	100
LCSD 860-195257/4	Lab Control Sample Dup	103	103	101	101
MB 860-195257/10	Method Blank	101	101	103	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPHd14	TBP
Lab Sample ID	Client Sample ID	(43-130)	(19-120)	(37-133)	(8-124)	(47-130)	(35-130)
860-85063-1	Temple Belton Effluent	87	89	137 S1+	71	116	118
LCS 860-195146/2-A	Lab Control Sample	60	24	73	22	54	44
LCS 860-195146/4-A	Lab Control Sample	112	43	131	44	101	74
LCSD 860-195146/3-A	Lab Control Sample Dup	66	25	81	23	58	50
LCSD 860-195146/5-A	Lab Control Sample Dup	110	50	137 S1+	51	111	77
MB 860-195146/1-A	Method Blank	44	23	54	22	45 S1-	32 S1-

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: D7065-11 - Determination of Nonylphenols

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		4NPH	4NPME
Lab Sample ID	Client Sample ID	(58-115)	(54-139)
860-85063-1	Temple Belton Effluent	104	114
LCS 280-672179/2-A	Lab Control Sample	103	102
LCSD 280-672179/3-A	Lab Control Sample Dup	112	112
MB 280-672179/1-A	Method Blank	74	84

Surrogate Legend

4NPH = 4-nonylphenol (Surr)
4NPME = 4-nonylphenol monoethoxylate (Surr)

Surrogate Summary

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2	TCX2								
Lab Sample ID	Client Sample ID	(15-136)	(18-126)								
860-85063-1	Temple Belton Effluent	81	72 p								
LCS 860-195435/2-A	Lab Control Sample	107	107								
LCSD 860-195435/3-A	Lab Control Sample Dup	101	98								
MB 860-195435/1-A	Method Blank	129	127 S1+								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX1	DCB1								
Lab Sample ID	Client Sample ID	(18-126)	(15-136)								
860-85063-1	Temple Belton Effluent	130 S1+	102								
LCS 860-195435/4-A	Lab Control Sample	104	111								
LCSD 860-195435/5-A	Lab Control Sample Dup	110	110								
MB 860-195435/1-A	Method Blank	107	109								

Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)
DCB = DCB Decachlorobiphenyl (Surr)

Method: 615 - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA2									
Lab Sample ID	Client Sample ID	(45-150)									
860-85063-1	Temple Belton Effluent	94 p									
LCS 860-194619/2-A	Lab Control Sample	93									
LCS 860-194619/4-A	Lab Control Sample	84									
LCSD 860-194619/3-A	Lab Control Sample Dup	99									
LCSD 860-194619/5-A	Lab Control Sample Dup	83									
MB 860-194619/1-A	Method Blank	94									

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-195257/10
Matrix: Water
Analysis Batch: 195257

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<11.1	U	50.0	11.1	ug/L			10/23/24 09:42	1
Acrylonitrile	<14.3	U	50.0	14.3	ug/L			10/23/24 09:42	1
Benzene	<0.460	U	1.00	0.460	ug/L			10/23/24 09:42	1
Bromoform	<0.633	U	5.00	0.633	ug/L			10/23/24 09:42	1
Methyl ethyl ketone (MEK)	<8.28	U	50.0	8.28	ug/L			10/23/24 09:42	1
Carbon tetrachloride	<0.896	U	5.00	0.896	ug/L			10/23/24 09:42	1
Chlorobenzene	<0.455	U	1.00	0.455	ug/L			10/23/24 09:42	1
Chlorodibromomethane	<0.547	U	5.00	0.547	ug/L			10/23/24 09:42	1
Chloroethane	<1.98	U	10.0	1.98	ug/L			10/23/24 09:42	1
2-Chloroethyl vinyl ether	<0.753	U	5.00	0.753	ug/L			10/23/24 09:42	1
Chloroform	<0.464	U	1.00	0.464	ug/L			10/23/24 09:42	1
1,2-Dibromoethane	<0.999	U	5.00	0.999	ug/L			10/23/24 09:42	1
1,1-Dichlorethylene	<0.738	U	1.00	0.738	ug/L			10/23/24 09:42	1
Dichlorobromomethane	<0.552	U	1.00	0.552	ug/L			10/23/24 09:42	1
1,1-Dichloroethane	<0.635	U	1.00	0.635	ug/L			10/23/24 09:42	1
1,2-Dichloroethane	<0.372	U	1.00	0.372	ug/L			10/23/24 09:42	1
1,2-Dichloropropane	<0.556	U	5.00	0.556	ug/L			10/23/24 09:42	1
1,3-Dichloropropylene	<1.27	U	5.00	1.27	ug/L			10/23/24 09:42	1
Ethylbenzene	<0.385	U	1.00	0.385	ug/L			10/23/24 09:42	1
Methyl bromide	<1.42	U	5.00	1.42	ug/L			10/23/24 09:42	1
Methyl chloride	<2.04	U	10.0	2.04	ug/L			10/23/24 09:42	1
Methylene Chloride	<1.73	U	5.00	1.73	ug/L			10/23/24 09:42	1
1,1,2,2-Tetrachloroethane	<0.470	U	1.00	0.470	ug/L			10/23/24 09:42	1
Tetrachloroethylene	<0.655	U	1.00	0.655	ug/L			10/23/24 09:42	1
Toluene	<0.475	U	1.00	0.475	ug/L			10/23/24 09:42	1
1,2-trans-Dichloroethylene	<0.368	U	1.00	0.368	ug/L			10/23/24 09:42	1
1,1,1-Trichloroethane	<0.585	U	5.00	0.585	ug/L			10/23/24 09:42	1
1,1,2-Trichloroethane	<0.411	U	1.00	0.411	ug/L			10/23/24 09:42	1
Trichloroethylene	<1.50	U	5.00	1.50	ug/L			10/23/24 09:42	1
Trihalomethanes, Total	<0.633	U	5.00	0.633	ug/L			10/23/24 09:42	1
Vinyl chloride	<0.428	U	2.00	0.428	ug/L			10/23/24 09:42	1
trans-1,3-Dichloropropene	<1.27	U	5.00	1.27	ug/L			10/23/24 09:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*10/23/24 09:42*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 131*		*10/23/24 09:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*		*10/23/24 09:42*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*10/23/24 09:42*	*1*

Lab Sample ID: LCS 860-195257/3
Matrix: Water
Analysis Batch: 195257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acrolein			250	159.6		ug/L		64	60 - 140		
Acrylonitrile			500	472.4		ug/L		94	60 - 140		
Benzene			50.0	42.80		ug/L		86	75 - 125		
Bromoform			50.0	44.50		ug/L		89	70 - 130		

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 860-195257/3
Matrix: Water
Analysis Batch: 195257

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl ethyl ketone (MEK)	250	209.3		ug/L		84	60 - 140
Carbon tetrachloride	50.0	43.86		ug/L		88	70 - 125
Chlorobenzene	50.0	41.59		ug/L		83	82 - 135
Chlorodibromomethane	50.0	43.18		ug/L		86	73 - 125
Chloroethane	50.0	43.59		ug/L		87	60 - 140
2-Chloroethyl vinyl ether	50.0	47.68		ug/L		95	50 - 150
Chloroform	50.0	43.89		ug/L		88	70 - 121
cis-1,3-Dichloropropene	50.0	43.82		ug/L		88	74 - 125
1,2-Dibromoethane	50.0	43.55		ug/L		87	73 - 125
1,1-Dichlorethylene	50.0	39.69		ug/L		79	50 - 150
Dichlorobromomethane	50.0	43.23		ug/L		86	75 - 125
1,1-Dichloroethane	50.0	43.70		ug/L		87	71 - 130
1,2-Dichloroethane	50.0	43.07		ug/L		86	72 - 130
1,2-Dichloropropane	50.0	43.72		ug/L		87	74 - 125
Ethylbenzene	50.0	42.32		ug/L		85	75 - 125
Methyl bromide	50.0	40.72		ug/L		81	60 - 140
Methyl chloride	50.0	39.96		ug/L		80	60 - 140
Methylene Chloride	50.0	45.12		ug/L		90	71 - 125
1,1,2,2-Tetrachloroethane	50.0	43.62		ug/L		87	74 - 125
Tetrachloroethylene	50.0	41.11		ug/L		82	71 - 125
Toluene	50.0	42.29		ug/L		85	75 - 130
1,2-trans-Dichloroethylene	50.0	43.09		ug/L		86	75 - 125
1,1,1-Trichloroethane	50.0	43.02		ug/L		86	70 - 130
1,1,2-Trichloroethane	50.0	44.21		ug/L		88	75 - 130
Trichloroethylene	50.0	41.83		ug/L		84	75 - 135
Vinyl chloride	50.0	41.07		ug/L		82	60 - 140
trans-1,3-Dichloropropene	50.0	44.41		ug/L		89	66 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*63 - 144*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-195257/4
Matrix: Water
Analysis Batch: 195257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acrolein	250	180.9		ug/L		72	60 - 140	13	25
Acrylonitrile	500	531.9		ug/L		106	60 - 140	12	25
Benzene	50.0	49.67		ug/L		99	75 - 125	15	25
Bromoform	50.0	51.45		ug/L		103	70 - 130	14	25
Methyl ethyl ketone (MEK)	250	243.1		ug/L		97	60 - 140	15	25
Carbon tetrachloride	50.0	52.85		ug/L		106	70 - 125	19	25
Chlorobenzene	50.0	48.30		ug/L		97	82 - 135	15	25
Chlorodibromomethane	50.0	50.34		ug/L		101	73 - 125	15	25
Chloroethane	50.0	44.32		ug/L		89	60 - 140	2	25

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 860-195257/4
Matrix: Water
Analysis Batch: 195257

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Chloroethyl vinyl ether			50.0	54.68		ug/L		109	50 - 150	14	25
Chloroform			50.0	50.82		ug/L		102	70 - 121	15	25
cis-1,3-Dichloropropene			50.0	51.66		ug/L		103	74 - 125	16	25
1,2-Dibromoethane			50.0	50.01		ug/L		100	73 - 125	14	25
1,1-Dichlorethylene			50.0	45.07		ug/L		90	50 - 150	13	25
Dichlorobromomethane			50.0	49.95		ug/L		100	75 - 125	14	25
1,1-Dichloroethane			50.0	52.88		ug/L		106	71 - 130	19	25
1,2-Dichloroethane			50.0	49.84		ug/L		100	72 - 130	15	25
1,2-Dichloropropane			50.0	51.12		ug/L		102	74 - 125	16	25
Ethylbenzene			50.0	49.22		ug/L		98	75 - 125	15	25
Methyl bromide			50.0	43.24		ug/L		86	60 - 140	6	25
Methyl chloride			50.0	42.55		ug/L		85	60 - 140	6	25
Methylene Chloride			50.0	53.09		ug/L		106	71 - 125	16	25
1,1,2,2-Tetrachloroethane			50.0	49.91		ug/L		100	74 - 125	13	25
Tetrachloroethylene			50.0	48.22		ug/L		96	71 - 125	16	25
Toluene			50.0	48.96		ug/L		98	75 - 130	15	25
1,2-trans-Dichloroethylene			50.0	50.92		ug/L		102	75 - 125	17	25
1,1,1-Trichloroethane			50.0	49.86		ug/L		100	70 - 130	15	25
1,1,2-Trichloroethane			50.0	50.20		ug/L		100	75 - 130	13	25
Trichloroethylene			50.0	48.92		ug/L		98	75 - 135	16	25
Vinyl chloride			50.0	43.67		ug/L		87	60 - 140	6	25
trans-1,3-Dichloropropene			50.0	51.64		ug/L		103	66 - 125	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*74 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 860-195146/1-A
Matrix: Water
Analysis Batch: 195750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.107	U	0.571	0.107	ug/L		10/22/24 14:49	10/25/24 03:55	1
Acenaphthylene	<0.0996	U	0.571	0.0996	ug/L		10/22/24 14:49	10/25/24 03:55	1
Anthracene	<0.0938	U	0.571	0.0938	ug/L		10/22/24 14:49	10/25/24 03:55	1
Benzidine	<0.0900	U	1.14	0.0900	ug/L		10/22/24 14:49	10/25/24 03:55	1
Benzo[a]anthracene	0.01042	J	0.114	0.00953	ug/L		10/22/24 14:49	10/25/24 03:55	1
Benzo[a]pyrene	<0.0100	U	0.114	0.0100	ug/L		10/22/24 14:49	10/25/24 03:55	1
Benzo[b]fluoranthene	<0.0664	U	0.571	0.0664	ug/L		10/22/24 14:49	10/25/24 03:55	1
Benzo[g,h,i]perylene	<0.0345	U	0.571	0.0345	ug/L		10/22/24 14:49	10/25/24 03:55	1
Benzo[k]fluoranthene	<0.0473	U	0.571	0.0473	ug/L		10/22/24 14:49	10/25/24 03:55	1
Bis(2-chloroethoxy)methane	<0.0974	U	0.571	0.0974	ug/L		10/22/24 14:49	10/25/24 03:55	1
Bis(2-chloroethyl)ether	<0.214	U	0.571	0.214	ug/L		10/22/24 14:49	10/25/24 03:55	1
bis (2-chloroisopropyl) ether	0.9270	I	0.571	0.128	ug/L		10/22/24 14:49	10/25/24 03:55	1
Bis(2-ethylhexyl) phthalate	<1.43	U	2.86	1.43	ug/L		10/22/24 14:49	10/25/24 03:55	1

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-195146/1-A
Matrix: Water
Analysis Batch: 195750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<0.100	U	0.571	0.100	ug/L		10/22/24 14:49	10/25/24 03:55	1
Butyl benzyl phthalate	<1.43	U	2.86	1.43	ug/L		10/22/24 14:49	10/25/24 03:55	1
2-Chloronaphthalene	<0.378	U	0.571	0.378	ug/L		10/22/24 14:49	10/25/24 03:55	1
2-Chlorophenol	<0.0756	U	0.571	0.0756	ug/L		10/22/24 14:49	10/25/24 03:55	1
4-Chlorophenyl phenyl ether	<0.130	U	0.571	0.130	ug/L		10/22/24 14:49	10/25/24 03:55	1
Chlorpyrifos	<0.0159	U	0.0571	0.0159	ug/L		10/22/24 14:49	10/25/24 03:55	1
Chrysene	<0.0815	U	0.571	0.0815	ug/L		10/22/24 14:49	10/25/24 03:55	1
Dibenz(a,h)anthracene	<0.0509	U	0.114	0.0509	ug/L		10/22/24 14:49	10/25/24 03:55	1
1,2-Dichlorobenzene	<0.0941	U	0.571	0.0941	ug/L		10/22/24 14:49	10/25/24 03:55	1
1,3-Dichlorobenzene	<0.102	U	0.571	0.102	ug/L		10/22/24 14:49	10/25/24 03:55	1
1,4-Dichlorobenzene	<0.0779	U	0.571	0.0779	ug/L		10/22/24 14:49	10/25/24 03:55	1
3,3'-Dichlorobenzidine	<0.183	U	0.571	0.183	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,4-Dichlorophenol	<0.140	U	0.571	0.140	ug/L		10/22/24 14:49	10/25/24 03:55	1
Diethyl phthalate	<1.43	U	2.86	1.43	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,4-Dimethylphenol	<0.192	U	0.571	0.192	ug/L		10/22/24 14:49	10/25/24 03:55	1
Dimethyl phthalate	<1.43	U	2.86	1.43	ug/L		10/22/24 14:49	10/25/24 03:55	1
Di-n-butyl phthalate	<1.43	U	2.86	1.43	ug/L		10/22/24 14:49	10/25/24 03:55	1
4,6-Dinitro-o-cresol	<0.201	U	1.14	0.201	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,4-Dinitrophenol	<0.104	U	2.86	0.104	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,4-Dinitrotoluene	<0.205	U	0.571	0.205	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,6-Dinitrotoluene	<0.116	U	0.571	0.116	ug/L		10/22/24 14:49	10/25/24 03:55	1
Di-n-octyl phthalate	<1.43	U	2.86	1.43	ug/L		10/22/24 14:49	10/25/24 03:55	1
1,2-Diphenylhydrazine	<0.286	U	0.571	0.286	ug/L		10/22/24 14:49	10/25/24 03:55	1
Fluoranthene	<0.0883	U	0.571	0.0883	ug/L		10/22/24 14:49	10/25/24 03:55	1
Fluorene	<0.0948	U	0.571	0.0948	ug/L		10/22/24 14:49	10/25/24 03:55	1
Hexachlorobenzene	<0.0975	U	0.571	0.0975	ug/L		10/22/24 14:49	10/25/24 03:55	1
Hexachlorobutadiene	<0.103	U	0.571	0.103	ug/L		10/22/24 14:49	10/25/24 03:55	1
Hexachlorocyclopentadiene	<0.0512	U	0.571	0.0512	ug/L		10/22/24 14:49	10/25/24 03:55	1
Hexachloroethane	<0.102	U	0.571	0.102	ug/L		10/22/24 14:49	10/25/24 03:55	1
Indeno[1,2,3-cd]pyrene	<0.100	U	0.571	0.100	ug/L		10/22/24 14:49	10/25/24 03:55	1
Isophorone	<0.107	U	0.571	0.107	ug/L		10/22/24 14:49	10/25/24 03:55	1
m & p - Cresol	<0.139	U	0.571	0.139	ug/L		10/22/24 14:49	10/25/24 03:55	1
Naphthalene	<0.0944	U	0.571	0.0944	ug/L		10/22/24 14:49	10/25/24 03:55	1
Nitrobenzene	<0.0736	U	0.571	0.0736	ug/L		10/22/24 14:49	10/25/24 03:55	1
2-Nitrophenol	<0.136	U	0.571	0.136	ug/L		10/22/24 14:49	10/25/24 03:55	1
4-Nitrophenol	<0.135	U	0.571	0.135	ug/L		10/22/24 14:49	10/25/24 03:55	1
N-Nitrosodiethylamine	<0.538	U	1.14	0.538	ug/L		10/22/24 14:49	10/25/24 03:55	1
N-Nitrosodimethylamine	<0.100	U	0.571	0.100	ug/L		10/22/24 14:49	10/25/24 03:55	1
N-Nitrosodi-n-butylamine	<0.516	U	1.14	0.516	ug/L		10/22/24 14:49	10/25/24 03:55	1
N-Nitrosodi-n-propylamine	<0.119	U	0.571	0.119	ug/L		10/22/24 14:49	10/25/24 03:55	1
N-Nitrosodiphenylamine	<0.145	U	0.571	0.145	ug/L		10/22/24 14:49	10/25/24 03:55	1
o-Cresol	<0.105	U	0.571	0.105	ug/L		10/22/24 14:49	10/25/24 03:55	1
p-Chloro-m-cresol	<0.104	U	0.571	0.104	ug/L		10/22/24 14:49	10/25/24 03:55	1
Pentachlorobenzene	<0.266	U	0.571	0.266	ug/L		10/22/24 14:49	10/25/24 03:55	1
Pentachlorophenol	<1.04	U	1.14	1.04	ug/L		10/22/24 14:49	10/25/24 03:55	1
Phenanthrene	<0.134	U	0.571	0.134	ug/L		10/22/24 14:49	10/25/24 03:55	1
Phenol	<0.448	U	2.86	0.448	ug/L		10/22/24 14:49	10/25/24 03:55	1
Pyrene	<0.0849	U	0.571	0.0849	ug/L		10/22/24 14:49	10/25/24 03:55	1
Pyridine	<1.44	U	2.86	1.44	ug/L		10/22/24 14:49	10/25/24 03:55	1

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 860-195146/1-A
Matrix: Water
Analysis Batch: 195750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<0.0957	U	0.571	0.0957	ug/L		10/22/24 14:49	10/25/24 03:55	1
1,2,4-Trichlorobenzene	<0.0766	U	0.571	0.0766	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,4,5-Trichlorophenol	<0.143	U	0.571	0.143	ug/L		10/22/24 14:49	10/25/24 03:55	1
2,4,6-Trichlorophenol	<0.231	U	0.571	0.231	ug/L		10/22/24 14:49	10/25/24 03:55	1
Total Cresols	<0.128	U	0.571	0.128	ug/L		10/22/24 14:49	10/25/24 03:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*44*		*43 - 130*	*10/22/24 14:49*	*10/25/24 03:55*	*1*
2-Fluorophenol (Surr)	*23*		*19 - 120*	*10/22/24 14:49*	*10/25/24 03:55*	*1*
Nitrobenzene-d5 (Surr)	*54*		*37 - 133*	*10/22/24 14:49*	*10/25/24 03:55*	*1*
Phenol-d5 (Surr)	*22*		*8 - 124*	*10/22/24 14:49*	*10/25/24 03:55*	*1*
p-Terphenyl-d14 (Surr)	*45*	*S1-*	*47 - 130*	*10/22/24 14:49*	*10/25/24 03:55*	*1*
2,4,6-Tribromophenol (Surr)	*32*	*S1-*	*35 - 130*	*10/22/24 14:49*	*10/25/24 03:55*	*1*

Lab Sample ID: LCS 860-195146/2-A
Matrix: Water
Analysis Batch: 195382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	2.86	2.940		ug/L		103	60 - 132
Acenaphthylene	2.86	3.493		ug/L		122	54 - 126
Anthracene	2.86	2.853		ug/L		100	43 - 120
Benzidine	2.86	0.9327	J	ug/L		33	11 - 110
Benzo[a]anthracene	2.86	3.094	B	ug/L		108	42 - 133
Benzo[a]pyrene	2.86	2.904		ug/L		102	32 - 148
Benzo[b]fluoranthene	2.86	2.591		ug/L		91	42 - 140
Benzo[g,h,i]perylene	2.86	2.583		ug/L		90	25 - 195
Benzo[k]fluoranthene	2.86	2.641		ug/L		92	25 - 146
Bis(2-chloroethoxy)methane	2.86	3.272	I	ug/L		115	49 - 165
Bis(2-chloroethyl)ether	2.86	2.549		ug/L		89	43 - 126
bis (2-chloroisopropyl) ether	2.86	1.960	B	ug/L		69	63 - 139
Bis(2-ethylhexyl) phthalate	2.86	3.009		ug/L		105	29 - 137
4-Bromophenyl phenyl ether	2.86	2.586		ug/L		90	65 - 120
Butyl benzyl phthalate	2.86	2.623	J	ug/L		92	70 - 130
2-Chloronaphthalene	2.86	2.362		ug/L		83	65 - 120
2-Chlorophenol	2.86	2.539		ug/L		89	36 - 120
4-Chlorophenyl phenyl ether	2.86	2.546		ug/L		89	38 - 145
Chrysene	2.86	2.537		ug/L		89	47 - 130
Dibenz(a,h)anthracene	2.86	2.513		ug/L		88	32 - 200
1,2-Dichlorobenzene	2.86	2.033		ug/L		71	32 - 130
1,3-Dichlorobenzene	2.86	2.002		ug/L		70	26 - 130
1,4-Dichlorobenzene	2.86	1.927		ug/L		67	28 - 130
3,3'-Dichlorobenzidine	2.86	2.478		ug/L		87	20 - 150
2,4-Dichlorophenol	2.86	2.904		ug/L		102	53 - 122
Diethyl phthalate	2.86	2.846	J	ug/L		100	62 - 120
2,4-Dimethylphenol	2.86	4.923	*+	ug/L		172	42 - 120
Dimethyl phthalate	2.86	3.260		ug/L		114	67 - 120
Di-n-butyl phthalate	2.86	3.031		ug/L		106	8 - 120

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 860-195146/2-A
Matrix: Water
Analysis Batch: 195382

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195146

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-o-cresol	2.86	0.8665	J *-	ug/L		30	53 - 130
2,4-Dinitrophenol	2.86	0.9394	J	ug/L		33	26 - 173
2,4-Dinitrotoluene	2.86	2.584		ug/L		90	48 - 127
2,6-Dinitrotoluene	2.86	3.432		ug/L		120	68 - 137
Di-n-octyl phthalate	2.86	3.098		ug/L		108	19 - 132
1,2-Diphenylhydrazine	2.86	2.459		ug/L		86	48 - 130
Fluoranthene	2.86	2.721		ug/L		95	43 - 121
Fluorene	2.86	3.076		ug/L		108	70 - 120
Hexachlorobenzene	2.86	2.609		ug/L		91	8 - 142
Hexachlorobutadiene	2.86	1.913		ug/L		67	38 - 120
Hexachlorocyclopentadiene	2.86	6.265	*+	ug/L		219	10 - 130
Hexachloroethane	2.86	1.709		ug/L		60	55 - 120
Indeno[1,2,3-cd]pyrene	2.86	2.567		ug/L		90	29 - 151
Isophorone	2.86	3.376		ug/L		118	47 - 180
m & p - Cresol	2.86	2.159		ug/L		76	22 - 130
Naphthalene	2.86	2.752		ug/L		96	36 - 120
Nitrobenzene	2.86	3.235		ug/L		113	54 - 130
2-Nitrophenol	2.86	2.478		ug/L		87	45 - 167
4-Nitrophenol	2.86	0.3308	J *-	ug/L		12	13 - 129
N-Nitrosodiethylamine	2.86	2.621		ug/L		92	54 - 130
N-Nitrosodimethylamine	2.86	0.6423	*-	ug/L		22	30 - 130
N-Nitrosodi-n-butylamine	2.86	3.930	*+	ug/L		138	58 - 130
N-Nitrosodi-n-propylamine	2.86	2.790		ug/L		98	14 - 198
N-Nitrosodiphenylamine	2.86	3.171		ug/L		111	60 - 130
o-Cresol	2.86	2.486		ug/L		87	14 - 176
p-Chloro-m-cresol	2.86	3.108		ug/L		109	41 - 128
Pentachlorobenzene	2.86	2.375		ug/L		83	47 - 130
Pentachlorophenol	2.86	1.964		ug/L		69	38 - 152
Phenanthrene	2.86	3.043		ug/L		106	65 - 120
Phenol	2.86	0.9354	J I	ug/L		33	17 - 120
Pyrene	2.86	2.471		ug/L		86	70 - 120
Pyridine	2.86	1.476	J	ug/L		52	1 - 126
1,2,4,5-Tetrachlorobenzene	2.86	1.926		ug/L		67	52 - 130
1,2,4-Trichlorobenzene	2.86	2.255		ug/L		79	57 - 130
2,4,5-Trichlorophenol	2.86	2.465		ug/L		86	35 - 130
2,4,6-Trichlorophenol	2.86	1.799		ug/L		63	52 - 129
Total Cresols	5.71	4.645		ug/L		81	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*60*		*43 - 130*
2-Fluorophenol (Surr)	*24*		*19 - 120*
Nitrobenzene-d5 (Surr)	*73*		*37 - 133*
Phenol-d5 (Surr)	*22*		*8 - 124*
p-Terphenyl-d14 (Surr)	*54*		*47 - 130*
2,4,6-Tribromophenol (Surr)	*44*		*35 - 130*

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 860-195146/4-A
Matrix: Water
Analysis Batch: 195750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chlorpyrifos			2.86	4.848	*+	ug/L		170	34 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*112*		*43 - 130*
2-Fluorophenol (Surr)	*43*		*19 - 120*
Nitrobenzene-d5 (Surr)	*131*		*37 - 133*
Phenol-d5 (Surr)	*44*		*8 - 124*
p-Terphenyl-d14 (Surr)	*101*		*47 - 130*
2,4,6-Tribromophenol (Surr)	*74*		*35 - 130*

Lab Sample ID: LCSD 860-195146/3-A
Matrix: Water
Analysis Batch: 195382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			2.86	3.039		ug/L		106	60 - 132	3	29
Acenaphthylene			2.86	3.772	*+	ug/L		132	54 - 126	8	30
Anthracene			2.86	3.174		ug/L		111	43 - 120	11	30
Benzidine			2.86	1.056	J	ug/L		37	11 - 110	12	30
Benzo[a]anthracene			2.86	3.429	B	ug/L		120	42 - 133	10	30
Benzo[a]pyrene			2.86	2.970		ug/L		104	32 - 148	2	30
Benzo[b]fluoranthene			2.86	2.671		ug/L		93	42 - 140	3	30
Benzo[g,h,i]perylene			2.86	2.574		ug/L		90	25 - 195	0	30
Benzo[k]fluoranthene			2.86	2.689		ug/L		94	25 - 146	2	30
Bis(2-chloroethoxy)methane			2.86	3.444		ug/L		121	49 - 165	5	30
Bis(2-chloroethyl)ether			2.86	2.660		ug/L		93	43 - 126	4	30
bis (2-chloroisopropyl) ether			2.86	4.312	*+ *1 B	ug/L		151	63 - 139	75	30
Bis(2-ethylhexyl) phthalate			2.86	3.322		ug/L		116	29 - 137	10	30
4-Bromophenyl phenyl ether			2.86	2.779		ug/L		97	65 - 120	7	26
Butyl benzyl phthalate			2.86	2.941		ug/L		103	70 - 130	11	30
2-Chloronaphthalene			2.86	2.867	*1	ug/L		100	65 - 120	19	15
2-Chlorophenol			2.86	2.615		ug/L		92	36 - 120	3	30
4-Chlorophenyl phenyl ether			2.86	2.657		ug/L		93	38 - 145	4	30
Chrysene			2.86	2.659		ug/L		93	47 - 130	5	30
Dibenz(a,h)anthracene			2.86	2.584		ug/L		90	32 - 200	3	30
1,2-Dichlorobenzene			2.86	2.115		ug/L		74	32 - 130	4	30
1,3-Dichlorobenzene			2.86	2.051		ug/L		72	26 - 130	2	30
1,4-Dichlorobenzene			2.86	2.064		ug/L		72	28 - 130	7	30
3,3'-Dichlorobenzidine			2.86	2.664		ug/L		93	20 - 150	7	30
2,4-Dichlorophenol			2.86	3.060		ug/L		107	53 - 122	5	30
Diethyl phthalate			2.86	3.069		ug/L		107	62 - 120	8	30
2,4-Dimethylphenol			2.86	5.087	*+	ug/L		178	42 - 120	3	30
Dimethyl phthalate			2.86	3.509	*+	ug/L		123	67 - 120	7	30
Di-n-butyl phthalate			2.86	3.360		ug/L		118	8 - 120	10	28
4,6-Dinitro-o-cresol			2.86	0.8473	J *-	ug/L		30	53 - 130	2	30
2,4-Dinitrophenol			2.86	0.9198	J	ug/L		32	26 - 173	2	30
2,4-Dinitrotoluene			2.86	2.768		ug/L		97	48 - 127	7	25
2,6-Dinitrotoluene			2.86	3.700		ug/L		129	68 - 137	8	29

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-195146/3-A
Matrix: Water
Analysis Batch: 195382

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Di-n-octyl phthalate			2.86	3.398		ug/L		119	19 - 132	9	30
1,2-Diphenylhydrazine			2.86	2.757		ug/L		97	48 - 130	11	30
Fluoranthene			2.86	3.054		ug/L		107	43 - 121	12	30
Fluorene			2.86	3.334		ug/L		117	70 - 120	8	23
Hexachlorobenzene			2.86	2.865		ug/L		100	8 - 142	9	30
Hexachlorobutadiene			2.86	2.020		ug/L		71	38 - 120	5	30
Hexachlorocyclopentadiene			2.86	6.851	*+	ug/L		240	10 - 130	9	30
Hexachloroethane			2.86	1.793		ug/L		63	55 - 120	5	30
Indeno[1,2,3-cd]pyrene			2.86	2.608		ug/L		91	29 - 151	2	30
Isophorone			2.86	3.656		ug/L		128	47 - 180	8	30
m & p - Cresol			2.86	2.317		ug/L		81	22 - 130	7	30
Naphthalene			2.86	2.888		ug/L		101	36 - 120	5	30
Nitrobenzene			2.86	3.472		ug/L		122	54 - 130	7	30
2-Nitrophenol			2.86	2.540		ug/L		89	45 - 167	2	30
4-Nitrophenol			2.86	0.4822	J *1	ug/L		17	13 - 129	37	30
N-Nitrosodiethylamine			2.86	2.682		ug/L		94	54 - 130	2	30
N-Nitrosodimethylamine			2.86	0.7012	*-	ug/L		25	30 - 130	9	30
N-Nitrosodi-n-butylamine			2.86	4.045	*+	ug/L		142	58 - 130	3	30
N-Nitrosodi-n-propylamine			2.86	2.896		ug/L		101	14 - 198	4	30
N-Nitrosodiphenylamine			2.86	3.416		ug/L		120	60 - 130	7	30
o-Cresol			2.86	2.719		ug/L		95	14 - 176	9	30
p-Chloro-m-cresol			2.86	3.325		ug/L		116	41 - 128	7	30
Pentachlorobenzene			2.86	2.475		ug/L		87	47 - 130	4	30
Pentachlorophenol			2.86	2.088		ug/L		73	38 - 152	6	30
Phenanthrene			2.86	3.445	*+	ug/L		121	65 - 120	12	24
Phenol			2.86	1.065	J	ug/L		37	17 - 120	13	30
Pyrene			2.86	2.721		ug/L		95	70 - 120	10	30
Pyridine			2.86	<1.44	U	ug/L		49	1 - 126	5	30
1,2,4,5-Tetrachlorobenzene			2.86	2.059		ug/L		72	52 - 130	7	30
1,2,4-Trichlorobenzene			2.86	2.396		ug/L		84	57 - 130	6	30
2,4,5-Trichlorophenol			2.86	2.612		ug/L		91	35 - 130	6	30
2,4,6-Trichlorophenol			2.86	1.922		ug/L		67	52 - 129	7	30
Total Cresols			5.71	5.036		ug/L		88	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*43 - 130*
2-Fluorophenol (Surr)	*25*		*19 - 120*
Nitrobenzene-d5 (Surr)	*81*		*37 - 133*
Phenol-d5 (Surr)	*23*		*8 - 124*
p-Terphenyl-d14 (Surr)	*58*		*47 - 130*
2,4,6-Tribromophenol (Surr)	*50*		*35 - 130*

Lab Sample ID: LCSD 860-195146/5-A
Matrix: Water
Analysis Batch: 195750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chlorpyrifos			2.86	5.205	*+	ug/L		182	34 - 130	7	30

Method: 625.1 - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 860-195146/5-A
Matrix: Water
Analysis Batch: 195750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195146

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*110*		*43 - 130*
2-Fluorophenol (Surr)	*50*		*19 - 120*
Nitrobenzene-d5 (Surr)	*137*	*S1+*	*37 - 133*
Phenol-d5 (Surr)	*51*		*8 - 124*
p-Terphenyl-d14 (Surr)	*111*		*47 - 130*
2,4,6-Tribromophenol (Surr)	*77*		*35 - 130*

Method: D7065-11 - Determination of Nonylphenols

Lab Sample ID: MB 280-672179/1-A
Matrix: Water
Analysis Batch: 672267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nonylphenol	<1.14	U	5.00	1.14	ug/L		10/23/24 14:38	10/24/24 18:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-nonylphenol (Surr)	*74*		*58 - 115*	*10/23/24 14:38*	*10/24/24 18:00*	*1*
4-nonylphenol monoethoxylate (Surr)	*84*		*54 - 139*	*10/23/24 14:38*	*10/24/24 18:00*	*1*

Lab Sample ID: LCS 280-672179/2-A
Matrix: Water
Analysis Batch: 672267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672179

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nonylphenol			51.3	43.15		ug/L		84	56 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-nonylphenol (Surr)	*103*		*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*102*		*54 - 139*

Lab Sample ID: LCSD 280-672179/3-A
Matrix: Water
Analysis Batch: 672267

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 672179

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nonylphenol			51.3	51.58		ug/L		100	56 - 125	18	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-nonylphenol (Surr)	*112*		*58 - 115*
4-nonylphenol monoethoxylate (Surr)	*112*		*54 - 139*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 860-195435/1-A
Matrix: Water
Analysis Batch: 195832

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.00113	U	0.0100	0.00113	ug/L		10/23/24 16:07	10/25/24 10:46	1
alpha-BHC	<0.00142	U	0.00900	0.00142	ug/L		10/23/24 16:07	10/25/24 10:46	1
alpha-Endosulfan	<0.00107	U	0.0100	0.00107	ug/L		10/23/24 16:07	10/25/24 10:46	1
beta-BHC	<0.00389	U	0.0180	0.00389	ug/L		10/23/24 16:07	10/25/24 10:46	1
beta-Endosulfan	<0.00122	U	0.0100	0.00122	ug/L		10/23/24 16:07	10/25/24 10:46	1
Chlordane	<0.103	U	0.250	0.103	ug/L		10/23/24 16:07	10/25/24 10:46	1
Chlordane (.alpha.)	<0.00181	U	0.0100	0.00181	ug/L		10/23/24 16:07	10/25/24 10:46	1
4,4'-DDD	<0.000814	U	0.0100	0.000814	ug/L		10/23/24 16:07	10/25/24 10:46	1
4,4'-DDE	<0.00109	U	0.0100	0.00109	ug/L		10/23/24 16:07	10/25/24 10:46	1
4,4'-DDT	<0.00379	U	0.0200	0.00379	ug/L		10/23/24 16:07	10/25/24 10:46	1
delta-BHC	<0.00245	U	0.250	0.00245	ug/L		10/23/24 16:07	10/25/24 10:46	1
Dicofol	<0.0500	U	0.100	0.0500	ug/L		10/23/24 16:07	10/25/24 10:46	1
Dieldrin	<0.000953	U	0.0100	0.000953	ug/L		10/23/24 16:07	10/25/24 10:46	1
Endosulfan sulfate	<0.00112	U	0.0100	0.00112	ug/L		10/23/24 16:07	10/25/24 10:46	1
Endrin	<0.00156	U	0.0100	0.00156	ug/L		10/23/24 16:07	10/25/24 10:46	1
Endrin aldehyde	<0.00118	U	0.0100	0.00118	ug/L		10/23/24 16:07	10/25/24 10:46	1
gamma-BHC (Lindane)	<0.00299	U	0.0100	0.00299	ug/L		10/23/24 16:07	10/25/24 10:46	1
Heptachlor	<0.00446	U	0.00900	0.00446	ug/L		10/23/24 16:07	10/25/24 10:46	1
Heptachlor epoxide	<0.00134	U	0.0100	0.00134	ug/L		10/23/24 16:07	10/25/24 10:46	1
Methoxychlor	<0.00390	U	0.0200	0.00390	ug/L		10/23/24 16:07	10/25/24 10:46	1
Mirex	<0.0200	U	0.0200	0.0200	ug/L		10/23/24 16:07	10/25/24 10:46	1
Toxaphene	<0.0769	U	0.200	0.0769	ug/L		10/23/24 16:07	10/25/24 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*129*		*15 - 136*	*10/23/24 16:07*	*10/25/24 10:46*	*1*
Tetrachloro-m-xylene	*127*	*S1+*	*18 - 126*	*10/23/24 16:07*	*10/25/24 10:46*	*1*

Lab Sample ID: LCS 860-195435/2-A
Matrix: Water
Analysis Batch: 195832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195435

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.100	0.09717		ug/L		97	42 - 140
alpha-BHC	0.100	0.09848		ug/L		98	37 - 140
alpha-Endosulfan	0.100	0.1031		ug/L		103	45 - 153
beta-BHC	0.100	0.1013		ug/L		101	17 - 147
beta-Endosulfan	0.100	0.1022		ug/L		102	22 - 171
Chlordane (.alpha.)	0.100	0.1051		ug/L		105	45 - 140
4,4'-DDD	0.100	0.09987		ug/L		100	31 - 141
4,4'-DDE	0.100	0.1030		ug/L		103	30 - 145
4,4'-DDT	0.100	0.07969		ug/L		80	25 - 160
delta-BHC	0.100	0.1037	J	ug/L		104	19 - 140
Dieldrin	0.100	0.1027		ug/L		103	36 - 146
Endosulfan sulfate	0.100	0.09648		ug/L		96	26 - 144
Endrin	0.100	0.1007		ug/L		101	30 - 147
Endrin aldehyde	0.100	0.08713		ug/L		87	60 - 130
gamma-BHC (Lindane)	0.100	0.1020		ug/L		102	34 - 140
Heptachlor	0.100	0.1006		ug/L		101	34 - 140

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 860-195435/2-A
Matrix: Water
Analysis Batch: 195832

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Heptachlor epoxide			0.100	0.1025		ug/L		103	37 - 142		
Methoxychlor			0.100	0.07082		ug/L		71	50 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*107*		*15 - 136*
Tetrachloro-m-xylene	*107*		*18 - 126*

Lab Sample ID: LCSD 860-195435/3-A
Matrix: Water
Analysis Batch: 195832

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195435

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			0.100	0.09973		ug/L		100	42 - 140	3	30
alpha-BHC			0.100	0.1016		ug/L		102	37 - 140	3	30
alpha-Endosulfan			0.100	0.1069		ug/L		107	45 - 153	4	30
beta-BHC			0.100	0.1044		ug/L		104	17 - 147	3	30
beta-Endosulfan			0.100	0.1058		ug/L		106	22 - 171	3	30
Chlordane (.alpha.)			0.100	0.1085		ug/L		108	45 - 140	3	30
4,4'-DDD			0.100	0.1026		ug/L		103	31 - 141	3	30
4,4'-DDE			0.100	0.1050		ug/L		105	30 - 145	2	30
4,4'-DDT			0.100	0.08218		ug/L		82	25 - 160	3	30
delta-BHC			0.100	0.1078	J	ug/L		108	19 - 140	4	30
Dieldrin			0.100	0.1064		ug/L		106	36 - 146	4	30
Endosulfan sulfate			0.100	0.09947		ug/L		99	26 - 144	3	30
Endrin			0.100	0.1019		ug/L		102	30 - 147	1	30
Endrin aldehyde			0.100	0.08727		ug/L		87	60 - 130	0	30
gamma-BHC (Lindane)			0.100	0.1054		ug/L		105	34 - 140	3	30
Heptachlor			0.100	0.1037		ug/L		104	34 - 140	3	30
Heptachlor epoxide			0.100	0.1067		ug/L		107	37 - 142	4	30
Methoxychlor			0.100	0.07239		ug/L		72	50 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*101*		*15 - 136*
Tetrachloro-m-xylene	*98*		*18 - 126*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 860-195435/1-A
Matrix: Water
Analysis Batch: 195843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 09:54	1
PCB-1242	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 09:54	1
PCB-1254	<0.00780	U	0.100	0.00780	ug/L		10/23/24 16:07	10/25/24 09:54	1
PCB-1221	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 09:54	1
PCB-1232	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 09:54	1
PCB-1248	<0.0125	U	0.100	0.0125	ug/L		10/23/24 16:07	10/25/24 09:54	1

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: MB 860-195435/1-A
Matrix: Water
Analysis Batch: 195843

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 195435

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.00780	U	0.100	0.00780	ug/L		10/23/24 16:07	10/25/24 09:54	1
Polychlorinated biphenyls, Total	<0.100	U	0.100	0.100	ug/L		10/23/24 16:07	10/25/24 09:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene (Surr)	*107*		*18 - 126*	*10/23/24 16:07*	*10/25/24 09:54*	*1*
DCB Decachlorobiphenyl (Surr)	*109*		*15 - 136*	*10/23/24 16:07*	*10/25/24 09:54*	*1*

Lab Sample ID: LCS 860-195435/4-A
Matrix: Water
Analysis Batch: 195843

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195435

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			1.00	1.303	*+	ug/L		130	61 - 103		
PCB-1260			1.00	1.253		ug/L		125	37 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*104*		*18 - 126*
DCB Decachlorobiphenyl (Surr)	*111*		*15 - 136*

Lab Sample ID: LCSD 860-195435/5-A
Matrix: Water
Analysis Batch: 195843

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 195435

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			1.00	1.378	*+	ug/L		138	61 - 103	6	24
PCB-1260			1.00	1.166		ug/L		117	37 - 130	7	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene (Surr)	*110*		*18 - 126*
DCB Decachlorobiphenyl (Surr)	*110*		*15 - 136*

Method: 615 - Herbicides (GC)

Lab Sample ID: MB 860-194619/1-A
Matrix: Water
Analysis Batch: 194731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194619

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.0539	U	0.200	0.0539	ug/L		10/19/24 05:03	10/21/24 11:56	1
Hexachlorophene	<0.808	U	5.00	0.808	ug/L		10/19/24 05:03	10/21/24 11:56	1
Silvex (2,4,5-TP)	<0.0422	U	0.200	0.0422	ug/L		10/19/24 05:03	10/21/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*94*		*45 - 150*	*10/19/24 05:03*	*10/21/24 11:56*	*1*

Method: 615 - Herbicides (GC) (Continued)

Lab Sample ID: LCS 860-194619/2-A
Matrix: Water
Analysis Batch: 194731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194619

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			2.00	1.834		ug/L		92	55 - 145		
Silvex (2,4,5-TP)			2.00	1.702		ug/L		85	55 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*93*		*45 - 150*

Lab Sample ID: LCS 860-194619/4-A
Matrix: Water
Analysis Batch: 194731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194619

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Hexachlorophene			8.00	8.329		ug/L		104	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*84*		*45 - 150*

Lab Sample ID: LCSD 860-194619/3-A
Matrix: Water
Analysis Batch: 194731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194619

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			2.00	1.878		ug/L		94	55 - 145	2	25
Silvex (2,4,5-TP)			2.00	1.828		ug/L		91	55 - 140	7	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*99*		*45 - 150*

Lab Sample ID: LCSD 860-194619/5-A
Matrix: Water
Analysis Batch: 194731

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194619

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorophene			8.00	8.312		ug/L		104	60 - 135	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*83*		*45 - 150*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-194889/40
Matrix: Water
Analysis Batch: 194889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate	<39.1	U	100	39.1	ug/L			10/22/24 00:19	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-194889/41
Matrix: Water
Analysis Batch: 194889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrogen, Nitrate			10000	9240		ug/L		92	90 - 110		

Lab Sample ID: LCSD 860-194889/42
Matrix: Water
Analysis Batch: 194889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrogen, Nitrate			10000	9655		ug/L		97	90 - 110	4	20

Lab Sample ID: LLCS 860-194889/43
Matrix: Water
Analysis Batch: 194889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrogen, Nitrate			100	103.7		ug/L		104	50 - 150		

Lab Sample ID: MB 860-195582/3
Matrix: Water
Analysis Batch: 195582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<100	U	500	100	ug/L			10/24/24 11:16	1

Lab Sample ID: LCS 860-195582/4
Matrix: Water
Analysis Batch: 195582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			10000	10750		ug/L		108	90 - 110		

Lab Sample ID: LCSD 860-195582/5
Matrix: Water
Analysis Batch: 195582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride			10000	10700		ug/L		107	90 - 110	1	20

Lab Sample ID: LLCS 860-195582/7
Matrix: Water
Analysis Batch: 195582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			500	520.2		ug/L		104	50 - 150		

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-194868/1-A
Matrix: Water
Analysis Batch: 196276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 194868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		10/21/24 14:03	10/29/24 13:48	1
Diuron	<0.0514	U	0.0900	0.0514	ug/L		10/21/24 14:03	10/29/24 13:48	1

Lab Sample ID: LCS 860-194868/2-A
Matrix: Water
Analysis Batch: 196276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 194868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	106.9		ug/L		107	70 - 130
Diuron	2.00	2.220		ug/L		111	70 - 130

Lab Sample ID: LCSD 860-194868/3-A
Matrix: Water
Analysis Batch: 196276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 194868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	95.57		ug/L		96	70 - 130	11	20
Diuron	2.00	2.016		ug/L		101	70 - 130	10	20

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 192-25036/3
Matrix: Water
Analysis Batch: 25036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 09:57	1

Lab Sample ID: MB 192-25036/4
Matrix: Water
Analysis Batch: 25036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 10:02	1

Lab Sample ID: MB 192-25036/5
Matrix: Water
Analysis Batch: 25036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000490	U	0.000500	0.000490	ug/L			10/28/24 10:07	1

Lab Sample ID: LCS 192-25036/6
Matrix: Water
Analysis Batch: 25036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.003975		ug/L		80	77 - 123

Method: 1631E - Mercury, Low Level (CVAFS) (Continued)

Lab Sample ID: 860-85063-2 MS
Matrix: Water
Analysis Batch: 25036

Client Sample ID: Temple Belton Effluent Grab 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00243		0.00500	0.004969		ug/L		51	71 - 125

Lab Sample ID: 860-85063-2 MSD
Matrix: Water
Analysis Batch: 25036

Client Sample ID: Temple Belton Effluent Grab 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00243		0.00500	0.004514		ug/L		42	71 - 125	10	24

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 860-195227/2-A
Matrix: Water
Analysis Batch: 195430

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 195227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<3.01	U	20.0	3.01	ug/L		10/22/24 22:41	10/23/24 14:43	1
Antimony	<1.05	U	2.00	1.05	ug/L		10/22/24 22:41	10/23/24 14:43	1
Arsenic	<0.929	U	4.00	0.929	ug/L		10/22/24 22:41	10/23/24 14:43	1
Barium	<0.954	U	4.00	0.954	ug/L		10/22/24 22:41	10/23/24 14:43	1
Beryllium	<0.375	U	2.00	0.375	ug/L		10/22/24 22:41	10/23/24 14:43	1
Cadmium	<0.258	U	2.00	0.258	ug/L		10/22/24 22:41	10/23/24 14:43	1
Chromium	<0.890	U	4.00	0.890	ug/L		10/22/24 22:41	10/23/24 14:43	1
Copper	<0.690	U	4.00	0.690	ug/L		10/22/24 22:41	10/23/24 14:43	1
Lead	<0.369	U	2.00	0.369	ug/L		10/22/24 22:41	10/23/24 14:43	1
Manganese	<0.525	U	2.00	0.525	ug/L		10/22/24 22:41	10/23/24 14:43	1
Molybdenum	<0.504	U	2.00	0.504	ug/L		10/22/24 22:41	10/23/24 14:43	1
Nickel	<0.486	U	2.00	0.486	ug/L		10/22/24 22:41	10/23/24 14:43	1
Selenium	<0.685	U	2.00	0.685	ug/L		10/22/24 22:41	10/23/24 14:43	1
Silver	<0.351	U	2.00	0.351	ug/L		10/22/24 22:41	10/23/24 14:43	1
Thallium	<0.215	U	2.00	0.215	ug/L		10/22/24 22:41	10/23/24 14:43	1
Zinc	<0.885	U	4.00	0.885	ug/L		10/22/24 22:41	10/23/24 14:43	1

Lab Sample ID: LCS 860-195227/3-A
Matrix: Water
Analysis Batch: 195430

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 195227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	500	484.1		ug/L		97	85 - 115
Antimony	100	90.51		ug/L		91	85 - 115
Arsenic	100	97.56		ug/L		98	85 - 115
Barium	100	95.57		ug/L		96	85 - 115
Beryllium	100	90.73		ug/L		91	85 - 115
Cadmium	100	96.90		ug/L		97	85 - 115
Chromium	100	93.24		ug/L		93	85 - 115
Copper	100	92.62		ug/L		93	85 - 115
Lead	100	95.10		ug/L		95	85 - 115
Manganese	100	95.80		ug/L		96	85 - 115
Molybdenum	100	94.90		ug/L		95	85 - 115

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-195227/3-A
Matrix: Water
Analysis Batch: 195430

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 195227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	100	93.66		ug/L		94	85 - 115
Selenium	100	94.47		ug/L		94	85 - 115
Silver	50.0	48.62		ug/L		97	85 - 115
Thallium	100	97.48		ug/L		97	85 - 115
Zinc	100	96.90		ug/L		97	85 - 115

Lab Sample ID: LCSD 860-195227/4-A
Matrix: Water
Analysis Batch: 195430

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 195227

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	500	485.0		ug/L		97	85 - 115	0	20
Antimony	100	91.57		ug/L		92	85 - 115	1	20
Arsenic	100	97.84		ug/L		98	85 - 115	0	20
Barium	100	96.97		ug/L		97	85 - 115	1	20
Beryllium	100	90.47		ug/L		90	85 - 115	0	20
Cadmium	100	97.18		ug/L		97	85 - 115	0	20
Chromium	100	93.82		ug/L		94	85 - 115	1	20
Copper	100	93.33		ug/L		93	85 - 115	1	20
Lead	100	95.99		ug/L		96	85 - 115	1	20
Manganese	100	95.86		ug/L		96	85 - 115	0	20
Molybdenum	100	96.02		ug/L		96	85 - 115	1	20
Nickel	100	92.91		ug/L		93	85 - 115	1	20
Selenium	100	94.49		ug/L		94	85 - 115	0	20
Silver	50.0	48.70		ug/L		97	85 - 115	0	20
Thallium	100	98.74		ug/L		99	85 - 115	1	20
Zinc	100	96.33		ug/L		96	85 - 115	1	20

Lab Sample ID: LLCS 860-195227/1-A
Matrix: Water
Analysis Batch: 195430

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 195227

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	20.0	20.26		ug/L		101	50 - 150
Antimony	2.00	2.053		ug/L		103	50 - 150
Arsenic	4.00	4.100		ug/L		103	50 - 150
Barium	4.00	4.006		ug/L		100	50 - 150
Beryllium	2.00	1.916	J	ug/L		96	50 - 150
Cadmium	2.00	2.146		ug/L		107	50 - 150
Chromium	4.00	4.389		ug/L		110	50 - 150
Copper	4.00	4.321		ug/L		108	50 - 150
Lead	2.00	1.970	J	ug/L		99	50 - 150
Manganese	2.00	2.128		ug/L		106	50 - 150
Molybdenum	2.00	2.119		ug/L		106	50 - 150
Nickel	2.00	1.988	J	ug/L		99	50 - 150
Selenium	2.00	1.915	J	ug/L		96	50 - 150
Silver	2.00	2.256		ug/L		113	50 - 150
Thallium	2.00	2.009		ug/L		100	50 - 150
Zinc	4.00	4.143		ug/L		104	50 - 150

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 860-195725/1
Matrix: Water
Analysis Batch: 195725

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	<1570	U	5000	1570	ug/L			10/24/24 15:08	1

Lab Sample ID: LCS 860-195725/2
Matrix: Water
Analysis Batch: 195725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM			40000	38800		ug/L		97	78 - 114		

Lab Sample ID: LCSD 860-195725/3
Matrix: Water
Analysis Batch: 195725

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM			40000	38500		ug/L		96	78 - 114	1	18

Lab Sample ID: MB 860-195875/1
Matrix: Water
Analysis Batch: 195875

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	<1570	U	5000	1570	ug/L			10/25/24 10:16	1

Lab Sample ID: LCS 860-195875/2
Matrix: Water
Analysis Batch: 195875

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM			40000	41500		ug/L		104	78 - 114		

Lab Sample ID: LCSD 860-195875/3
Matrix: Water
Analysis Batch: 195875

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM			40000	41400		ug/L		103	78 - 114	0	18

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 860-197678/17
Matrix: Water
Analysis Batch: 197678

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus Total	<14.3	U	20.0	14.3	ug/L			11/01/24 12:16	1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCS 860-197678/19
Matrix: Water
Analysis Batch: 197678

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phosphorus Total			250	269.0		ug/L		108	90 - 110		

Lab Sample ID: LCSD 860-197678/20
Matrix: Water
Analysis Batch: 197678

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phosphorus Total			250	265.0		ug/L		106	90 - 110	4	20

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 860-196279/16
Matrix: Water
Analysis Batch: 196279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<5.80	U	10.0	5.80	ug/L			10/25/24 17:19	1

Lab Sample ID: MB 860-196279/55
Matrix: Water
Analysis Batch: 196279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<5.80	U	10.0	5.80	ug/L			10/25/24 19:03	1

Lab Sample ID: LCS 860-196279/56
Matrix: Water
Analysis Batch: 196279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenols, Total			100	102.3		ug/L		102	90 - 110		

Lab Sample ID: LCSD 860-196279/18
Matrix: Water
Analysis Batch: 196279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			100	98.10		ug/L		98	90 - 110	1	20

Lab Sample ID: LCSD 860-196279/57
Matrix: Water
Analysis Batch: 196279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenols, Total			100	104.5		ug/L		105	90 - 110	2	20

Method: Kelada 01 - Cyanide, Total, Acid Dissociable and Thiocyanate

Lab Sample ID: MB 860-195605/24
Matrix: Water
Analysis Batch: 195605

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.98	U	5.00	1.98	ug/L			10/23/24 13:10	1

Lab Sample ID: MB 860-195605/64
Matrix: Water
Analysis Batch: 195605

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<1.98	U	5.00	1.98	ug/L			10/23/24 15:04	1

Lab Sample ID: LCS 860-195605/65
Matrix: Water
Analysis Batch: 195605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	109.8		ug/L		110	90 - 110

Lab Sample ID: LCSD 860-195605/27
Matrix: Water
Analysis Batch: 195605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	109.4		ug/L		109	90 - 110	0	20

Lab Sample ID: LCSD 860-195605/66
Matrix: Water
Analysis Batch: 195605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	100	106.6		ug/L		107	90 - 110	3	20

Lab Sample ID: LLCS 860-195605/25
Matrix: Water
Analysis Batch: 195605

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	4.858	J	ug/L		97	50 - 150

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig

Lab Sample ID: MB 180-482748/26
Matrix: Water
Analysis Batch: 482748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	<1.56	U	2.00	1.56	ug/L			10/24/24 16:39	1

Method: OIA - 1677 - Available Cyanide by Flow Injection, Lig (Continued)

Lab Sample ID: MB 180-482748/42
Matrix: Water
Analysis Batch: 482748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Available	<1.56	U	2.00	1.56	ug/L			10/24/24 17:04	1

Lab Sample ID: LCS 180-482748/27
Matrix: Water
Analysis Batch: 482748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	50.65		ug/L		101	82 - 132

Lab Sample ID: LCS 180-482748/43
Matrix: Water
Analysis Batch: 482748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Available	50.1	51.18		ug/L		102	82 - 132

Method: SM3500 CR B - Chromium,Hexavalent

Lab Sample ID: MB 860-196024/3
Matrix: Water
Analysis Batch: 196024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	<2.00	U	10.0	2.00	ug/L			10/25/24 17:43	1

Lab Sample ID: LCS 860-196024/4
Matrix: Water
Analysis Batch: 196024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium, hexavalent	200	204.6		ug/L		102	80 - 120

Lab Sample ID: LCSD 860-196024/5
Matrix: Water
Analysis Batch: 196024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	200	202.0		ug/L		101	80 - 120	1	20

QC Association Summary

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

GC/MS VOA

Analysis Batch: 195257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-6	Temple Belton Effluent Lab Composite	Total/NA	Water	624.1	
MB 860-195257/10	Method Blank	Total/NA	Water	624.1	
LCS 860-195257/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 860-195257/4	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 195146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	3511	
MB 860-195146/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-195146/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-195146/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-195146/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-195146/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 195382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-195146/2-A	Lab Control Sample	Total/NA	Water	625.1	195146
LCSD 860-195146/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	195146

Analysis Batch: 195750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	625.1	195146
MB 860-195146/1-A	Method Blank	Total/NA	Water	625.1	195146
LCS 860-195146/4-A	Lab Control Sample	Total/NA	Water	625.1	195146
LCSD 860-195146/5-A	Lab Control Sample Dup	Total/NA	Water	625.1	195146

Prep Batch: 196166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1 - RE	Temple Belton Effluent	Total/NA	Water	3511	
MB 860-196166/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-196166/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-196166/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 196265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-196166/1-A	Method Blank	Total/NA	Water	625.1	196166
LCS 860-196166/2-A	Lab Control Sample	Total/NA	Water	625.1	196166
LCSD 860-196166/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	196166

Analysis Batch: 196834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1 - RE	Temple Belton Effluent	Total/NA	Water	625.1	196166

Prep Batch: 672179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	D7065-11	
MB 280-672179/1-A	Method Blank	Total/NA	Water	D7065-11	
LCS 280-672179/2-A	Lab Control Sample	Total/NA	Water	D7065-11	
LCSD 280-672179/3-A	Lab Control Sample Dup	Total/NA	Water	D7065-11	

GC/MS Semi VOA

Analysis Batch: 672267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-672179/1-A	Method Blank	Total/NA	Water	D7065-11	672179
LCS 280-672179/2-A	Lab Control Sample	Total/NA	Water	D7065-11	672179
LCSD 280-672179/3-A	Lab Control Sample Dup	Total/NA	Water	D7065-11	672179

Analysis Batch: 672528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	D7065-11	672179

GC Semi VOA

Prep Batch: 194619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	3511	
MB 860-194619/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-194619/2-A	Lab Control Sample	Total/NA	Water	3511	
LCS 860-194619/4-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-194619/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
LCSD 860-194619/5-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 194731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	615	194619
MB 860-194619/1-A	Method Blank	Total/NA	Water	615	194619
LCS 860-194619/2-A	Lab Control Sample	Total/NA	Water	615	194619
LCS 860-194619/4-A	Lab Control Sample	Total/NA	Water	615	194619
LCSD 860-194619/3-A	Lab Control Sample Dup	Total/NA	Water	615	194619
LCSD 860-194619/5-A	Lab Control Sample Dup	Total/NA	Water	615	194619

Prep Batch: 195435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	608	
MB 860-195435/1-A	Method Blank	Total/NA	Water	608	
LCS 860-195435/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 860-195435/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 860-195435/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 860-195435/5-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 195832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	608.3	195435
MB 860-195435/1-A	Method Blank	Total/NA	Water	608.3	195435
LCS 860-195435/2-A	Lab Control Sample	Total/NA	Water	608.3	195435
LCSD 860-195435/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	195435

Analysis Batch: 195843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	608.3	195435
MB 860-195435/1-A	Method Blank	Total/NA	Water	608.3	195435
LCS 860-195435/4-A	Lab Control Sample	Total/NA	Water	608.3	195435
LCSD 860-195435/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	195435

HPLC/IC

Prep Batch: 194868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	CWA_Prep	
MB 860-194868/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 860-194868/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-194868/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 194889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85065-1	Temple Belton Effluent	Total/NA	Water	300.0	
MB 860-194889/40	Method Blank	Total/NA	Water	300.0	
LCS 860-194889/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-194889/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-194889/43	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 195582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	300.0	
MB 860-195582/3	Method Blank	Total/NA	Water	300.0	
LCS 860-195582/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-195582/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-195582/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 196276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	632	194868
MB 860-194868/1-A	Method Blank	Total/NA	Water	632	194868
LCS 860-194868/2-A	Lab Control Sample	Total/NA	Water	632	194868
LCSD 860-194868/3-A	Lab Control Sample Dup	Total/NA	Water	632	194868

Metals

Analysis Batch: 25036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-2	Temple Belton Effluent Grab 1	Total/NA	Water	1631E	
860-85063-3	Temple Belton Effluent Grab 2	Total/NA	Water	1631E	
860-85063-4	Temple Belton Effluent Grab 3	Total/NA	Water	1631E	
860-85063-5	Temple Belton Effluent Grab 4	Total/NA	Water	1631E	
860-85063-7	Temple Belton Effluent Grab 1631 Blank 1	Total/NA	Water	1631E	
860-85063-8	Temple Belton Effluent Grab 1631 Blank 2	Total/NA	Water	1631E	
860-85063-9	Temple Belton Effluent Grab 1631 Blank 3	Total/NA	Water	1631E	
860-85063-10	Temple Belton Effluent Grab 1631 Blank 4	Total/NA	Water	1631E	
MB 192-25036/3	Method Blank	Total/NA	Water	1631E	
MB 192-25036/4	Method Blank	Total/NA	Water	1631E	
MB 192-25036/5	Method Blank	Total/NA	Water	1631E	
LCS 192-25036/6	Lab Control Sample	Total/NA	Water	1631E	
860-85063-2 MS	Temple Belton Effluent Grab 1	Total/NA	Water	1631E	
860-85063-2 MSD	Temple Belton Effluent Grab 1	Total/NA	Water	1631E	

Prep Batch: 195227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total Recoverable	Water	200.8	
MB 860-195227/2-A	Method Blank	Total Recoverable	Water	200.8	

Metals (Continued)

Prep Batch: 195227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-195227/3-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 860-195227/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
LLCS 860-195227/1-A	Lab Control Sample	Total Recoverable	Water	200.8	

Analysis Batch: 195430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total Recoverable	Water	200.8	195227
MB 860-195227/2-A	Method Blank	Total Recoverable	Water	200.8	195227
LCS 860-195227/3-A	Lab Control Sample	Total Recoverable	Water	200.8	195227
LCSD 860-195227/4-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	195227
LLCS 860-195227/1-A	Lab Control Sample	Total Recoverable	Water	200.8	195227

General Chemistry

Analysis Batch: 195605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-6	Temple Belton Effluent Lab Composite	Total/NA	Water	Kelada 01	
MB 860-195605/24	Method Blank	Total/NA	Water	Kelada 01	
MB 860-195605/64	Method Blank	Total/NA	Water	Kelada 01	
LCS 860-195605/65	Lab Control Sample	Total/NA	Water	Kelada 01	
LCSD 860-195605/27	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
LCSD 860-195605/66	Lab Control Sample Dup	Total/NA	Water	Kelada 01	
LLCS 860-195605/25	Lab Control Sample	Total/NA	Water	Kelada 01	

Analysis Batch: 195725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-2	Temple Belton Effluent Grab 1	Total/NA	Water	1664B	
860-85063-3	Temple Belton Effluent Grab 2	Total/NA	Water	1664B	
MB 860-195725/1	Method Blank	Total/NA	Water	1664B	
LCS 860-195725/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 860-195725/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 195875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-4	Temple Belton Effluent Grab 3	Total/NA	Water	1664B	
860-85063-5	Temple Belton Effluent Grab 4	Total/NA	Water	1664B	
MB 860-195875/1	Method Blank	Total/NA	Water	1664B	
LCS 860-195875/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 860-195875/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 196024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85065-1	Temple Belton Effluent	Total/NA	Water	SM3500 CR B	
MB 860-196024/3	Method Blank	Total/NA	Water	SM3500 CR B	
LCS 860-196024/4	Lab Control Sample	Total/NA	Water	SM3500 CR B	
LCSD 860-196024/5	Lab Control Sample Dup	Total/NA	Water	SM3500 CR B	

Analysis Batch: 196279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	420.4	
MB 860-196279/16	Method Blank	Total/NA	Water	420.4	

General Chemistry (Continued)

Analysis Batch: 196279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-196279/55	Method Blank	Total/NA	Water	420.4	
LCS 860-196279/56	Lab Control Sample	Total/NA	Water	420.4	
LCSD 860-196279/18	Lab Control Sample Dup	Total/NA	Water	420.4	
LCSD 860-196279/57	Lab Control Sample Dup	Total/NA	Water	420.4	

Analysis Batch: 196287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 197678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-1	Temple Belton Effluent	Total/NA	Water	365.1	
MB 860-197678/17	Method Blank	Total/NA	Water	365.1	
LCS 860-197678/19	Lab Control Sample	Total/NA	Water	365.1	
LCSD 860-197678/20	Lab Control Sample Dup	Total/NA	Water	365.1	

Analysis Batch: 482748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-85063-6	Temple Belton Effluent Lab Composite	Total/NA	Water	OIA - 1677	
MB 180-482748/26	Method Blank	Total/NA	Water	OIA - 1677	
MB 180-482748/42	Method Blank	Total/NA	Water	OIA - 1677	
LCS 180-482748/27	Lab Control Sample	Total/NA	Water	OIA - 1677	
LCS 180-482748/43	Lab Control Sample	Total/NA	Water	OIA - 1677	

Lab Chronicle

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Client Sample ID: Temple Belton Effluent
Lab Sample ID: 860-85063-1
Date Collected: 10/16/24 10:59
Matrix: Water
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			70.2 mL	4 mL	195146	10/22/24 14:49	DR	EET HOU
Total/NA	Analysis	625.1		1	1 mL	1 mL	195750	10/25/24 05:58	LPL	EET HOU
Total/NA	Prep	3511	RE		69.3 mL	4 mL	196166	10/28/24 07:39	DR	EET HOU
Total/NA	Analysis	625.1	RE	1	1 mL	1 mL	196834	10/30/24 22:10	PXS	EET HOU
Total/NA	Prep	D7065-11			1028.7 mL	1 mL	672179	10/23/24 14:38	WPO	EET DEN
Total/NA	Analysis	D7065-11		1	200 uL	200 uL	672528	10/25/24 15:56	RJC	EET DEN
Total/NA	Prep	608			1000 mL	1 mL	195435	10/23/24 16:07	BH	EET HOU
Total/NA	Analysis	608.3		1			195843	10/25/24 10:44	KM	EET HOU
Total/NA	Prep	608			1000 mL	1 mL	195435	10/23/24 16:07	BH	EET HOU
Total/NA	Analysis	608.3		1			195832	10/25/24 12:39	KM	EET HOU
Total/NA	Prep	3511			49.7 mL	4 mL	194619	10/19/24 05:03	BH	EET HOU
Total/NA	Analysis	615		1			194731	10/21/24 15:58	KM	EET HOU
Total/NA	Analysis	300.0		1			195582	10/24/24 15:01	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	194868	10/21/24 14:03	DR	EET HOU
Total/NA	Analysis	632		1			196276	10/29/24 15:26	YG	EET HOU
Total Recoverable	Prep	200.8			50 mL	50 mL	195227	10/22/24 22:41	SHZ	EET HOU
Total Recoverable	Analysis	200.8		1			195430	10/23/24 15:15	DP	EET HOU
Total/NA	Analysis	365.1		1	10 mL	10 mL	197678	11/01/24 14:00	BW	EET HOU
Total/NA	Analysis	420.4		1	10 mL	10 mL	196279	10/25/24 20:33	YG	EET HOU
Total/NA	Analysis	SM 3500 CR B		1			196287	10/28/24 13:24	SC	EET HOU

Client Sample ID: Temple Belton Effluent Grab 1
Lab Sample ID: 860-85063-2
Date Collected: 10/15/24 11:00
Matrix: Water
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 10:36	EQ5	EET ARK
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	195725	10/24/24 15:08	TB	EET HOU

Client Sample ID: Temple Belton Effluent Grab 2
Lab Sample ID: 860-85063-3
Date Collected: 10/15/24 17:00
Matrix: Water
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 10:46	EQ5	EET ARK
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	195725	10/24/24 15:08	TB	EET HOU

Client Sample ID: Temple Belton Effluent Grab 3
Lab Sample ID: 860-85063-4
Date Collected: 10/15/24 23:00
Matrix: Water
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 10:51	EQ5	EET ARK
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	195875	10/25/24 10:16	TB	EET HOU

Client Sample ID: Temple Belton Effluent Grab 4

Lab Sample ID: 860-85063-5
Matrix: Water
Date Collected: 10/16/24 05:00
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 10:56	EQ5	EET ARK
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	195875	10/25/24 10:16	TB	EET HOU

Client Sample ID: Temple Belton Effluent Lab Composite

Lab Sample ID: 860-85063-6
Matrix: Water
Date Collected: 10/16/24 05:00
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	5 mL	5 mL	195257	10/23/24 12:57	NA	EET HOU
Total/NA	Analysis	Kelada 01		1	10 mL	10 mL	195605	10/23/24 15:46	BW	EET HOU
Total/NA	Analysis	OIA - 1677		1			482748	10/24/24 16:49	RAO	EET PIT

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 1

Lab Sample ID: 860-85063-7
Matrix: Water
Date Collected: 10/15/24 11:00
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 11:17	EQ5	EET ARK

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 2

Lab Sample ID: 860-85063-8
Matrix: Water
Date Collected: 10/15/24 17:00
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 11:22	EQ5	EET ARK

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 3

Lab Sample ID: 860-85063-9
Matrix: Water
Date Collected: 10/15/24 23:00
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 11:27	EQ5	EET ARK

Client Sample ID: Temple Belton Effluent Grab 1631 Blank 4

Lab Sample ID: 860-85063-10
Matrix: Water
Date Collected: 10/16/24 05:00
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	1631E		1	5 mL	5 mL	25036	10/28/24 11:32	EQ5	EET ARK

Client Sample ID: Temple Belton Effluent

Lab Sample ID: 860-85065-1
Matrix: Water
Date Collected: 10/16/24 10:59
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			194889	10/22/24 03:14	WP	EET HOU

Lab Chronicle

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Client Sample ID: Temple Belton Effluent
Lab Sample ID: 860-85065-1
Date Collected: 10/16/24 10:59
Matrix: Water
Date Received: 10/18/24 09:23

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM3500 CR B		1	25 mL	25 mL	196024	10/25/24 17:43	SCI	EET HOU

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
SPL = SPL Kilgore, 2600 Dudley Rd, Kilgore, TX 75662

Accreditation/Certification Summary

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
420.4		Water	Phenols, Total
608.3	608	Water	Dicofol
608.3	608	Water	Mirex
608.3	608	Water	Polychlorinated biphenyls, Total
615	3511	Water	Hexachlorophene
624.1		Water	1,3-Dichloropropylene
624.1		Water	Trihalomethanes, Total
625.1	3511	Water	Chlorpyrifos
625.1	3511	Water	m & p - Cresol
625.1	3511	Water	Total Cresols
632	CWA_Prep	Water	Diuron
SM 3500 CR B		Water	Total Chromium
SM 3500 CR B		Water	Trivalent Chromium

Laboratory: Eurofins Arkansas

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-0889	03-02-25
Florida	NELAP	E87118	06-30-25
Iowa	State	436	10-02-25
Louisiana (All)	NELAP	01946	06-30-25
Oklahoma	State	8709	12-31-24
Texas	NELAP	T104704575-23-1	05-31-25
Washington	State	C1087	07-13-25

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-25
A2LA	ISO/IEC 17025	2907.01	10-31-25
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-24
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	10-30-24
Colorado	Petroleum Storage Tank Program	4025 (or)	01-08-25
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	11-06-24
Florida	NELAP	E87667-57	06-30-25
Georgia	State	4025-011	01-08-25
Illinois	NELAP	2000172024-9	05-31-25
Iowa	State	370	12-01-24
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Brazos River Authority
Job ID: 860-85063-1
Project/Site: WWTP Temple Belton Effluent

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-24
Nevada	State	CO000262024-08	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	11-05-24
North Dakota	State	R-034	01-08-25
Oklahoma	NELAP	8614	08-31-24 *
Oregon	NELAP	4025	01-08-25
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-08-24 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-24
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-25

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704528	03-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET HOU
625.1	Semivolatile Organic Compounds (GC-MS/MS)	EPA	EET HOU
D7065-11	Determination of Nonylphenols	ASTM	EET DEN
608.3	Organochlorine Pesticides in Water	EPA	EET HOU
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET HOU
615	Herbicides (GC)	EPA-01	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
1631E	Mercury, Low Level (CVAFS)	EPA	EET ARK
200.8	Metals (ICP/MS)	EPA	EET HOU
1664B	HEM and SGT-HEM	1664B	EET HOU
365.1	Phosphorus, Total	EPA	EET HOU
420.4	Phenolics, Total Recoverable	EPA	EET HOU
Kelada 01	Cyanide, Total, Acid Dissociable and Thiocyanate	EPA	EET HOU
OIA - 1677	Available Cyanide by Flow Injection, Lig	EPA	EET PIT
SM 3500 CR B	Chromium, Trivalent	SM	EET HOU
SM3500 CR B	Chromium,Hexavalent	SM	EET HOU
Subcontract	614 Organophos Pesticides	None	SPL
Subcontract	622 Chloropyrifos	None	SPL
200.8	Preparation, Total Recoverable Metals	EPA	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
D7065-11	Liquid-Liquid Extraction (Continuous)	ASTM	EET DEN

Protocol References:

1664B = EPA-821-98-002
ASTM = ASTM International
EPA = US Environmental Protection Agency
EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.
None = None
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
SPL = SPL Kilgore, 2600 Dudley Rd, Kilgore, TX 75662

Sample Summary

Client: Brazos River Authority
Project/Site: WWTP Temple Belton Effluent

Job ID: 860-85063-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-85063-1	Temple Belton Effluent	Water	10/16/24 10:59	10/18/24 09:23
860-85063-2	Temple Belton Effluent Grab 1	Water	10/15/24 11:00	10/18/24 09:23
860-85063-3	Temple Belton Effluent Grab 2	Water	10/15/24 17:00	10/18/24 09:23
860-85063-4	Temple Belton Effluent Grab 3	Water	10/15/24 23:00	10/18/24 09:23
860-85063-5	Temple Belton Effluent Grab 4	Water	10/16/24 05:00	10/18/24 09:23
860-85063-6	Temple Belton Effluent Lab Composite	Water	10/16/24 05:00	10/18/24 09:23
860-85063-7	Temple Belton Effluent Grab 1631 Blank 1	Water	10/15/24 11:00	10/18/24 09:23
860-85063-8	Temple Belton Effluent Grab 1631 Blank 2	Water	10/15/24 17:00	10/18/24 09:23
860-85063-9	Temple Belton Effluent Grab 1631 Blank 3	Water	10/15/24 23:00	10/18/24 09:23
860-85063-10	Temple Belton Effluent Grab 1631 Blank 4	Water	10/16/24 05:00	10/18/24 09:23
860-85065-1	Temple Belton Effluent	Water	10/16/24 10:59	10/18/24 09:23

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24 Waterway Avenue, Suite 375 The Woodlands, TX 77380
*Office: 903-984-0551 * Fax: 903-984-5914*

Project
1122517

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

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16:10

TABLE OF CONTENTS

This report consists of this Table of Contents and the following pages:

Report Name	Description	Pages
1122517_r02_01_ProjectSamples	SPL Kilgore Project P:1122517 C:TABM Project Sample Cross Reference t:304	1
1122517_r03_03_ProjectResults	SPL Kilgore Project P:1122517 C:TABM Project Results t:304 PO: US1313021524	3
1122517_r10_05_ProjectQC	SPL Kilgore Project P:1122517 C:TABM Project Quality Control Groups	3
1122517_r99_09_CoC__1_of_1	SPL Kilgore CoC TABM 1122517_1_of_1	2
	Total Pages:	9

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SAMPLE CROSS REFERENCE

Project
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Printed 11/7/2024 Page 1 of 1
TEMPLE BELTON EFFLUENT

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Sample	Sample ID	Taken	Time	Received
2346810	*TEMPLE BELTON EFFLUENT*	10/16/2024	10:59:00	10/22/2024

Bottle 01 Client Supplied Amber Glass
Bottle 02 Client Supplied Amber Glass
Bottle 03 Client Supplied Amber Glass
Bottle 04 Client Supplied Amber Glass
Bottle 05 Prepared Bottle: OPXL/OPXS 2 mL Autosampler Vial (Batch 1144002) Volume: 1.00000 mL <== Derived from 02 (1028 ml)

Method	Bottle	PrepSet	Preparation	QcGroup	Analytical
EPA 614	05	1144002	10/22/2024	1145546	10/31/2024
EPA 622	05	1144002	10/22/2024	1145542	10/31/2024

Email: Kilgore.ProjectManagement@spllabs.com

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Project
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RESULTS

Sample Results

2346810 TEMPLE BELTON EFFLUENT — Received: 10/22/2024

Drinking Water — Collected by: Client — Eurofins Test Americ — PO: US1313021524
Taken: 10/16/2024 10:59:00

Prepared: 10/31/2024 12:07:00 Analyzed 10/31/2024 12:07:00 WJP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Check Limits	Completed					

EPA 614 — Prepared: 1144002 10/22/2024 13:00:00 Analyzed 1145546 10/31/2024 00:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
z	Azinphos-methyl (Guthion)	<0.0486	ug/L	0.0486		86-50-0	05
z	Demeton	<0.0486	ug/L	0.0486		8065-48-3	05
NELAC	Diazinon	<0.0486	ug/L	0.0486		333-41-5	05
z	Malathion	<0.0486	ug/L	0.0486		121-75-5	05
z	Parathion, ethyl	<0.0486	ug/L	0.0486		56-38-2	05
z	Parathion, methyl	<0.0486	ug/L	0.0486		298-00-0	05

EPA 622 — Prepared: 1144002 10/22/2024 13:00:00 Analyzed 1145542 10/31/2024 00:25:00 KAP

	Parameter	Results	Units	RL	Flags	CAS	Bottle
NELAC	Chlorpyrifos	<0.0486	ug/L	0.0486		2921-88-2	05

Sample Preparation

2346810 TEMPLE BELTON EFFLUENT — Received: 10/22/2024

US1313021524

10/16/2024

Prepared: 10/22/2024 14:02:02 Calculated 10/22/2024 14:02:02 CAL

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Bethany A McDaniel
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Stafford, TX 77477

Project
1122517

Printed: 11/07/2024

2346810 **TEMPLE BELTON EFFLUENT** Received: 10/22/2024

US1313021524

10/16/2024

		Prepared:		*10/22/2024*	*14:02:02*	*Calculated*	*10/22/2024*	*14:02:02*	*CAL*
z	**Environmental Fee (per Project)**	**Verified**							
EPA 507		*Prepared:*	*1144002*	*10/22/2024*	*13:00:00*	*Analyzed*	*1144002*	*10/22/2024*	*13:00:00*	*LSM*
	Solvent Extraction	**1/1028**	**ml**						02
EPA 614		*Prepared:*	*1144002*	*10/22/2024*	*13:00:00*	*Analyzed*	*1145546*	*10/31/2024*	*00:25:00*	*KAP*
z	**Permit Organophos. Pesticides**	**Entered**							05
EPA 622		*Prepared:*	*1144002*	*10/22/2024*	*13:00:00*	*Analyzed*	*1145542*	*10/31/2024*	*00:25:00*	*KAP*
NELAC	**For use with EXP !CPP only**	**Entered**							05

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Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
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Qualifiers:

We report results on an As Received (or Wet) basis unless marked Dry Weight.

Unless otherwise noted, testing was performed at SPL, Inc.- Kilgore laboratory which holds International, Federal, and state accreditations. Please see our Websites for details.

(N)ELAC - Covered in our NELAC scope of accreditation
z -- Not covered by our NELAC scope of accreditation

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of SPL Kilgore. Unless otherwise specified, these test results meet the requirements of NELAC.
RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Bill Peery, MS, VP Technical Services

QUALITY CONTROL

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
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Analytical Set 1145542 — EPA 622

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Chlorpyrifos	1144002	ND	0.0904	50.0	ug/L	126958536

CCV

Parameter	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Chlorpyrifos	1010	1000	ug/L	101	48.0 - 150	126958527
Chlorpyrifos	1160	1000	ug/L	116	48.0 - 150	126958535
Chlorpyrifos	1150	1000	ug/L	115	48.0 - 150	126958545
Chlorpyrifos	1270	1000	ug/L	127	48.0 - 150	126958549

LCS Dup

Parameter	*PrepSet*	*LCS*	*LCSD*	*Known*	*Limits%*	*LCS%*	*LCSD%*	*Units*	*RPD*	*Limit%*
Chlorpyrifos	1144002	622	488	1000	0.100 - 128	62.2	48.8	ug/L	24.1	30.0

MSD

Parameter	*Sample*	*MS*	*MSD*	*UNK*	*Known*	*Limits*	*MS%*	*MSD%*	*Units*	*RPD*	*Limit%*
Chlorpyrifos	2346304	0.534	0.509	ND	0.956	70.0 - 130	53.4 *	50.9 *	ug/L	4.79	30.0

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	1010	1000	ug/L	101	0.100 - 115	126958527
Tributylphosphate		CCV	972	1000	ug/L	97.2	0.100 - 115	126958535
Tributylphosphate		CCV	983	1000	ug/L	98.3	0.100 - 115	126958545
Tributylphosphate		CCV	1050	1000	ug/L	105	0.100 - 115	126958549
Triphenylphosphate		CCV	971	1000	ug/L	97.1	0.100 - 115	126958527
Triphenylphosphate		CCV	1110	1000	ug/L	111	0.100 - 115	126958535
Triphenylphosphate		CCV	1120	1000	ug/L	112	0.100 - 115	126958545
Triphenylphosphate		CCV	1140	1000	ug/L	114	0.100 - 115	126958549
Tributylphosphate	1144002	Blank	505	1000	ug/L	50.5	0.100 - 115	126958536
Tributylphosphate	1144002	LCS	523	1000	ug/L	52.3	0.100 - 115	126958537
Tributylphosphate	1144002	LCS Dup	394	1000	ug/L	39.4	0.100 - 115	126958538
Triphenylphosphate	1144002	Blank	638	1000	ug/L	63.8	0.100 - 115	126958536
Triphenylphosphate	1144002	LCS	652	1000	ug/L	65.2	0.100 - 115	126958537
Triphenylphosphate	1144002	LCS Dup	511	1000	ug/L	51.1	0.100 - 115	126958538
Tributylphosphate	2346304	MS	0.518	1.00	ug/L	51.8	0.100 - 115	126958540
Tributylphosphate	2346304	MSD	0.507	0.956	ug/L	53.0	0.100 - 115	126958541
Triphenylphosphate	2346304	MS	0.540	1.00	ug/L	54.0	0.100 - 115	126958540
Triphenylphosphate	2346304	MSD	0.519	0.956	ug/L	54.3	0.100 - 115	126958541

Analytical Set 1145546 — EPA 614

Blank

Parameter	*PrepSet*	*Reading*	*MDL*	*MQL*	*Units*	*File*
Azinphos-methyl (Guthion)	1144002	ND	41.4	50.0	ug/L	126958645
Demeton	1144002	ND	31.9	50.0	ug/L	126958645
Diazinon	1144002	ND	19.7	50.0	ug/L	126958645

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

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Eurofins Test America Houston
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Stafford, TX 77477

Project
1122517

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Parameter	PrepSet	Reading	MDL	MQL	Units	File
Malathion	1144002	ND	24.8	50.0	ug/L	126958645
Parathion, ethyl	1144002	ND	23.9	50.0	ug/L	126958645
Parathion, methyl	1144002	ND	27.4	50.0	ug/L	126958645

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	File
Azinphos-methyl (Guthion)	980	1000	ug/L	98.0	37.5 - 164	126958637
Azinphos-methyl (Guthion)	1290	1000	ug/L	129	37.5 - 164	126958644
Azinphos-methyl (Guthion)	1200	1000	ug/L	120	37.5 - 164	126958653
Demeton	982	1000	ug/L	98.2	58.6 - 150	126958637
Demeton	1150	1000	ug/L	115	58.6 - 150	126958644
Demeton	1110	1000	ug/L	111	58.6 - 150	126958653
Diazinon	983	1000	ug/L	98.3	65.4 - 138	126958637
Diazinon	1060	1000	ug/L	106	65.4 - 138	126958644
Diazinon	1060	1000	ug/L	106	65.4 - 138	126958653
Malathion	1000	1000	ug/L	100	49.5 - 160	126958637
Malathion	1170	1000	ug/L	117	49.5 - 160	126958644
Malathion	1140	1000	ug/L	114	49.5 - 160	126958653
Parathion, ethyl	989	1000	ug/L	98.9	56.0 - 142	126958637
Parathion, ethyl	1190	1000	ug/L	119	56.0 - 142	126958644
Parathion, ethyl	1140	1000	ug/L	114	56.0 - 142	126958653
Parathion, methyl	991	1000	ug/L	99.1	12.6 - 194	126958637
Parathion, methyl	1070	1000	ug/L	107	12.6 - 194	126958644
Parathion, methyl	1110	1000	ug/L	111	12.6 - 194	126958653

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	1144002	838	643	1000	0.100 - 155	83.8	64.3	ug/L	26.3	30.0
Demeton	1144002	482	462	1000	0.100 - 109	48.2	46.2	ug/L	4.24	30.0
Diazinon	1144002	585	463	1000	0.100 - 125	58.5	46.3	ug/L	23.3	30.0
Malathion	1144002	610	468	1000	0.100 - 130	61.0	46.8	ug/L	26.3	30.0
Parathion, ethyl	1144002	710	560	1000	0.100 - 122	71.0	56.0	ug/L	23.6	30.0
Parathion, methyl	1144002	678	536	1000	0.100 - 131	67.8	53.6	ug/L	23.4	30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Azinphos-methyl (Guthion)	2346304	0.817	0.724	ND	0.956	30.0 - 150	81.7	72.4	ug/L	12.1	30.0
Demeton	2346304	0.448	0.416	ND	0.956	0.100 - 124	44.8	41.6	ug/L	7.41	30.0
Diazinon	2346304	0.541	0.527	ND	0.956	0.100 - 212	54.1	52.7	ug/L	2.62	30.0
Malathion	2346304	0.509	0.502	ND	0.956	0.100 - 183	50.9	50.2	ug/L	1.38	30.0
Parathion, ethyl	2346304	0.665	0.746	ND	0.956	0.100 - 195	66.5	74.6	ug/L	11.5	30.0
Parathion, methyl	2346304	0.626	0.671	ND	0.956	0.100 - 195	62.6	67.1	ug/L	6.94	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
Tributylphosphate		CCV	1010	2000	ug/L	50.5	0.100 - 106	126958637

Email: Kilgore.ProjectManagement@spllabs.com

QUALITY CONTROL

TABM-G

Eurofins Test America Houston
Bethany A McDaniel
4145 Greenbriar Drive
Stafford, TX 77477

Project
1122517

Printed 11/07/2024

Surrogate

Parameter	*Sample*	*Type*	*Reading*	*Known*	*Units*	*Recover%*	*Limits%*	*File*
Tributylphosphate		CCV	972	2000	ug/L	48.6	0.100 - 106	126958644
Tributylphosphate		CCV	983	2000	ug/L	49.2	0.100 - 106	126958653
Triphenylphosphate		CCV	971	2000	ug/L	48.6	0.100 - 172	126958637
Triphenylphosphate		CCV	1110	2000	ug/L	55.5	0.100 - 172	126958644
Triphenylphosphate		CCV	1120	2000	ug/L	56.0	0.100 - 172	126958653
Tributylphosphate	1144002	Blank	505	2000	ug/L	25.2	0.100 - 106	126958645
Tributylphosphate	1144002	LCS	523	2000	ug/L	26.2	0.100 - 106	126958646
Tributylphosphate	1144002	LCS Dup	394	2000	ug/L	19.7	0.100 - 106	126958647
Triphenylphosphate	1144002	Blank	638	2000	ug/L	31.9	0.100 - 172	126958645
Triphenylphosphate	1144002	LCS	652	2000	ug/L	32.6	0.100 - 172	126958646
Triphenylphosphate	1144002	LCS Dup	511	2000	ug/L	25.6	0.100 - 172	126958647
Tributylphosphate	2346304	MS	0.518	2.01	ug/L	25.8	0.100 - 106	126958649
Tributylphosphate	2346304	MSD	0.507	1.91	ug/L	26.5	0.100 - 106	126958650
Triphenylphosphate	2346304	MS	0.540	2.01	ug/L	26.9	0.100 - 172	126958649
Triphenylphosphate	2346304	MSD	0.519	1.91	ug/L	27.2	0.100 - 172	126958650
Tributylphosphate	2346810	Unknown	0.537	1.95	ug/L	27.5	0.100 - 106	126958664
Triphenylphosphate	2346810	Unknown	0.609	1.95	ug/L	31.2	0.100 - 172	126958664

* Out RPD is Relative Percent Difference: abs(r1-r2) / mean(r1,r2) * 100% Recover% is Recovery Percent: result / known * 100%

Blank - Method Blank (reagent water or other blank matrices that contains all reagents except standard(s) and is processed simultaneously with and under the same conditions as samples; carried through preparation and analytical procedures exactly like a sample; monitors); CCV - Continuing Calibration Verification (same standard used to prepare the curve; typically a mid-range concentration; verifies the continued validity of the calibration curve); MSD - Matrix Spike Duplicate (replicate of the matrix spike; same solution and amount of target analyte added to the MS is added to a third aliquot of sample; quantifies matrix bias and precision.); LCS Dup - Laboratory Control Sample Duplicate (replicate LCS; analyzed when there is insufficient sample for duplicate or MSD; quantifies accuracy and precision.); Surrogate - Surrogate (mimics the analyte of interest but is unlikely to be found in environmental samples; added to analytical samples for QC purposes. **ANSI/ASQC E4 1994 Ref #4 TRADE QA Resources Guide.)

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

1122517 CoC Print Group 001 of 001

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Allen, Jodi L	Carrier Tracking No(s): N/A	COC No: 860-167203.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Ana-Lab Corporation		Accreditations Required (See note): NELAP - Texas		Job #: 860-85063-1
Address: 2600 Dudley Rd, ,	Due Date Requested: 10/25/2024			
City: Kilgore	TAT Requested (days): N/A			
State, Zip: TX, 75662				
Phone: N/A	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WWTP Temple Belton Influent	Project #: 86007586			
Site: Temple Belton/Dossier Farm	SSOW#: N/A			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	SUB (614 Organophos Pesticides)	SUB (622 Chloropyrifos)	Special Instructions/Note:
Temple Belton Influent (860-85063-1)	10/16/24	10:59 Central	G	Water	X	X	See Attached Instructions

Preservation Codes: -

Other: N/A

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/22/24 1720				
2	Relinquished by:	Date/Time: 10/22/24 1010	Company	Received by:	Date/Time: 10/22/24 1010	Company SPL
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Report Page 10 of 10

4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

Environment Testing

Client Information	Sampler: Nathan Wilde	Lab PM: Allen, Jodi L	Carrier Tracking No(s):	COC No: 860-33053-11362.1
Client Contact: Daniel Potell	Phone:	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
Company: Brazos River Authority	PWSID:			Job #:
Address: 4802 Oilfield Rd.	Due Date Requested:			
City: Sugar Land	TAT Requested (days): 10 WD			
State, Zip: TX, 77479	Compliance Project: Δ Yes Δ No			
Phone: 254-761-3272(Tel)	PO #: TBD			
Email: Daniel.Potell@brazos.org	WO #:			
Project Name: WWTP Influent	Project #: 86007586			
Site: Temple Belton Influent	SSOW#:			

Analysis Requested

Preservation Codes:
N None
D HNO3
HB AscbAcd&NaOH
A HCL
GE NH4SO4/NH4OH
H 1 1 H2SO4 client prepped

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	814 (MOD) Organophosphorous Pesticides (GC) TAC 307	615_MOD 2,4D, 2,4,5 TP Hexachlorophene TAC 307	626.1_QQQ Table II & TAC 307 SVOC	300_ORGFM_28D, Fluoride	608.3_PCB, 608.3_Pest Table II & TAC 307	200.7 Table III Metals & TAC 307	632 Carbaryl & Diuron	614 Organhos pesticides (Subcontract)	622 Chloropyrifos (Subcontract)	3600CR Hexavalent & Trivalent Chromium	Total Phosphorus	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	N	N	D	N	N	N	GE	H	X	
Temple Belton Influent	10/16/24	1059	C	Water	N	N	X	X	X	X	X	X	X	X	X	X	X		3.2 31
Comp Start 10/15/24 @ 1100																			33 3.2
Comp Stop 10/16/24 @ 1059																			2.9 2.8
																			HOU 368

860-85063 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 10-17-2024 / 11:35	Company: BRA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Nuevo	Date/Time: 10/18/24 923	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Nathan Wilde	Lab PM: Allen, Jodi L	Carrier Tracking No(s):	COC No: 860-33053-11362.2
Client Contact: Daniel Potell	Phone:	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
Company: Brazos River Authority	PWSID:	Analysis Requested		Job #:
Address: 4802 Oilfield Rd.	Due Date Requested:			Preservation Codes: N None; D HNO3; HB AscbAcd&NaOH; A HCL
City: Sugar Land	TAT Requested (days): 10 WD			
State, Zip: TX, 77479	Compliance Project: Δ Yes Δ No			
Phone: 254-761-3272(Tel)	PO #: TBD			
Email: Daniel.Potell@brazos.org	WO #:			
Project Name: WWTP Influent	Project #: 86007586			
Site: Temple Belton Influent	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631e LL Hg	1664B_NP O&G	1677 Table III Available Cyanide	Kelada_01 Table III Cyanide	624.1 VOC Table 11 & TAC 307	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N	N	A	A	N	HB	N		
Temple Belton Influent Grab 1	10/15/24	1150	G	Water	N	N	X	X	X	X	X	5	
Temple Belton Influent Grab 2	10/15/24	1700	G	Water	N	N	X	X	X	X	X	5	
Temple Belton Influent Grab 3	10/15/24	2300	G	Water	N	N	X	X	X	X	X	5	
Temple Belton Influent Grab 4	10/16/24	0500	G	Water	N	N	X	X	X	X	X	5	
Temple Belton Influent Lab Composite													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10-17-2024/11:35	BRA			
Relinquished by:	Date/Time:	Company	Received by: Nuevar	Date/Time: 10/18/24 923	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Temple-Belton WWTP - Pretreatment

4th Quarter - Table II, III, V (select), & 30 TAC Chapter 307 (Long Quarter)

Samplers Please be sure to verify collection type and bottle/preservation Sign at bottom.
Chief Operators: Please verify that all applicable boxes are checked/filled and sign at bottom.

	Date	Time	Location	Type Req'd	Samples	Bottle Preservatives Required	Comments	Flow (MGD)	CO/LO Verified
TUESDAY	10/15/2024	1100	Influent	Grab 1	Oil and Grease	1-1L Amber w/HCl		8.49	
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
	10/15/2024	1700	Influent	Grab 2	Oil and Grease	1-1L Amber w/HCl		5.95	
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
	10/15/2024	2300	Influent	Grab 3	Oil and Grease	1-1L Amber w/HCl		15.04	
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
	10/15/2024	2300	Effluent	Grab 1	Oil and Grease	1-1L Amber w/HCl		1.51	
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
WEDNESDAY	10/16/2024	500	Influent	Grab 4	Oil and Grease	1-1L Amber w/HCl		11.40	
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
	10/16/2024	500	Effluent	Grab 2	Oil and Grease	1-1L Amber w/HCl		0.31	
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
	10/15/2024 -10/16/2024	1100-1059	Influent	COMPOSITE	614	4-1L amber		NA	
					615	2-60mL amber (large vials)			
					625.1	4-60mL amber (large vials)			
					300 ORG (anions)	2-250mL HDPE	(Flouride, Nitrate, Chloride) 48-hr Hold		
					Chromium (Trivalent)	1-250mL HDPE			
					Chromium (Hexavalent)	1-250mL HDPE w/Ammonium preseratives			
					Metals	1-250mL HDPE w/HNO3	(add Molybedenum, Manganese)		
					608.3	3-1L Amber Glass			
					632 (Carbaryl & Diuron)	1-1L Amber Glass			
					622 (Chloropyrifos)	2-1L Amber Glass			
					Phosphorus	1-250mL HDPE w/H2SO4	preserved by BRA		

Ship ALL Influent Samples SAME-DAY immediately following 1059 COMPOSITE collection!

Temple-Belton WWTP - Pretreatment

4th Quarter - Table II, III, V (select), & 30 TAC Chapter 307 (Long Quarter)

Samplers. Please be sure to verify collection type and bottle/preservation. Sign at bottom
Chief Operators: Please verify that all applicable boxes are checked/filled and sign at bottom.

	Date	Time	Location	Type Req'd	Samples	Bottle Preservatives Required	Comments	Flow (MGD)	CO/LO Verified
WEDNESDAY (cont.)	10/16/2024	1100	Effluent	Grab	Oil and Grease	1-1L Amber w/HCl		0.414	FL
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
	10/16/2024	1700	Effluent	Grab	Oil and Grease	1-1L Amber w/HCl		7.68	FL
					Cyanide (Kelada)	1-250mL HDPE w/NaOH & Acsorbic Acid			
					Cyanide (Available)	1-125mL Amber Plastic w/NaOH	Add Sodium Arsenite AFTER water		
					LL Mercury	3-40mL VOA	Fill "BLANK" w/ DI water in field		
					Volatiles (VOCs 624.1)	2-40mL VOA			
THURSDAY	10/16/2024 -10/17/2024	1100-1059	~~Influent~~ Effluent	COMPOSITE	614	4-1L amber		NA	FL
					615	2-60mL amber (large vials)			
					625.1	4-60mL amber (large vials)			
					300 ORG (anions)	2-250mL HDPE	(Flouride, Nitrate, Chloride) 48-hr Hold		
					Chromium (Trivalent)	1-250mL HDPE			
					Chromium (Hexavalent)	1-250mL HDPE w/Ammonium preseratives			
					Metals	1-250mL HDPE w/HNO3	(add Molybedenum, Manganese)		
					608.3	3-1L Amber Glass			
					632 (Carbaryl & Diuron)	1-1L Amber Glass			
					622 (Chloropyrifos)	2-1L Amber Glass			
					Phosphorus	1-250mL HDPE w/H2SO4	preserved by BRA		

Ship ALL Influent Samples SAME-DAY immediately following 1059 COMPOSITE collection!

INCLUDE this completed schedule with final sample shipping for lab review and verification.
Auto sampler for Influent runs 1100 (Day1) to1059 (Day2), Auto sampler for Effluent will run 1100 (Day 2) to 1059 (Day3).
IF YOU HAVE QUESTIONS PLEASE CONTACT Troy Zwerneman Office. (254) 231-4231 or Cell: (254) 541-2836

Sampler Signature(s) _____

Chief/Lead Operator Signature: _____

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone (281) 240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Nathan White	Lab PM: Allen, Jodi L	Carrier Tracking No(s):	COC No: 860-33053-11362.2
Client Contact: Daniel Potell	Phone:	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Brazos River Authority	PWSID:	Analysis Requested		Job #:
Address: 4802 Oilfield Rd.	Due Date Requested:			Preservation Codes: N None; D HNO3; HB - AscbAcd&NaOH; A HCL
City: Sugar Land	TAT Requested (days): 10 WD			
State, Zip: TX, 77479	Compliance Project: Δ Yes Δ No			
Phone: 254-761-3272(Tel)	PO #: TBD			
Email: Daniel.Potell@brazos.org	WO #:			Other:
Project Name: WWTP Influent	Project #: 86007586			
Site: Temple Belton Influent	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other/Tissue, Air)	Field Filtered Sample (Yes or No)	3500CR Hexavent Chromium	300.0 Nitrate Nitrogen	Total Number of containers	Special Instructions/Note:
	Preservation Code:				N	N	N		
Temple Belton Influent	10/16/24	1059	C	Water	N	N	X	X	2	
Comp Start 10/15/24 @ 1100									
Comp Stop 10/16/24 @ 1059									

860-85065 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological	Return To Client Disposal By Lab Archive For Months
Deliverable Requested: I, II, III, IV Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Nathan White	10-17-2024/1135	BRA			
Relinquished by:	Date/Time:	Company	Received by: Nuevas	Date/Time: 10/18/24 723	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 2.9 2.9 HOU 3.8

Ver: 05/06/2024

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Allen, Jodi L	Carrier Tracking No(s): N/A	COC No: 860-167156.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 860-85063-1
Address: 8600 Kanis Rd, ,	Due Date Requested: 10/25/2024			Preservation Codes: -
City: Little Rock	TAT Requested (days): N/A			
State, Zip: AR, 72204				
Phone: 501-224-5060(Tel) 501-224-5075(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WWTP Temple Belton Influent	Project #: 86007586			
Site: Temple Belton/Dossier Farm	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1631E_NP/ Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Temple Belton Influent Grab 1 (860-85063-2)	10/15/24	11:00 Central	G	Water			X	2	
Temple Belton Influent Grab 2 (860-85063-3)	10/15/24	17:00 Central	G	Water			X	2	
Temple Belton Influent Grab 3 (860-85063-4)	10/15/24	23:00 Central	G	Water			X	2	
Temple Belton Influent Grab 4 (860-85063-5)	10/16/24	05:00 Central	G	Water			X	2	
Temple Belton Influent Grab 1631 Blank 1 (860-85063-7)	10/15/24	11:00 Central	G	Water			X	1	
Temple Belton Influent Grab 1631 Blank 2 (860-85063-8)	10/15/24	17:00 Central	G	Water			X	1	
Temple Belton Influent Grab 1631 Blank 3 (860-85063-9)	10/15/24	23:00 Central	G	Water			X	1	
Temple Belton Influent Grab 1631 Blank 4 (860-85063-10)	10/16/24	05:00 Central	G	Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/21/24 17:00		[signature]	10/22/24 835	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks. 1.6

7794 0997 6798

Ver: 10/10/2024

Danny Brown

From: Jodi Allen
Sent: Tuesday, October 22, 2024 9:28 AM
To: EurofinsArkansas SMG
Cc: Lauren Hansen
Subject: RE: Influent/Effluent

Verified Sender: This email is from an internal and/or verified domain which passed security verifications. Remember to still be cautious with personal data and follow company policies.

You should go by the login.

Jodi Allen
Project Manager

Mobile:+1 281.520.2865
E-mail: Jodi.Allen@ET.EurofinsUS.com

From: EurofinsArkansas SMG <EurofinsArkansas.SMG@et.eurofinsus.com>
Sent: Tuesday, October 22, 2024 9:23 AM
To: Jodi Allen <Jodi.Allen@et.eurofinsus.com>
Cc: Lauren Hansen <Lauren.Hansen@et.eurofinsus.com>
Subject: Influent/Effluent

Verified Sender: This email is from an internal and/or verified domain which passed security verifications. Remember to still be cautious with personal data and follow company policies.

Hello Jodi,
We received your Hg samples this morning. Each of the samples are labeled Influent on the outside of the bag and Effluent on the inside vial (see attached). Should we use the inside or outside Sample ID? Please advise.

Thank you,

Danny Brown
Senior Scientist Group Leader

Eurofins Arkansas
8600 Kanis Road
Little Rock, AR 72204
Phone: 501 224-5060

Danny.Brown@et.eurofinsus.com
www.eurofins.com

Eurofins Houston
4145 Greenbriar Dr
Stafford, TX 77477
Phone: 281-240-4200

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Allen, Jodi L	Carrier Tracking No(s): N/A	COC No: 860-167183.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jodi.Allen@et.eurofinsus.com	State of Origin: Texas	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Texas		Job #: 860-85063-1
Address: 4955 Yarrow Street,	Due Date Requested: 10/25/2024			Preservation Codes: -
City: Arvada	TAT Requested (days): N/A			
State, Zip: CO, 80002				
Phone: 303-736-0100(Tel) 303-431-7171(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: WWTP Temple Belton Influent	Project #: 86007586			Other: N/A
Site: Temple Belton/Dossier Farm	SSOW#: N/A			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D7065_11/D7065_11_W_Prep Nonylphenol	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Temple Belton Influent (860-85063-1)	10/16/24	10:59 Central	G	Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10-22-24 0900	Company EEDEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.9°C TwiCF01

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: Brazos River Authority

Job Number: 860-85063-1

Login Number: 85063
List Number: 1
Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Brazos River Authority

Job Number: 860-85063-1

Login Number: 85063
List Number: 2
Creator: Hansen, Lauren K

List Source: Eurofins Arkansas
List Creation: 10/22/24 09:36 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Brazos River Authority

Job Number: 860-85063-1

Login Number: 85063
List Number: 3
Creator: Held, Wesley

List Source: Eurofins Denver
List Creation: 10/22/24 11:47 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Brazos River Authority

Job Number: 860-85063-1

Login Number: 85063
List Number: 4
Creator: Mullins, Plumm A

List Source: Eurofins Pittsburgh
List Creation: 10/22/24 03:25 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Brazos River Authority

Job Number: 860-85063-1

Login Number: 85065
List Number: 1
Creator: Jimenez, Nicanor

List Source: Eurofins Houston

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Attachment K

Parameters above the MAL

Worksheet 6.0, Section 2.C

ATTACHMENT K
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
PARAMETERS ABOVE THE MAL
(all units in µg/L)

Parameter	MAL	2024 - Q2	2024 - Q1	2023 - Q4	2023 - Q3	2023 - Q2	2023 - Q1	2022 - Q4	2022 - Q3	2022 - Q2	2022 - Q1	2021 - Q4	2021 - Q3
Arsenic	0.5	0.739	1.21	1.32	1	0.807	1.03	1.96	1.57	0.636	1.03	1.86	1.34
Chromium (Hex)	3	3.98											7.01
Copper	2	2.69	4.5	3.21	2.95	3.44	5.25	4.28	9.21	5.02	4.67	4.67	3.48
Lead	0.5	0.514											
Mercury	0.005				0.046		0.007						
Nickel	2						2.05			2.37			
Zinc	5	57.2	81.7	78.1	51.7	44.7	65	50	52.9	60.3	49.6	57	58.2
Cyanide, Available	10										16.2		
Cyanide, Total	10										16.2		
Aluminum	2.5	18.4	19	23.6	16.4	18.1	24.8	29.8	219	35.3	22.9	18.6	18.7
Barium	3	58.2	59.1	55.4	26.8	55.7	55.4	19.7	59.4	53.7	54.3	48.4	60.5
Guthion	0.1	<0.0101								<0.0106			
Nitrate-Nitrogen	100	4690	5970	7450	8870	4990	10400	8730	7120	2790	6250	8110	6270
Molybdenum	1	1.58	2.26	2.08	2.01	1.57	2.04	2.4	1.47	2.08	1.48	1.16	1.46

Attachment L

Sludge Treatment Process Information

Sewage Sludge Tech Report 1.0, Section 1.A

ATTACHMENT L

CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION

SLUDGE TREATMENT PROCESS DESCRIPTION

1. **Description of Sludge Processing**

   Windrow composting is currently used to meet pathogen and vector requirements. Approximately 50% of the dewatered solids are composted using 1 part waste solids to 4-5 parts wood waste.

2. **Process Flow Diagram**

   See Attachment D.

3. **Design Calculations, features, and functional arrangements**

   Dimensions of Treatment Units - See Attachment C.

4. **Site Controls**

   a. By maintaining moisture content in the windrows of approximately 45 to 60 percent, the process utilizes the existing water borne microorganisms to break down the organic content of the windrow.

   b. Description of the Storage method - The products that are in the different stages of production are stored in a manner and location to minimize the potential for contamination.

5. **Groundwater Protection**

   The entire Compost Area has a clay lined bottom.

6. **Odor, Dust, and Bioaerosol Management Plan**.

   Windrow composting and landfilling are used to meet these requirements. There is also a water trailer that can be utilized when dust conditions warrant.

7. **Description of the Ultimate use of the product.**

   a. Sludge is either composted or disposed at the Temple Recycling and Disposal Facility Landfill. All finished compost is beneficially land applied. No material that makes process is landfilled.

   b. Temple Belton WWTF sells compost to the general public, landscapers, and provides to the City of Temple and City of Belton. City of Temple and City of Belton are owners of the plant and receive the material at no expense.

BRAZOS RIVER AUTHORITY
TEMPLE-BELTON Wastewater Treatment Plant
COMPOST DATA SHEET

WINDROW # 100 **DATE CONSTRUCTED**
POSITION # **PFRP DATE** #NUM!
DATE REMOVED

INGR.	SOURCE	YD3	%M	%V	%S	TKN	Dens. in gm/l	Dens. in lb/yd3
SLUDGE	SEE BELO	0	#N/A	#N/A	#N/A			0.00
CHIPS			#N/A	#N/A	#N/A		#N/A	#N/A
CULL			#N/A	#N/A	#N/A		#N/A	#N/A
RECYCLE					100.00			0.00
SAWDUST					100.00			0.00
TOTALS		0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

LAB ANALYSIS						MPN Coliform Count =		#N/A
SAMPLE	YD3	%M	%V	%S	TKN	pH	Dens. in gm/l	Dens. in lb/yd3
INITIAL	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
FINAL	0	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
% REMOVAL	#DIV/0!	#N/A	#N/A	#N/A	#N/A	#N/A		#N/A

SLUDGE DETAIL						STATISTICS	
RUN DATE	SOURCE	YD3	%M	%V	%S	Bulk Ratio =	#DIV/0!
00-Jan			#N/A	#N/A	#N/A	Tot. Turns =	0
01-Jan			#N/A	#N/A	#N/A	PFRP Turns =	0
02-Jan			#N/A	#N/A	#N/A	Days to PFRP =	#NUM!
03-Jan			#N/A	#N/A	#N/A	Days to Proc =	0
04-Jan			#N/A	#N/A	#N/A	C/N Ratio Start =	#N/A
05-Jan			#N/A	#N/A	#N/A	C/N Ratio Finish =	#N/A
06-Jan			#N/A	#N/A	#N/A	Coliform in col/KG =	

FINAL DISPOSITION

YD3	DISPOSAL

OPERATORS SIGNATURE DATE

SUPERINTENDENTS SIGNATUR DATE

BRAZOS RIVER AUTHORITY
TEMPLE-BELTON Wastewater Treatment Plant
TEMPERATURE DATA SHEET

WINDROW # 100
POSITION # 0

DATE CONSTRUCTED 00-Jan-00
PFRP DATE #NUM!
DATE REMOVED 00-Jan-00

		TEMPS IN °C					TIME	TOTAL	PFRP	PFRP DATE	WATER
DAY	DATE	N	M	S	AMB.	AVG.	TURNED	TURNS	TURNS	IND.TEMP	ADDED
1	00-Jan-00										
2	01-Jan-00										
3	02-Jan-00										
4	03-Jan-00										
5	04-Jan-00										
6	05-Jan-00										
7	06-Jan-00										
8	07-Jan-00										
9	08-Jan-00										
10	09-Jan-00										
11	10-Jan-00										
12	11-Jan-00										
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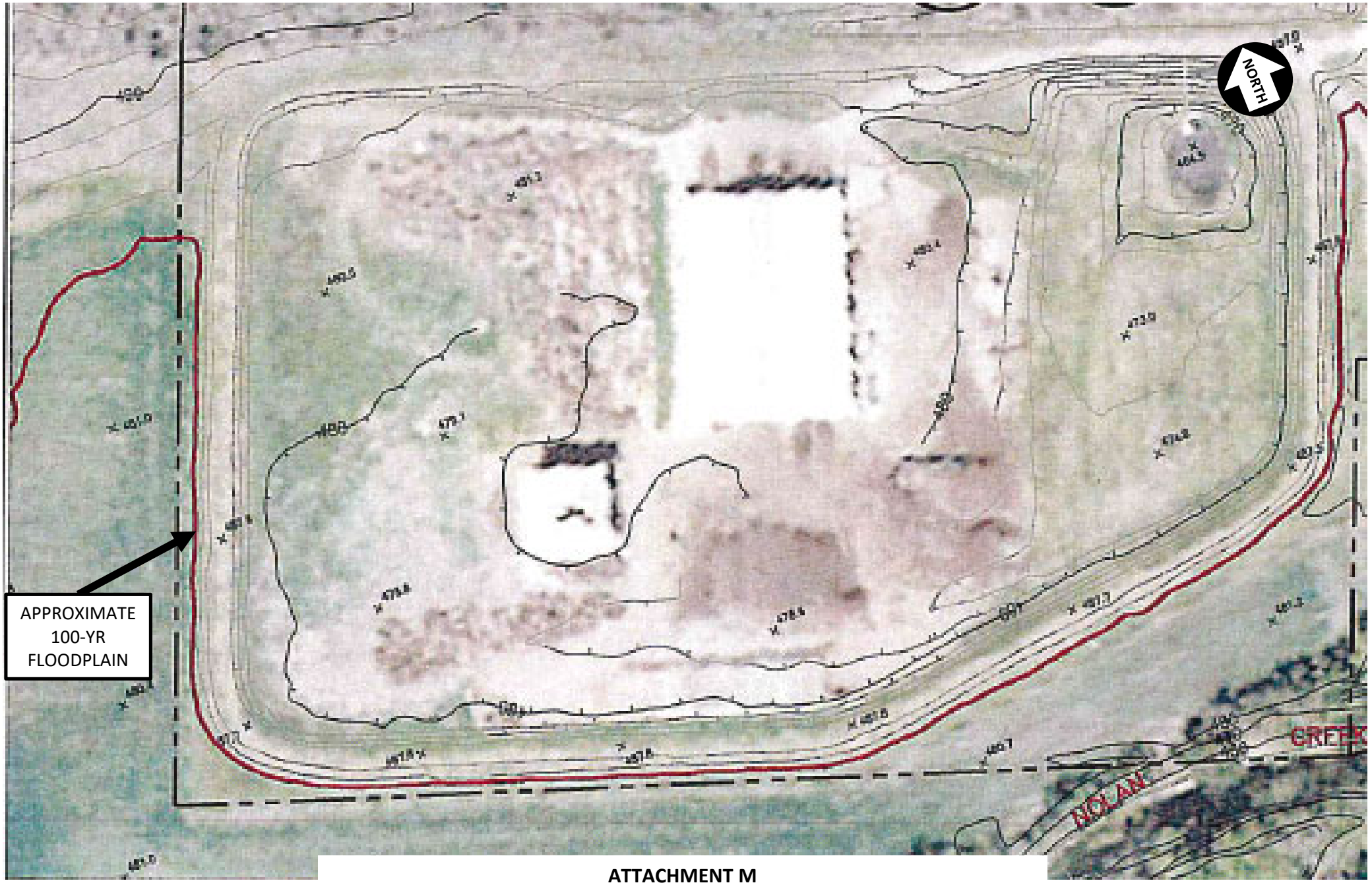
26	25-Jan-00										
27	26-Jan-00										
28	27-Jan-00										
29	28-Jan-00										
30	29-Jan-00										
31	30-Jan-00										
32	31-Jan-00										
33	01-Feb-00										
34	02-Feb-00										

Attachment M

100-Year Frequency Flood Protective Measures

Sewage Sludge Tech Report 3.0, Section 1.B



0 100 200

SCALE IN FEET

ATTACHMENT M
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
100-YEAR FREQUENCY FLOOD PROTECTIVE MEASURES

Attachment N

Marketing and Distribution Plan

Sewage Sludge Tech Report 3.0, Section C

TRI-GRO COMPOST

Produced and distributed by
Brazos River Authority
2405 East 6th Street
Belton, TX 76513
254-939-6471

COMPOST LOADING SCHEDULE

- WEDNESDAYS 8 a.m. – 4 p.m.
- FRIDAYS 8 a.m. – 4 p.m.
- 1st & 3rd SATURDAYS 8 a.m. – noon

NOTICE TO CONSUMERS

TriGro is a sewage sludge product which has been processed in a manner that meets all the Texas Commission on Environmental Quality (TCEQ) requirements of "uncontrolled use" as a soil conditioner and organic fertilizer. The Authority recommends that it not be used for growing crops for human consumption (home vegetable garden). The use of this product should be restricted to areas such as lawns, flower and other home gardens.

Various uses and application rates of Tri-Gro compost to achieve fertilizer benefits and soil improvement.

USE	COMPOST LBS PER 1,000 SQ. FT. *INCHES IN DEPTH*	REMARKS
Turf grasses: Establishment Soil incorporated	2,000 to 6,000 ½ to 2	Incorporate into top 4 – 6 inches of soil. Use lower rate on relatively fertile soil and higher rate on infertile soil
Surface mulch	600 to 700 ¼ inch	Broadcast uniformly on surface before seeding small seeded species (Bermuda grass) or after seeding large seeded species (fescues).
Maintenance	400 to 800 1/10 to ¼	Broadcast uniformly on surface. On cool season grasses apply higher rate in fall or lower rate in fall and again in early spring
Nursery crop and ornamentals (shrubs & trees) Establishment	1,900 to 7,000 ½ to 2 ¼	Incorporate into top 6 – 8 inches of soil. Do not use where acid-soil plants (azalea, rhododendron, etc.) are to be grown.
Maintenance	200 – 500 1/10 to 1/5	Broadcast uniformly on surface soil. Can be worked into soil or used as mulch.
Tree balling	Use at 50% rate	Mixes based on compost with bark or soil
Potting soil mixes	Not more than 33% by volume	Thoroughly water and drain mixes several times before planting to prevent salt injury to plants. Blending materials: peat, sand vermiculite, perlite, bark

** 1,500 lbs per 1,000 square feet is approximately equal to ½ inch depth of compost. Compost has a bulk density of about 1,000 lbs per cubic yard at 40 percent moisture. United States Department of Agriculture publication ARM-NE-6, August 1979*

The Brazos River Authority

The Brazos River Authority has been among the first to recognize the growing recycling market in the Central Texas Area. The three entities of the Brazos River Authority and the cities of Temple and Belton started working together in 1990 to produce Tri-Grow products.

Tri-Gro Benefits

Whether you are putting in a flower bed or planting shrubs and trees, Tri-Gro products are the economical way to garden and landscape.

Compost will:

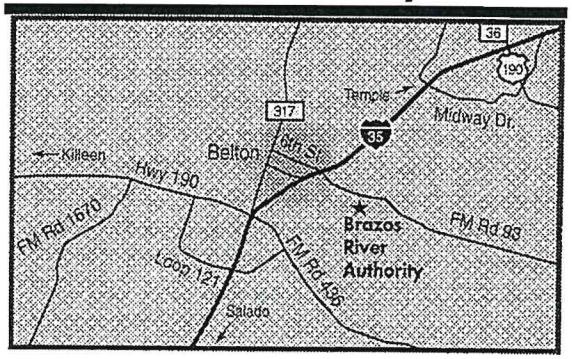
- ★ Provide slow release nitrogen, making it readily available to plants longer
- ★ Improve soil tilth, making digging and tilling easier
- ★ Improves moisture retention, decreasing the frequency of watering
- ★ Provide organic matter, incorporating micro-nutrients into the soil that commercial fertilizers can't provide
- ★ Normalizes soil pH, making it good for both sandy and clay soils.

Loading Schedule

Wednesday	7am - 4pm
Friday	7am - 4pm
Saturday	7am - 2pm
Closed:	Sundays/holidays

Occasionally, product may run short in the late spring and summer, so you may want to call prior to coming.

Location of the Temple/Belton Facility



★

For more information, you may want to explore our website:

http:/ / www.brazos.org/home.htm

★

The Brazos River Authority
Regional Sewerage System
2405 East 6th St.
Belton, Texas 76513
(254) 939-6471

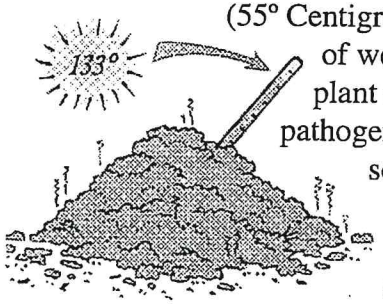
The Brazos River Authority

Mulches & Compost

COMPOST

Tri-Gro

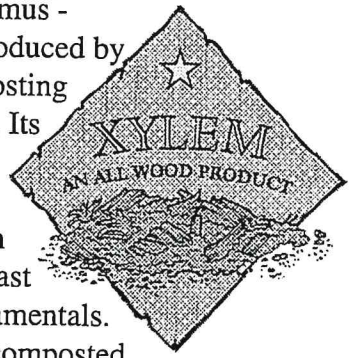
Tri-Gro compost is a humus product produced by composting processed waste-water biosolids with wood products. Because it is carefully processed at temperatures higher than 133° Fahrenheit (55° Centigrade), it is free of weed seeds, plant diseases and pathogens. Whether screened compost is tilled into the soil or used as a side or top dressing, it will significantly increase the health of established lawns and bedded plants. Extremely poor soils may require repeat applications to promote optimum growing conditions. When unscreened Tri-Gro compost is used as a mulch it provides the benefits of a soil amendment and a mulch in one application. The Authority does not recommend the use of this product on gardens for human consumption.



MULCH

Xylem

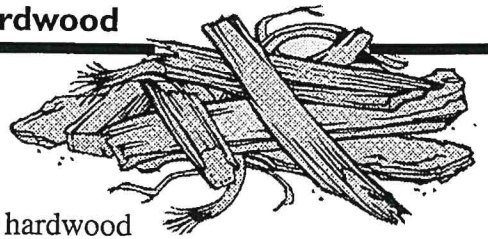
Xylem is a humus - like product produced by partially composting wood products. Its dark rich color makes it an excellent mulch for use to contrast shrubs and ornamentals. Because of its composted condition, Xylem will decompose readily adding organic matter to the soil in just a few months and because it is an all wood product, it is safe to use anywhere.



Advantages of Mulch

- ★ Improves aesthetic appearance of beds and gardens
- ★ Retards weed growth by providing a natural ground cover
- ★ Decreases soil temperature in the summer
- ★ Insulates and protects plants in the winter
- ★ Makes excellent paths in lawns and gardens, providing a natural semi-permanent walking surface.

Hardwood



Our hardwood mulch is produced from used wood scraps and scrap lumber. Many landscapers prefer this product because of the light color coupled with its long lasting shape retention. This product will not decompose readily and lasts longer than any of our other mulch products.

Native

Our native wood mulch is produced solely from trees indigenous to this area. Because this product is produced from brush and whole trees, it shreds more readily and locks together during application. This prevents it from being easily washed away during our hard Texas rains. This product decomposes slowly, maintaining its natural color longer, but still providing organic matter to the soil over a long period.

Attachment SPIF

Supplemental Permit Information Form

- **SPIF-1 General Location Map**
- **SPIF-2 USGS Map**

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 Temple and City of Belton**

   Permit No. WQ00 **11318001** EPA ID No. TX **0058378**

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

   2405 East Sixth Avenue, Belton, TX in Bell County

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

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

First and Last Name: **Kenton Moffett**

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

Title: **Assistant Director of Public Works - Utilities**

Mailing Address: **3210 E. Avenue H, Bldg A, Suite 123**

City, State, Zip Code: **Temple, TX 76501**

Phone No.: **(254) 298-5621** Ext.: Click here to enter text. Fax No.: Click here to enter text.

E-mail Address: **kmoffett@templetx.gov**

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

The property is owned by the applicants.

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

The discharge is to Nolan Creek/South Nolan Creek in Segment No. 1218 of the Brazos 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). **See SPIF-1 and SPIF-2.**

Provide original photographs of any structures 50 years or older on the property. **N/A**

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):

Construction will impact 4.7 acres and excavation depths will be generally limited to 0 – 15 feet below ground consistent with utility construction and structure foundations. No caves or karst features are expected to be encountered on the site.

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

Existing disturbances, vegetation and land use are those typical of a domestic wastewater treatment facility.

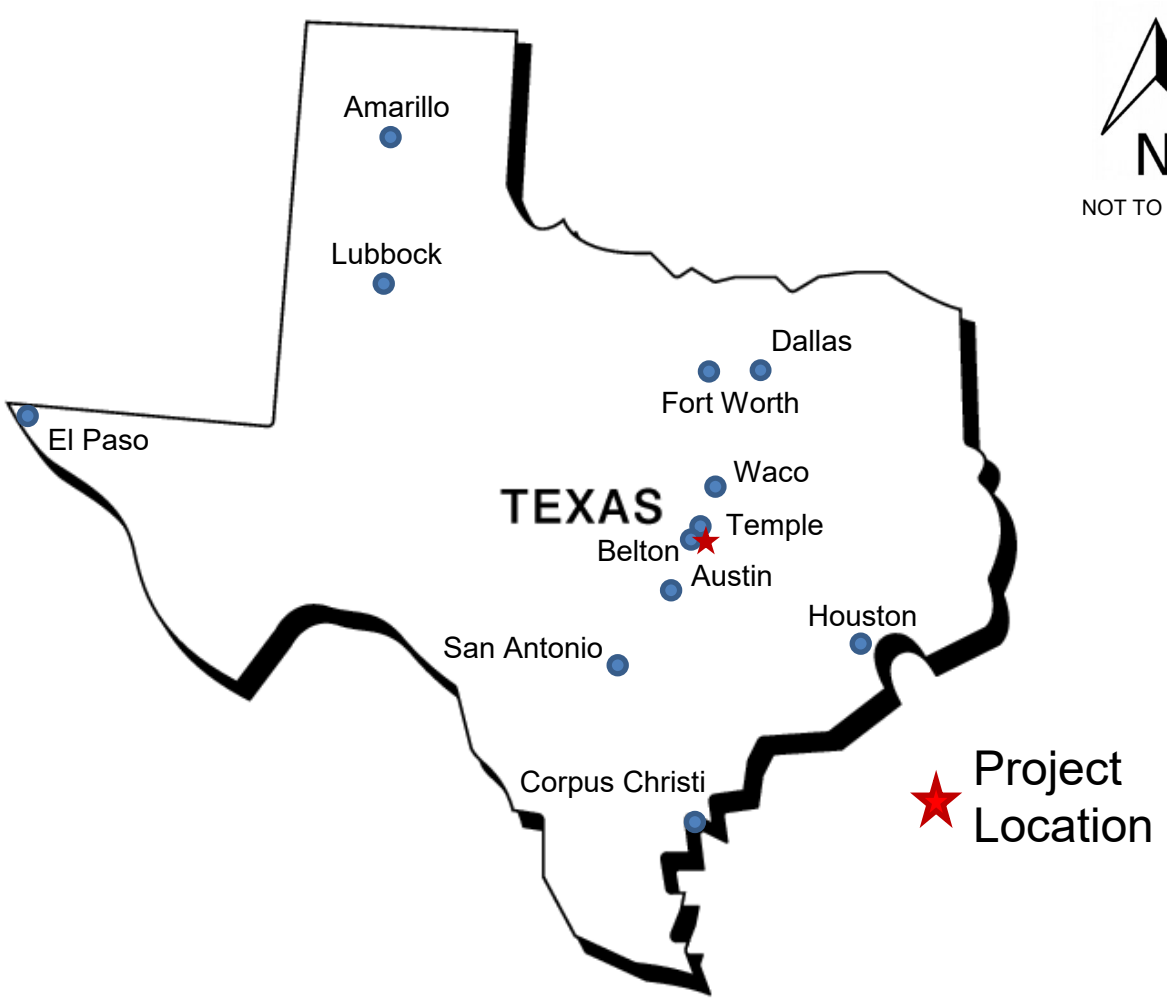
THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

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



SPIF-1

CITY OF TEMPLE AND CITY OF BELTON

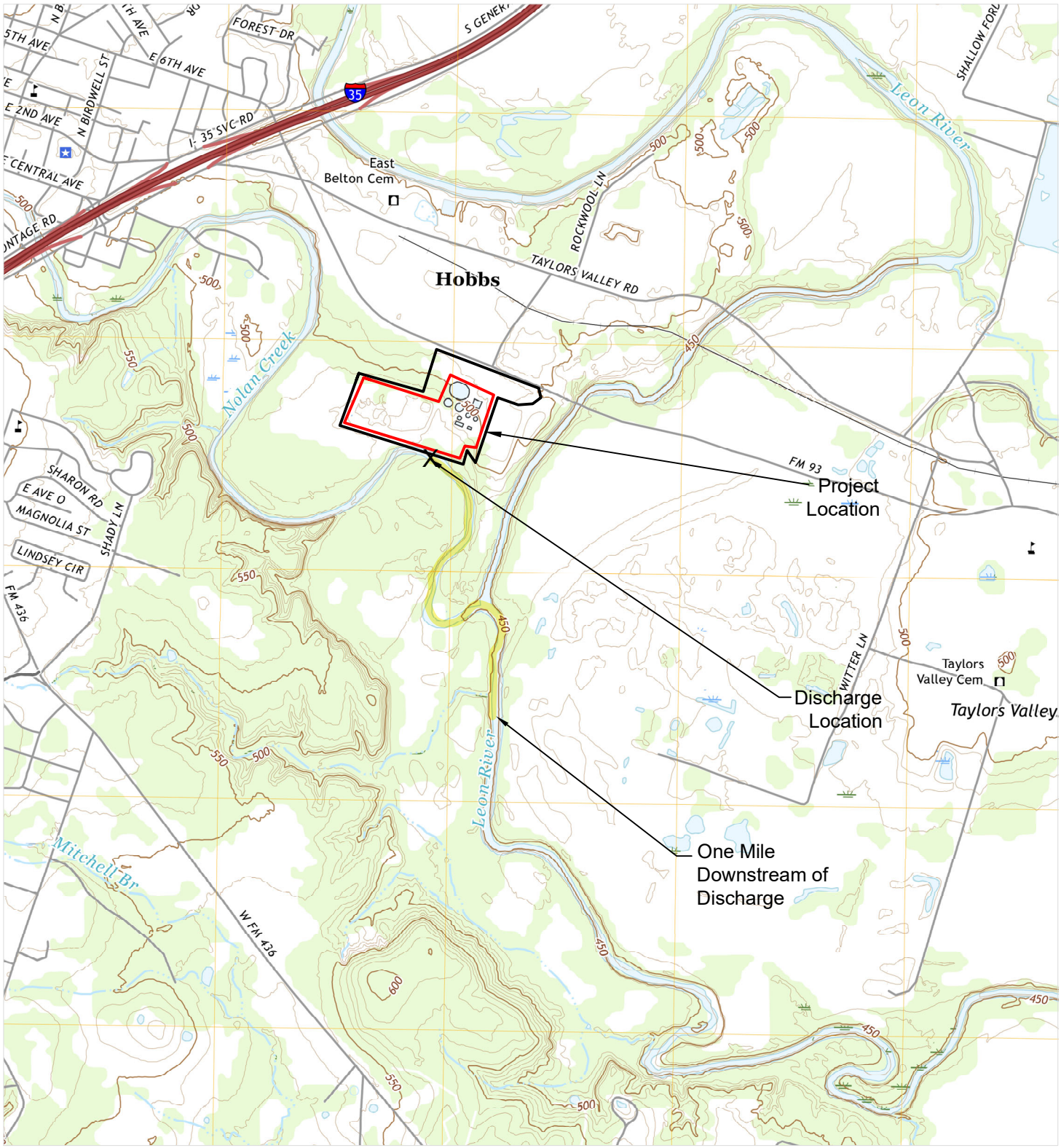
TEMPLE BELTON WASTEWATER TREATMENT FACILITY

TEXAS POLLUTANT DISHARGE ELIMINATION SYSTEM PERMIT APPLICATION

GENERAL LOCATION MAP

Mead & Hunt

0 N 1
MILE
SCALE 1:24000



SPIF 2
CITY OF TEMPLE AND CITY OF BELTON
TEMPLE BELTON WASTEWATER TREATMENT FACILITY
TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT APPLICATION
USGS MAP

Leah Whallon

From: Janet Sims <janet.sims@meadhunt.com>
Sent: Monday, December 2, 2024 11:54 AM
To: Leah Whallon
Cc: Kenton Moffett
Subject: RE: Application to Renew/Amend Permit No. WQ0011318001; City of Temple; City of Belton; Belton Temple WWTP
Attachments: WQ0011318001 NORI Spanish.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Leah,
The portion of the NORI has been reviewed. No errors or omissions were found.
As requested, attached is Spanish NORI. The portions without content control have been updated.
The new NORI template, however, does not allow the permit number to be added to the title section of the document.

Let me know if you have any questions.
Thanks,
Janet

Janet Sims
Direct: 512-735-1001 | Cell: 512-695-2468 | Transfer Files
meadhunt.com | Experience Exceptional

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Tuesday, November 19, 2024 3:40 PM
To: Janet Sims <janet.sims@meadhunt.com>
Cc: Kenton Moffett <kmoffett@templetx.gov>
Subject: RE: Application to Renew/Amend Permit No. WQ0011318001; City of Temple; City of Belton; Belton Temple WWTP

Hi Janet,

Thank you for the clarification and apologies for the confusion on our end. A major amendment is not needed for the authorizations to conduct sludge composting and marketing and distribution of biosolids to be put back in the permit. This can be reviewed a renewal with minor amendment as submitted. No further response is needed for Items 1-3 of the NOD letter.

Please let me know if you have any questions.

Thanks,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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

From: Janet Sims <janet.sims@meadhunt.com>
Sent: Tuesday, November 19, 2024 3:33 PM
To: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Cc: Kenton Moffett <kmoffett@templetx.gov>
Subject: RE: Application to Renew/Amend Permit No. WQ0011318001; City of Temple; City of Belton; Belton Temple WWTP

Leah,
I reviewed your Notice of Deficiency letter and would like to provide clarification to the requests regarding the sludge authorizations.

The requested amendment is for the authorizations to conduct sludge composting and marketing and distribution of biosolids to be put back into the permit because the authorizations were missed by the permit writer in the permit issued on October 23, 2023. The letter that is presented as Attachment A.2 in the application provides more information about the error.
As stated in Section 10 of the Technical Report, my client is not requesting authorization to land apply Class B biosolids.
Therefore, neither a major amendment to the permit or completion of Administrative Report 1.1 is warranted.

Please let me know if you agree that a major amendment to the application is not necessary.

Thank you,
Janet

Janet Sims
Senior Project Manager | Water/Wastewater
Direct: 512-735-1001 | Cell: 512-695-2468 | Transfer Files
Mead&Hunt
LinkedIn | Facebook | Instagram

From: Leah Whallon <Leah.Whallon@Tceq.Texas.Gov>
Sent: Monday, November 18, 2024 4:35 PM

To: kmoffett@templetex.gov; Janet Sims <janet.sims@meadhunt.com>
Subject: Application to Renew/Amend Permit No. WQ0011318001; City of Temple; City of Belton; Belton Temple WWTP

Good Afternoon,

Please see the attached Notice of Deficiency letter dated November 18, 2024 requesting additional information needed to declare the application administratively complete. Please send the complete response by December 2, 2024.

Please let me know if you have any questions.

Thank you,

Leah Whallon
Texas Commission on Environmental Quality
Water Quality Division
512-239-0084
leah.whallon@tceq.texas.gov

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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. WQ00_____

SOLICITUD. La Ciudad de Temple y la Ciudad de Belton, 3210 East Avenue H, Building A, Temple, Texas 76501, han solicitado a la Comisión de Calidad Ambiental del Estado de Texas (TCEQ) para renovar el Permiso No. WQ0011318001 (EPA I.D. No. TX0058378) 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 anual de 16,000,000 galones por día. La planta está ubicada2405 East 6th Avenue, en la ciudad de Belton en el Condado de Bell, Texas 76513. La ruta de descarga es del sitio de la planta directamente a Nolan Creek / South Nolan Creek. La TCEQ recibió esta solicitud el 8 de noviembre de 2024. La solicitud para el permiso estará disponible para leerla y copiarla en el Departamento de Obras Públicas de la Ciudad de Temple, Suite 130, 3210 East Avenue H, Building A, Temple, en el condado de Bell, Texas antes de la fecha de publicación de este aviso en el periódico. La solicitud (cualquier actualización y aviso inclusive) está disponible electrónicamente en la siguiente página web: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. Este enlace a un mapa electrónico de la ubicación general del sitio o de la instalación es proporcionado como una cortesía y no es parte de la solicitud o del aviso. Para la ubicación exacta, consulte la solicitud. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-97.438442,31.045691&level=18

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

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

COMENTARIO PUBLICO / REUNION PUBLICA. Usted puede presentar comentarios públicos o pedir una reunión pública sobre esta solicitud. El propósito de una reunión pública es dar la oportunidad de presentar comentarios o hacer preguntas acerca de la solicitud. La TCEQ

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

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

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

Después del cierre de todos los períodos de comentarios y de petición que aplican, el Director Ejecutivo enviará la solicitud y cualquier petición para reconsideración o para una audiencia de caso impugnado a los Comisionados de la TCEQ para su consideración durante una reunión programada de la Comisión. La Comisión sólo puede conceder una solicitud de una audiencia de caso impugnado sobre los temas que el solicitante haya presentado en sus comentarios oportunos que no fueron retirados posteriormente. Si se concede una audiencia, el tema de la audiencia estará limitado a cuestiones de hecho en disputa o cuestiones mixtas de hecho y de derecho relacionadas a intereses pertinentes y materiales de calidad del agua que se hayan presentado durante el período de comentarios. 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. Además, puede pedir que la TCEQ ponga su nombre en una o más de las listas correos siguientes (1) la lista de correo permanente para recibir los avisos del solicitante indicado por nombre y número del permiso específico y/o (2) la lista de correo de todas las solicitudes en un condado especifico. Si desea que se agrega su nombre en una de las listas designe cual lista(s) y envía por correo su pedido a la Oficina del Secretario Principal de la TCEQ.

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

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

También se puede obtener información adicional del Ciudad de Temple a la dirección indicada arriba o llamando a Sr. Kenton Moffett, P.E., Director Asistente de Obras Públicas - Servicios Públicos al 254-298-5623.

Fecha de emisión: